

ACL 2020

**The 58th Annual Meeting of the
Association for Computational Linguistics**

Proceedings of the Conference

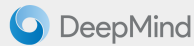
July 5 - 10, 2020

Diamond Sponsors



Platinum Sponsors

IBM Research AI



Gold Sponsors



Silver Sponsors



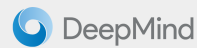
Bronze Sponsors



Supporter Sponsors



Diversity & Inclusion Champion Sponsors



©2020 The Association for Computational Linguistics

Order copies of this and other ACL proceedings from:

Association for Computational Linguistics (ACL)
209 N. Eighth Street
Stroudsburg, PA 18360
USA
Tel: +1-570-476-8006
Fax: +1-570-476-0860
acl@aclweb.org

ISBN 978-1-952148-25-5

Message from the General Chair

It is my delightful duty as General Chair to sit at my kitchen table here in San Francisco and write these words welcoming you to the 58th Annual Meeting of the Association for Computational Linguistics.

Our conference this year is of course very different than in the past; I'll be attending the conference from my kitchen table as well. This is our first experience of ACL as a virtual conference, a shift due to a great trial to all of us, the COVID-19 virus.

Our hope in designing this year's conference was to draw strength from this tragedy and come together as a community. We wanted the conference to offer a beacon of inclusion, making it much easier for people all over the globe, whatever their resources or backgrounds, to come to share their knowledge and learn from each other, in a safe, welcoming, and exciting environment. And we wanted the conference to offer a message of sustainability, proving that even without the environmental costs of thousands of people flying around the globe, and despite the lack of face-to-face camaraderie that helps bind us together, we could nonetheless send our words and thoughts and around the globe and build something together in another way.

Our challenge was to do so in a few months, and with little prior experience of our own. I am so proud of our program chairs Joyce Chai, Natalie Schluter, and Joel Tetreault, and the entire organizing committee, for rising to the challenge and putting together this wonderful meeting.

We have many people to thank. Joyce, Natalie, and Joel, as is our ACL custom, bore the brunt of the organizational burden, and managed beautifully despite all the simultaneous demands of the whirlwinds of their daily work and home lives. The unflappable and wise Priscilla Rasmussen. The amazing 52-person organizing committee, who all turned on a dime to make the conference work virtually: Local Chairs (Jianfeng Gao, Luke Zettlemoyer), Tutorial Chairs (Agata Savary, Yue Zhang), Workshop Chairs (Milica Gašić, Dilek Hakkani-Tur, Saif M. Mohammad, Ves Stoyanov), Student Research Workshop Chairs (Rotem Dror, Jiangming Liu, Shruti Rijhwani, Yizhong Wang), Faculty Advisors to the Student Research Workshop (Omri Abend, Sujian Li, Zhou Yu), Conference Handbook Chair (Nanyun Peng), Demonstration Chairs (Asli Celikyilmaz, Shawn Wen), Diversity and Inclusion Chairs (Cecilia Ovesdotter Alm, Vinodkumar Prabhakaran), Diversity and Inclusion Sub-Committee Chairs (Academic Inclusion Chairs: Aakanksha Naik, Emily Prud'hommeaux, Alla Rozovskaya; Accessibility Chairs: Sushant Kafle, Masoud Rouhizadeh, Naomi Saphra; Childcare Chairs: Khyathi Chandu, Stephen Mayhew; Financial Access Chairs: Allyson Ettinger, Ryan Georgi, Tirthankar Ghosal; Socio-cultural Inclusion Chairs: Shruti Palaskar, Maarten Sap), Local Sponsorship Chairs (Hoifung Poon, Kristina Toutanova), Publication Chairs (Steven Bethard, Ryan Cotterell, Rui Yan), Virtual Infrastructure Chairs (Hao Fang, Sudha Rao), Virtual Infrastructure Committee (Yi Luan, Hamid Palangi, Lianhui Qin, Yizhe Zhang), Publicity Chairs (Emily M. Bender, Esther Seyffarth), Sustainability Chairs (Ananya Ganesh, Klaus Zechner), Student Volunteer Coordinator (Marjan Ghazvininejad), Website Chairs (Sudha Rao, Yizhe Zhang)

The ACL Executive Committee gave excellent guidance and advice. Extra-special thanks to ACL Officers Nitin Madnani, Matt Post, and David Yarowsky. We drew heavily on the infrastructure pioneered by Sasha Rush and the ICLR organization committee at ICLR 2020, together with lots of advice from the organizers of other virtual conferences and the ACM.

We are, as always, extremely grateful to our sponsors, listed on the previous page.

And finally, thanks to you, the thousands of members of our community who made this conference possible by writing papers, recording talks, reviewing and area chairing the papers, being invited speakers, and perhaps most important, by reading

Dan Jurafsky
ACL 2020 General Chair
July 2020

Message from the Program Chairs

Welcome to the 58th Annual Meeting of the Association for Computational Linguistics! ACL 2020 has a special historical significance as this is a particularly exciting period for our field: our field has grown dramatically, NLP research is now ubiquitous in products, and the barrier to entry to the field has lowered considerably. Finally, ACL 2020 is the first ever virtual conference in the community's history. As the world combats the COVID-19 pandemic we are very grateful for all of your support and contributions which make ACL 2020 exciting and memorable.

ACL 2020 received 3,429 submissions—an all-time record for ACL-related conferences! This number represents more than a two-fold increase in submissions from just two years ago. The submissions were assigned to one of 25 topic tracks. This year, we introduced four new tracks: (1) **Ethics and NLP**. Research to assess the associated ethical assumptions and consequences of our NLP applications is crucial as these NLP applications become more and more pervasive and impactful in our society. (2) **Interpretation and Analysis of Models for NLP**. As the community strives to push performance boundaries, understanding behaviors of state-of-the-art models becomes critical. (3) **Theory and Formalism (Linguistic and Mathematical)**. The creation of this track reflects that theoretical research in NLP belongs at ACL and ensures a group of dedicated reviewers for the fair assessment of theory papers. (4) **Theme: Taking Stock of Where We've Been and Where We're Going**. The last few years have witnessed unprecedented growth since the field began over sixty years ago. This track is designed to invite submissions that can provide insight for the community to assess how much we have accomplished today with respect to the past and where the field should be heading.

To meet the reviewer demands of a growing conference without compromising review quality, we initiated a large-scale reviewer recruiting effort. All authors, except for those who explicitly chose to opt-out due to various reasons, were required to review if called upon. We asked all authors to fill out both a global profile and a local profile form that would allow the review system to best detect conflicts of interest (COIs) and to match submissions to reviewers. We thank the overwhelming support from the community. This effort led to a pool of more than 11K candidate reviewers, from which 2,519 primary reviewers were called upon and participated in the review process. Together with Senior Area Chairs (SACs), Area Chairs (ACs), primary reviewers, and secondary reviewers, we have the largest ever program committee in the history of ACL with 3319 members, marking a 47% increase over ACL 2019 (2,256 members).

In addition, we launched a new pilot mentoring program. It is of central importance for our community to mentor and train our new reviewers in order to keep up with the community's rapid growth, both in terms of submissions and in terms of new members of the community, and in order to maintain review quality. In this mentoring program, we pair Area Chairs with mentees (often a Ph.D. student, or a junior researcher who has just graduated) during the review process. The goal is to provide mentoring to new reviewers. The response was very positive. Over 280 ACs and 290 junior reviewers participated in the program. The results of this pilot will inform ACL on constructing more scalable mentoring efforts in the future.

After the review process, 779 papers were accepted which includes 571 long papers and 208 short papers. The acceptance rate is 22.7% based on 3,429 submissions.¹ As in previous years, the acceptance rate for long papers is higher than that for short papers (25.4% vs. 17.6%). Overall, ACL continues to be a highly competitive conference. From the accepted papers, and based on the nominations from Senior Area Chairs, five award-winning papers were selected by a best paper committee, including one best paper and one best theme paper.

Continuing the tradition, ACL 2020 will also feature 31 papers that were published at *Transactions of the*

¹Removing the 29 desk rejects and 312 withdrawals, the acceptance rate becomes 25.2%

Association for Computational Linguistics (TACL) and, for the first time in ACL history, 7 papers from the journal of *Computational Linguistics (CL)*. Another highlight of our program is the two exciting keynote talks: one by Professor Kathleen McKeown from Columbia University, and the other one by Professor Josh Tenenbaum from MIT.

Putting together a program for the virtual conference is a new challenge this year. We are fortunate that we were able to learn a lot from ICLR which had a virtual meeting ahead of us. One main issue was making the program accessible to attendees/authors from different time zones. Inspired by the ICLR model, we structured the program with pre-recorded video presentations and live Q&A sessions for individual papers. We thank the authors for providing us their time-slot preferences in a timely manner. Our plenary sessions include live-streamed keynote talks and Q&As, award ceremonies, and business meetings.

ACL 2020 would not be possible without the support from the community. There are many people we would like to thank for their significant contributions!

- Our awesome 40 Senior Area Chairs who were instrumental in every aspect of the review process. For many of them, the scope of their responsibilities was equivalent to chairing a mini-conference. We could always count on them for their input to final decisions, selection of best papers, and outstanding reviewers.
- The 299 Area Chairs who led paper review discussions, wrote meta-reviews, and mentored junior reviewers.
- Our 2,519 primary reviewers and 458 secondary reviewers who provided valuable feedback to the authors. Special thanks to those who stepped in at the last minute to serve as emergency reviewers.
- Our fantastic Best Paper Committee: Christy Doran (chair), Chris Callison-Burch, Yvette Graham, Julia Hirschberg, Rebecca Hwa, Min Yen Kan, Emily Pitler, Dragomir Radev, Philip Resnik, and Yulia Tsvetkov for selecting five award-winning papers under a tight schedule.
- ACL Executive Review Committee. In particular, Amanda Stent and Arya McCarthy for making the COI detection software available and Graham Neubig for the automatic reviewer-paper assignment software. These tools were instrumental in assigning papers to reviewers.
- Our student assistants Shane Storks, Sayan Gosh, Tianchun Huang, Sky Wang, and Tianrong Zhang who helped check the compliance of every single submission.
- Our 7,711 authors who submitted their work for review at ACL 2020. Although we were only able to accept a fraction of the submissions, their hard work makes this conference exciting and our community strong.
- TACL editors-in-chief Mark Johnson, Ani Nenkova, and Brian Roark, TACL Editorial Assistant Cindy Robinson, and CL Editor-in-Chief Hwee Tou Ng for coordinating TACL and CL presentations with us.
- The Program co-Chairs of ACL 2019, Anna Korhonen and David Traum; of NAACL 2019, Christy Doran and Tamar Solorio; of EMNLP 2019, Jing Jiang, Vincent Ng, and Xiaojun Wan for generously sharing their experience, documentation, and advice in organizing ACL conferences and for answering our questions, often on short notice.
- Our Publication Chairs, Steven Bethard, Ryan Cotterell, and Rui Yan, for a smooth transition to the production of the final proceedings.
- Matt Post, the ACL Anthology Director, for his always fast response to our questions.

- Our Publicity Chair, Emily Bender, and our Web Chairs, Sudha Rao and Yizhe Zhang, for effectively communicating conference updates and other useful information.
- Infrastructure Chairs, Hao Feng and Sudha Rao, for taking a heavy load of moving our program online; and Hamid Palangi and Lianhui Qin for coordinating presentations with SlideLive.
- Rich Gerber at SoftConf, who was always quick to respond to our emails and resolve any difficulties we encountered with the START system.
- Priscilla Rasmussen for helpful discussion and insight into organizing an ACL at this scale.
- ICLR chairs, especially Alexander Rush, Shakir Mohamed, and Kyunghyun Cho, for sharing with us many invaluable tips for running a virtual conference.
- ACL Executive Committee, especially Hinrich Schütze, the ACL president, and Barbara Di Eugenio, the liaison for conferences to help us sort through policy issues.
- Our students, interns, postdocs, colleagues, and families. Sorry for ignoring you the past year. We're back!
- And last but not least, our General Chair Dan Jurafsky. He has been open-minded and supportive, giving us the flexibility to innovate while providing an invaluable sounding board, and of course, successfully led the massive turn-around of ACL as a physical conference into a virtual one in just a few short months.

Our deepest gratitude to all of you. We hope you will enjoy this new conference experience.

Joyce Chai, University of Michigan

Natalie Schluter, Google Brain and IT University of Copenhagen

Joel Tetreault, Dataminr

ACL 2020 Program Committee Co-Chairs

Organizing Committee

General Chair:

Dan Jurafsky, Stanford University

Program Chairs:

Joyce Chai, University of Michigan
Natalie Schluter, Google Brain and IT University of Copenhagen
Joel Tetreault, Dataminr

Local Chairs:

Jianfeng Gao, Microsoft Research
Priscilla Rasmussen, ACL
Luke Zettlemoyer, University of Washington

Tutorial Chairs:

Agata Savary, University of Tours
Yue Zhang, Westlake University

Workshop Chairs:

Milica Gašić, Heinrich Heine University of Düsseldorf
Dilek Hakkani-Tur, Amazon Alexa AI
Saif M. Mohammad, National Research Council Canada
Ves Stoyanov, Facebook AI

Student Research Workshop Chairs:

Rotem Dror, Technion - Israel Institute of Technology
Jiangming Liu, The University of Edinburgh
Shruti Rijhwani, Carnegie Mellon University
Yizhong Wang, University of Washington

Faculty Advisors to the Student Research Workshop:

Omri Abend, Hebrew University of Jerusalem
Sujian Li, Peking University
Zhou Yu, University of California, Davis

Conference Handbook Chair:

Nanyun Peng, University of Southern California

Demonstration Chairs:

Asli Celikyilmaz, Microsoft Research, Redmond
Shawn Wen, PolyAI

Virtual Infrastructure Chairs:

Hao Fang, Microsoft Semantic Machines
Sudha Rao, Microsoft Research, Redmond

Virtual Infrastructure Committee:

Yi Luan, Google AI Language
Hamid Palangi, Microsoft Research, Redmond
Lianhui Qin, University of Washington
Yizhe Zhang, Microsoft Research, Redmond

Diversity & Inclusion (D&I) Chairs:

Cecilia Ovesdotter Alm, Rochester Institute of Technology
Vinodkumar Prabhakaran, Google

Local Sponsorship Chairs:

Hoifung Poon, Microsoft
Kristina Toutanova, Google

Publication Chairs:

Steven Bethard, University of Arizona
Ryan Cotterell, University of Cambridge
Rui Yan, Peking University

Publicity Chairs:

Emily M. Bender, University of Washington
Esther Seyffarth, University of Düsseldorf
Zhiyuan Liu, Tsinghua University

Sustainability Chair:

Ananya Ganesh, Educational Testing Service
Klaus Zechner, Educational Testing Service

Student Volunteer Coordinator:

Marjan Ghazvininejad, Facebook AI Lab

Website & Conference App Chairs:

Sudha Rao, Microsoft Research, Redmond
Yizhe Zhang, Microsoft Research, Redmond

Best Paper Committee:

Christy Doran (chair), Clockwork Language
Chris Callison-Burch, University of Pennsylvania
Yvette Graham, Dublin City University
Julia Hirschberg, Columbia University
Rebecca Hwa, University of Pittsburgh
Min Yen Kan, National University of Singapore
Emily Pitler, Google Research
Dragomir Radev, Yale University
Phil Resnik, University of Maryland
Yulia Tsvetkov, Carnegie Mellon University

Program Committee

Program Chairs:

Joyce Chai, University of Michigan
Natalie Schluter, Google Brain and IT University of Copenhagen
Joel Tetreault, Dataminr

Senior Area Chairs and Area Chairs:

Senior area chairs are in bold.

Cognitive Modeling and Psycholinguistics:

Emily Prud'hommeaux, Cassandra L. Jacobs, Cecilia Ovesdotter Alm, Christos Christodoulopoulos, Masoud Rouhizadeh, Serguei Pakhomov, Yevgeni Berzak

Computational Social Science and Social Media:

Tim Baldwin, **Nikolaos Aletras**, A. Seza Dögrüöz, Afshin Rahimi, Alice Oh, Brendan O'Connor, Daniel Preotiuc-Pietro, David Bamman, David Jurgens, David Mimno, Diana Inkpen, Diyi Yang, Eiji Aramaki, Jacob Eisenstein, Jonathan K. Kummerfeld, Kalina Bontcheva

Dialogue and Interactive Systems:

Jason Williams, **Mari Ostendorf**, Alborz Geramifard, Amanda Stent, Asli Celikyilmaz, Casey Kennington, David Traum, Dilek Hakkani-Tur, Gabriel Skantze, Helen Hastie, Heriberto Cuayahuitl, Kai Yu, Kallirroi Georgila, Luciana Benotti, Luis Fernando D'Haro, Nina Dethlefs, Ryuichiro Higashinaka, Stefan Ultes, Sungjin Lee, Tsung-Hsien Wen, Y-Lan Boureau, Yun-Nung Chen, Zhou Yu

Discourse and Pragmatics:

Annie Louis (taking over for **Diane Litman**), Chloé Braud, Junyi Jessy Li, Manfred Stede, Shafiq Joty, Sujian Li, Yangfeng Ji

Ethics and NLP:

Dirk Hovy, Alan W Black, Emily M. Bender, Vinodkumar Prabhakaran, Yulia Tsvetkov

Generation:

Wei Xu, **Alexander Rush**, John Wieting, Laura Perez-Beltrachini, Lu Wang, Miltiadis Allamanis, Mohit Iyyer, Nanyun Peng, Sam Wiseman, Shashi Narayan, Sudha Rao, Tatsunori Hashimoto, Xiaojun Wan, Xipeng Qiu

Information Extraction:

Doug Downey, **Hoifun Poon**, Alan Ritter, Chandra Bhagavatula, Gerard de Melo, Kai-Wei Chang, Marius Pasca, Mo Yu, Radu Florian, Ruihong Huang, Sameer Singh, Satoshi Sekine, Snigdha Chaturvedi, Sumithra Velupillai, Timothy Miller, Vivek Srikumar, William Yang Wang, Yunyao Li

Information Retrieval and Text Mining:

Chin-Yew Lin, **Nazli Goharian**, Andrew Yates, Arman Cohan, Bing Qin, Craig Macdonald, Danai Koutra, Elad Yom-Tov, Franco Maria Nardini, Kalliopi Zervanou, Luca Soldaini, Nicola Tonello, Pu-Jen Cheng, Seung-won Hwang, Yangqiu Song, Yansong Feng

Interpretability and Analysis of Models for NLP:

Yoav Goldberg, Adina Williams, Afra Alishahi, Douwe Kiela, Grzegorz Chrupała, Marco Baroni, Yonatan Belinkov, Zachary C. Lipton

Language Grounding to Vision, Robotics and Beyond:

Yoav Artzi, Angeliki Lazaridou, Dan Goldwasser, Jason Baldridge, Jesse Thomason, Lisa Anne Hendricks, Parisa Kordjamshidi, Raffaella Bernardi, Vicente Ordonez, Yonatan Bisk

Machine Learning for NLP:

André Martins, **Isabelle Augenstein**, Ankur Parikh, Anna Rumshisky, Bruno Martins, Caio Corro, Dani Yogatama, Daniel Beck, Dipanjan Das, Edouard Grave, Emma Strubell, Gholamreza Haffari, Ivan Titov, Joseph Le Roux, Jun Suzuki, Kevin Gimpel, Michael Auli, Ming-Wei Chang, Shay B. Cohen, Vlad Niculae, Waleed Ammar, Wilker Aziz, Yejin Choi, Zita Marinho, Zornitsa Kozareva

Machine Translation:

Marine Carpuat, **Alexandra Birch**, Ann Clifton, Antonio Toral, Atsushi Fujita, Boxing Chen, Carolina Scarton, Chi-kiu Lo, Christian Hardmeier, Deyi Xiong, Francois Yvon, George Foster, Jiajun Zhang, Jrg Tiedemann, Maja Popovič, Marcello Federico, Marcin Junczys-Dowmunt, Marco Turchi, Marta R. Costa-jussà, Matt Post, Nadir Durrani, Qun Liu, Rico Sennrich, Taro Watanabe, Yuki Arase, Yvette Graham

Multidisciplinary and Area Chair COI:

Michael Strube, Anders Søgaard, David Schlangen, Katrin Erk, Kentaro Inui, Kevin Duh, Massimo Poesio, Mausam, Pascal Denis

NLP Applications:

Preslav Nakov, **Karin Verspoor**, Alexander Fraser, Antonio Jimeno Yepes, Aoife Cahill, Daniel Cer, Diarmuid Ó Séaghdha, Giovanni Da San Martino, Hassan Sajjad, Kevin Cohen, Marcos Zampieri, Michel Galley, Min Zhang, Pierre Zweigenbaum, Razvan Bunescu, Sara Rosenthal, Tristan Naumann, Vincent Ng, Wei Gao, Wei Lu

Phonology, Morphology and Word Segmentation:

Kemal Oflazer, Christo Kirov, David R. Mortensen, Kareem Darwish, Reut Tsarfaty, Yue Zhang, Özlem Çetinoğlu

Question Answering:

Eugene Agichtein, **Alessandro Moschitti**, Avi Sil, Dina Demner-Fushman, Evangelos Kanoulas, Gerhard Weikum, Idan Szpektor, Jimmy Lin, Oleg Rokhlenko, Sanda Harabagiu, Wen-tau Yih, William Cohen

Resources and Evaluation:

Nathan Schneider, **Barbara Plank**, Allyson Ettinger, Annemarie Friedrich, Antonios Anastasopoulos, Arianna Bisazza, Claire Bonial, Daniel Zeman, Emmanuele Chersoni, Ines Rehbein, Lonneke van der Plas, Maria Liakata, Sara Tonelli, Sarvnaz Karimi, Tim Van de Cruys, Vered Shwartz, Walid Magdy, Çağrı Çöltekin

Semantics: Lexical:

Ekaterina Shutova, Aline Villavicencio, Alessandro Lenci, Anna Feldman, Aurélie Herbelot, Beata Beigman Klebanov, Carlos Ramisch, Chris Biemann, Enrico Santus, Fabio Massimo Zanzotto, Helen Yannakoudakis, Ivan Vulič, Jose Camacho-Collados, Marianna Apidianaki, Paul Cook, Saif Mohammad

Semantics: Sentence Level:

Mohit Bansal, Andreas Vlachos, Christopher Potts, Danqi Chen, Eunsol Choi, He He, Jonathan Berant, Kevin Small, Marek Rei, Sebastian Ruder, Siva Reddy, Swabha Swayamdipta, Thomas Wolf, Veselin Stoyanov

Semantics: Textual Inference and Other Areas of Semantics:

Sam Bowman, Anette Frank, Eduardo Blanco, Edward Grefenstette, Jacob Andreas, Jonathan May, Kenton Lee, Lasha Abzianidze, Luheng He, Mehrnoosh Sadrzadeh, Rachel Rudinger, Roy Schwartz, Valeria de Paiva

Sentiment Analysis, Stylistic Analysis, and Argument Mining:

Smaranda Muresan, Swapna Somasundaran, Bing Liu, Claire Cardie, Elena Musi, Iryna Gurevych, Julian Brooke, Lun-Wei Ku, Marie-Francine Moens, Minlie Huang, Paolo Rosso, Roman Klinger, Serena Villata, Soujanya Poria, Tamar Solorio, Yulan He

Speech and Multimodality:

Eric Fosler-Lussier, Bhuvana Ramabhadran, Florian Metze, Gerasimos Potamianos, Hamid Palangi, Martha Larson

Summarization:

Fei Liu, Caiming Xiong, Giuseppe Carenini, Katja Markert, Manabu Okumura, Michael Elhadad, Ramesh Nallapati, Sebastian Gehrmann, Wenjie Li, Xiaodan Zhu, Yang Gao

Syntax: Tagging, Chunking and Parsing:

David Chiang, Carlos Gómez-Rodríguez, Emily Pitler, Liang Huang, Miguel Ballesteros, Miryam de Lhoneux, Slav Petrov, Stephan Oepen, Weiwei Sun

Theme:

Marilyn Walker (taking over for **Ellen Riloff**), Donia Scott, Johan Bos, Luke Zettlemoyer, Philipp Koehn, Raymond Mooney

Theory and Formalism in NLP (Linguistic and Mathematical):

Daniel Gildea, Alexander Koller, Laura Kallmeyer, Marco Kuhlmann

Primary Reviewers:

Ahmed Abdelali, Mostafa Abdou, Muhammad Abdul-Mageed, Omri Abend, Amjad Abu-Jbara, Oliver Adams, Heike Adel, Somak Aditya, Oshin Agarwal, Sachin Agarwal, Rodrigo Agerri, Pooja Aggarwal, Manex Agirrezabal, Aishwarya Agrawal, Ameeta Agrawal, Roei Aharoni, Laura Aina, Salah Ait-Mokhtar, Akiko Aizawa, Yamen Ajjour, Mohammad Akbari, Md. Shad Akhtar, Syed Sarfaraz Akhtar, Arjun Akula, Khalid Al Khatib, Yaser Al-Onaizan, Jan Alexandersson, Tariq Alhindi, Ahmed Ali, Hazrat Ali, Malihe Alikhani, Tamer Alkhouli, Alexandre Allauzen, Miguel A. Alonso, Laura Alonso Alemany, Sawsan Alqahtani, Emily Alsentzer, Kristen M. Altenburger, Fernando Alva-Manchego, Bharat Ram Ambati, Aida Amini, Reinald Kim Amplayo,

Aijun An, Sophia Ananiadou, Peter Anderson, Nicholas Andrews, Ion Androutsopoulos, Anietie Andy, Stefanos Angelidis, Erion ano, Joo Antnio Rodrigues, Jean-Yves Antoine, Vijjini Anvesh Rao, Emilia Apostolova, Jun Araki, Mihael Arcan, Nikolay Arefyev, Andrew O. Arnold, Kushal Arora, Mikel Artetxe, Kristijan Arumae, Masayuki Asahara, Elliott Ash, Duygu Ataman, Pepa Atanasova, Awais Athar, Hadar Averbuch-Elor, Eleftherios Avramidis, AiTi Aw, amittai axelrod, Cem Rfk Aydn

Bogdan Babych, Nguyen Bach, Geoff Bacon, Alexei Baeovski, Dara Bahri, Bing Bai, Fan Bai, He Bai, Hongxiao Bai, Kun Bai, Raphal Bailly, JinYeong Bak, Collin Baker, Vidhisha Balachandran, Anusha Balakrishnan, Niranjana Balasubramanian, Kalika Bali, Ramy Baly, Rafael E. Banchs, Ritwik Banerjee, Siddhartha Banerjee, Colin Bannard, Sameer Bansal, Trapit Bansal, Forrest Sheng Bao, Junwei Bao, Siqi Bao, Yujia Bao, Ankur Bapna, Roy Bar-Haim, Chitta Baral, Mohamad Hardyman Barawi, Francesco Barbieri, Denilson Barbosa, Oren Barkan, Ken Barker, Gianni Barlacchi, Jeremy Barnes, Loc Barrault, Maria Barrett, Valentin Barriere, Alberto Barrn-Cedeo, Max Bartolo, Regina Barzilay, Pierpaolo Basile, Valerio Basile, Roberto Basili, Emanuele Bastianelli, Joost Bastings, Lisa Bauer, Timo Baumann, Rachel Bawden, Lee Becker, Steven Bedrick, Barend Beekhuizen, Lisa Beinborn, Giannis Bekoulis, Nria Bel, Mohamed Amine Belabbes, Eric Bell, Meriem Beloucif, Iz Beltagy, Farah Benamara, Ryan Benmalek, Adrian Benton, Gbor Berend, Taylor Berg-Kirkpatrick, Leon Bergen, Sabine Bergler, Delphine Bernhard, Laurent Besacier, Rahul Bhagat, Rasika Bhalerao, Avanti Bhandarkar, Akash Bharadwaj, Rishabh Bhardwaj, Gayatri Bhat, Suma Bhat, Archana Bhatia, Parminder Bhatia, Sumit Bhatia, Indrajit Bhattacharya, Pushpak Bhattacharyya, Shohini Bhattasali, Sudha Bhingardive, Wei Bi, Federico Bianchi, Klinton Bicknell, Przemyslaw Biecek, Ann Bies, Dan Bikel, Yonatan Bilu, Yi Bin, Lidong Bing, Joachim Bingel, Or Biran, Steven Bird, Johannes Bjerva, Henrik Bjrkklund, Johanna Bjrkklund, Frdric Blain, Nate Blaylock, Terra Blevins, Su Lin Blodgett, Jelke Bloem, Michael Bloodgood, Valts Blukis, Phil Blunsom, William Boag, Victoria Bobicev, Ben Bogin, Nikolay Bogoychev, Bernd Bohnet, Danushka Bollegala, Marcel Bollmann, Hamed Bonab, Daniele Bonadiman, Antonio Bonafonte, Francis Bond, Francesca Bonin, Ludovico Boratto, Georgeta Bordea, Antoine Bordes, Mary Borgo Ton, Mihaela Bornea, Cristina Bosco, Laura Ana Maria Bostan, Jan A. Botha, Nadjet Bouayad-Agha, Florian Boudin, Fethi Bougares, Gerlof Bouma, Zied Bouraoui, Andrey Bout, Ryan Boyd, Jordan Boyd-Graber, Johan Boye, Leonid Boytsov, Arthur Brainskas, Antnio Branco, Kiant Brantley, Norbert Braunschweiler, Felipe Bravo-Marquez, Chris Brew, Chris Brockett, Elinor Bronwine, Samuel Broscheit, Benjamin Brschinger, Caroline Brun, Amar Budhiraja, Katarzyna Budzynska, Sven Buechel, Trung Bui, Paul Buitelaar, Laura Burdick, Jill Burstein, Hendrik Buschmeier, Jan Buys, Bill Byrne, Donna Byron

Elena Cabrio, Deng Cai, Hengyi Cai, Yi Cai, Andrew Caines, Iacer Calixto, Chris Callison-Burch, Hiram Calvo, John Calvo Martinez, Erik Cambria, Leonardo Campillos-Llanos, Burcu Can, Guihong Cao, Jie Cao, Kris Cao, Yixin Cao, Yuan Cao, Yunbo Cao, Ziqiang Cao, Ziqiang Cao, Spencer Caplan, Cornelia Caragea, Doina Caragea, Dallas Card, Julie Carson-Berndsen, Samuel Carton, Francisco Casacuberta, Noe Casas, Helena Caseli, Tommaso Caselli, Giovanni Cassani, Vittorio Castelli, Giuseppe Castellucci, Sheila Castilho, Thiago Castro Ferreira, Christophe Cerisara, Mauro Cettolo, Soumen Chakrabarti, Tuhin Chakrabarty, Tanmoy Chakraborty, Yllias Chali, Jon Chamberlain, Nathanael Chambers, Alvin Chan, Hou Pong Chan, Ashis Chanda, Sarath Chandar, Muthu Kumar Chandrasekaran, Khyathi Raghavi Chandu, Angel Chang, Baobao Chang, Ernie Chang, Shiyu Chang, Yi Chang, Yin-Wen Chang, Yung-Chun Chang, Guan-Lin Chao, Paidamoyo Chapfuwa, Rajen Chatterjee, Akshay Chaturvedi, Iti Chaturvedi, Stergios Chatzikyriakidis, Chao Che, Wanxiang Che, Bin Chen, Cen Chen, Chung-Chi Chen, Danlu Chen, Feiyang Chen, Guanyi Chen, Hanjie Chen, Hongshen Chen, Hsin-Hsi Chen, John Chen, Kehai Chen, Kuan-Yu Chen, Lei Chen, Lin Chen, Liqun Chen, Liyu Chen, Lu Chen, Mingda Chen, Nancy Chen, Qian Chen, Qianglong Chen, Qingcai Chen, Stephen Chen, Tao Chen, Tongfei Chen, Wang Chen, Weizhu Chen, Wenhui Chen, Wenliang Chen, Xilun Chen, Xinchi Chen, Xingyuan Chen, Xinyun Chen,

Xiuying Chen, Yen-Chun Chen, Yu Chen, Yubo Chen, Yue Chen, Yufei Chen, Yufeng Chen, Zhi Chen, Zhiyu Chen, Fei Cheng, Hao Cheng, Jianpeng Cheng, Minhao Cheng, Pengxiang Cheng, Shanbo Cheng, Weiwei Cheng, Xueqi Cheng, Yong Cheng, Yu Cheng, Vijil Chenthamarakshan, Colin Cherry, Jackie Chi Kit Cheung, Christian Chiarcos, Jen-Tzung Chien, Laura Chiticariu, Billy Chiu, Francisco Javier Chiyah Garcia, Eunah Cho, Jaemin Cho, Martin Chodorow, Jaesik Choi, Jinho D. Choi, Kostadin Cholakov, Shamil Chollampatt, Leshem Choshen, Prafulla Kumar Choubey, Nurendra Choudhary, Md. Faisal Mahbub Chowdhury, Alexandra Chronopoulou, Chenhui Chu, Xiaomin Chu, Zewei Chu, Jennifer Chu-Carroll, Jin-Woo Chung, Tagyoung Chung, Mark Cieliebak, Philipp Cimiano, Alina Maria Ciobanu, Volkan Cirik, Christopher Clark, Elizabeth Clark, Jonathan Clark, Kevin Clark, Peter Clark, Stephen Clark, Simon Clematide, Maximin Coavoux, Oana Cocarascu, Anne Cocos, Kevin Cohen, Philip Cohen, Trevor Cohen, Guillem Collell, Michael Collins, Costanza Conforti, Alexis Conneau, John Conroy, Danish Contractor, Bonaventura Coppola, Francesco Corcoglioniti, Gonalo M. Correia, Josep Crego, Danilo Croce, Fabien Cromieres, Paul Crook, Richard Crouch, Judit cs, Montse Cuadros, Amaru Cuba Gyllensten, Baiyun Cui, Lei Cui, Shaobo Cui, Xia Cui, Yiming Cui, Aron Culotta, Anna Currey

Raj Dabre, Ido Dagan, Daniel Dahlmeier, Falcon Dai, Hongliang Dai, Xiang Dai, Xinyu Dai, Zeyu Dai, Zhuyun Dai, Fahim Dalvi, Marco Damonte, Ankit Dangi, Rumen Dangovski, Marina Danilevsky, Lena Dankin, Abhishek Das, Dipankar Das, Rajarshi Das, Pradeep Dasigi, Vidas Daudaravicius, Sam Davidson, Brian Davis, Johannes Daxenberger, Gal de Chalendar, Adri de Gispert, Marie-Catherine de Marneffe, Maarten de Rijke, Eliezer de Souza da Silva, Adrian de Wynter, Francien Dechesne, Thierry Declerck, Luciano Del Corro, Iria del Ro Gayo, Marco Del Tredici, Sebastien Delecraz, Louise Delger, Claudio Delli Bovi, Seniz Demir, Steve DeNeefe, John DeNero, Lingjia Deng, Yang Deng, Yuntian Deng, Zhi-Hong Deng, Alexandre Denis, Michael Denkowski, Steven Derby, Daniel Deutsch, Barry Devereux, Kuntal Dey, Bhuwan Dhingra, Barbara Di Eugenio, Giorgio Maria Di Nunzio, Gal Dias, Dennis Diefenbach, Jana Diesner, Chenchen Ding, Haibo Ding, Shuoyang Ding, Xiao Ding, Georgiana Dinu, Liviu P. Dinu, Dmitriy Dligach, Simon Dobnik, Jesse Dodge, Charles Dognin, Bill Dolan, Elham Dolatabadi, Tobias Domhan, David Donahue, Lucia Donatelli, Li Dong, Yue Dong, Dejing Dou, Zhicheng Dou, Zi-Yi Dou, Eduard Dragut, Mark Dredze, Frank Drewes, Markus Dreyer, Rotem Dror, Aleksandr Drozd, Jinhua Du, Lan Du, Mengnan Du, Xinya Du, Junwen Duan, Nan Duan, Xiangyu Duan, Kumar Dubey, Haim Dubossarsky, Pablo Duboue, Daniel Duckworth, Shiran Dudy, Ondrej Duek, Ambedkar Dukkipati, Jesse Dunietz, Jonathan Dunn, Emmanuel Dupoux, Esin Durmus, Greg Durrett, Rory Duthie, Chris Dyer, Marc Dymetman

Dylan Ebert, Sebastian Ebert, Javid Ebrahimi, Richard Eckart de Castilho, Steffen Eger, Yo Ehara, Maud Ehrmann, Vladimir Eidelman, Jason Eisner, Asif Ekbal, Layla El Asri, Roxanne El Baff, Ismail El Maarouf, Mahmoud El-Haj, Ahmed El-Kishky, Yanai Elazar, Henry Elder, Heba Elfardy, Ahmed Elgohary, Desmond Elliott, Micha Elsner, Guy Emerson, Aykut Erdem, Erkut Erdem, Alexander Erdmann, Mihail Eric, Akiko Eriguchi, Patrick Ernst, Ramy Eskander, Maxine Eskenazi, Cristina Espaa-Bonet, Luis Espinosa Anke, Diego Esteves, Andrea Esuli, Kilian Evang, Keelan Evanini

Alexander Fabbri, Martin Fajcik, Ingrid Falk, Tobias Falke, Chuang Fan, Feifan Fan, James Fan, Federico Fancellu, Meng Fang, Yimai Fang, Hossein Fani, Stefano Faralli, Noura Farra, Oladimeji Farri, Adam Faulkner, Maryam Fazel-Zarandi, Geli Fei, Naomi Feldman, Sergey Feldman, Shaoxiong Feng, Shi Feng, Shi Feng, Song Feng, Xiaocheng Feng, Yang Feng, Yang Feng, Eraldo Fernandes, Ramn Fernandez Astudillo, Daniel Fernndez-Gonzlez, Elisa Ferracane, Francis Ferraro, Elisabetta Fersini, Simone Filice, Denis Filimonov, Orhan Firat, Mark Fishel, Nicholas FitzGerald, Lucie Flek, Michael Flor, Antske Fokkens, Marina Fomicheva, Jos A. R. Fonollosa, Erick Fonseca, Tommaso Fornaciari, Dean Foster, Jennifer Foster, Stella Frank, Thomas Franois,

Diego Frassinelli, Michael Frber, Dayne Freitag, Markus Freitag, Andr Freitas, Lea Frermann, Daniel Fried, Guohong Fu, Jie Fu, Lisheng Fu, Tsu-Jui Fu, Zhenxin Fu, Zuohui Fu, Akinori Fujino, Fumiyo Fukumoto, Kotaro Funakoshi, Yoko Futagi, Richard Futrell, Alona Fyshe

Saadia Gabriel, Aleksandra Gabryszak, David Gaddy, Artyom Gadetsky, Amit Gajbhiye, Byron Galbraith, Matthias Gall, Bjrjn Gambck, Michael Gamon, Tian Gan, Zhe Gan, Kuzman Ganchev, Sudeep Gandhe, Rashmi Gangadharaiah, Varun Gangal, Debasis Ganguly, Cuiyun Gao, Fei Gao, Shen Gao, Sheng GAO, Xiang Gao, Yifan Gao, Utpal Garain, Marcos Garcia, Matt Gardner, Saurabh Garg, Siddhant Garg, Andrew Gargett, Dan Garrette, Guillermo Garrido, Albert Gatt, Jon Gauthier, Kata Gbor, Niyu Ge, Tao Ge, Lieke Gelderloos, Spandana Gella, Ariel Gera, Kim Gerdes, Daniela Gerz, Mor Geva, Reza Ghaeini, Marjan Ghazvininejad, Tirthankar Ghosal, Debanjan Ghosh, Samujjwal Ghosh, Sayan Ghosh, Sucheta Ghosh, George Giannakopoulos, Daniel Gildea, Dimitra Gkatzia, Goran Glava, Martin Gleize, Kristina Gligoric, Amir Globerson, Randy Goebel, Rahul Goel, Lorraine Goeuriot, Koldo Gojenola, Jacob Goldberger, Hugo Gonalo Oliveira, Hila Gonen, Chen Gong, Hongyu Gong, Jingjing Gong, Yeyun Gong, Jess Gonzlez-Rubio, Sian Gooding, Michael Wayne Goodman, Karthik Gopalakrishnan, Jonathan Gordon, Kyle Gorman, Matthew R. Gormley, Stephen Gould, Cyril Goutte, Kartik Goyal, Navin Goyal, Pawan Goyal, Natalia Grabar, Jorge Gracia, Thomas Graf, Mario Graff, Filip Graliski, Mark Granroth-Wilding, Erin Grant, Christophe Gravier, Claudio Greco, Jack Grieve, Yulia Grishina, Ralph Grishman, Alvin Grissom II, Loc Grobol, Markus Grtner, Roman Grundkiewicz, Jiatao Gu, Yue Gu, Marco Guerini, Lin Gui, Tao Gui, Bruno Guillaume, Liane Guillou, Camille Guinaudeau, Jon Atle Gulla, Kristina Gulordava, Chulaka Gunasekara, Daya Guo, Jiafeng Guo, Jiang Guo, Jiaqi Guo, Xiaoxiao Guo, Yufan Guo, Yuhang Guo, Abhirut Gupta, Amulya Gupta, Arpit Gupta, Deepak Gupta, Nitish Gupta, Pankaj Gupta, Raghav Gupta, Rohit Gupta, Vivek Gupta, Izzeddin Gur, joakim gustafson, Kelvin Guu, Francisco Guzm, Jeremy Gwinnup, Binod Gyawali

Jung-Woo Ha, Le An Ha, Nizar Habash, Ivan Habernal, Ben Hachey, Barry Haddow, Asmelash Teka Hadgu, Matthias Hagen, Masato Hagiwara, Udo Hahn, Zhen Hai, Jan Hajic, Hannaneh Hajjishirzi, Sherzod Hakimov, Aparajita Haldar, Kishaloy Halder, John Hale, David Hall, Keith Hall, Oren Halvani, William L. Hamilton, Thierry Hamon, Bo Han, Kyu Han, Oul Han, Ting Han, Xianpei Han, Xu Han, Jirka Hana, Abram Handler, Viktor Hangya, Greg Hanneman, Iryna Haponchyk, Momchil Hardalov, Daniel Hardt, Hardy Hardy, Naomi Harte, Mareike Hartmann, Kazi Saidul Hasan, Sadid A. Hasan, Mohammed Hasanuzzaman, Chikara Hashimoto, Kazuma Hashimoto, Eva Hasler, Hany Hassan, Ahmed Hassan Awadallah, Annette Hautli-Janisz, Hiroaki Hayashi, Yoshihiko Hayashi, Devamanyu Hazarika, T. J. Hazen, Ben He, Daqing He, Hangfeng He, Ji He, Junxian He, Ruifang He, Shexia He, Shizhu He, Xiaodong He, Xiaoting He, Xuanli He, Yifan He, Zhongjun He, Kenneth Heafield, Michael Heck, Benjamin Heinzerling, Jindich Helcl, Ricardo Henao, James Henderson, John Henderson, Matthew Henderson, Iris Hendrickx, Ulf Hermjakob, Daniel Hershcovich, Jonathan Herzig, Jack Hessel, John Hewitt, Gerhard Heyer, Christopher Hidey, Felix Hieber, Derrick Higgins, Bertrand Higy, Gerold Hintz, Tsutomu Hirao, Julia Hirschberg, Graeme Hirst, Mika Hmlinen, Cong Duy Vu Hoang, Hieu Hoang, Julia Hockenmaier, Johannes Hoffart, Sebastian Hofsttter, Patrick Hohenecker, Chris Hokamp, Nora Hollenstein, Ari Holtzman, Kai Hong, Yu Hong, Mark Hopkins, Andrea Horbach, Chiori Hori, Takaaki Hori, Nabil Hossain, Lei Hou, Yufang Hou, Julian Hough, David M. Howcroft, Christine Howes, Anna Htty, Phu Mon Htut, Baotian Hu, Guangneng Hu, Houdong Hu, Junjie Hu, Linmei Hu, Mengting Hu, Po Hu, Renfen Hu, Sen Hu, Wenpeng Hu, Yue Hu, Zhe Hu, Wenyue Hua, Xinyu Hua, Chenyang Huang, Fei Huang, Haoran Huang, Haoyang Huang, Hen-Hsen Huang, Heyan Huang, Hongzhao Huang, Jiaji Huang, Jimmy Xiangji Huang, Lifu Huang, Po-Sen Huang, Shaohan Huang, Shujian Huang, Songfang Huang, Ting-Hao Huang, Xiaolei Huang, Xuanjing Huang, Yi-Ting Huang, Yongfeng Huang, Zhongqiang Huang, Aliaksandr Hubin, Matthias Huck, Kai Hui, Muhammad Humayoun, Samar Husain, Ben Hutchinson, Jena D. Hwang, Sung Ju Hwang

Ignacio Jacobacci, Nancy Ide, Eugene Ie, Adrian Iftene, Timour Igamberdiev, Ryu Iida, Gabriel ILLOUZ, Kenji Imamura, Oana Inel, Naoya Inoue, Daphne Ippolito, Mikel Iruskietia, Aminul Islam, Alexei V. Ivanov, Lubomir Ivanov, Julia Ive, Srinivasan Iyer

Cassandra L. Jacobs, Alon Jacovi, Guillaume Jacquet, Evan Jaffe, Kokil Jaidka, Rajiv Jain, Sarthak Jain, Vihan Jain, Masoud Jalili Sabet, Shoaib Jameel, Hyeju Jang, David Janiszek, Slava Jankin, Adam Jatowt, Sujay Kumar Jauhar, Pratik Jawanpuria, Sbastien Jean, Laura Jehl, Yacine Jernite, Kevin Jesse, Rahul Jha, Harsh Jhamtani, Feng Ji, Heng Ji, Robin Jia, Sittichai Jiampojarn, Chao Jiang, Daxin Jiang, Jing Jiang, Meng Jiang, Ridong Jiang, Shaojie Jiang, Wenbin Jiang, Xin Jiang, Zhuolin Jiang, Zhuoren Jiang, Zhuoxuan Jiang, Wenxiang Jiao, Zhanming Jie, Di Jin, Hailong Jin, Hongxia Jin, Peng Jin, Qin Jin, Xiaolong Jin, Yohan Jo, Charles Jochim, Anders Johannsen, alexander johansen, Richard Johansson, Kristen Johnson, Kyle Johnson, Mark Johnson, Melvin Johnson, Arne Jonsson, Pamela Jordan, Aditya Joshi, Sachindra Joshi, Da-Cheng Juan, Heewoo Jun, Kerstin Jung, Kyomin Jung, Prathyusha Jwalapuram, Preethi Jyothi

Jad Kabbara, Kushal Kafle, Kyo Kageura, Emmanuel Kahembwe, Andrea Kahn, Nobuhiro Kaji, Tomoyuki Kajiwara, Surya Kallumadi, Aditya Kalyanpur, Ehsan Kamaloo, Nishant Kambhatla, Hidetaka Kamigaito, Herman Kamper, Jaap Kamps, Min-Yen Kan, Christopher Kanan, Hiroshi Kanayama, Masahiro Kaneko, Dongyeop Kang, Katharina Kann, Yoshinobu Kano, Diptesh Kanojia, Pavan Kapanipathi, Dain Kaplan, Sudipta Kar, Georgi Karadzhov, Mladen Karan, Sanjeev Kumar Karn, Lauri Karttunen, Arzoo Katiyar, David Kauchak, Manohar Kaul, Divyansh Kaushik, Daisuke Kawahara, Kazuya Kawakami, Hideto Kazawa, Pei Ke, Chris Kedzie, Katherine Keith, Simon Keizer, John Kelleher, Frank Keller, Yova Kementchedjhieva, Santosh Kesiraju, Shahram Khadivi, Salam Khalifa, Urvashi Khandelwal, Mitesh M. Khapra, Aparna Khare, Daniel Khashabi, Huda Khayrallah, Justin Khim, Arne Khn, Tushar Khot, Halil Kilicoglu, Doo Soon Kim, Gene Kim, Gunhee Kim, Gyuwan Kim, Jonggu Kim, Joo-Kyung Kim, Najoung Kim, Seokhwan Kim, Sun Kim, Sunghwan Mac Kim, Yoon Kim, Yunsu Kim, Gregory Kimmel, Daniel King, Irwin King, Tracy Holloway King, Katrin Kirchhoff, Svetlana Kiritchenko, Nikita Kitaev, Ayal Klein, Jan-Christoph Klie, Julien Kloetzer, Rebecca Knowles, Hayato Kobayashi, Sosuke Kobayashi, Thomas Kober, Elena Kochkina, Vid Kocijan, Jan Koco, Rob Koeling, Noriyuki Kojima, Thomas Kollar, Mamoru Komachi, Rik Koncel-Kedziorski, Grzegorz Kondrak, Lingkai Kong, Lingpeng Kong, Ioannis Konstas, Selcuk Kopru, Valia Kordoni, Lili Kotlerman, Venelin Kovatchev, Emiel Kraemer, Pavel Kral, Sebastian Krause, Elisa Kreiss, Julia Kreutzer, Kalpesh Krishna, Jayant Krishnamurthy, Nikhil Krishnaswamy, Kriste Krstovski, Canasai Kruengkrai, Udo Kruschwitz, Wojciech Kryscinski, Sicong Kuang, Jonas Kuhn, Sayali Kulkarni, Vivek Kulkarni, Artur Kulmizev, Ashutosh Kumar, Harshit Kumar, Sachin Kumar, Shankar Kumar, Varun Kumar, vishwajeet kumar, Anoop Kunchukuttan, Adhiguna Kuncoro, Gourab Kundu, Tsung-Ting Kuo, Mikko Kurimo, Sadao Kurohashi, Andrey Kutuzov, Ilia Kuznetsov, Rita Kuznetsova

Majid Laali, Gorka Labaka, Matthieu Labeau, Ophlie Lacroix, Faisal Ladhak, Mathieu Lafourcade, Anirban Laha, Dan Lahav, Guokun Lai, Yuxuan Lai, Yair Lakretz, Chiraag Lala, John P. Lalor, Wai Lam, Patrik Lambert, Vasileios Lampos, Gerasimos Lampouras, Andrew Lan, Man Lan, Wuwei Lan, Yanyan Lan, Claire Lancaster, Lukas Lange, Ni Lao, Mirella Lapata, Gabriella Lapesa, Ekaterina Lapshinova-Koltunski, Brian Larson, Stefan Larson, Staffan Larsson, Jey Han Lau, Stanislas Lauly, Anne Lauscher, Alberto Lavelli, Alexandra Lavrentovich, Carolin Lawrence, John Lawrence, Phong Le, Robert Leaman, Logan Lebanoff, Chong Min Lee, Fei-Tzin Lee, Hung-yi Lee, I-Ta Lee, Ji-Ung Lee, Jinhyuk Lee, John Lee, Jongwuk Lee, Kathy Lee, Kyungjae Lee, Lung-Hao Lee, Minwoo Lee, Stefan Lee, Young-Suk Lee, Els Lefever, Jens Lehmann, Tao Lei, Wenqiang Lei, Zeyang Lei, Jochen L. Leidner, Gal Lejeune, Oliver Lemon, Yves Lepage, Piyawat Lertvittayakumjorn, Gregor Leusch, Lori Levin, Rivka Levitan, Sarah Ita Levitan, Gina-Anne Levow, Ran Levy, Mike Lewis,

Patrick Lewis, Bohan Li, Chang Li, Chen Li, Cheng-Te Li, Chenliang Li, Chunyuan Li, Dianqi Li, Diya Li, Fangtao Li, Haibo Li, Hang Li, Hao Li, Haoran Li, Jiangtong Li, Jianqiao Li, Jinchao Li, Jing Li, Jingjing Li, Jiyi Li, Juanzi Li, Junhui Li, Juntao Li, Lei Li, Liangyou Li, LIN LI, Maolin Li, Mu Li, Peifeng Li, Piji Li, Qing Li, Qing Li, Qing Li, Quanzhi Li, Shang-Wen Li, Shaohua Li, Si Li, Tao Li, Wei Li, Wei Li, Xian Li, Xiang Li, Xiang Li, Xiaoli Li, Xiaolin Li, Xin Li, Xin Li, Xinhang Li, Xintong Li, Xiujun Li, Yaliang Li, Yang Li, Yanran Li, Yichuan Li, Yitong Li, Yitong Li, Yuan Li, Yuan-Fang Li, Zheng Li, Zhixing Li, Zhongyang Li, Zichao Li, Zuchao Li, Chen Liang, Davis Liang, Paul Pu Liang, Yingyu Liang, Zhicheng Liang, Lizi Liao, Xinting Liao, Yi Liao, Jindich Libovick, Kwan Hui Lim, Nut Limsopatham, Bill Yuchen Lin, Chenghua Lin, Chu-Cheng Lin, Chuan-Jie Lin, Dekang Lin, Hongyu Lin, Lucy H. Lin, Shou-de Lin, Xi Victoria Lin, Yankai Lin, Ying Lin, Zhouhan Lin, Wang Ling, Aldo Lipani, Nedim Lipka, Marco Lippi, Thomas Lippincott, Pierre Lison, Patrick Littell, Marina Litvak, Bing Liu, Cao Liu, Chen Liu, Dayiheng Liu, Fei Liu, Feifan Liu, Gongshen Liu, Hairong Liu, Hao Liu, Jiahua Liu, Jiangming Liu, Jing Liu, Jingjing Liu, Kai Liu, Kai Liu, Kang Liu, Lemao Liu, Liyuan Liu, Ming Liu, Mingtong Liu, Nelson F. Liu, Peng Liu, Pengfei Liu, Qian Liu, Shujie Liu, Song Liu, Tianyi Liu, Tianyu Liu, Tie-Yan Liu, Tong Liu, Weijie Liu, Xiao Liu, Xiaodong Liu, Xiaozhong Liu, Xin Liu, Yang Liu, Yang Liu, Yang Liu, Yijia Liu, Yong Liu, Yuanchao Liu, Zequn Liu, Zhengzhong Liu, Zhiyuan Liu, Zhuang Liu, Zihan Liu, Karen Livescu, Farhana Ferdousi Liza, Nikola Ljubei, Elena Lloret, Kyle Lo, Sharid Loiciga, Guodong Long, Jos Lopes, Marcos Lopes, Jaime Lorenzo-Trueba, Natalia Loukachevitch, Daniel Loureiro, Ismini Lourentzou, Samuel Louvan, Charles Lovering, Pablo Loyola, Federico Lpez, Adrin Pastor Lpez Monroy, Di Lu, Jing Lu, Yichao Lu, Yi Luan, Nurul Lubis, Stephanie M. Lukin, Fuli Luo, Huaishao Luo, Jiebo Luo, Zhunchen Luo, Anh Tuan Luu, Xin Lv, Verena Lyding, Teresa Lynn, Yajuan Lyu

Joana M. Barros, Dehong Ma, Hao Ma, Ji Ma, Jianqiang Ma, Lin Ma, Mingbo Ma, Shuming Ma, Tengfei Ma, Xuezhe Ma, Sean MacAvaney, Wolfgang Macherey, Aman Madaan, Mounica Maddela, Pranava Madhyastha, Nitin Madnani, Andrea Madotto, Pierre Magistry, Bernardo Magnini, Adyasha Maharana, Nabin Maharjan, Debanjan Mahata, Sainik Mahata, Ayush Maheshwari, Wolfgang Maier, Jean Maillard, Navonil Majumder, Peter Makarov, Prodromos Malakasiotis, Chaitanya Malaviya, Andreas Maletti, Igor Malioutov, Jonathan Mallinson, Eric Malmi, Rob Malouf, Valentin Malykh, Radhika Mamidi, Suresh Manandhar, Michael Mandel, Angrosh Mandya, Lydia Manikonda, Emma Manning, Saab Mansour, Xianling Mao, Yuning Mao, Ana Marasovi, Diego Marcheggiani, Daniel Marcu, David Mareek, Katerina Margatina, Benjamin Marie, Alex Marin, Antonios Maronikolakis, Mirko Marras, Edison Marrese-Taylor, James H. Martin, David Martinez, Hector Martinez Alonso, Eugenio Martnez-Cmara, Pascual Martnez-Gmez, Binny Mathew, Lambert Mathias, Prashant Mathur, Yuichiroh Matsubayashi, Yuji Matsumoto, Takuya Matsuzaki, Yevgen Matushevych, Arne Mauser, Stephen Mayhew, Joshua Maynez, Sahisnu Mazumder, David McAllester, Bryan McCann, Scott McCarley, David McClosky, R. Thomas McCoy, John Philip McCrae, Matthew McDermott, Ryan McDonald, Kathleen McKeown, Brian McMahan, Sara Meftah, Yashar Mehdad, Shikib Mehri, Sneha Mehta, Yelena Mejova, Ida Mele, Arul Menezes, Fandong Meng, Helen Meng, Rui Meng, Yuanliang Meng, Stefano Menini, Paola Merlo, Mohsen Mesgar, Donald Metzler, Marie-Jean Meurs, Christian M. Meyer, Adam Meyers, Haitao Mi, Chunyan Miao, Yishu Miao, Julian Michael, Paul Michel, Juliana Miehle, Sabrina J. Mielke, Margot Mieskes, Tsvetomila Mihaylova, Elena Mikhalkova, Simon Mille, Tristan Miller, Bonan Min, Sewon Min, Pasquale Minervini, Koji Mineshima, Shachar Mirkin, Paramita Mirza, Abhijit Mishra, Bamdev Mishra, Pushkar Mishra, Swaroop Mishra, Amita Misra, Teruhisa Misu, Jeff Mitchell, Tom Mitchell, Prasenjit Mitra, Arpit Mittal, Yusuke Miyao, Junta Mizuno, Mathias Mller, Daichi Mochihashi, Ashutosh Modi, Aditya Mogadala, Nikita Moghe, Farhad Moghimifar, Abdelrahman Mohamed, Emad Mohamed, Elham Mohammadi, Behrang Mohit, Karo Moilanen, Piero Molino, Will Monroe, Manuel Montes, Seungwhan Moon, Taesun Moon, Nafise Sadat Moosavi, Richard Moot, Mehrad Moradshahi, Felipe Moraes, Roser Morante, Gonalo Mordido, Mathieu Morey, Junichiro Mori,

Emmanuel Morin, Gaku Morio, Fred Morstatter, Marius Mosbach, Masud Moshtaghi, Lawrence Moss, Nasrin Mostafazadeh, Lili Mou, Ahmed Mourad, Diego Moussallem, Yassine Mrabet, Khalil Mrini, Nikola Mrki, Tingting Mu, Hamdy Mubarak, Pramod Kaushik Mudrakarta, Aaron Mueller, Animesh Mukherjee, Subhabrata Mukherjee, Phoebe Mulcaire, Matthew Mulholland, Philippe Muller, Kashif Munir, Emir Munoz, Robert Munro, Cristina Ioana Muntean, J William Murdock, Kenton Murray, Agnieszka Mykowiecka

Moin Nabi, Nona Naderi, Masaaki Nagata, Ryo Nagata, Ajay Nagesh, Aakanksha Naik, Seiichi Nakagawa, Tetsuji Nakagawa, Satoshi Nakamura, Mikio Nakano, Hideki Nakayama, Toshiaki Nakazawa, Feng Nan, Courtney Napoles, Diane Napolitano, Jason Naradowsky, Karthik Narasimhan, Tahira Naseem, Alexis Nasr, Vivek Natarajan, Roberto Navigli, Matteo Negri, Preksha Nema, Aida Nematzadeh, Ani Nenkova, Mark Neumann, Mariana Neves, Denis Newman-Griffis, Dominick Ng, Hwee Tou Ng, Jun-Ping Ng, Axel-Cyrille Ngonga Ngomo, Dat Quoc Nguyen, Dong Nguyen, Hoang Nguyen, Huy Nguyen, Kim Anh Nguyen, Thanh Nguyen, Thien Huu Nguyen, Truc-Vien T. Nguyen, Viet-An Nguyen, Xuan-Phi Nguyen, Jianmo Ni, Eric Nichols, Garrett Nicolai, Massimo Nicosia, Feng Nie, Jian-Yun NIE, Jan Niehues, Mathias Niepert, Alexander Nikitin, Giannis Nikolentzos, Ivelina Nikolova, Qiang Ning, Noriki Nishida, Sergiu Nisioi, Malvina Nissim, Tong Niu, Xing Niu, Zheng-Yu Niu, Joakim Nivre, Ccero Nogueira dos Santos, Hiroshi Noji, Farhad Nooralahzadeh, Mohammad Norouzi, Elnaz Nouri, Jekaterina Novikova, Debora Nozza, Pierre Nugues, Aurlie Nvol, James O' Neill

Tim O'Gorman, Gerardo Ocampo Diaz, Yusuke Oda, Maciej Odrodniczuk, Jong-Hoon Oh, Atul Kr. Ojha, Naoaki Okazaki, Tsuyoshi Okita, Antoni Oliver, Olabiyi Oluwatobi, Yasumasa Onoe, Juri Opitz, Shereen Oraby, Daniel Ortiz-Martnez, Petya Osenova, Naoki Otani, Myle Ott, Zhijian Ou, Hiroki Ouchi, Jessica Ouyang

Sebastian Pad, Inkit Padhi, Ankur Padia, Aishwarya Padmakumar, Gustavo Henrique Paetzold, Santanu Pal, Alexis Palmer, Jennimaria Palomaki, Boyuan Pan, Sinno Jialin Pan, Alexander Panchenko, Gaurav Pandey, Haris Papageorgiou, Alexandros Papangelis, Nikolaos Pappas, Georgios Paraskevopoulos, Natalie Parde, Antonio Pareja-Lora, Cecile Paris, Eunjeong Park, Ji Ho Park, Jong Park, Joonsuk Park, Youngja Park, Patrick Paroubek, Carla Parra Escartn, Prasanna Parthasarathi, Tommaso Pasini, Marco Passarotti, Ramakanth Pasunuru, Panupong Pasupat, Raj Patel, Roma Patel, Badri Narayana Patro, Olga Patterson, Viviana Patti, Siddharth Patwardhan, Adam Pauls, Romain Paulus, Umashanthi Pavalanathan, Ellie Pavlick, Adam Pease, Pavel Pecina, Vijayaditya Peddinti, Bolette Pedersen, Ted Pedersen, Nicole Peinelt, Stephan Peitz, Tom Pelsmaecker, Baolin Peng, Hao Peng, Hao Peng, Haoruo Peng, Minlong Peng, Siyao Peng, Xiaochang Peng, Gerald Penn, Lis Pereira, Ethan Perez, Gabriele Pergola, Stanislav Peshterliev, Matthew Peters, Fabio Petroni, Eva Pettersson, Maxime Peyrard, Sandro Pezzelle, Hieu Pham, Nghia The Pham, Maciej Piasecki, Davide Picca, Karl Pichotta, Mat Pikuliak, Mohammad Taher Pilehvar, Yuval Pinter, Lidia Pivovarova, Paul Piwek, Benjamin Piwowarski, Vassilis Plachouras, Emmanouil Antonios Platanios, Bryan Plummer, Nina Poerner, Sylvain Pogodalla, Tamara Polajnar, Edoardo Maria Ponti, Murielle Popa-Fabre, Martin Popel, Andrei Popescu-Belis, Fred Popowich, Martin Potthast, Amir Pouran Ben Veyseh, Forough Poursabzi-Sangdeh, Shrimai Prabhume, Jakob Prange, Juan Antonio Prez-Ortiz, Danish Pruthi, Laurent Prvot, Reid Pryzant, Ratish Puduppully, Jay Pujara, Stephen Pulman, Matthew Purver

Raheel Qader, Ashequl Qadir, Vahed Qazvinian, Peng Qi, Kun Qian, Kun Qian, Yujie Qian, Lianhui Qin, Long Qiu, Minghui Qiu, Zimeng Qiu, Lizhen Qu, Xiaojun Quan, Chris Quirk

Ella Rabinovich, Alexandre Rademaker, Will Radford, Alessandro Raganato, Preethi Raghavan, Dinesh Raghunath, Vipul Raheja, Afshin Rahimi, Zahra Rahimi, Elahe Rahimtoroghi, Muhammad

Rahman, Dheeraj Rajagopal, Nazneen Fatema Rajani, Nitendra Rajput, Dhananjay Ram, Taraka Rama, Deepak Ramachandran, Ganesh Ramakrishnan, Owen Rambow, Surangika Ranathunga, Vivek Kumar Rangarajan Sridhar, Marc' Aurelio Ranzato, Jinfeng Rao, Ari Rappoport, Hannah Rashkin, Mohammad Sadegh Rasooli, Pushpendre Rastogi, Johannes Rausch, Shauli Ravfogel, Abhilasha Ravichander, Balaraman Ravindran, Vinit Ravishankar, Anirudh Ravula, Avik Ray, Simon Razniewski, Andreas Rckl, Livy Real, Lena Reed, Georg Rehm, Roi Reichart, Norbert Reithinger, David Reitter, Navid Rekabsaz, Steffen Remus, Xiang Ren, Xingzhang Ren, Yafeng Ren, Zhaochun Ren, Vincent Renkens, Simone Resende, Philip Resnik, Robert Reynolds, Mehdi Rezagholizadeh, Joseph Rhyne, Eugnio Ribeiro, Marco Tulio Ribeiro, Kyle Richardson, Matthew Richardson, Frank Richter, Martin Riedl, German Rigau, Laura Rimell, Fabio Rinaldi, Brian Riordan, Annette Rios, Yara Rizk, Georgios Rizos, Kirk Roberts, Gil Rocha, Melissa Roemmele, Anna Rogers, Stephen Roller, Alexey Romanov, Laurent Romary, Salvatore Romeo, Srikanth Ronanki, Marc-Antoine Rondeau, Wenge Rong, Subendhu Rongali, Antonio Roque, Jos Carlos Rosales Nez, Carolyn Rose, Andrew Rosenberg, Jan Rosendahl, Sophie Rosset, Julien Rossi, Benjamin Roth, Michael Roth, Guy Rotman, Johann Roturier, Masoud Rouhizadeh, Salim Roukos, Shourya Roy, Subhro Roy, Alla Rozovskaya, Yu-Ping Ruan, Sebastian Rudolph, Frank Rudzicz, Josef Ruppenhofer, Vasile Rus, Irene Russo, Tatyana Ruzsics, Maciej Rybinski, C. Anton Rytting, Hee Jung Ryu

Ashish Sabharwal, Mrinmaya Sachan, Kugatsu Sadamitsu, Fatiha Sadat, Erfan Sadeqi Azer, Tara Safavi, Niloofer Safi Samghabadi, Kenji Sagae, Sylvie Saget, Benot Sagot, Avirup Saha, Tulika Saha, Magnus Sahlgren, Sunil Kumar Sahu, Patrick Saint-Dizier, Armin Sajadi, Hassan Sajjad, Keisuke Sakaguchi, Sakriani Sakti, Jin Sakuma, Mohammad Salameh, Julian Salazar, Elizabeth Salesky, Alexandre Salle, Avneesh Saluja, Sylvain Salvati, Tanja Samardzic, Rajhans Samdani, Germn Sanchis-Trilles, Agnes Sandor, Chinnadhurai Sankar, Karthik Sankaranarayanan, Marina Santini, Diana Santos, Bishal Santra, Maarten Sap, Naomi Saphra, Murat Saraclar, Vasanth Sarathy, Anoop Sarkar, Mourad Sarrouti, Felix Sasaki, Yutaka Sasaki, Ryohei Sasano, Shoetsu Sato, Agata Savary, Hassan Sawaf, Thomas Schaaf, Tatjana Scheffler, Yves Scherrer, Timo Schick, Frank Schilder, Dominik Schlechtweg, Michael Sejr Schlichtkrull, Eva Schlinger, Ralf Schlter, Helmut Schmid, Steven Schockaert, Alexandra Schofield, Bjrn Schuller, Sabine Schulte im Walde, Hannes Schulz, Anne-Kathrin Schumann, Sebastian Schuster, H. Andrew Schwartz, Lane Schwartz, Robert Schwarzenberg, Donia Scott, Djam Seddah, Joo Sedoc, Abigail See, Yohei Seki, Ethan Selfridge, Gregory Senay, Jean Senellart, Christophe Servan, Hendra Setiawan, Esther Seyffarth, Lei Sha, Darsh Shah, Kashif Shah, Pararth Shah, Sapan Shah, Samira Shaikh, Cory Shain, Azadeh Shakery, Igor Shalyminov, Chao Shang, Jingbo Shang, Chenze Shao, Ori Shapira, Ehsan Shareghi, Raksha Sharma, Serge Sharoff, Hassan S. Shavarani, Peter Shaw, Lanbo She, Artem Shelmanov, Dinghan Shen, Gehui Shen, Jiaming Shen, Shiqi Shen, Siqi Shen, Wade Shen, Xinyao Shen, Yelong Shen, Emily Sheng, Tom Sherborne, Violetta Shevchenko, Bei Shi, Haoyue Shi, Peng Shi, Shuming Shi, Tianze Shi, Wei Shi, Weiyang Shi, Xing Shi, Tomohide Shibata, Brendan Shillingford, Hyopil Shin, Kazutoshi Shinoda, Chaitanya Shivade, Boaz Shmueli, Eyal Shnarch, Disha Shrivastava, Ritvik Shrivastava, Lei Shu, Kai Shuang, Suzanna Sia, Carina Silberer, Damien Sileo, Miikka Silfverberg, Diego Silva, Joo Silva, Fabrizio Silvestri, Stefano Silvestri, Michel Simard, Patrick Simianer, Dan Simonson, Antoine Simoulin, Edwin Simpson, Matthew Sims, Amanpreet Singh, Koustuv Sinha, Sunayana Sitaram, Charese Smiley, Noah A. Smith, Jan Snajder, Danae Snchez Villegas, Felipe Snchez-Martnez, Alison Sneyd, Helena Sobol, Juan Soler, Dezhao Song, Kaiqiang Song, Kaisong Song, Kyungwoo Song, Linfeng Song, Xingyi Song, Yan Song, Yang Song, Alessandro Sordani, Radu Soricut, Aitor Soroa, Daniil Sorokin, Xabier Soto, Manuela Speranza, Matthias Sperber, Richard Sproat, Rachele Sprugnoli, Balaji Vasan Srinivasan, Shashank Srivastava, Felix Stahlberg, Sanja Stajner, Efstathios Stamatatos, Gabriel Stanovsky, Katherine Stasaski, Mark Steedman, Julius Steen, Shane Steinert-Threlkeld, Egon Stemle, Pontus Stenetorp, Evgeny Stepanov, Mitchell Stern, Mark Stevenson, Ian Stewart, Zachary Stine, Robert stling, Dario Stojanovski, Karl Stratos, Kristina Striegnitz, Jannik Strtgen, Tomek Strzalkowski, Sara Stymne, Hui Su, Jinsong Su, Keh-Yih Su,

Qinliang Su, Shang-Yu Su, Weifeng Su, Yixuan Su, Yu Su, Zhong Su, Aparna Subramanian, Sandeep Subramanian, Shivashankar Subramanian, Sudha Subramanian, Katsuhito Sudoh, Hiroaki Sugiyama, Kazunari Sugiyama, Alane Suhr, Elior Sulem, Changzhi Sun, Fei Sun, Huan Sun, Jian Sun, Jimeng Sun, Kai Sun, Le Sun, Ming Sun, Xin Sun, Yawei Sun, Zequn Sun, Zhongkai Sun, Shiva Sundaram, Hanna Suominen, Mihai Surdeanu, Anshuman Suri, Simon Suster, Hisami Suzuki, Krishnkant Swarnkar, Gyrgy Szarvas, Stan Szpakowicz

Whitney Tabor, Anas Tack, Oyvind Tafjord, Kaveh Taghipour, Nina Tahmasebi, Hiroya Takamura, Ryuichi Takanobu, Sho Takase, David Talbot, Fabio Tamburini, Ale Tamchyna, Akihiro Tamura, Hao Tan, Liling Tan, Xu Tan, Kumiko Tanaka-Ishii, Niket Tandon, Duyu Tang, Gongbo Tang, Hao Tang, Qingming Tang, Shuai Tang, Siliang Tang, Chenyang Tao, Chongyang Tao, Shiva Taslimipoor, Marta Tatu, Yi Tay, Andon Tchechmedjiev, Christoph Teichmann, Serra Sinem Tekirolu, Irina Temnikova, Zhiyang Teng, Maartje ter Hoeve, Erisa Terolli, Alberto Testoni, Kapil Thadani, Nithum Thain, khushboo Thaker, Anu Thomas, Brian Thompson, James Thorne, Junfeng Tian, Ran Tian, Yu Tian, Zhiliang Tian, Anna Tigonova, Christoph Tillmann, Tiago Timponi Torrent, Antoine Tixier, Gabriele Tolomei, Gaurav Singh Tomar, Nadi Tomeh, Marc Tomlinson, Mariya Toneva, Francesca Toni, Kentaro Torisawa, Paolo Torroni, Kristina Toutanova, Amine Trabelsi, Quan Hung Tran, Trang Tran, Diana Trandabat, Marcos Treviso, Alina Trifan, Rocco Tripodi, Adam Trischler, Enrica Troiano, Chen-Tse Tsai, Yao-Hung Hubert Tsai, Adam Tsakalidis, Bo-Hsiang Tseng, Yuta Tsuboi, Yoshimasa Tsuruoka, Kewei Tu, Lifu Tu, Zhaopeng Tu, Don Tuggener, Gokhan Tur, Kateryna Tymoshenko

Kiyotaka Uchimoto, Nicola Ueffing, Octavia-Maria Ulea, Adrian Ulges, Olga Uryupina, Ricardo Usbeck, Dmitry Ustalov, Prasetya Ajie Utama, Masao Utiyama, Antonio Uva

Preethi Vaidyanathan, Sowmya Vajjala, Svitlana Vakulenko, Andreas van Cranenburgh, Esther van den Berg, Chris van der Lee, Benjamin Van Durme, Josef van Genabith, Marten van Schijndel, Menno van Zaanen, Vincent Vandeghinste, Lucy Vanderwende, David Vandyke, Natalia Vanetik, Clara Vania, Eva Vanmassenhove, Andrea Vanzo, Siddharth Varia, Shikhar Vashishth, Siddharth Vashishtha, Eva Maria Vecchi, Olga Vechtomoova, Erik Velldal, Alakananda Vempala, Giulia Venturi, Suzan Verberne, Rohil Verma, Yannick Versley, Marta Vicente, Jesse Vig, David Vilar, David Vilares, Jess Vilares, Martin Villalba, Anne Vilnat, Veronika Vincze, Sami Virpioja, Ngoc Phuoc An Vo, Nikolai Vogler, Rob Voigt, Elena Voita, Nikos Voskarides, Soroush Vosoughi, Piek Vossen, Lilja vrelid, Ngoc Thang Vu, Thuy Vu, Thuy-Trang Vu, Tu Vu, Yogarshi Vyas, Ekaterina Vylomova

Akifumi Wachi, Henning Wachsmuth, Joachim Wagner, Byron C. Wallace, Eric Wallace, Aaron Walsman, Matthew Walter, Ulli Waltinger, Yu Wan, Alex Wang, Baoxun Wang, Bin Wang, Bingning Wang, Bo Wang, Boxin Wang, Chang Wang, Cheng Wang, Chenguang Wang, Chengyu Wang, Chuan-Ju Wang, Danqing Wang, Di Wang, Dingquan Wang, Guangrun Wang, Guoyin Wang, Hai Wang, Han Wang, Hong Wang, Hongmin Wang, Hsin-Min Wang, Hua Wang, Huan Wang, Jin Wang, Jinpeng Wang, Liang Wang, Lidan Wang, Longyue Wang, Mingxuan Wang, Pidong Wang, Ping Wang, Qingyun Wang, Quan Wang, Rui Wang, Rui Wang, Shaojun Wang, Shaonan Wang, Shuai Wang, Shuohang Wang, Sida I. Wang, Tianlu Wang, Tong Wang, Tong Wang, Wei Wang, Wei Wang, Weichao Wang, Weikang Wang, Wen Wang, Wenhui Wang, Wenlin Wang, Wenya Wang, Xiang Wang, Xin Wang, Xing Wang, Xintong Wang, Xinyi Wang, Xuancong Wang, Yan Wang, Yequan Wang, Yiou Wang, Yizhong Wang, Yu Wang, Zhongqing Wang, Zhuoer Wang, Zirui Wang, Artit Wangperawong, Nigel Ward, Alex Warstadt, Zeerak Waseem, Koki Washio, Jakub Waszczuk, Shinji Watanabe, Bonnie Webber, Noah Weber, Kellie Webster, Julie Weeds, Leila Wehbe, Furu Wei, Johnny Wei, Wei Wei, Wei Wei, Xiaochi Wei, Zhongyu Wei, Johannes Welbl, Sean Welleck, Chris Welty, Ji-Rong Wen, Lijie Wen, Wei-Hung Weng, Jason Weston, Aaron Steven White, Michael White, Spencer Whitehead, Michael Wiegand, Sarah Wiegrefe, Derry Tanti Wijaya,

Gijs Wijnholds, Rodrigo Wilkens, Jennifer Williams, Philip Williams, Shomir Wilson, Genta Indra Winata, Shuly Wintner, Guillaume Wisniewski, Tomer Wolfson, Derek F. Wong, Tak-Lam Wong, Dina Wonsever, Bowen Wu, Chien-Sheng Wu, Chuhan Wu, Fangzhao Wu, Lianwei Wu, Lijun Wu, Lingfei Wu, Shu Wu, Shuangzhi Wu, Tongshuang Wu, Winston Wu, Xianchao Wu, Xiao-Ming Wu, Youzheng Wu, Yuanbin Wu, Yuexin Wu, Yunfang Wu, Zhaohui Wu, Joern Wuebker, Christian Wurm

Mengzhou Xia, Rui Xia, Yunqing Xia, Chunyang Xiao, Liqiang Xiao, Tong Xiao, Wen Xiao, Xinyan Xiao, Yanghua Xiao, Boyi Xie, Haoran Xie, Jun Xie, Qizhe Xie, Ruobing Xie, Xin Xin, Yingwei Xin, Yujie Xing, Chenyan Xiong, Wenhan Xiong, Can Xu, Dongfang Xu, Hainan Xu, Hu Xu, Jiacheng Xu, Jingjing Xu, Jun Xu, Jun Xu, Kun Xu, Mingzhou Xu, Peng Xu, Qionгкаi Xu, Ruifeng Xu, Tan Xu, Weijia Xu, Wenduan Xu, Yang Xu, Yumo Xu, Zhen Xu, Huichao Xue, Nianwen Xue

Mohit Yadav, Shweta Yadav, Vikas Yadav, Yadollah Yaghoobzadeh, Rui Yan, Xiaohui Yan, Zhao Yan, Baosong Yang, Bishan Yang, Cheng Yang, Eugene Yang, Haiqin Yang, Jianwei Yang, Jie Yang, Jie Yang, Min Yang, Min Yang, Pengcheng Yang, Ruosong Yang, Shaohua Yang, Weiwei Yang, Yaqin Yang, Yi Yang, Yinfei Yang, Yujiu Yang, Ze Yang, Zhengxin Yang, Zi Yang, Tae Yano, Fanglong Yao, Jin-Ge Yao, Jin-ge Yao, Liang Yao, Ting Yao, Semih Yavuz, Majid Yazdani, Hai Ye, Junting Ye, Yunming Ye, Pengcheng Yin, Qingyu Yin, Wenpeng Yin, Xusen Yin, Yichun Yin, Sho Yokoi, Hikaru Yokono, Takuma Yoneda, Kang Min Yoo, Seunghyun Yoon, Su-Youn Yoon, Naoki Yoshinaga, Koichiro Yoshino, Dian Yu, Dian Yu, Dong Yu, Heng Yu, Hong Yu, Jianfei Yu, Jun Yu, Juntao Yu, Liang-Chih Yu, Licheng Yu, Ning Yu, Qian Yu, Seunghak Yu, Tao Yu, Xiang Yu, Arianna Yuan, Michelle Yuan, Frances Yung

Annie Zaenen, Wajdi Zaghouni, Nasser Zalmout, Marcely Zanon Boito, Sina Zarrie, Rabih Zbib, Rowan Zellers, Daojian Zeng, Jichuan Zeng, Michael Zeng, Qingkai Zeng, Xingshan Zeng, Torsten Zesch, Deniz Zeyrek, Fangzhou Zhai, Yuming Zhai, Aston Zhang, Biao Zhang, Boliang Zhang, Chao Zhang, Chen Zhang, Chengzhi Zhang, Chenwei Zhang, Hao Zhang, Jason Zhang, Jinchao Zhang, Justine Zhang, Kun Zhang, Kunpeng Zhang, Lei Zhang, Lei Zhang, Li Zhang, Meishan Zhang, Min Zhang, Ming Zhang, Mozhi Zhang, Peng Zhang, Qi Zhang, Qiang Zhang, Qing Zhang, Richong Zhang, Rui Zhang, Ruiyi Zhang, Sheng Zhang, Shuai Zhang, Tongtao Zhang, Wei Zhang, Wei Zhang, Wei Zhang, Wen Zhang, Wen Zhang, Xiao Zhang, Xingxing Zhang, Xuchao Zhang, Yao Zhang, Yazhou Zhang, Yi Zhang, Yizhe Zhang, Yu Zhang, Yuan Zhang, Yuhao Zhang, Yuhui Zhang, Zhe Zhang, Zhihan Zhang, Zhirui Zhang, Zhuosheng Zhang, Bing Zhao, Hai Zhao, Jieyu Zhao, Jun Zhao, Kai Zhao, Lin Zhao, Tiancheng Zhao, Tianyu Zhao, Tiejun Zhao, Wayne Xin Zhao, Wei Zhao, Wenbo Zhao, Yang Zhao, Yang Zhao, Yanyan Zhao, Yao Zhao, Zihao Zhao, Baigong Zheng, Hao Zheng, Xin Zheng, Zaixiang Zheng, Victor Zhong, Chunting Zhou, Deyu Zhou, Dong Zhou, Guangyou Zhou, Guodong Zhou, Hao Zhou, Jiawei Zhou, Joey Tianyi Zhou, Long Zhou, Luwei Zhou, Qingyu Zhou, Xiangyang Zhou, Yang Zhou, Conghui Zhu, Dongxiao Zhu, Henghui Zhu, Hongyin Zhu, Huaiyu Zhu, Jia Zhu, Junnan Zhu, Kenny Zhu, Muhua Zhu, Qingfu Zhu, Leonardo Zilio, Ayah Zirikly, Imed Zitouni, Markus Zlabinger, Shi Zong, Markus Zopf, Bawei Zou, Yanyan Zou, Arkaitz Zubiaga, Frederike Zufall, Willem Zuidema

Secondary Reviewers:

Manoj Acharya, Jakub Adamek, Ameeta Agrawal, Gustavo Aguilar, Zishan Ahmad, Arjun Akula, Amanuel Alambo, Marjan Albooyeh, Bashar Alhafni, Hassan Alhuzali, Milad Alshomary, Christoph Alt, Hessam Amini, Chantal Amrhein, Saba Anwar, Piyush Arora, Aitziber Atutxa, Tal August, Gorka Azkune,

Charles B. Callaway, Long Bai, Vevake Balaraman, Ángel Balderas Paredes, Pratyay Banerjee, Yu Bao, Max Bartolo, Anton Belyy, Omri Ben-Eliezer, Michele Bevilacqua, Aditya Bhargava,

Yonatan Bilu, Mihaela Bornea, Mihaela Bošnjak, Julia Bosque-Gil, Peter Bourgonje, Debora Bozza, Emanuele Bugliarello, Gregory Burnham, Brandon Burroughs,

Isabel Cachola, Avi Caciularu, Jiarun Cao, Adam Casson, Arie Cattan, Raktim Chaki, Ilya Chatsviorokin, Rajen Chatterjee, Ethan Chau, Vishrav Chaudhary, Viktoriia Chekalina, Guandan Chen, Jia Chen, Jiangjie Chen, Kehai Chen, Wei-Fan Chen, Xin Chen, Yu Chen, Pengyu Cheng, Po-Han Chi, Patricia Chiril, Fenia Christopoulou, Xiaoming Chu, Yi-Ling Chung, Yiling Chung, Nissan Cohen, Marcus Collins, Michele Corazza, Eric Corlett, Qu Cui,

Barbara Darques Barros, Manirupa Das, Sarthak Dash, Tobias Daudert, Amir David, Chris de Vries, Daryna Dementieva, David Demeter, Yongchao Deng, Yunhan Deng, Shehzaad Dhuliawala, Mattia di Gangi, Liang Ding, Ly Dinh, Anca Dinu, Hang Dong, Andrew Drozdov, Yantao Du, Pratik Dutta, Subhabrata Dutta,

Peter Ebert Christensen, Lilach Eden, Md Enamul Haque, Ori Ernst, Mario Ezra Aragón,

Arvid Fahlström Myrman, Wenqi Fan, Zhihao Fan, Zhai FangZhou, Nils Feldhus, James Finch, Mauzama Firdaus, Klaudia Firląg, Adam Fisch, Clémentine Fourier, Arvid Frydenlund, Jinlan Fu,

Andrea Galassi, Colm Gallagher, Ygor Gallina, Adithya Ganesan, Ashwinkumar Ganesan, Dashan Gao, Yuze Gao, Aitor García Pablos, Sarthak Garg, Xiubo Geng, Abigail Gertner, Mehdi Ghanimi-fard, Soumitra Ghosh, Salvatore Giorgi, Anna Glazkova, Maharshi Gor, Rakesh Gosangi, Yoann Goudin, Natalia Grabar, Lukas Graner, Dmitry Grigoryev, Xiaodong Gu, Yu Gu, Min Gui, Shu Guo, Xiaobo Guo, Kamal Gupta, Ximena Gutierrez, Mario Guzmán Silverio,

Amir Habibi, Batool Haider, Anran Hao, David Harbecke, Bradley Hauer, William Havard, Amir Hazem, Han He, Liang He, Shilin He, Nils Holzenberger, Jiang Hong Chao, Chun-Cheng Hsieh, Jui-Yang Hsu, Hai Hu, Mengting Hu, Rachel Hu, Tianran Hu, Shanshan Huang, Ziyin Huang, Marc Hübner, Tony Hung, Yongkeun Hwang,

Aizhan Imankulova, Go Inoue, Koji Inoue, Max Ionov, Kazuki Irie, Masaru Isonuma,

Pedro Javier, Qi Jia, Ye Jiang, Wenxiang Jiao, Bernal Jimenez Gutierrez, Yilun Jin, Pratik Joshi, Jiangzhou Ju,

Sabin Kaffle, Masahiro Kaneko, Sri Karlapati, Hemant Kathania, Satoru Katsumata, Pride Kavumba, Frank Keller, Matthew Kelly, Nouran Khallaf, Saarthak Khanna, Simran Khanuja, Christopher Klamm, Ryosuke Kohita, Chandrashekar Konda, Luyang Kong, Anastassia Kornilova, Aris Kosmopoulos, Neema Kotonya, Michael Kozielski, Reno Kriz, Jason Krone, Sneha Kudugunta, Sovan Kumar Sahoo,

Chiraag Lala, Mirella Lapata, Benjamin Lecouteux, Donghyeon Lee, Dongkyu Lee, Sang-Woo Lee, Minwoo Lee, Seolhwa Lee, Yoonhyung Lee, Elisa Leonardelli, Pietro Lesci, Boyang Li, Chang Li, Dan Li, Dejian Li, Dongfang Li, Juntao Li, Linjie Li, Mohan Li, Xiang Li, Zejun Li, Zixuan Li, Zongxi Li, Zhengzhong Liang, Ming Liao, Luyang Lin, Xiangyu Lin, Xixun Lin, Dayiheng Liu, Zhengyuan Liu, Ran Liu, Ruibo Liu, Wei Liu, Xuebo Liu, Zhengyuan Liu, Miguel López Campos, Samuel Louvan, Jiaying Lu, Xingwu Lu, Yaojie Lu, Zexin Lu, Yixing Luan, Zhiyi Luo,

Victor M. Sánchez-Cartagena, Danni Ma, Nianzu Ma, Weicheng Ma, Wentao Ma, Joy Mahapatra, Ruchi Mahindru, Subhadeep Maji, Xin Mao, Zhiming Mao, Mounika Mareddy, Louis Martin, Matthew Matero, Diego Maupomé, Tobias Mayer, Arya McCarthy, Zoran Medic, Gábor Melis, Rui

Meng, Erxue Min, Gosse Minnema, Dionyssios Mintzopoulos, Nikita Moghe, Bahareh Mokarram Dorri, David Mueller,

Aakanksha Naik, Jinseok Nam, Preksha Nema, Andre Nguyen, Andreas Niekler, Irina Nikishina, Vassilina Nikoulina, Zhou Nina,

Daniel Oberski, Maria Octavia Sulea, Donovan Ong, Malte Ostendorff, Yawen Ouyang,

Nicklas Padde Hansen, Kuntal Pal, Alessio Palmero Aprosio, Caroline Pasquer, Amandalynne Paullada, Wu Peng, Or Perel, Nikiforos Pittaras, Shivani Poddar, Adam Poliak, Alberto Poncelas, Ofir Press,

Weizhen Qi, Chen Qian, Lizhen Qu,

Marc Queudot, Priya Radhakrishnan, Salil Rajeev Joshi, Siyu Ren, Xiaoqi Ren, Natália Resende, Rezvaneh Rezapour, Sean Robertson, Nicolas Rodolfo Fauceglia, João Rodrigues, Nuria Rodríguez Barroso, Julien Rossi, Ohad Rozen, Federico Ruggeri, Tatyana Ruzsics,

Ofer Sabo, Ashutosh Saboo, Ananya Sai, Tanja Samardzic, Manuela Sanguinetti, Siva Sankalp Patel, Rodrigo Santos, Sebastin Santy, Twisampati Sarkar, Alessio Sarullo, Ramit Sawhney, Lena Schiffer, Benjamin Schiller, Andrew Schneider, Tal Schuster, Natalia Segal, Sukanta Sen, Mahsa Shafaei, Arunav Shandilya, Bo Shao, Vera Sheinman, Artem Shelmanov, Ke Shi, Abhishek Shrivastava, Kurt Shuster, Aditya Siddhant, Mittul Singh, Devandra Singh Sachan, Artem Sokolov, Amir Soleimani, Hoyun Song, Kai Song, Yiping Song, Kai Song, Olga Sozinova, Anirudh Srinivasan, Jakub Staniszewski, Nicolas Stefanovitch, Elias Stengel-Eskin, Kevin Stier, Regina Stodden, Donghang Su, Ortiz Suárez, Farjana Sultana Mim, Siqi Sun, Shahbaz Syed,

Dima Taji, Sho Takase, Linyuan Tang, Yiqi Tang, Alessandra Teresa Cignarella, Silvia Terragni, Mokbanarangan Thayaparan, Brian Thompson, Yuanhe Tian, Caglar Tirkaz, Gabriele Tolomei, Evgeniia Torkachuk, Shamir Towsif Khandaker, Thy Tran, Jonay Trenous, Harsh Trivedi, Martin Tutek, Shubhi Tyagi,

Rheeya Uppaal,

Marco Valentino, Ali Vardasbi, Deeksha Varshaney, Bharath Venkatesh, Rajeev Verma, Karolina Victoria Zaczynska, Manuela Vilares Ferro, Anja Virkkunen, Tatiana Vodolazova, Huy Vu,

Endang Wahyu Pamungkas, Guoyin Wang, Jiayi Wang, Lili Wang, Lingzhi Wang, Quan Wang, Ran Wang, Sinong Wang, Siyuan Wang, Yaushian Wang, Yijun Wang, Yile Wang, Patrick Watrin, Xiaokai Wei, Zhepei Wei, Nathaniel Weir, Xu Weiwen, Ruwan Wickramarachchi, Adam Wiemer-slage, Tony Won, Changxing Wu, Chuhan Wu, Hanlu Wu, Mingzhu Wu, Shan Wu, Sixing Wu, Tsung-Han Wu, Zhen Wu,

Congying Xia, Qingrong Xia, Jianyu Xiang, Yuqing Xie, Linzi Xing, Chang Xu, Huimin Xu, Liyan Xu, Lu Xu,

Vikas Yadav, Haoran Yan, Ding Yang, Wonsuk Yang, Xinyi Yang, Zhiwei Yang, Ziqing Yang, Usama Yaseen, Rong Ye, Jinseon You, Bowen Yu, Wenhao Yu, Xiang Yuanxin, Hong Yung Yip,

MZ Zamani, Omnia Zayed, Qi Zeng, Qingkai Zeng, Yutao Zeng, Yuming Zhai, Chen Zhang, Dakun Zhang, Haimin Zhang, Hugh Zhang, Li Zhang, Rongting Zhang, He Zhao, Jinman Zhao,

Kailin Zhao, Shiwan Zhao, Anqing Zheng, Wangchunshu Zhou, Xiabing Zhou, Chenguang Zhu, Jiangan Zhu, Shichao Zhu, Siyu Zhu, Yilun Zhu, Wei Zou

We would like to recognize the following Outstanding Reviewers:

Omri Abend, Sachin Agarwal, Aishwarya Agrawal, Salah Ait-Mokhtar, Tariq Alhindi, Reinald Kim Amplayo, Ion Androutsopoulos

Anusha Balakrishnan, Niranjan Balasubramanian, Roy Bar-Haim, Adrian Benton, Taylor Berg-Kirkpatrick, Rahul Bhagat, Su Lin Blodgett, Valts Blukis, Ben Bogin, Mihaela Bornea, Benjamin Börschinger, Nadjat Bouayad-Agha, Leonid Boytsov, Chris Brockett, Sven Buechel, Jan Buys

Ziqiang Cao, Spencer Caplan, Ernie Chang, Jiangpeng Cheng, Colin Cherry, Alina Maria Ciobanu, Stephen Clark, Anne Cocos, Kevin Cohen, John Conroy

Marirupa Das, Adrià de Gispert, Francien Dechesne, Yuntian Deng, Alexandre Denis, Daniel Deutsch, Georgiana Dinu, Li Dong, Yue Dong, Mark Dredze, Daniel Duckworth, Ondřej Dušek

Steffen Eger, Jason Eisner, Ferracane Elisa, Guy Emerson, Maxine Eskenazi, Alexander Fabbri, Oladimeji Farri, Maryam Fazil-Zarandi, Francis Ferraro, Lucie Flekova, Tommaso Fornaciari, Dayne Freitag, Daniel Fried

Saadia Gabriel, David Gaddy, George Giannakopoulos, Dimitra Gkatzia, Goran Glavas, Randy Goebel, Rahul Goel, Sian Gooding, Alvin Grissom II, Raghav Gupta

Udo Hahn, Sherzod Hakimov, Mika Hämäläinen, Ting Han, Abram Handler, Momchil Hardalov, Hardy Hardy, Benjamin Heinzerling, James Henderson, Ulf Hermjakob, Daniel Hershcovich, Jonathan Herzig, Jack Hessel, John Hewitt, Christopher Hidey, Matthias Huck, Kwan Hui Lim, Ben Hutchison

Daphne Ippolito, Alexei Ivanov

Cheung Jackie Chi Kit, Vihan Jain, Hyeju Jang, Feng Ji, Zhuoxuan Jiang, Kyle Johnson, Aditya Joshi

Lauri Karttunen, Chris Kedzie, John Kelleher, Hayato Kobayashi, Grzegorz Kondrak, Ioannis Konstas, Pavel Král, Kalpesh Krishna

Stefan Larson, Logan Lebanoff, Ji-Ung Lee, Gregor Leusch, Gina Levow, Mu Li, Chen Li, Yang Li, Yanran Li, Xi Victoria Lin, Pierre Lison, Pierre Lison, Tianyu Liu, Zhengzhong Liu, Zhiyuan Liu, Nelson Liu, Yang Liu, Kyle Lo, Pablo Loyola, Stephanie Lukin

Navonil Majumder, Igor Malioutov, Marie-Catherine de Marneffe, Alex Marin, Kathy McKeown, Shikib Mehri, Julian Michael, Margo Mieskes, Simon Mille, Chong Min Lee, Piero Molino, Mathias Müller, Robert Munro, Diego Mussalem

Matteo Negri, Mark Neumann, Mariana Neves, Denis Newman-Griffis, Jun-Ping Ng, Jianmo Ni

Yusuke Oda, Oluwatobi Olabiyi, Shereen Oraby, Jessica Ouyang, Aishwarya Padmakumar

Natalie Parde, Panupong Pasupat, Roma Patel, Olga Patterson, Romain Paulus, Umashanthi Pavalanathan, Pavel Pecina, Nicole Peinelt, Stephan Peitz, Maxime Peyrard, Muller Philippe, Karl Pichotta, Bryan Plummer, Edoardo Maria Ponti, Stephen Pulman

Chris Quirk

Khyathi Raghavi, Abhilasha Ravichander, Lena Reed, Phil Resnik, Eugénio Ribeiro, Kirk Roberts, Michael Roth, Johann Roturier

Niloofer Safi Samghabadi, Elizabeth Salesky, Maarten Sap, Naomi Saphra, Anoop Sarkar, Sebastian Schuster, Abigail See, Cory Shain, Ori Shapira, Carina Silberer, Julius Steen, Karl Stratos, Kristina Striegnitz, Alane Suhr

Whitney Tabor, Anaïs Tack, Hiroya Takamura, Andon Thechmedjiev, Adam Tsakalidis

Marten van Schijndel, David Vandyke, Eva Vanmassenhove, Veronika Vincze

Akifumi Wachi, Henning Wachsmuth, Jinpeng Wang, Weichao Wang, Tong Wang, Sean Welleck,
Xianchao Wu

Tong Xiao, Can Xu

Jin-Ge Yao, Jin-ge Yao, Pengcheng Yin, Bo Yu

Justin Zhang, Yizhe Zhang, Yuhao Zhang, Shuai Zhang, Jinchao Zhang, Jiawei Zhou, Junnan Zhu,
Markus Zopf

Table of Contents

<i>Learning to Understand Child-directed and Adult-directed Speech</i> Lieke Gelderloos, Grzegorz Chrupała and Afra Alishahi	1
<i>Predicting Depression in Screening Interviews from Latent Categorization of Interview Prompts</i> Alex Rinaldi, Jean Fox Tree and Snigdha Chaturvedi	7
<i>Coach: A Coarse-to-Fine Approach for Cross-domain Slot Filling</i> Zihan Liu, Genta Indra Winata, Peng Xu and Pascale Fung	19
<i>Designing Precise and Robust Dialogue Response Evaluators</i> Tianyu Zhao, Divesh Lala and Tatsuya Kawahara	26
<i>Dialogue State Tracking with Explicit Slot Connection Modeling</i> Yawen Ouyang, Moxin Chen, Xinyu Dai, Yinggong Zhao, Shujian Huang and Jiajun CHEN ...	34
<i>Generating Informative Conversational Response using Recurrent Knowledge-Interaction and Knowledge-Copy</i> Xiexiong Lin, Weiyu Jian, Jianshan He, Taifeng Wang and Wei Chu	41
<i>Guiding Variational Response Generator to Exploit Persona</i> Bowen Wu, MengYuan Li, Zongsheng Wang, Yifu Chen, Derek F. Wong, qihang feng, Junhong Huang and Baoxun Wang	53
<i>Large Scale Multi-Actor Generative Dialog Modeling</i> Alex Boyd, Raul Puri, Mohammad Shoeybi, Mostofa Patwary and Bryan Catanzaro	66
<i>PLATO: Pre-trained Dialogue Generation Model with Discrete Latent Variable</i> Siqi Bao, Huang He, Fan Wang, Hua Wu and Haifeng Wang	85
<i>Slot-consistent NLG for Task-oriented Dialogue Systems with Iterative Rectification Network</i> Yangming Li, Kaisheng Yao, Libo Qin, Wanxiang Che, Xiaolong Li and Ting Liu	97
<i>Span-ConveRT: Few-shot Span Extraction for Dialog with Pretrained Conversational Representations</i> Samuel Coope, Tyler Farghly, Daniela Gerz, Ivan Vulčić and Matthew Henderson	107
<i>Zero-Shot Transfer Learning with Synthesized Data for Multi-Domain Dialogue State Tracking</i> Giovanni Campagna, Agata Foryciarz, Mehrad Moradshahi and Monica Lam	122
<i>A Complete Shift-Reduce Chinese Discourse Parser with Robust Dynamic Oracle</i> Shyh-Shiun Hung, Hen-Hsen Huang and Hsin-Hsi Chen	133
<i>TransS-Driven Joint Learning Architecture for Implicit Discourse Relation Recognition</i> Ruifang He, Jian Wang, Fengyu Guo and Yugui Han	139
<i>A Study of Non-autoregressive Model for Sequence Generation</i> Yi Ren, Jinglin Liu, Xu Tan, Zhou Zhao, sheng zhao and Tie-Yan Liu	149
<i>Cross-modal Language Generation using Pivot Stabilization for Web-scale Language Coverage</i> Ashish V. Thapliyal and Radu Soricut	160
<i>Fact-based Text Editing</i> Hayate Iso, Chao Qiao and Hang Li	171

<i>Few-Shot NLG with Pre-Trained Language Model</i>	
Zhiyu Chen, Harini Eavani, Wenhui Chen, Yinyin Liu and William Yang Wang	183
<i>Fluent Response Generation for Conversational Question Answering</i>	
Ashutosh Baheti, Alan Ritter and Kevin Small	191
<i>Generating Diverse and Consistent QA pairs from Contexts with Information-Maximizing Hierarchical Conditional VAEs</i>	
Dong Bok Lee, Seanie Lee, Woo Tae Jeong, Donghwan Kim and Sung Ju Hwang	208
<i>Learning to Ask More: Semi-Autoregressive Sequential Question Generation under Dual-Graph Interaction</i>	
Zi Chai and Xiaojun Wan	225
<i>Neural Syntactic Preordering for Controlled Paraphrase Generation</i>	
Tanya Goyal and Greg Durrett	238
<i>Pre-train and Plug-in: Flexible Conditional Text Generation with Variational Auto-Encoders</i>	
Yu Duan, Canwen Xu, Jiaxin Pei, Jialong Han and Chenliang Li	253
<i>Probabilistically Masked Language Model Capable of Autoregressive Generation in Arbitrary Word Order</i>	
Yi Liao, Xin Jiang and Qun Liu	263
<i>Reverse Engineering Configurations of Neural Text Generation Models</i>	
Yi Tay, Dara Bahri, Che Zheng, Clifford Brunk, Donald Metzler and Andrew Tomkins	275
<i>Review-based Question Generation with Adaptive Instance Transfer and Augmentation</i>	
Qian Yu, Lidong Bing, Qiong Zhang, Wai Lam and Luo Si	280
<i>TAG : Type Auxiliary Guiding for Code Comment Generation</i>	
Ruichu Cai, Zhihao Liang, Boyan Xu, zijian li, Yuexing Hao and Yao Chen	291
<i>Unsupervised Paraphrasing by Simulated Annealing</i>	
Xianggen Liu, Lili Mou, Fandong Meng, Hao Zhou, Jie Zhou and Sen Song	302
<i>A Joint Model for Document Segmentation and Segment Labeling</i>	
Joe Barrow, Rajiv Jain, Vlad Morariu, Varun Manjunatha, Douglas Oard and Philip Resnik	313
<i>Contextualized Weak Supervision for Text Classification</i>	
Dheeraj Mekala and Jingbo Shang	323
<i>Every Document Owns Its Structure: Inductive Text Classification via Graph Neural Networks</i>	
Yufeng Zhang, Xueli Yu, Zeyu Cui, Shu Wu, Zhongzhen Wen and Liang Wang	334
<i>Neural Topic Modeling with Bidirectional Adversarial Training</i>	
Rui Wang, Xuemeng Hu, Deyu Zhou, Yulan He, Yuxuan Xiong, Chenchen Ye and Haiyang Xu	340
<i>Text Classification with Negative Supervision</i>	
Sora Ohashi, Junya Takayama, Tomoyuki Kajiwara, Chenhui Chu and Yuki Arase	351
<i>Content Word Aware Neural Machine Translation</i>	
Kehai Chen, Rui Wang, Masao Utiyama and Eiichiro Sumita	358
<i>Evaluating Explanation Methods for Neural Machine Translation</i>	
Jierui Li, Lemao Liu, Huayang Li, Guanlin Li, Guoping Huang and Shuming Shi	365

<i>Jointly Masked Sequence-to-Sequence Model for Non-Autoregressive Neural Machine Translation</i> Junliang Guo, Linli Xu and Enhong Chen	376
<i>Learning Source Phrase Representations for Neural Machine Translation</i> Hongfei Xu, Josef van Genabith, Deyi Xiong, Qiuhui Liu and Jingyi Zhang	386
<i>Lipschitz Constrained Parameter Initialization for Deep Transformers</i> Hongfei Xu, Qiuhui Liu, Josef van Genabith, Deyi Xiong and Jingyi Zhang	397
<i>Location Attention for Extrapolation to Longer Sequences</i> Yann Dubois, Gautier Dagan, Dieuwke Hupkes and Elia Bruni	403
<i>Multiscale Collaborative Deep Models for Neural Machine Translation</i> Xiangpeng Wei, Heng Yu, Yue Hu, Yue Zhang, Rongxiang Weng and Weihua Luo	414
<i>Norm-Based Curriculum Learning for Neural Machine Translation</i> Xuebo Liu, Houtim Lai, Derek F. Wong and Lidia S. Chao	427
<i>Opportunistic Decoding with Timely Correction for Simultaneous Translation</i> Renjie Zheng, Mingbo Ma, Baigong Zheng, Kaibo Liu and Liang Huang	437
<i>A Formal Hierarchy of RNN Architectures</i> William Merrill, Gail Weiss, Yoav Goldberg, Roy Schwartz, Noah A. Smith and Eran Yahav ..	443
<i>A Three-Parameter Rank-Frequency Relation in Natural Languages</i> Chenchen Ding, Masao Utiyama and Eiichiro Sumita	460
<i>Dice Loss for Data-imbalanced NLP Tasks</i> Xiaoya Li, Xiaofei Sun, Yuxian Meng, Junjun Liang, Fei Wu and Jiwei Li	465
<i>Emergence of Syntax Needs Minimal Supervision</i> Raphaël Bailly and Kata Gábor	477
<i>Language Models as an Alternative Evaluator of Word Order Hypotheses: A Case Study in Japanese</i> Tatsuki Kuribayashi, Takumi Ito, Jun Suzuki and Kentaro Inui	488
<i>GCAN: Graph-aware Co-Attention Networks for Explainable Fake News Detection on Social Media</i> Yi-Ju Lu and Cheng-Te Li	505
<i>Integrating Semantic and Structural Information with Graph Convolutional Network for Controversy Detection</i> Lei Zhong, Juan Cao, Qiang Sheng, Junbo Guo and Ziang Wang	515
<i>Predicting the Topical Stance and Political Leaning of Media using Tweets</i> Peter Stefanov, Kareem Darwish, Atanas Atanasov and Preslav Nakov	527
<i>Simple, Interpretable and Stable Method for Detecting Words with Usage Change across Corpora</i> Hila Gonen, Ganesh Jawahar, Djamé Seddah and Yoav Goldberg	538
<i>CDL: Curriculum Dual Learning for Emotion-Controllable Response Generation</i> Lei Shen and Yang Feng	556
<i>Efficient Dialogue State Tracking by Selectively Overwriting Memory</i> Sungdong Kim, Sohee Yang, Gyuwan Kim and Sang-Woo Lee	567

<i>End-to-End Neural Pipeline for Goal-Oriented Dialogue Systems using GPT-2</i> Donghoon Ham, Jeong-Gwan Lee, Youngsoo Jang and Kee-Eung Kim	583
<i>Evaluating Dialogue Generation Systems via Response Selection</i> Shiki Sato, Reina Akama, Hiroki Ouchi, Jun Suzuki and Kentaro Inui	593
<i>Gated Convolutional Bidirectional Attention-based Model for Off-topic Spoken Response Detection</i> Yefei Zha, Ruobing Li and Hui Lin	600
<i>Learning Low-Resource End-To-End Goal-Oriented Dialog for Fast and Reliable System Deployment</i> Yinpei Dai, Hangyu Li, Chengguang Tang, Yongbin Li, Jian Sun and Xiaodan Zhu	609
<i>Learning to Tag OOV Tokens by Integrating Contextual Representation and Background Knowledge</i> Keqing He, Yuanmeng Yan and Weiran XU	619
<i>Multi-Agent Task-Oriented Dialog Policy Learning with Role-Aware Reward Decomposition</i> Ryuichi Takanobu, Runze Liang and Minlie Huang	625
<i>Paraphrase Augmented Task-Oriented Dialog Generation</i> Silin Gao, Yichi Zhang, Zhijian Ou and Zhou Yu	639
<i>Response-Anticipated Memory for On-Demand Knowledge Integration in Response Generation</i> Zhiliang Tian, Wei Bi, Dongkyu Lee, Lanqing Xue, YIPING SONG, Xiaojiang Liu and Nevin L. Zhang	650
<i>Semi-Supervised Dialogue Policy Learning via Stochastic Reward Estimation</i> Xinting Huang, Jianzhong Qi, Yu Sun and Rui Zhang	660
<i>Towards Unsupervised Language Understanding and Generation by Joint Dual Learning</i> Shang-Yu Su, Chao-Wei Huang and Yun-Nung Chen	671
<i>USR: An Unsupervised and Reference Free Evaluation Metric for Dialog Generation</i> Shikib Mehri and Maxine Eskenazi	681
<i>Explicit Semantic Decomposition for Definition Generation</i> Jiahuan Li, Yu Bao, Shujian Huang, Xinyu Dai and Jiajun CHEN	708
<i>Improved Natural Language Generation via Loss Truncation</i> Daniel Kang and Tatsunori Hashimoto	718
<i>Line Graph Enhanced AMR-to-Text Generation with Mix-Order Graph Attention Networks</i> Yanbin Zhao, Lu Chen, Zhi Chen, Ruisheng Cao, Su Zhu and Kai Yu	732
<i>Rigid Formats Controlled Text Generation</i> Piji Li, Haisong Zhang, Xiaojiang Liu and Shuming Shi	742
<i>Syn-QG: Syntactic and Shallow Semantic Rules for Question Generation</i> Kaustubh Dhole and Christopher D. Manning	752
<i>An Online Semantic-enhanced Dirichlet Model for Short Text Stream Clustering</i> Jay Kumar, Junming Shao, Salah Uddin and Wazir Ali	766
<i>Generative Semantic Hashing Enhanced via Boltzmann Machines</i> Lin Zheng, Qinliang Su, Dinghan Shen and Changyou Chen	777

<i>Interactive Construction of User-Centric Dictionary for Text Analytics</i>	
Ryosuke Kohita, Issei Yoshida, Hiroshi Kanayama and Tetsuya Nasukawa	789
<i>Tree-Structured Neural Topic Model</i>	
Masaru Isonuma, Junichiro Mori, Danushka Bollegala and Ichiro Sakata	800
<i>Unsupervised FAQ Retrieval with Question Generation and BERT</i>	
Yosi Mass, Boaz Carmeli, Haggai Roitman and David Konopnicki	807
<i>"The Boating Store Had Its Best Sail Ever": Pronunciation-attentive Contextualized Pun Recognition</i>	
Yichao Zhou, Jyun-Yu Jiang, Jieyu Zhao, Kai-Wei Chang and Wei Wang	813
<i>Fast and Accurate Deep Bidirectional Language Representations for Unsupervised Learning</i>	
Joongbo Shin, Yoonhyung Lee, Seunghyun Yoon and Kyomin Jung	823
<i>Fine-grained Interest Matching for Neural News Recommendation</i>	
Heyuan Wang, Fangzhao Wu, Zheng Liu and Xing Xie	836
<i>Interpretable Operational Risk Classification with Semi-Supervised Variational Autoencoder</i>	
Fan Zhou, Shengming Zhang and Yi Yang	846
<i>Interpreting Twitter User Geolocation</i>	
Ting Zhong, Tianliang Wang, Fan Zhou, Goce Trajcevski, Kunpeng Zhang and Yi Yang	853
<i>Modeling Code-Switch Languages Using Bilingual Parallel Corpus</i>	
Grandee Lee and Haizhou Li	860
<i>SpellGCN: Incorporating Phonological and Visual Similarities into Language Models for Chinese Spelling Check</i>	
Xingyi Cheng, Weidi Xu, Kunlong Chen, Shaohua Jiang, Feng Wang, Taifeng Wang, Wei Chu and Yuan Qi	871
<i>Spelling Error Correction with Soft-Masked BERT</i>	
Shaohua Zhang, Haoran Huang, Jicong Liu and Hang Li	882
<i>A Frame-based Sentence Representation for Machine Reading Comprehension</i>	
Shaoru Guo, Ru Li, Hongye Tan, Xiaoli Li, Yong Guan, Hongyan Zhao and Yueping Zhang ..	891
<i>A Methodology for Creating Question Answering Corpora Using Inverse Data Annotation</i>	
Jan Deriu, Katsiaryna Mlynchik, Philippe Schläpfer, Alvaro Rodrigo, Dirk von Grünigen, Nicolas Kaiser, Kurt Stockinger, Eneko Agirre and Mark Cieliebak	897
<i>Contextualized Sparse Representations for Real-Time Open-Domain Question Answering</i>	
Jinhyuk Lee, Minjoon Seo, Hannaneh Hajishirzi and Jaewoo Kang	912
<i>Dynamic Sampling Strategies for Multi-Task Reading Comprehension</i>	
Ananth Gottumukkala, Dheeru Dua, Sameer Singh and Matt Gardner	920
<i>Enhancing Answer Boundary Detection for Multilingual Machine Reading Comprehension</i>	
Fei Yuan, Linjun Shou, Xuanyu Bai, Ming Gong, Yaobo Liang, Nan Duan, Yan Fu and Daxin Jiang	925
<i>Explicit Memory Tracker with Coarse-to-Fine Reasoning for Conversational Machine Reading</i>	
Yifan Gao, Chien-Sheng Wu, Shafiq Joty, Caiming Xiong, Richard Socher, Irwin King, Michael Lyu and Steven C.H. Hoi	935

<i>Injecting Numerical Reasoning Skills into Language Models</i> Mor Geva, Ankit Gupta and Jonathan Berant	946
<i>Learning to Identify Follow-Up Questions in Conversational Question Answering</i> Souvik Kundu, Qian Lin and Hwee Tou Ng	959
<i>Query Graph Generation for Answering Multi-hop Complex Questions from Knowledge Bases</i> Yunshi Lan and Jing Jiang	969
<i>A Diverse Corpus for Evaluating and Developing English Math Word Problem Solvers</i> Shen-yun Miao, Chao-Chun Liang and Keh-Yih Su	975
<i>Improving Image Captioning Evaluation by Considering Inter References Variance</i> Yanzhi Yi, Hangyu Deng and Jinglu Hu	985
<i>Revisiting the Context Window for Cross-lingual Word Embeddings</i> Ryokan Ri and Yoshimasa Tsuruoka	995
<i>Moving Down the Long Tail of Word Sense Disambiguation with Gloss Informed Bi-encoders</i> Terra Blevins and Luke Zettlemoyer	1006
<i>Code-Switching Patterns Can Be an Effective Route to Improve Performance of Downstream NLP Applications: A Case Study of Humour, Sarcasm and Hate Speech Detection</i> Srijan Bansal, Vishal Garimella, Ayush Suhane, Jasabanta Patro and Animesh Mukherjee	1018
<i>DTCA: Decision Tree-based Co-Attention Networks for Explainable Claim Verification</i> Lianwei Wu, Yuan Rao, yongqiang zhao, Hao Liang and Ambreen Nazir	1024
<i>Towards Conversational Recommendation over Multi-Type Dialogs</i> Zeming Liu, Haifeng Wang, Zheng-Yu Niu, Hua Wu, Wanxiang Che and Ting Liu	1036
<i>Unknown Intent Detection Using Gaussian Mixture Model with an Application to Zero-shot Intent Classification</i> Guangfeng Yan, Lu Fan, Qimai Li, Han Liu, Xiaotong Zhang, Xiao-Ming Wu and Albert Y.S. Lam	1050
<i>Expertise Style Transfer: A New Task Towards Better Communication between Experts and Laymen</i> Yixin Cao, Ruihao Shui, Liangming Pan, Min-Yen Kan, Zhiyuan Liu and Tat-Seng Chua	1061
<i>Towards Faithful Neural Table-to-Text Generation with Content-Matching Constraints</i> Zhenyi Wang, Xiaoyang Wang, Bang An, Dong Yu and Changyou Chen	1072
<i>Dynamic Memory Induction Networks for Few-Shot Text Classification</i> Ruiying Geng, Binhua Li, Yongbin Li, Jian Sun and Xiaodan Zhu	1087
<i>Exclusive Hierarchical Decoding for Deep Keyphrase Generation</i> Wang Chen, Hou Pong Chan, Piji Li and Irwin King	1095
<i>Hierarchy-Aware Global Model for Hierarchical Text Classification</i> Jie Zhou, Chunping Ma, Dingkun Long, Guangwei Xu, Ning Ding, Haoyu Zhang, Pengjun Xie and Gongshen Liu	1106
<i>Keyphrase Generation for Scientific Document Retrieval</i> Florian Boudin, Ygor Gallina and Akiko Aizawa	1118

<i>A Graph Auto-encoder Model of Derivational Morphology</i>	
Valentin Hofmann, Hinrich Schütze and Janet Pierrehumbert	1127
<i>Building a User-Generated Content North-African Arabizi Treebank: Tackling Hell</i>	
Djamé Seddah, Farah Essaidi, Amal Fethi, Matthieu Futral, Benjamin Muller, Pedro Javier Ortiz Suárez, Benoît Sagot and Abhishek Srivastava	1139
<i>Crawling and Preprocessing Mailing Lists At Scale for Dialog Analysis</i>	
Janek Bevendorff, Khalid Al Khatib, Martin Potthast and Benno Stein	1151
<i>Fine-Grained Analysis of Cross-Linguistic Syntactic Divergences</i>	
Dmitry Nikolaev, Ofir Arviv, Taelin Karidi, Neta Kenneth, Veronika Mitnik, Lilja Maria Saeboe and Omri Abend	1159
<i>Generating Counter Narratives against Online Hate Speech: Data and Strategies</i>	
Serra Sinem Tekiroğlu, Yi-Ling Chung and Marco Guerini	1177
<i>KLEJ: Comprehensive Benchmark for Polish Language Understanding</i>	
Piotr Rybak, Robert Mroczkowski, Janusz Tracz and Ireneusz Gawlik	1191
<i>Learning and Evaluating Emotion Lexicons for 91 Languages</i>	
Sven Buechel, Susanna Rücker and Udo Hahn	1202
<i>Multi-Hypothesis Machine Translation Evaluation</i>	
Marina Fomicheva, Lucia Specia and Francisco Guzmán	1218
<i>Multimodal Quality Estimation for Machine Translation</i>	
Shu Okabe, Frédéric Blain and Lucia Specia	1233
<i>PuzzLing Machines: A Challenge on Learning From Small Data</i>	
Gözde Gül Şahin, Yova Kementchedjheva, Phillip Rust and Iryna Gurevych	1241
<i>The SOFC-Exp Corpus and Neural Approaches to Information Extraction in the Materials Science Domain</i>	
Annemarie Friedrich, Heike Adel, Federico Tomazic, Johannes Hingerl, Renou Benteau, Anika Maruszyk and Lukas Lange	1255
<i>The TechQA Dataset</i>	
Vittorio Castelli, Rishav Chakravarti, Saswati Dana, Anthony Ferritto, Radu Florian, Martin Franz, Dinesh Garg, Dinesh Khandelwal, Scott McCarley, Michael McCawley, Mohamed Nasr, Lin Pan, Cezar Pendus, John Pitrelli, Saurabh Pujar, Salim Roukos, Andrzej Sakrajda, Avi Sil, Rosario Uceda-Sosa, Todd Ward and Rong Zhang	1269
<i>iSarcasm: A Dataset of Intended Sarcasm</i>	
Silviu Oprea and Walid Magdy	1279
<i>AMR Parsing via Graph-Sequence Iterative Inference</i>	
Deng Cai and Wai Lam	1290
<i>A Large-Scale Multi-Document Summarization Dataset from the Wikipedia Current Events Portal</i>	
Demian Gholipour Ghalandari, Chris Hokamp, Nghia The Pham, John Glover and Georgiana Ifrim	1302
<i>Attend, Translate and Summarize: An Efficient Method for Neural Cross-Lingual Summarization</i>	
Junnan Zhu, Yu Zhou, Jiajun Zhang and Chengqing Zong	1309

<i>Examining the State-of-the-Art in News Timeline Summarization</i>	
Demian Gholipour Ghalandari and Georgiana Ifrim	1322
<i>Improving Truthfulness of Headline Generation</i>	
Kazuki Matsumaru, Sho Takase and Naoaki Okazaki	1335
<i>SUPERT: Towards New Frontiers in Unsupervised Evaluation Metrics for Multi-Document Summarization</i>	
Yang Gao, Wei Zhao and Steffen Eger	1347
<i>Self-Attention Guided Copy Mechanism for Abstractive Summarization</i>	
Song Xu, Haoran Li, Peng Yuan, Youzheng Wu, Xiaodong He and Bowen Zhou	1355
<i>Beyond User Self-Reported Likert Scale Ratings: A Comparison Model for Automatic Dialog Evaluation</i>	
Weixin Liang, James Zou and Zhou Yu	1363
<i>Conversational Word Embedding for Retrieval-Based Dialog System</i>	
Wentao Ma, Yiming Cui, Ting Liu, Dong Wang, Shijin Wang and Guoping Hu	1375
<i>Few-shot Slot Tagging with Collapsed Dependency Transfer and Label-enhanced Task-adaptive Projection Network</i>	
Yutai Hou, Wanxiang Che, Yongkui Lai, Zhihan Zhou, Yijia Liu, Han Liu and Ting Liu	1381
<i>Learning Dialog Policies from Weak Demonstrations</i>	
Gabriel Gordon-Hall, Philip John Gorinski and Shay B. Cohen	1394
<i>MuTual: A Dataset for Multi-Turn Dialogue Reasoning</i>	
Leyang Cui, Yu Wu, Shujie Liu, Yue Zhang and Ming Zhou	1406
<i>You Impress Me: Dialogue Generation via Mutual Persona Perception</i>	
Qian Liu, Yihong Chen, Bei Chen, Jian-Guang LOU, Zixuan Chen, Bin Zhou and Dongmei Zhang	1417
<i>Bridging Anaphora Resolution as Question Answering</i>	
Yufang Hou	1428
<i>Dialogue Coherence Assessment Without Explicit Dialogue Act Labels</i>	
Mohsen Mesgar, Sebastian Bückner and Iryna Gurevych	1439
<i>Fast and Accurate Non-Projective Dependency Tree Linearization</i>	
Xiang Yu, Simon Tannert, Ngoc Thang Vu and Jonas Kuhn	1451
<i>Semantic Graphs for Generating Deep Questions</i>	
Liangming Pan, Yuxi Xie, Yansong Feng, Tat-Seng Chua and Min-Yen Kan	1463
<i>A Novel Cascade Binary Tagging Framework for Relational Triple Extraction</i>	
Zhepei Wei, Jianlin Su, Yue Wang, Yuan Tian and Yi Chang	1476
<i>In Layman's Terms: Semi-Open Relation Extraction from Scientific Texts</i>	
Ruben Kruiper, Julian Vincent, Jessica Chen-Burger, Marc Desmulliez and Ioannis Konstas ..	1489
<i>NAT: Noise-Aware Training for Robust Neural Sequence Labeling</i>	
Marcin Namysl, Sven Behnke and Joachim Köhler	1501
<i>Named Entity Recognition without Labelled Data: A Weak Supervision Approach</i>	
Pierre Lison, Jeremy Barnes, Aliaksandr Hubin and Samia Touileb	1518

<i>Probing Linguistic Features of Sentence-Level Representations in Relation Extraction</i> Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig	1534
<i>Reasoning with Latent Structure Refinement for Document-Level Relation Extraction</i> Guoshun Nan, Zhijiang Guo, Ivan Sekulic and Wei Lu	1546
<i>TACRED Revisited: A Thorough Evaluation of the TACRED Relation Extraction Task</i> Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig	1558
<i>Bilingual Dictionary Based Neural Machine Translation without Using Parallel Sentences</i> Xiangyu Duan, Baijun Ji, Hao Jia, Min Tan, Min Zhang, Boxing Chen, Weihua Luo and Yue Zhang 1570	
<i>Boosting Neural Machine Translation with Similar Translations</i> Jitao XU, Josep Crego and Jean Senellart	1580
<i>Character-Level Translation with Self-attention</i> Yingqiang Gao, Nikola I. Nikolov, Yuhuang Hu and Richard H.R. Hahnloser	1591
<i>End-to-End Neural Word Alignment Outperforms GIZA++</i> Thomas Zenkel, Joern Wuebker and John DeNero	1605
<i>Enhancing Machine Translation with Dependency-Aware Self-Attention</i> Emanuele Bugliarello and Naoaki Okazaki	1618
<i>Improving Massively Multilingual Neural Machine Translation and Zero-Shot Translation</i> Biao Zhang, Philip Williams, Ivan Titov and Rico Sennrich	1628
<i>It's Easier to Translate out of English than into it: Measuring Neural Translation Difficulty by Cross-Mutual Information</i> Emanuele Bugliarello, Sabrina J. Mielke, Antonios Anastasopoulos, Ryan Cotterell and Naoaki Okazaki	1640
<i>Language-aware Interlingua for Multilingual Neural Machine Translation</i> Changfeng Zhu, Heng Yu, Shanbo Cheng and Weihua Luo	1650
<i>On the Limitations of Cross-lingual Encoders as Exposed by Reference-Free Machine Translation Evaluation</i> Wei Zhao, Goran Glavaš, Maxime Peyrard, Yang Gao, Robert West and Steffen Eger	1656
<i>Parallel Sentence Mining by Constrained Decoding</i> Pinzhen Chen, Nikolay Bogoychev, Kenneth Heafield and Faheem Kirefu	1672
<i>Self-Attention with Cross-Lingual Position Representation</i> Liang Ding, Longyue Wang and Dacheng Tao	1679
<i>“You Sound Just Like Your Father” Commercial Machine Translation Systems Include Stylistic Biases</i> Dirk Hovy, Federico Bianchi and Tommaso Fornaciari	1686
<i>MMPE: A Multi-Modal Interface for Post-Editing Machine Translation</i> Nico Herbig, Tim Düwel, Santanu Pal, Kalliopi Meladaki, Mahsa Monshizadeh, Antonio Krüger and Josef van Genabith	1691
<i>A Monolingual Approach to Contextualized Word Embeddings for Mid-Resource Languages</i> Pedro Javier Ortiz Suárez, Laurent Romary and Benoît Sagot	1703

<i>Will-They-Won't-They: A Very Large Dataset for Stance Detection on Twitter</i>	
Costanza Conforti, Jakob Berndt, Mohammad Taher Pilehvar, Chryssi Giannitsarou, Flavio Toxvaerd and Nigel Collier	1715
<i>A Systematic Assessment of Syntactic Generalization in Neural Language Models</i>	
Jennifer Hu, Jon Gauthier, Peng Qian, Ethan Wilcox and Roger Levy	1725
<i>Inflecting When There's No Majority: Limitations of Encoder-Decoder Neural Networks as Cognitive Models for German Plurals</i>	
Kate McCurdy, Sharon Goldwater and Adam Lopez	1745
<i>Overestimation of Syntactic Representation in Neural Language Models</i>	
Jordan Kodner and Nitish Gupta	1757
<i>Suspense in Short Stories is Predicted By Uncertainty Reduction over Neural Story Representation</i>	
David Wilmot and Frank Keller	1763
<i>You Don't Have Time to Read This: An Exploration of Document Reading Time Prediction</i>	
Orion Weller, Jordan Hildebrandt, Ilya Reznik, Christopher Challis, E. Shannon Tass, Quinn Snell and Kevin Seppi	1789
<i>A Generative Model for Joint Natural Language Understanding and Generation</i>	
Bo-Hsiang Tseng, Jianpeng Cheng, Yimai Fang and David Vandyke	1795
<i>Automatic Detection of Generated Text is Easiest when Humans are Fooled</i>	
Daphne Ippolito, Daniel Duckworth, Chris Callison-Burch and Douglas Eck	1808
<i>Multi-Domain Neural Machine Translation with Word-Level Adaptive Layer-wise Domain Mixing</i>	
Haoming Jiang, Chen Liang, Chong Wang and Tuo Zhao	1823
<i>Conversational Graph Grounded Policy Learning for Open-Domain Conversation Generation</i>	
Jun Xu, Haifeng Wang, Zheng-Yu Niu, Hua Wu, Wanxiang Che and Ting Liu	1835
<i>GPT-too: A Language-Model-First Approach for AMR-to-Text Generation</i>	
Manuel Mager, Ramón Fernandez Astudillo, Tahira Naseem, Md Arafat Sultan, Young-Suk Lee, Radu Florian and Salim Roukos	1846
<i>Learning to Update Natural Language Comments Based on Code Changes</i>	
Sheena Panthaplackel, Pengyu Nie, Milos Gligoric, Junyi Jessy Li and Raymond Mooney ...	1853
<i>Politeness Transfer: A Tag and Generate Approach</i>	
Aman Madaan, Amrith Setlur, Tanmay Parekh, Barnabas Poczoz, Graham Neubig, Yiming Yang, Ruslan Salakhutdinov, Alan W Black and Shrimai Prabhunoye	1869
<i>BPE-Dropout: Simple and Effective Subword Regularization</i>	
Ivan Provilkov, Dmitrii Emelianenko and Elena Voita	1882
<i>Improving Non-autoregressive Neural Machine Translation with Monolingual Data</i>	
Jiawei Zhou and Phillip Keung	1893
<i>Attend to Medical Ontologies: Content Selection for Clinical Abstractive Summarization</i>	
Sajad Sotudeh Gharebagh, Nazli Goharian and Ross Filice	1899
<i>On Faithfulness and Factuality in Abstractive Summarization</i>	
Joshua Maynez, Shashi Narayan, Bernd Bohnet and Ryan McDonald	1906

<i>Screenplay Summarization Using Latent Narrative Structure</i>	
Pinelopi Papalampidi, Frank Keller, Lea Frermann and Mirella Lapata	1920
<i>Unsupervised Opinion Summarization with Noising and Denoising</i>	
Reinald Kim Amplayo and Mirella Lapata	1934
<i>A Tale of Two Perplexities: Sensitivity of Neural Language Models to Lexical Retrieval Deficits in Dementia of the Alzheimer’s Type</i>	
Trevor Cohen and Serguei Pakhomov	1946
<i>Probing Linguistic Systematicity</i>	
Emily Goodwin, Koustuv Sinha and Timothy J. O’Donnell	1958
<i>Recollection versus Imagination: Exploring Human Memory and Cognition via Neural Language Models</i>	
Maarten Sap, Eric horvitz, Yejin Choi, Noah A. Smith and James Pennebaker	1970
<i>Recurrent Neural Network Language Models Always Learn English-Like Relative Clause Attachment</i>	
Forrest Davis and Marten van Schijndel	1979
<i>Speakers enhance contextually confusable words</i>	
Eric Meinhardt, Eric Bakovic and Leon Bergen	1991
<i>What determines the order of adjectives in English? Comparing efficiency-based theories using dependency treebanks</i>	
Richard Futrell, William Dyer and Greg Scontras	2003
<i>"None of the Above": Measure Uncertainty in Dialog Response Retrieval</i>	
Yulan Feng, Shikib Mehri, Maxine Eskenazi and Tiancheng Zhao	2013
<i>Can You Put it All Together: Evaluating Conversational Agents’ Ability to Blend Skills</i>	
Eric Michael Smith, Mary Williamson, Kurt Shuster, Jason Weston and Y-Lan Boureau	2021
<i>Grounded Conversation Generation as Guided Traverses in Commonsense Knowledge Graphs</i>	
Houyu Zhang, Zhenghao Liu, Chenyan Xiong and Zhiyuan Liu	2031
<i>Negative Training for Neural Dialogue Response Generation</i>	
Tianxing He and James Glass	2044
<i>Recursive Template-based Frame Generation for Task Oriented Dialog</i>	
Rashmi Gangadharaiah and Balakrishnan Narayanaswamy	2059
<i>Speak to your Parser: Interactive Text-to-SQL with Natural Language Feedback</i>	
Ahmed Elgohary, saghar Hosseini and Ahmed Hassan Awadallah	2065
<i>Calibrating Structured Output Predictors for Natural Language Processing</i>	
Abhyuday Jagannatha and hong yu	2078
<i>Active Imitation Learning with Noisy Guidance</i>	
Kianté Brantley, Hal Daumé III and Amr Sharaf	2093
<i>ExpBERT: Representation Engineering with Natural Language Explanations</i>	
Shikhar Murty, Pang Wei Koh and Percy Liang	2106

<i>GAN-BERT: Generative Adversarial Learning for Robust Text Classification with a Bunch of Labeled Examples</i>	
Danilo Croce, Giuseppe Castellucci and Roberto Basili	2114
<i>Generalizing Natural Language Analysis through Span-relation Representations</i>	
Zhengbao Jiang, Wei Xu, Jun Araki and Graham Neubig	2120
<i>Learning to Contextually Aggregate Multi-Source Supervision for Sequence Labeling</i>	
Ouyu Lan, Xiao Huang, Bill Yuchen Lin, He Jiang, Liyuan Liu and Xiang Ren	2134
<i>MixText: Linguistically-Informed Interpolation of Hidden Space for Semi-Supervised Text Classification</i>	
Jiaao Chen, Zichao Yang and Diyi Yang	2147
<i>MobileBERT: a Compact Task-Agnostic BERT for Resource-Limited Devices</i>	
Zhiqing Sun, Hongkun Yu, Xiaodan Song, Renjie Liu, Yiming Yang and Denny Zhou	2158
<i>On Importance Sampling-Based Evaluation of Latent Language Models</i>	
Robert L Logan IV, Matt Gardner and Sameer Singh	2171
<i>SMART: Robust and Efficient Fine-Tuning for Pre-trained Natural Language Models through Principled Regularized Optimization</i>	
Haoming Jiang, Pengcheng He, Weizhu Chen, Xiaodong Liu, Jianfeng Gao and Tuo Zhao	2177
<i>Stolen Probability: A Structural Weakness of Neural Language Models</i>	
David Demeter, Gregory Kimmel and Doug Downey	2191
<i>Taxonomy Construction of Unseen Domains via Graph-based Cross-Domain Knowledge Transfer</i>	
Chao Shang, Sarthak Dash, Md. Faisal Mahbub Chowdhury, Nandana Mihindukulasooriya and Alfio Gliozzo	2198
<i>To Pretrain or Not to Pretrain: Examining the Benefits of Pretraining on Resource Rich Tasks</i>	
Sinong Wang, Madian Khabsa and Hao Ma	2209
<i>Why Overfitting Isn't Always Bad: Retrofitting Cross-Lingual Word Embeddings to Dictionaries</i>	
Mozhi Zhang, Yoshinari Fujinuma, Michael J. Paul and Jordan Boyd-Graber	2214
<i>XtremeDistil: Multi-stage Distillation for Massive Multilingual Models</i>	
Subhabrata Mukherjee and Ahmed Hassan Awadallah	2221
<i>A Girl Has A Name: Detecting Authorship Obfuscation</i>	
Asad Mahmood, Zubair Shafiq and Padmini Srinivasan	2235
<i>DeeBERT: Dynamic Early Exiting for Accelerating BERT Inference</i>	
Ji Xin, Raphael Tang, Jaejun Lee, Yaoliang Yu and Jimmy Lin	2246
<i>Efficient Strategies for Hierarchical Text Classification: External Knowledge and Auxiliary Tasks</i>	
Kervy Rivas Rojas, Gina Bustamante, Arturo Oncevay and Marco Antonio Sobrevilla Cabezudo	2252
<i>Investigating the effect of auxiliary objectives for the automated grading of learner English speech transcriptions</i>	
Hannah Craighead, Andrew Caines, Paula Buttery and Helen Yannakoudakis	2258
<i>SPECTER: Document-level Representation Learning using Citation-informed Transformers</i>	
Arman Cohan, Sergey Feldman, Iz Beltagy, Doug Downey and Daniel Weld	2270

<i>Semantic Scaffolds for Pseudocode-to-Code Generation</i>	
Ruiqi Zhong, Mitchell Stern and Dan Klein	2283
<i>Can We Predict New Facts with Open Knowledge Graph Embeddings? A Benchmark for Open Link Prediction</i>	
Samuel Broscheit, Kiril Gashteovski, Yanjie Wang and Rainer Gemulla	2296
<i>INFOTABS: Inference on Tables as Semi-structured Data</i>	
Vivek Gupta, Maitrey Mehta, Pegah Nokhiz and Vivek Srikumar	2309
<i>Interactive Machine Comprehension with Information Seeking Agents</i>	
Xingdi Yuan, Jie Fu, Marc-Alexandre Côté, Yi Tay, Chris Pal and Adam Trischler	2325
<i>Syntactic Data Augmentation Increases Robustness to Inference Heuristics</i>	
Junghyun Min, R. Thomas McCoy, Dipanjan Das, Emily Pitler and Tal Linzen	2339
<i>Improved Speech Representations with Multi-Target Autoregressive Predictive Coding</i>	
Yu-An Chung and James Glass	2353
<i>Integrating Multimodal Information in Large Pretrained Transformers</i>	
Wasifur Rahman, Md Kamrul Hasan, Sangwu Lee, AmirAli Bagher Zadeh, Chengfeng Mao, Louis-Philippe Morency and Ehsan Hoque	2359
<i>MultiQT: Multimodal learning for real-time question tracking in speech</i>	
Jakob D. Havtorn, Jan Latko, Joakim Edin, Lars Maaløe, Lasse Borgholt, Lorenzo Belgrano, Nicolai Jacobsen, Regitze Sdun and Željko Agić	2370
<i>Multimodal and Multiresolution Speech Recognition with Transformers</i>	
Georgios Paraskevopoulos, Srinivas Parthasarathy, Aparna Khare and Shiva Sundaram	2381
<i>Phone Features Improve Speech Translation</i>	
Elizabeth Salesky and Alan W Black	2388
<i>Grounding Conversations with Improvised Dialogues</i>	
Hyundong Cho and Jonathan May	2398
<i>Image-Chat: Engaging Grounded Conversations</i>	
Kurt Shuster, Samuel Humeau, Antoine Bordes and Jason Weston	2414
<i>Learning an Unreferenced Metric for Online Dialogue Evaluation</i>	
Koustuv Sinha, Prasanna Parthasarathi, Jasmine Wang, Ryan Lowe, William L. Hamilton and Joelle Pineau	2430
<i>Neural Generation of Dialogue Response Timings</i>	
Matthew Roddy and Naomi Harte	2442
<i>The Dialogue Dodecaathlon: Open-Domain Knowledge and Image Grounded Conversational Agents</i>	
Kurt Shuster, Da JU, Stephen Roller, Emily Dinan, Y-Lan Boureau and Jason Weston	2453
<i>Automatic Poetry Generation from Prosaic Text</i>	
Tim Van de Cruys	2471
<i>Bridging the Structural Gap Between Encoding and Decoding for Data-To-Text Generation</i>	
Chao Zhao, Marilyn Walker and Snigdha Chaturvedi	2481

<i>Enabling Language Models to Fill in the Blanks</i>	
Chris Donahue, Mina Lee and Percy Liang	2492
<i>INSET: Sentence Infilling with INter-SEntential Transformer</i>	
Yichen Huang, Yizhe Zhang, Oussama Elachqar and Yu Cheng	2502
<i>Improving Adversarial Text Generation by Modeling the Distant Future</i>	
Ruiyi Zhang, Changyou Chen, Zhe Gan, Wenlin Wang, Dinghan Shen, Guoyin Wang, Zheng Wen and Lawrence Carin	2516
<i>Simple and Effective Retrieve-Edit-Rerank Text Generation</i>	
Nabil Hossain, Marjan Ghazvininejad and Luke Zettlemoyer	2532
<i>BabyWalk: Going Farther in Vision-and-Language Navigation by Taking Baby Steps</i>	
Wang Zhu, Hexiang Hu, Jiacheng Chen, Zhiwei Deng, Vihan Jain, Eugene Ie and Fei Sha . . .	2539
<i>Cross-media Structured Common Space for Multimedia Event Extraction</i>	
Manling Li, Alireza Zareian, Qi Zeng, Spencer Whitehead, Di Lu, Heng Ji and Shih-Fu Chang	2557
<i>Learning to Segment Actions from Observation and Narration</i>	
Daniel Fried, Jean-Baptiste Alayrac, Phil Blunsom, Chris Dyer, Stephen Clark and Aida Ne-matzadeh	2569
<i>Learning to execute instructions in a Minecraft dialogue</i>	
Prashant Jayannavar, Anjali Narayan-Chen and Julia Hockenmaier	2589
<i>MART: Memory-Augmented Recurrent Transformer for Coherent Video Paragraph Captioning</i>	
Jie Lei, Liwei Wang, Yelong Shen, Dong Yu, Tamara Berg and Mohit Bansal	2603
<i>What is Learned in Visually Grounded Neural Syntax Acquisition</i>	
Noriyuki Kojima, Hadar Averbuch-Elor, Alexander Rush and Yoav Artzi	2615
<i>A Batch Normalized Inference Network Keeps the KL Vanishing Away</i>	
Qile Zhu, Wei Bi, Xiaojiang Liu, Xiyao Ma, Xiaolin Li and Dapeng Wu	2636
<i>Contextual Embeddings: When Are They Worth It?</i>	
Simran Arora, Avner May, Jian Zhang and Christopher Ré	2650
<i>Interactive Classification by Asking Informative Questions</i>	
Lili Yu, Howard Chen, Sida I. Wang, Tao Lei and Yoav Artzi	2664
<i>Knowledge Graph Embedding Compression</i>	
Mrinmaya Sachan	2681
<i>Low Resource Sequence Tagging using Sentence Reconstruction</i>	
Tal Perl, Sriram Chaudhury and Raja Giryes	2692
<i>Masked Language Model Scoring</i>	
Julian Salazar, Davis Liang, Toan Q. Nguyen and Katrin Kirchhoff	2699
<i>Orthogonal Relation Transforms with Graph Context Modeling for Knowledge Graph Embedding</i>	
Yun Tang, Jing Huang, Guangtao Wang, Xiaodong He and Bowen Zhou	2713
<i>Posterior Calibrated Training on Sentence Classification Tasks</i>	
Taehee Jung, Dongyeop Kang, Hua Cheng, Lucas Mentch and Thomas Schaaf	2723

<i>Posterior Control of Blackbox Generation</i>	
Xiang Lisa Li and Alexander Rush	2731
<i>Pretrained Transformers Improve Out-of-Distribution Robustness</i>	
Dan Hendrycks, Xiaoyuan Liu, Eric Wallace, Adam Dziedzić, Rishabh Krishnan and Dawn Song	
2744	
<i>Robust Encodings: A Framework for Combating Adversarial Typos</i>	
Erik Jones, Robin Jia, Aditi Raghunathan and Percy Liang	2752
<i>Showing Your Work Doesn't Always Work</i>	
Raphael Tang, Jaejun Lee, Ji Xin, Xinyu Liu, Yaoliang Yu and Jimmy Lin.....	2766
<i>Span Selection Pre-training for Question Answering</i>	
Michael Glass, Alfio Gliozzo, Rishav Chakravarti, Anthony Ferritto, Lin Pan, G P Shrivatsa Bhargav, Dinesh Garg and Avi Sil	2773
<i>Topological Sort for Sentence Ordering</i>	
Shrimai Prabhumoye, Ruslan Salakhutdinov and Alan W Black	2783
<i>Weight Poisoning Attacks on Pretrained Models</i>	
Keita Kurita, Paul Michel and Graham Neubig	2793
<i>schuBERT: Optimizing Elements of BERT</i>	
Ashish Khetan and Zohar Karnin.....	2807
<i>ENGINE: Energy-Based Inference Networks for Non-Autoregressive Machine Translation</i>	
Lifu Tu, Richard Yuanzhe Pang, Sam Wiseman and Kevin Gimpel.....	2819
<i>Leveraging Monolingual Data with Self-Supervision for Multilingual Neural Machine Translation</i>	
Aditya Siddhant, Ankur Bapna, Yuan Cao, Orhan Firat, Mia Chen, Sneha Kudugunta, Naveen Arivazhagan and Yonghui Wu	2827
<i>On The Evaluation of Machine Translation Systems Trained With Back-Translation</i>	
Sergey Edunov, Myle Ott, Marc' Aurelio Ranzato and Michael Auli.....	2836
<i>Simultaneous Translation Policies: From Fixed to Adaptive</i>	
Baigong Zheng, Kaibo Liu, Renjie Zheng, Mingbo Ma, Hairong Liu and Liang Huang	2847
<i>Breaking Through the 80% Glass Ceiling: Raising the State of the Art in Word Sense Disambiguation by Incorporating Knowledge Graph Information</i>	
Michele Bevilacqua and Roberto Navigli	2854
<i>Glyph2Vec: Learning Chinese Out-of-Vocabulary Word Embedding from Glyphs</i>	
Hong-You Chen, SZ-HAN YU and Shou-de Lin	2865
<i>Multidirectional Associative Optimization of Function-Specific Word Representations</i>	
Daniela Gerz, Ivan Vulić, Marek Rei, Roi Reichart and Anna Korhonen	2872
<i>Predicting Degrees of Technicality in Automatic Terminology Extraction</i>	
Anna Häty, Dominik Schlechtweg, Michael Dorna and Sabine Schulte im Walde	2883
<i>Verbal Multiword Expressions for Identification of Metaphor</i>	
Omid Rohanian, Marek Rei, Shiva Taslimipour and Le An Ha	2890

<i>Gender Bias in Multilingual Embeddings and Cross-Lingual Transfer</i> Jieyu Zhao, Subhabrata Mukherjee, saghar Hosseini, Kai-Wei Chang and Ahmed Hassan Awadallah	2896
<i>Give Me Convenience and Give Her Death: Who Should Decide What Uses of NLP are Appropriate, and on What Basis?</i> kobi leins, Jey Han Lau and Timothy Baldwin	2908
<i>Is Your Classifier Actually Biased? Measuring Fairness under Uncertainty with Bernstein Bounds</i> Kawin Ethayarajh	2914
<i>It's Morphin' Time! Combating Linguistic Discrimination with Inflectional Perturbations</i> Samson Tan, Shafiq Joty, Min-Yen Kan and Richard Socher	2920
<i>Mitigating Gender Bias Amplification in Distribution by Posterior Regularization</i> Shengyu Jia, Tao Meng, Jieyu Zhao and Kai-Wei Chang	2936
<i>Towards Understanding Gender Bias in Relation Extraction</i> Andrew Gaut, Tony Sun, Shirlyn Tang, Yuxin Huang, Jing Qian, Mai ElSherief, Jieyu Zhao, Diba Mirza, Elizabeth Belding, Kai-Wei Chang and William Yang Wang	2943
<i>A Probabilistic Generative Model for Typographical Analysis of Early Modern Printing</i> Kartik Goyal, Chris Dyer, Christopher Warren, Maxwell G'Sell and Taylor Berg-Kirkpatrick	2954
<i>Attentive Pooling with Learnable Norms for Text Representation</i> Chuhan Wu, Fangzhao Wu, Tao Qi, Xiaohui Cui and Yongfeng Huang	2961
<i>Estimating the influence of auxiliary tasks for multi-task learning of sequence tagging tasks</i> Fynn Schröder and Chris Biemann	2971
<i>How Does Selective Mechanism Improve Self-Attention Networks?</i> Xinwei Geng, Longyue Wang, Xing Wang, Bing Qin, Ting Liu and Zhaopeng Tu	2986
<i>Improving Transformer Models by Reordering their Sublayers</i> Ofir Press, Noah A. Smith and Omer Levy	2996
<i>Single Model Ensemble using Pseudo-Tags and Distinct Vectors</i> Ryosuke Kuwabara, Jun Suzuki and Hideki Nakayama	3006
<i>Zero-shot Text Classification via Reinforced Self-training</i> Zhiquan Ye, Yuxia Geng, Jiaoyan Chen, Jingmin Chen, Xiaoxiao Xu, SuHang Zheng, Feng Wang, Jun Zhang and Huajun Chen	3014
<i>A Novel Graph-based Multi-modal Fusion Encoder for Neural Machine Translation</i> Yongjing Yin, Fandong Meng, Jinsong Su, Chulun Zhou, Zhengyuan Yang, Jie Zhou and Jiebo Luo	3025
<i>A Relaxed Matching Procedure for Unsupervised BLI</i> Xu Zhao, Zihao Wang, Yong Zhang and Hao Wu	3036
<i>Dynamic Programming Encoding for Subword Segmentation in Neural Machine Translation</i> Xuanli He, Gholamreza Haffari and Mohammad Norouzi	3042
<i>Geometry-aware domain adaptation for unsupervised alignment of word embeddings</i> Pratik Jawanpuria, Mayank Meghwanshi and Bamdev Mishra	3052

<i>Learning to Recover from Multi-Modality Errors for Non-Autoregressive Neural Machine Translation</i> Qiu Ran, Yankai Lin, Peng Li and Jie Zhou	3059
<i>On the Inference Calibration of Neural Machine Translation</i> Shuo Wang, Zhaopeng Tu, Shuming Shi and Yang Liu	3070
<i>Camouflaged Chinese Spam Content Detection with Semi-supervised Generative Active Learning</i> Zhuoren Jiang, Zhe Gao, Yu Duan, Yangyang Kang, Changlong Sun, Qiong Zhang and Xiaozhong Liu	3080
<i>Distinguish Confusing Law Articles for Legal Judgment Prediction</i> Nuo Xu, Pinghui Wang, Long Chen, Li Pan, Xiaoyan Wang and Junzhou Zhao	3086
<i>Hiring Now: A Skill-Aware Multi-Attention Model for Job Posting Generation</i> Liting Liu, Jie Liu, Wenzheng Zhang, Ziming Chi, Wenxuan Shi and Yalou Huang	3096
<i>HyperCore: Hyperbolic and Co-graph Representation for Automatic ICD Coding</i> Pengfei Cao, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong	3105
<i>Hyperbolic Capsule Networks for Multi-Label Classification</i> Boli Chen, Xin Huang, Lin Xiao and Liping Jing	3115
<i>Improving Segmentation for Technical Support Problems</i> Kushal Chauhan and Abhirut Gupta	3125
<i>MOOCube: A Large-scale Data Repository for NLP Applications in MOOCs</i> Jifan Yu, Gan Luo, Tong Xiao, Qingyang Zhong, Yuquan Wang, wenzheng feng, Junyi Luo, Chenyu Wang, Lei Hou, Juanzi Li, Zhiyuan Liu and Jie Tang	3135
<i>Towards Interpretable Clinical Diagnosis with Bayesian Network Ensembles Stacked on Entity-Aware CNNs</i> Jun Chen, Xiaoya Dai, Quan Yuan, Chao Lu and Haifeng Huang	3143
<i>Analyzing the Persuasive Effect of Style in News Editorial Argumentation</i> Roxanne El Baff, Henning Wachsmuth, Khalid Al Khatib and Benno Stein	3154
<i>ECPE-2D: Emotion-Cause Pair Extraction based on Joint Two-Dimensional Representation, Interaction and Prediction</i> Zixiang Ding, Rui Xia and Jianfei Yu	3161
<i>Effective Inter-Clause Modeling for End-to-End Emotion-Cause Pair Extraction</i> Penghui Wei, Jiahao Zhao and Wenji Mao	3171
<i>Embarrassingly Simple Unsupervised Aspect Extraction</i> Stéphan Tulkens and Andreas van Cranenburgh	3182
<i>Enhancing Cross-target Stance Detection with Transferable Semantic-Emotion Knowledge</i> Bowen Zhang, Min Yang, Xutao Li, Yunming Ye, Xiaofei Xu and Kuai Dai	3188
<i>KinGDOM: Knowledge-Guided DOMain Adaptation for Sentiment Analysis</i> Deepanway Ghosal, Devamanyu Hazarika, Abhinaba Roy, Navonil Majumder, Rada Mihalcea and Soujanya Poria	3198
<i>Modelling Context and Syntactical Features for Aspect-based Sentiment Analysis</i> Minh Hieu Phan and Philip O. Ogunbona	3211

<i>Parallel Data Augmentation for Formality Style Transfer</i> Yi Zhang, Tao Ge and Xu SUN	3221
<i>Relational Graph Attention Network for Aspect-based Sentiment Analysis</i> Kai Wang, Weizhou Shen, Yunyi Yang, Xiaojun Quan and Rui Wang	3229
<i>SpanMlt: A Span-based Multi-Task Learning Framework for Pair-wise Aspect and Opinion Terms Extraction</i> He Zhao, Longtao Huang, Rong Zhang, Quan Lu and hui xue	3239
<i>Syntax-Aware Opinion Role Labeling with Dependency Graph Convolutional Networks</i> Bo Zhang, Yue Zhang, Rui Wang, Zhenghua Li and Min Zhang	3249
<i>Towards Better Non-Tree Argument Mining: Proposition-Level Biaffine Parsing with Task-Specific Parameterization</i> Gaku Morio, Hiroaki Ozaki, Terufumi Morishita, Yuta Koreeda and Kohsuke Yanai	3259
<i>A Span-based Linearization for Constituent Trees</i> Yang Wei, Yuanbin Wu and Man Lan	3267
<i>An Empirical Comparison of Unsupervised Constituency Parsing Methods</i> Jun Li, Yifan Cao, Jiong Cai, Yong Jiang and Kewei Tu	3278
<i>Efficient Constituency Parsing by Pointing</i> Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li	3284
<i>Efficient Second-Order TreeCRF for Neural Dependency Parsing</i> Yu Zhang, Zhenghua Li and Min Zhang	3295
<i>Representations of Syntax [MASK] Useful: Effects of Constituency and Dependency Structure in Recursive LSTMs</i> Michael Lepori, Tal Linzen and R. Thomas McCoy	3306
<i>Structure-Level Knowledge Distillation For Multilingual Sequence Labeling</i> Xinyu Wang, Yong Jiang, Nguyen Bach, Tao Wang, Fei Huang and Kewei Tu	3317
<i>Dynamic Online Conversation Recommendation</i> Xingshan Zeng, Jing Li, Lu Wang, Zhiming Mao and Kam-Fai Wong	3331
<i>Improving Multimodal Named Entity Recognition via Entity Span Detection with Unified Multimodal Transformer</i> Jianfei Yu, Jing Jiang, Li Yang and Rui Xia	3342
<i>Stock Embeddings Acquired from News Articles and Price History, and an Application to Portfolio Optimization</i> Xin Du and Kumiko Tanaka-Ishii	3353
<i>What Was Written vs. Who Read It: News Media Profiling Using Text Analysis and Social Media Context</i> Ramy Baly, Georgi Karadzhov, Jisun An, Haewoon Kwak, Yoan Dinkov, Ahmed Ali, James Glass and Preslav Nakov	3364
<i>An Analysis of the Utility of Explicit Negative Examples to Improve the Syntactic Abilities of Neural Language Models</i> Hiroshi Noji and Hiroya Takamura	3375

<i>On the Robustness of Language Encoders against Grammatical Errors</i> Fan Yin, Quanyu Long, Tao Meng and Kai-Wei Chang	3386
<i>Roles and Utilization of Attention Heads in Transformer-based Neural Language Models</i> Jae-young Jo and Sung-Hyon Myaeng	3404
<i>Understanding Attention for Text Classification</i> Xiaobing Sun and Wei Lu	3418
<i>A Relational Memory-based Embedding Model for Triple Classification and Search Personalization</i> Dai Quoc Nguyen, Tu Nguyen and Dinh Phung	3429
<i>Do you have the right scissors? Tailoring Pre-trained Language Models via Monte-Carlo Methods</i> Ning Miao, Yuxuan Song, Hao Zhou and Lei Li	3436
<i>Enhancing Pre-trained Chinese Character Representation with Word-aligned Attention</i> Yanzeng Li, Bowen Yu, Xue Mengge and Tingwen Liu	3442
<i>On the Encoder-Decoder Incompatibility in Variational Text Modeling and Beyond</i> Chen Wu, Prince Zizhuang Wang and William Yang Wang	3449
<i>SAFER: A Structure-free Approach for Certified Robustness to Adversarial Word Substitutions</i> Mao Ye, Chengyue Gong and Qiang Liu	3465
<i>A Graph-based Coarse-to-fine Method for Unsupervised Bilingual Lexicon Induction</i> Shuo Ren, Shujie Liu, Ming Zhou and Shuai Ma	3476
<i>A Reinforced Generation of Adversarial Examples for Neural Machine Translation</i> wei zou, Shujian Huang, Jun Xie, Xinyu Dai and Jiajun CHEN	3486
<i>A Retrieve-and-Rewrite Initialization Method for Unsupervised Machine Translation</i> Shuo Ren, Yu Wu, Shujie Liu, Ming Zhou and Shuai Ma	3498
<i>A Simple and Effective Unified Encoder for Document-Level Machine Translation</i> Shuming Ma, Dongdong Zhang and Ming Zhou	3505
<i>Does Multi-Encoder Help? A Case Study on Context-Aware Neural Machine Translation</i> Bei Li, Hui Liu, Ziyang Wang, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li 3512	
<i>Dynamically Adjusting Transformer Batch Size by Monitoring Gradient Direction Change</i> Hongfei Xu, Josef van Genabith, Deyi Xiong and Qiuhui Liu	3519
<i>Knowledge Distillation for Multilingual Unsupervised Neural Machine Translation</i> Haipeng Sun, Rui Wang, Kehai Chen, Masao Utiyama, Eiichiro Sumita and Tiejun Zhao	3525
<i>Lexically Constrained Neural Machine Translation with Levenshtein Transformer</i> Raymond HENDY Susanto, Shamil Chollampatt and Liling Tan	3536
<i>On Exposure Bias, Hallucination and Domain Shift in Neural Machine Translation</i> Chaojun Wang and Rico Sennrich	3544
<i>Automatic Machine Translation Evaluation using Source Language Inputs and Cross-lingual Language Model</i> Kosuke Takahashi, Katsuhito Sudoh and Satoshi Nakamura	3553

<i>ChartDialogs: Plotting from Natural Language Instructions</i> Yutong Shao and Ndapa Nakashole	3559
<i>GLUECoS: An Evaluation Benchmark for Code-Switched NLP</i> Simran Khanuja, Sandipan Dandapat, Anirudh Srinivasan, Sunayana Sitaram and Monojit Choudhury	3575
<i>MATINF: A Jointly Labeled Large-Scale Dataset for Classification, Question Answering and Summarization</i> Canwen Xu, Jiaxin Pei, Hongtao Wu, Yiyu Liu and Chenliang Li	3586
<i>MIND: A Large-scale Dataset for News Recommendation</i> Fangzhao Wu, Ying Qiao, Jiun-Hung Chen, Chuhan Wu, Tao Qi, Jianxun Lian, Danyang Liu, Xing Xie, Jianfeng Gao, Winnie Wu and Ming Zhou	3597
<i>That is a Known Lie: Detecting Previously Fact-Checked Claims</i> Shaden Shaar, Nikolay Babulkov, Giovanni Da San Martino and Preslav Nakov	3607
<i>Towards Holistic and Automatic Evaluation of Open-Domain Dialogue Generation</i> Bo Pang, Erik Nijkamp, Wenjuan Han, Linqi Zhou, Yixian Liu and Kewei Tu	3619
<i>BiRRE: Learning Bidirectional Residual Relation Embeddings for Supervised Hypernymy Detection</i> Chengyu Wang and XIAOFENG HE	3630
<i>Biomedical Entity Representations with Synonym Marginalization</i> Mujeen Sung, Hwisang Jeon, Jinhyuk Lee and Jaewoo Kang	3641
<i>Hypernymy Detection for Low-Resource Languages via Meta Learning</i> Changlong Yu, Jialong Han, Haisong Zhang and Wilfred Ng	3651
<i>Investigating Word-Class Distributions in Word Vector Spaces</i> Ryohei Sasano and Anna Korhonen	3657
<i>Aspect Sentiment Classification with Document-level Sentiment Preference Modeling</i> Xiao Chen, Changlong Sun, Jingjing Wang, Shoushan Li, Luo Si, Min Zhang and Guodong Zhou	3667
<i>Don't Eclipse Your Arts Due to Small Discrepancies: Boundary Repositioning with a Pointer Network for Aspect Extraction</i> Zhenkai Wei, Yu Hong, Bowei Zou, Meng Cheng and Jianmin YAO	3678
<i>Relation-Aware Collaborative Learning for Unified Aspect-Based Sentiment Analysis</i> Zhuang Chen and Tiejun Qian	3685
<i>SentiBERT: A Transferable Transformer-Based Architecture for Compositional Sentiment Semantics</i> Da Yin, Tao Meng and Kai-Wei Chang	3695
<i>Transition-based Directed Graph Construction for Emotion-Cause Pair Extraction</i> Chuang Fan, Chaofa Yuan, Jiachen Du, Lin Gui, Min Yang and Ruifeng Xu	3707
<i>CH-SIMS: A Chinese Multimodal Sentiment Analysis Dataset with Fine-grained Annotation of Modality</i> Wenmeng Yu, Hua Xu, Fanyang Meng, Yilin Zhu, Yixiao Ma, Jiele Wu, Jiyun Zou and Kaicheng Yang	3718
<i>Curriculum Pre-training for End-to-End Speech Translation</i> Chengyi Wang, Yu Wu, Shujie Liu, Ming Zhou and Zhenglu Yang	3728

<i>How Accents Confound: Probing for Accent Information in End-to-End Speech Recognition Systems</i> Archiki Prasad and Preethi Jyothi	3739
<i>Improving Disfluency Detection by Self-Training a Self-Attentive Model</i> Paria Jamshid Lou and Mark Johnson	3754
<i>Learning Spoken Language Representations with Neural Lattice Language Modeling</i> Chao-Wei Huang and Yun-Nung Chen	3764
<i>Meta-Transfer Learning for Code-Switched Speech Recognition</i> Genta Indra Winata, Samuel Cahyawijaya, Zhaojiang Lin, Zihan Liu, Peng Xu and Pascale Fung 3770	
<i>Reasoning with Multimodal Sarcastic Tweets via Modeling Cross-Modality Contrast and Semantic Association</i> Nan Xu, Zhixiong Zeng and Wenji Mao	3777
<i>SimulSpeech: End-to-End Simultaneous Speech to Text Translation</i> Yi Ren, Jinglin Liu, Xu Tan, Chen Zhang, Tao QIN, Zhou Zhao and Tie-Yan Liu	3787
<i>Towards end-2-end learning for predicting behavior codes from spoken utterances in psychotherapy conversations</i> Karan Singla, Zhuohao Chen, David Atkins and Shrikanth Narayanan	3797
<i>Neural Temporal Opinion Modelling for Opinion Prediction on Twitter</i> Lixing Zhu, Yulan He and Deyu Zhou	3804
<i>It Takes Two to Lie: One to Lie, and One to Listen</i> Denis Peskov, Benny Cheng, Ahmed Elgohary, Joe Barrow, Cristian Danescu-Niculescu-Mizil and Jordan Boyd-Graber	3811
<i>Learning Implicit Text Generation via Feature Matching</i> Inkit Padhi, Pierre Dognin, Ke Bai, Cícero Nogueira dos Santos, Vijil Chenthamarakshan, Youssef Mroueh and Payel Das	3855
<i>Two Birds, One Stone: A Simple, Unified Model for Text Generation from Structured and Unstructured Data</i> Hamidreza Shahidi, Ming Li and Jimmy Lin	3864
<i>Bayesian Hierarchical Words Representation Learning</i> Oren Barkan, Idan Rejwan, Avi Caciularu and Noam Koenigstein	3871
<i>Pre-training Is (Almost) All You Need: An Application to Commonsense Reasoning</i> Alexandre Tamborrino, Nicola Pellicanò, Baptiste Pannier, Pascal Voitot and Louise Naudin ..	3878
<i>SEEK: Segmented Embedding of Knowledge Graphs</i> Wentao Xu, Shun Zheng, Liang He, Bin Shao, Jian Yin and Tie-Yan Liu	3888
<i>Selecting Backtranslated Data from Multiple Sources for Improved Neural Machine Translation</i> Xabier Soto, Dimitar Shterionov, Alberto Poncelas and Andy Way	3898
<i>Successfully Applying the Stabilized Lottery Ticket Hypothesis to the Transformer Architecture</i> Christopher Brix, Parnia Bahar and Hermann Ney	3909
<i>A Self-Training Method for Machine Reading Comprehension with Soft Evidence Extraction</i> Yilin Niu, Fangkai Jiao, Mantong Zhou, Ting Yao, jingfang xu and Minlie Huang	3916

<i>Graph-to-Tree Learning for Solving Math Word Problems</i>	
Jipeng Zhang, Lei Wang, Roy Ka-Wei Lee, Yi Bin, Yan Wang, Jie Shao and Ee-Peng Lim . . .	3928
<i>An Effectiveness Metric for Ordinal Classification: Formal Properties and Experimental Results</i>	
Enrique Amigo, Julio Gonzalo, Stefano Mizzaro and Jorge Carrillo-de-Albornoz	3938
<i>Adaptive Compression of Word Embeddings</i>	
Yeachan Kim, Kang-Min Kim and SangKeun Lee	3950
<i>Analysing Lexical Semantic Change with Contextualised Word Representations</i>	
Mario Giulianelli, Marco Del Tredici and Raquel Fernández	3960
<i>Autoencoding Keyword Correlation Graph for Document Clustering</i>	
Billy Chiu, Sunil Kumar Sahu, Derek Thomas, Neha Sengupta and Mohammady Mahdy	3974
<i>Autoencoding Pixies: Amortised Variational Inference with Graph Convolutions for Functional Distributional Semantics</i>	
Guy Emerson	3982
<i>BERTRAM: Improved Word Embeddings Have Big Impact on Contextualized Model Performance</i>	
Timo Schick and Hinrich Schütze	3996
<i>CluBERT: A Cluster-Based Approach for Learning Sense Distributions in Multiple Languages</i>	
Tommaso Pasini, Federico Scozzafava and Bianca Scarlini	4008
<i>Adversarial and Domain-Aware BERT for Cross-Domain Sentiment Analysis</i>	
Chunning Du, Haifeng Sun, Jingyu Wang, Qi Qi and Jianxin Liao	4019
<i>From Arguments to Key Points: Towards Automatic Argument Summarization</i>	
Roy Bar-Haim, Lilach Eden, Roni Friedman, Yoav Kantor, Dan Lahav and Noam Slonim	4029
<i>GoEmotions: A Dataset of Fine-Grained Emotions</i>	
Dorottya Demszky, Dana Movshovitz-Attias, Jeongwoo Ko, Alan Cowen, Gaurav Nemade and Sujith Ravi	4040
<i>He said "who's gonna take care of your children when you are at ACL?": Reported Sexist Acts are Not Sexist</i>	
Patricia Chiril, Véronique MORICEAU, Farah Benamara, Alda Mari, Gloria Origgi and Marlène Coulomb-Gully	4055
<i>SKEP: Sentiment Knowledge Enhanced Pre-training for Sentiment Analysis</i>	
Hao Tian, Can Gao, Xinyan Xiao, Hao Liu, Bolei He, Hua Wu, Haifeng Wang and feng wu . .	4067
<i>Do Neural Language Models Show Preferences for Syntactic Formalisms?</i>	
Artur Kulmizev, Vinit Ravishankar, Mostafa Abdou and Joakim Nivre	4077
<i>Enriched In-Order Linearization for Faster Sequence-to-Sequence Constituent Parsing</i>	
Daniel Fernández-González and Carlos Gómez-Rodríguez	4092
<i>Exact yet Efficient Graph Parsing, Bi-directional Locality and the Constructivist Hypothesis</i>	
Yajie Ye and Weiwei Sun	4100
<i>Max-Margin Incremental CCG Parsing</i>	
Miloš Stanojević and Mark Steedman	4111

<i>Neural Reranking for Dependency Parsing: An Evaluation</i>	
Bich-Ngoc Do and Ines Rehbein	4123
<i>Demographics Should Not Be the Reason of Toxicity: Mitigating Discrimination in Text Classifications with Instance Weighting</i>	
Guanhua Zhang, Bing Bai, Junqi Zhang, Kun Bai, Conghui Zhu and Tiejun Zhao	4134
<i>Analyzing analytical methods: The case of phonology in neural models of spoken language</i>	
Grzegorz Chrupała, Bertrand Higy and Afra Alishahi	4146
<i>Make Up Your Mind! Adversarial Generation of Inconsistent Natural Language Explanations</i>	
Oana-Maria Camburu, Brendan Shillingford, Pasquale Minervini, Thomas Lukasiewicz and Phil Blunsom	4157
<i>Perturbed Masking: Parameter-free Probing for Analyzing and Interpreting BERT</i>	
Zhiyong Wu, Yun Chen, Ben Kao and Qun Liu	4166
<i>Probing for Referential Information in Language Models</i>	
Ionut-Teodor Sorodoc, Kristina Gulordava and Gemma Boleda	4177
<i>Quantifying Attention Flow in Transformers</i>	
Samira Abnar and Willem Zuidema	4190
<i>Towards Faithfully Interpretable NLP Systems: How Should We Define and Evaluate Faithfulness?</i>	
Alon Jacovi and Yoav Goldberg	4198
<i>Towards Transparent and Explainable Attention Models</i>	
Akash Kumar Mohankumar, Preksha Nema, Sharan Narasimhan, Mitesh M. Khapra, Balaji Vasanth Srinivasan and Balaraman Ravindran	4206
<i>Tchebycheff Procedure for Multi-task Text Classification</i>	
Yuren Mao, Shuang Yun, Weiwei Liu and Bo Du	4217
<i>Modeling Word Formation in English–German Neural Machine Translation</i>	
Marion Weller-Di Marco and Alexander Fraser	4227
<i>Empowering Active Learning to Jointly Optimize System and User Demands</i>	
Ji-Ung Lee, Christian M. Meyer and Iryna Gurevych	4233
<i>Encoder-Decoder Models Can Benefit from Pre-trained Masked Language Models in Grammatical Error Correction</i>	
Masahiro Kaneko, Masato Mita, Shun Kiyono, Jun Suzuki and Kentaro Inui	4248
<i>Graph Neural News Recommendation with Unsupervised Preference Disentanglement</i>	
Linmei Hu, Siyong Xu, Chen Li, Cheng Yang, Chuan Shi, Nan Duan, Xing Xie and Ming Zhou	4255
<i>Identifying Principals and Accessories in a Complex Case based on the Comprehension of Fact Description</i>	
Yakun Hu, Zhunchen Luo and Wenhan Chao	4265
<i>Joint Modelling of Emotion and Abusive Language Detection</i>	
Santhosh Rajamanickam, Pushkar Mishra, Helen Yannakoudakis and Ekaterina Shutova	4270

<i>Programming in Natural Language with fuSE: Synthesizing Methods from Spoken Utterances Using Deep Natural Language Understanding</i>	
Sebastian Weigelt, Vanessa Steurer, Tobias Hey and Walter F. Tichy	4280
<i>Toxicity Detection: Does Context Really Matter?</i>	
John Pavlopoulos, Jeffrey Sorensen, Lucas Dixon, Nithum Thain and Ion Androutsopoulos ..	4296
<i>AMR Parsing with Latent Structural Information</i>	
Qiji Zhou, Yue Zhang, Donghong Ji and Hao Tang	4306
<i>TaPas: Weakly Supervised Table Parsing via Pre-training</i>	
Jonathan Herzig, Pawel Krzysztof Nowak, Thomas Müller, Francesco Piccinno and Julian Eisen- schlos	4320
<i>Target Inference in Argument Conclusion Generation</i>	
Milad Alshomary, Shahbaz Syed, Martin Potthast and Henning Wachsmuth	4334
<i>Multimodal Transformer for Multimodal Machine Translation</i>	
Shaowei Yao and Xiaojun Wan	4346
<i>Sentiment and Emotion help Sarcasm? A Multi-task Learning Framework for Multi-Modal Sarcasm, Sentiment and Emotion Analysis</i>	
Dushyant Singh Chauhan, Dhanush S R, Asif Ekbal and Pushpak Bhattacharyya	4351
<i>Towards Emotion-aided Multi-modal Dialogue Act Classification</i>	
Tulika Saha, Aditya Patra, Sriparna Saha and Pushpak Bhattacharyya	4361
<i>Analyzing Political Parody in Social Media</i>	
Antonios Maronikolakis, Danae Sánchez Villegas, Daniel Preotiuc-Pietro and Nikolaos Aletras	4373
<i>Masking Actor Information Leads to Fairer Political Claims Detection</i>	
Erenay Dayanik and Sebastian Padó	4385
<i>When do Word Embeddings Accurately Reflect Surveys on our Beliefs About People?</i>	
Kenneth Joseph and Jonathan Morgan	4392
<i>“Who said it, and Why?” Provenance for Natural Language Claims</i>	
Yi Zhang, Zachary Ives and Dan Roth	4416
<i>Compositionality and Generalization In Emergent Languages</i>	
Rahma Chaabouni, Eugene Kharitonov, Diane Bouchacourt, Emmanuel Dupoux and Marco Baroni	4427
<i>ERASER: A Benchmark to Evaluate Rationalized NLP Models</i>	
Jay DeYoung, Sarthak Jain, Nazneen Fatema Rajani, Eric Lehman, Caiming Xiong, Richard Socher and Byron C. Wallace	4443
<i>Learning to Faithfully Rationalize by Construction</i>	
Sarthak Jain, Sarah Wiegrefe, Yuval Pinter and Byron C. Wallace	4459
<i>Clinical Reading Comprehension: A Thorough Analysis of the emrQA Dataset</i>	
Xiang Yue, Bernal Jimenez Gutierrez and Huan Sun	4474
<i>DeFormer: Decomposing Pre-trained Transformers for Faster Question Answering</i>	
Qingqing Cao, Harsh Trivedi, Aruna Balasubramanian and Niranjana Balasubramanian	4487

<i>Improving Multi-hop Question Answering over Knowledge Graphs using Knowledge Base Embeddings</i> Apoorv Saxena, Aditay Tripathi and Partha Talukdar	4498
<i>Template-Based Question Generation from Retrieved Sentences for Improved Unsupervised Question Answering</i> Alexander Fabbri, Patrick Ng, Zhiguo Wang, Ramesh Nallapati and Bing Xiang	4508
<i>Unsupervised Alignment-based Iterative Evidence Retrieval for Multi-hop Question Answering</i> Vikas Yadav, Steven Bethard and Mihai Surdeanu	4514
<i>A Corpus for Large-Scale Phonetic Typology</i> Elizabeth Salesky, Eleanor Chodroff, Tiago Pimentel, Matthew Wiesner, Ryan Cotterell, Alan W Black and Jason Eisner	4526
<i>Dscorer: A Fast Evaluation Metric for Discourse Representation Structure Parsing</i> Jiangming Liu, Shay B. Cohen and Mirella Lapata	4547
<i>ParaCrawl: Web-Scale Acquisition of Parallel Corpora</i> Marta Bañón, Pinzhen Chen, Barry Haddow, Kenneth Heafield, Hieu Hoang, Miquel Esplà-Gomis, Mikel L. Forcada, Amir Kamran, Faheem Kirefu, Philipp Koehn, Sergio Ortiz Rojas, Leopoldo Pla Sempere, Gema Ramírez-Sánchez, Elsa Sarrías, Marek Strelec, Brian Thompson, William Waites, Dion Wiggins and Jaume Zaragoza	4555
<i>Toward Gender-Inclusive Coreference Resolution</i> Yang Trista Cao and Hal Daumé III	4568
<i>Human Attention Maps for Text Classification: Do Humans and Neural Networks Focus on the Same Words?</i> Cansu Sen, Thomas Hartvigsen, Biao Yin, Xiangnan Kong and Elke Rundensteiner	4596
<i>Information-Theoretic Probing for Linguistic Structure</i> Tiago Pimentel, Josef Valvoda, Rowan Hall Maudslay, Ran Zmigrod, Adina Williams and Ryan Cotterell	4609
<i>On the Cross-lingual Transferability of Monolingual Representations</i> Mikel Artetxe, Sebastian Ruder and Dani Yogatama	4623
<i>Similarity Analysis of Contextual Word Representation Models</i> John Wu, Yonatan Belinkov, Hassan Sajjad, Nadir Durrani, Fahim Dalvi and James Glass ...	4638
<i>SenseBERT: Driving Some Sense into BERT</i> Yoav Levine, Barak Lenz, Or Dagan, Ori Ram, Dan Padnos, Or Sharir, Shai Shalev-Shwartz, Amnon Shashua and Yoav Shoham	4656
<i>ASSET: A Dataset for Tuning and Evaluation of Sentence Simplification Models with Multiple Rewriting Transformations</i> Fernando Alva-Manchego, Louis Martin, Antoine Bordes, Carolina Scarton, Benoît Sagot and Lucia Specia	4668
<i>Fatality Killed the Cat or: BabelPic, a Multimodal Dataset for Non-Concrete Concepts</i> Agostina Calabrese, Michele Bevilacqua and Roberto Navigli	4680
<i>Modeling Label Semantics for Predicting Emotional Reactions</i> Radhika Gaonkar, Heeyoung Kwon, Mohaddeseh Bastan, Niranjan Balasubramanian and Nathanael Chambers	4687

<i>CraftAssist Instruction Parsing: Semantic Parsing for a Voxel-World Assistant</i> Kavya Srinet, Yacine Jernite, Jonathan Gray and arthur szlam	4693
<i>Don't Say That! Making Inconsistent Dialogue Unlikely with Unlikelihood Training</i> Margaret Li, Stephen Roller, Ilia Kulikov, Sean Welleck, Y-Lan Boureau, Kyunghyun Cho and Jason Weston	4715
<i>How does BERT's attention change when you fine-tune? An analysis methodology and a case study in negation scope</i> Yiyun Zhao and Steven Bethard	4729
<i>Influence Paths for Characterizing Subject-Verb Number Agreement in LSTM Language Models</i> Kaiji Lu, Piotr Mardziel, Klas Leino, Matt Fredrikson and Anupam Datta	4748
<i>Interpreting Pretrained Contextualized Representations via Reductions to Static Embeddings</i> Rishi Bommasani, Kelly Davis and Claire Cardie	4758
<i>Learning to Deceive with Attention-Based Explanations</i> Danish Pruthi, Mansi Gupta, Bhuwan Dhingra, Graham Neubig and Zachary C. Lipton	4782
<i>On the Spontaneous Emergence of Discrete and Compositional Signals</i> Nur Geffen Lan, Emmanuel Chemla and Shane Steinert-Threlkeld	4794
<i>Spying on Your Neighbors: Fine-grained Probing of Contextual Embeddings for Information about Surrounding Words</i> Josef Klafka and Allyson Ettinger	4801
<i>Dense-Caption Matching and Frame-Selection Gating for Temporal Localization in VideoQA</i> Hyounghun Kim, Zineng Tang and Mohit Bansal	4812
<i>Shaping Visual Representations with Language for Few-Shot Classification</i> Jesse Mu, Percy Liang and Noah Goodman	4823
<i>Discrete Latent Variable Representations for Low-Resource Text Classification</i> Shuning Jin, Sam Wiseman, Karl Stratos and Karen Livescu	4831
<i>Learning Constraints for Structured Prediction Using Rectifier Networks</i> Xingyuan Pan, Maitrey Mehta and Vivek Srikumar	4843
<i>Pretraining with Contrastive Sentence Objectives Improves Discourse Performance of Language Models</i> Dan Iter, Kelvin Guu, Larry Lansing and Dan Jurafsky	4859
<i>A Recipe for Creating Multimodal Aligned Datasets for Sequential Tasks</i> Angela Lin, Sudha Rao, Asli Celikyilmaz, Elnaz Nouri, Chris Brockett, Debadeepta Dey and Bill Dolan	4871
<i>Adversarial NLI: A New Benchmark for Natural Language Understanding</i> Yixin Nie, Adina Williams, Emily Dinan, Mohit Bansal, Jason Weston and Douwe Kiela	4885
<i>Beyond Accuracy: Behavioral Testing of NLP Models with CheckList</i> Marco Tulio Ribeiro, Tongshuang Wu, Carlos Guestrin and Sameer Singh	4902
<i>Code and Named Entity Recognition in StackOverflow</i> Jeniya Tabassum, Mounica Maddela, Wei Xu and Alan Ritter	4913

<i>Dialogue-Based Relation Extraction</i>	
Dian Yu, Kai Sun, Claire Cardie and Dong Yu	4927
<i>Facet-Aware Evaluation for Extractive Summarization</i>	
Yuning Mao, Liyuan Liu, Qi Zhu, Xiang Ren and Jiawei Han	4941
<i>More Diverse Dialogue Datasets via Diversity-Informed Data Collection</i>	
Katherine Stasaski, Grace Hui Yang and Marti A. Hearst	4958
<i>S2ORC: The Semantic Scholar Open Research Corpus</i>	
Kyle Lo, Lucy Lu Wang, Mark Neumann, Rodney Kinney and Daniel Weld	4969
<i>Tangled up in BLEU: Reevaluating the Evaluation of Automatic Machine Translation Evaluation Metrics</i>	
Nitika Mathur, Timothy Baldwin and Trevor Cohn	4984
<i>A Transformer-based Approach for Source Code Summarization</i>	
Wasi Ahmad, Saikat Chakraborty, Baishakhi Ray and Kai-Wei Chang	4998
<i>Asking and Answering Questions to Evaluate the Factual Consistency of Summaries</i>	
Alex Wang, Kyunghyun Cho and Mike Lewis	5008
<i>Discourse-Aware Neural Extractive Text Summarization</i>	
Jiacheng Xu, Zhe Gan, Yu Cheng and Jingjing Liu	5021
<i>Discrete Optimization for Unsupervised Sentence Summarization with Word-Level Extraction</i>	
Raphael Schumann, Lili Mou, Yao Lu, Olga Vechtomova and Katja Markert	5032
<i>Exploring Content Selection in Summarization of Novel Chapters</i>	
Faisal Ladhak, Bryan Li, Yaser Al-Onaizan and Kathleen McKeown	5043
<i>FEQA: A Question Answering Evaluation Framework for Faithfulness Assessment in Abstractive Summarization</i>	
Esin Durmus, He He and Mona Diab	5055
<i>Fact-based Content Weighting for Evaluating Abstractive Summarisation</i>	
Xinnuo Xu, Ondřej Dušek, Jingyi Li, Verena Rieser and Ioannis Konstas	5071
<i>Hooks in the Headline: Learning to Generate Headlines with Controlled Styles</i>	
Di Jin, Zhijing Jin, Joey Tianyi Zhou, Lisa Orii and Peter Szolovits	5082
<i>Knowledge Graph-Augmented Abstractive Summarization with Semantic-Driven Cloze Reward</i>	
Luyang Huang, Lingfei Wu and Lu Wang	5094
<i>Optimizing the Factual Correctness of a Summary: A Study of Summarizing Radiology Reports</i>	
Yuhao Zhang, Derek Merck, Emily Tsai, Christopher D. Manning and Curtis Langlotz	5108
<i>Storytelling with Dialogue: A Critical Role Dungeons and Dragons Dataset</i>	
Revanth Rameshkumar and Peter Bailey	5121
<i>The Summary Loop: Learning to Write Abstractive Summaries Without Examples</i>	
Philippe Laban, Andrew Hsi, John Canny and Marti A. Hearst	5135
<i>Unsupervised Opinion Summarization as Copycat-Review Generation</i>	
Arthur Braźniskas, Mirella Lapata and Ivan Titov	5151

<i>(Re)construing Meaning in NLP</i>	
Sean Trott, Tiago Timponi Torrent, Nancy Chang and Nathan Schneider	5170
<i>Climbing towards NLU: On Meaning, Form, and Understanding in the Age of Data</i>	
Emily M. Bender and Alexander Koller	5185
<i>Examining Citations of Natural Language Processing Literature</i>	
Saif M. Mohammad	5199
<i>How Can We Accelerate Progress Towards Human-like Linguistic Generalization?</i>	
Tal Linzen	5210
<i>How Does NLP Benefit Legal System: A Summary of Legal Artificial Intelligence</i>	
Haoxi Zhong, Chaojun Xiao, Cunchao Tu, Tianyang Zhang, Zhiyuan Liu and Maosong Sun .	5218
<i>Intermediate-Task Transfer Learning with Pretrained Language Models: When and Why Does It Work?</i>	
Yada Pruksachatkun, Jason Phang, Haokun Liu, Phu Mon Htut, Xiaoyi Zhang, Richard Yuanzhe Pang, Clara Vania, Katharina Kann and Samuel R. Bowman	5231
<i>Predictive Biases in Natural Language Processing Models: A Conceptual Framework and Overview</i>	
Deven Santosh Shah, H. Andrew Schwartz and Dirk Hovy	5248
<i>What Does BERT with Vision Look At?</i>	
Liunian Harold Li, Mark Yatskar, Da Yin, Cho-Jui Hsieh and Kai-Wei Chang	5265
<i>Balancing Objectives in Counseling Conversations: Advancing Forwards or Looking Backwards</i>	
Justine Zhang and Cristian Danescu-Niculescu-Mizil	5276
<i>Detecting Perceived Emotions in Hurricane Disasters</i>	
Shrey Desai, Cornelia Caragea and Junyi Jessy Li	5290
<i>Hierarchical Modeling for User Personality Prediction: The Role of Message-Level Attention</i>	
Veronica Lynn, Niranjana Balasubramanian and H. Andrew Schwartz	5306
<i>Measuring Forecasting Skill from Text</i>	
Shi Zong, Alan Ritter and Eduard Hovy	5317
<i>Text and Causal Inference: A Review of Using Text to Remove Confounding from Causal Estimates</i>	
Katherine Keith, David Jensen and Brendan O'Connor	5332
<i>Text-Based Ideal Points</i>	
Keyon Vafa, Suresh Naidu and David Blei	5345
<i>Understanding the Language of Political Agreement and Disagreement in Legislative Texts</i>	
Maryam Davoodi, Eric Waltenburg and Dan Goldwasser	5358
<i>Would you Rather? A New Benchmark for Learning Machine Alignment with Cultural Values and Social Preferences</i>	
Yi Tay, Donovan Ong, Jie Fu, Alvin Chan, Nancy Chen, Anh Tuan Luu and Chris Pal	5369
<i>Discourse as a Function of Event: Profiling Discourse Structure in News Articles around the Main Event</i>	
Prafulla Kumar Choubey, Aaron Lee, Ruihong Huang and Lu Wang	5374
<i>Harnessing the linguistic signal to predict scalar inferences</i>	
Sebastian Schuster, Yuxing Chen and Judith Degen	5387

<i>Implicit Discourse Relation Classification: We Need to Talk about Evaluation</i>	
Najoung Kim, Song Feng, Chulaka Gunasekara and Luis Lastras	5404
<i>PeTra: A Sparsely Supervised Memory Model for People Tracking</i>	
Shubham Toshniwal, Allyson Ettinger, Kevin Gimpel and Karen Livescu	5415
<i>ZPR2: Joint Zero Pronoun Recovery and Resolution using Multi-Task Learning and BERT</i>	
Linfeng Song, Kun Xu, Yue Zhang, Jianshu Chen and Dong Yu	5429
<i>Contextualizing Hate Speech Classifiers with Post-hoc Explanation</i>	
Brendan Kennedy, Xisen Jin, Aida Mostafazadeh Davani, Morteza Dehghani and Xiang Ren .	5435
<i>Double-Hard Debias: Tailoring Word Embeddings for Gender Bias Mitigation</i>	
Tianlu Wang, Xi Victoria Lin, Nazneen Fatema Rajani, Bryan McCann, Vicente Ordonez and Caiming Xiong	5443
<i>Language (Technology) is Power: A Critical Survey of "Bias" in NLP</i>	
Su Lin Blodgett, Solon Barocas, Hal Daumé III and Hanna Wallach	5454
<i>Social Bias Frames: Reasoning about Social and Power Implications of Language</i>	
Maarten Sap, Saadia Gabriel, Lianhui Qin, Dan Jurafsky, Noah A. Smith and Yejin Choi	5477
<i>Social Biases in NLP Models as Barriers for Persons with Disabilities</i>	
Ben Hutchinson, Vinodkumar Prabhakaran, Emily Denton, Kellie Webster, Yu Zhong and Stephen Denuyl	5491
<i>Towards Debiasing Sentence Representations</i>	
Paul Pu Liang, Irene Mengze Li, Emily Zheng, Yao Chong Lim, Ruslan Salakhutdinov and Louis-Philippe Morency	5502
<i>A Re-evaluation of Knowledge Graph Completion Methods</i>	
Zhiqing Sun, Shikhar Vashishth, Soumya Sanyal, Partha Talukdar and Yiming Yang	5516
<i>Cross-Linguistic Syntactic Evaluation of Word Prediction Models</i>	
Aaron Mueller, Garrett Nicolai, Panayiota Petrou-Zeniou, Natalia Talmina and Tal Linzen . . .	5523
<i>Evaluating Explainable AI: Which Algorithmic Explanations Help Users Predict Model Behavior?</i>	
Peter Hase and Mohit Bansal	5540
<i>Explaining Black Box Predictions and Unveiling Data Artifacts through Influence Functions</i>	
Xiaochuang Han, Byron C. Wallace and Yulia Tsvetkov	5553
<i>Finding Universal Grammatical Relations in Multilingual BERT</i>	
Ethan A. Chi, John Hewitt and Christopher D. Manning	5564
<i>Generating Hierarchical Explanations on Text Classification via Feature Interaction Detection</i>	
Hanjie Chen, Guangtao Zheng and Yangfeng Ji	5578
<i>Obtaining Faithful Interpretations from Compositional Neural Networks</i>	
Sanjay Subramanian, Ben Bogin, Nitish Gupta, Tomer Wolfson, Sameer Singh, Jonathan Berant and Matt Gardner	5594
<i>Rationalizing Text Matching: Learning Sparse Alignments via Optimal Transport</i>	
Kyle Swanson, Lili Yu and Tao Lei	5609

<i>Benefits of Intermediate Annotations in Reading Comprehension</i> Dheeru Dua, Sameer Singh and Matt Gardner	5627
<i>Crossing Variational Autoencoders for Answer Retrieval</i> Wenhao Yu, Lingfei Wu, Qingkai Zeng, Shu Tao, Yu Deng and Meng Jiang	5635
<i>Logic-Guided Data Augmentation and Regularization for Consistent Question Answering</i> Akari Asai and Hannaneh Hajishirzi	5642
<i>On the Importance of Diversity in Question Generation for QA</i> Md Arafat Sultan, Shubham Chandel, Ramón Fernandez Astudillo and Vittorio Castelli	5651
<i>Probabilistic Assumptions Matter: Improved Models for Distantly-Supervised Document-Level Question Answering</i> Hao Cheng, Ming-Wei Chang, Kenton Lee and Kristina Toutanova	5657
<i>SCDE: Sentence Cloze Dataset with High Quality Distractors From Examinations</i> Xiang Kong, Varun Gangal and Eduard Hovy	5668
<i>Selective Question Answering under Domain Shift</i> Amita Kamath, Robin Jia and Percy Liang	5684
<i>The Cascade Transformer: an Application for Efficient Answer Sentence Selection</i> Luca Soldaini and Alessandro Moschitti	5697
<i>Transformers to Learn Hierarchical Contexts in Multiparty Dialogue for Span-based Question Answering</i> Changmao Li and Jinho D. Choi	5709
<i>Not All Claims are Created Equal: Choosing the Right Statistical Approach to Assess Hypotheses</i> Erfan Sadeqi Azer, Daniel Khashabi, Ashish Sabharwal and Dan Roth	5715
<i>STARC: Structured Annotations for Reading Comprehension</i> Yevgeni Berzak, Jonathan Malmaud and Roger Levy	5726
<i>WinoWhy: A Deep Diagnosis of Essential Commonsense Knowledge for Answering Winograd Schema Challenge</i> Hongming Zhang, Xinran Zhao and Yangqiu Song	5736
<i>Agreement Prediction of Arguments in Cyber Argumentation for Detecting Stance Polarity and Intensity</i> Joseph Sirrianni, Xiaoqing Liu and Douglas Adams	5746
<i>Cross-Lingual Unsupervised Sentiment Classification with Multi-View Transfer Learning</i> Hongliang Fei and Ping Li	5759
<i>Efficient Pairwise Annotation of Argument Quality</i> Lukas Gienapp, Benno Stein, Matthias Hagen and Martin Potthast	5772
<i>Entity-Aware Dependency-Based Deep Graph Attention Network for Comparative Preference Classification</i> Nianzu Ma, Sahisnu Mazumder, Hao Wang and Bing Liu	5782
<i>OpinionDigest: A Simple Framework for Opinion Summarization</i> Yoshihiko Suhara, Xiaolan Wang, Stefanos Angelidis and Wang-Chiew Tan	5789

<i>A Comprehensive Analysis of Preprocessing for Word Representation Learning in Affective Tasks</i> Nastaran Babanejad, Ameeta Agrawal, Aijun An and Manos Papagelis	5799
<i>Diverse and Informative Dialogue Generation with Context-Specific Commonsense Knowledge Awareness</i> Sixing Wu, Ying Li, Dawei Zhang, Yang Zhou and Zhonghai Wu	5811
<i>Generate, Delete and Rewrite: A Three-Stage Framework for Improving Persona Consistency of Dialogue Generation</i> Haoyu Song, Yan Wang, Wei-Nan Zhang, Xiaojiang Liu and Ting Liu	5821
<i>Learning to Customize Model Structures for Few-shot Dialogue Generation Tasks</i> YIPING SONG, Zequn Liu, Wei Bi, Rui Yan and Ming Zhang	5832
<i>Video-Grounded Dialogues with Pretrained Generation Language Models</i> Hung Le and Steven C.H. Hoi	5842
<i>A Unified MRC Framework for Named Entity Recognition</i> Xiaoya Li, Jingrong Feng, Yuxian Meng, Qinghong Han, Fei Wu and Jiwei Li	5849
<i>An Effective Transition-based Model for Discontinuous NER</i> Xiang Dai, Sarvnaz Karimi, Ben Hachey and Cecile Paris	5860
<i>IMoJIE: Iterative Memory-Based Joint Open Information Extraction</i> Keshav Kolluru, Samarth Aggarwal, Vipul Rathore, and Soumen Chakrabarti	5871
<i>Improving Event Detection via Open-domain Trigger Knowledge</i> Meihan Tong, Bin Xu, Shuai Wang, Yixin Cao, Lei Hou, Juanzi Li and Jun Xie	5887
<i>Improving Low-Resource Named Entity Recognition using Joint Sentence and Token Labeling</i> Canasai Kruengkrai, Thien Hai Nguyen, Sharifah Mahani Aljunied and Lidong Bing	5898
<i>Multi-Cell Compositional LSTM for NER Domain Adaptation</i> Chen Jia and Yue Zhang	5906
<i>Pyramid: A Layered Model for Nested Named Entity Recognition</i> Jue WANG, Lidan Shou, Ke Chen and Gang Chen	5918
<i>ReInceptionE: Relation-Aware Inception Network with Joint Local-Global Structural Information for Knowledge Graph Embedding</i> Zhiwen Xie, Guangyou Zhou, Jin Liu and Jimmy Xiangji Huang	5929
<i>Relabel the Noise: Joint Extraction of Entities and Relations via Cooperative Multiagents</i> Daoyuan Chen, Yaliang Li, Kai Lei and Ying Shen	5940
<i>Simplify the Usage of Lexicon in Chinese NER</i> Ruotian Ma, Minlong Peng, Qi Zhang, Zhongyu Wei and Xuanjing Huang	5951
<i>AdvAug: Robust Adversarial Augmentation for Neural Machine Translation</i> Yong Cheng, Lu Jiang, Wolfgang Macherey and Jacob Eisenstein	5961
<i>Contextual Neural Machine Translation Improves Translation of Cataphoric Pronouns</i> KayYen Wong, Sameen Maruf and Gholamreza Haffari	5971
<i>Improving Neural Machine Translation with Soft Template Prediction</i> Jian Yang, Shuming Ma, Dongdong Zhang, Zhoujun Li and Ming Zhou	5979

<i>Tagged Back-translation Revisited: Why Does It Really Work?</i>	
Benjamin Marie, Raphael Rubino and Atsushi Fujita	5990
<i>Worse WER, but Better BLEU? Leveraging Word Embedding as Intermediate in Multitask End-to-End Speech Translation</i>	
Shun-Po Chuang, Tzu-Wei Sung, Alexander H. Liu and Hung-yi Lee	5998
<i>Neural-DINF: A Neural Network based Framework for Measuring Document Influence</i>	
Jie Tan, Changlin Yang, Ying Li, Siliang Tang, Chen Huang and Yueting Zhuang	6004
<i>Paraphrase Generation by Learning How to Edit from Samples</i>	
Amirhossein Kazemnejad, Mohammadreza Salehi and Mahdieh Soleymani Baghshah	6010
<i>Emerging Cross-lingual Structure in Pretrained Language Models</i>	
Alexis Conneau, Shijie Wu, Haoran Li, Luke Zettlemoyer and Veselin Stoyanov	6022
<i>FastBERT: a Self-distilling BERT with Adaptive Inference Time</i>	
Weijie Liu, Peng Zhou, Zhiruo Wang, Zhe Zhao, Haotang Deng and QI JU	6035
<i>Incorporating External Knowledge through Pre-training for Natural Language to Code Generation</i>	
Frank F. Xu, Zhengbao Jiang, Pengcheng Yin, Bogdan Vasilescu and Graham Neubig	6045
<i>LogicalFactChecker: Leveraging Logical Operations for Fact Checking with Graph Module Network</i>	
Wanjun Zhong, Duyu Tang, Zhangyin Feng, Nan Duan, Ming Zhou, Ming Gong, Linjun Shou, Daxin Jiang, Jiahai Wang and Jian Yin	6053
<i>Word-level Textual Adversarial Attacking as Combinatorial Optimization</i>	
Yuan Zang, Fanchao Qi, Chenghao Yang, Zhiyuan Liu, Meng Zhang, Qun Liu and Maosong Sun	6066
<i>Benchmarking Multimodal Regex Synthesis with Complex Structures</i>	
Xi Ye, Qiaochu Chen, Isil Dillig and Greg Durrett	6081
<i>Curriculum Learning for Natural Language Understanding</i>	
Benfeng Xu, Licheng Zhang, Zhendong Mao, Quan Wang, Hongtao Xie and Yongdong Zhang	6095
<i>Do Neural Models Learn Systematicity of Monotonicity Inference in Natural Language?</i>	
Hitomi Yanaka, Koji Mineshima, Daisuke Bekki and Kentaro Inui	6105
<i>Evidence-Aware Inferential Text Generation with Vector Quantised Variational AutoEncoder</i>	
Daya Guo, Duyu Tang, Nan Duan, Jian Yin, Daxin Jiang and Ming Zhou	6118
<i>How to Ask Good Questions? Try to Leverage Paraphrases</i>	
Xin Jia, Wenjie Zhou, Xu SUN and Yunfang Wu	6130
<i>NeuInfer: Knowledge Inference on N-ary Facts</i>	
Saiping Guan, Xiaolong Jin, Jiafeng Guo, Yuanzhuo Wang and Xueqi Cheng	6141
<i>Neural Graph Matching Networks for Chinese Short Text Matching</i>	
Lu Chen, Yanbin Zhao, Boer Lyu, Lesheng Jin, Zhi Chen, Su Zhu and Kai Yu	6152
<i>Neural Mixed Counting Models for Dispersed Topic Discovery</i>	
Jiemin Wu, Yanghui Rao, Zusheng Zhang, Haoran Xie, Qing Li, Fu Lee Wang and Ziyue Chen	6159

<i>Reasoning Over Semantic-Level Graph for Fact Checking</i>	
Wanjun Zhong, Jingjing Xu, Duyu Tang, Zenan Xu, Nan Duan, Ming Zhou, Jiahai Wang and Jian Yin	6170
<i>Automatic Generation of Citation Texts in Scholarly Papers: A Pilot Study</i>	
Xinyu Xing, Xiaosheng Fan and Xiaojun Wan	6181
<i>Composing Elementary Discourse Units in Abstractive Summarization</i>	
Zhenwen Li, Wenhao Wu and Sujian Li	6191
<i>Extractive Summarization as Text Matching</i>	
Ming Zhong, Pengfei Liu, Yiran Chen, Danqing Wang, Xipeng Qiu and Xuanjing Huang	6197
<i>Heterogeneous Graph Neural Networks for Extractive Document Summarization</i>	
Danqing Wang, Pengfei Liu, Yining Zheng, Xipeng Qiu and Xuanjing Huang	6209
<i>Jointly Learning to Align and Summarize for Neural Cross-Lingual Summarization</i>	
Yue Cao, Hui Liu and Xiaojun Wan	6220
<i>Leveraging Graph to Improve Abstractive Multi-Document Summarization</i>	
Wei Li, Xinyan Xiao, Jiachen Liu, Hua Wu, Haifeng Wang and Junping Du	6232
<i>Multi-Granularity Interaction Network for Extractive and Abstractive Multi-Document Summarization</i>	
Hanqi Jin, Tianming Wang and Xiaojun Wan	6244
<i>Tetra-Tagging: Word-Synchronous Parsing with Linear-Time Inference</i>	
Nikita Kitaev and Dan Klein	6255
<i>Are we Estimating or Guesstimating Translation Quality?</i>	
Shuo Sun, Francisco Guzmán and Lucia Specia	6262
<i>Language (Re)modelling: Towards Embodied Language Understanding</i>	
Ronen Tamari, Chen Shani, Tom Hope, Miriam R L Petruck, Omri Abend and Dafna Shahaf .	6268
<i>The State and Fate of Linguistic Diversity and Inclusion in the NLP World</i>	
Pratik Joshi, Sebastin Santy, Amar Budhiraja, Kalika Bali and Monojit Choudhury	6282
<i>The Unstoppable Rise of Computational Linguistics in Deep Learning</i>	
James Henderson	6294
<i>To Boldly Query What No One Has Annotated Before? The Frontiers of Corpus Querying</i>	
Markus Gärtner and Kerstin Jung	6307
<i>A Contextual Hierarchical Attention Network with Adaptive Objective for Dialogue State Tracking</i>	
Yong Shan, Zekang Li, Jinchao Zhang, Fandong Meng, Yang Feng, Cheng Niu and Jie Zhou .	6322
<i>Data Manipulation: Towards Effective Instance Learning for Neural Dialogue Generation via Learning to Augment and Reweight</i>	
Hengyi Cai, Hongshen Chen, Yonghao Song, Cheng Zhang, Xiaofang Zhao and Dawei Yin ..	6334
<i>Dynamic Fusion Network for Multi-Domain End-to-end Task-Oriented Dialog</i>	
Libo Qin, Xiao Xu, Wanxiang Che, Yue Zhang and Ting Liu	6344
<i>Learning Efficient Dialogue Policy from Demonstrations through Shaping</i>	
Huimin Wang, Baolin Peng and Kam-Fai Wong	6355

<i>SAS: Dialogue State Tracking via Slot Attention and Slot Information Sharing</i> Jiaying Hu, Yan Yang, Chencai Chen, liang he and Zhou Yu	6366
<i>Speaker Sensitive Response Evaluation Model</i> JinYeong Bak and Alice Oh	6376
<i>A Top-down Neural Architecture towards Text-level Parsing of Discourse Rhetorical Structure</i> Longyin Zhang, Yuqing Xing, Fang Kong, Peifeng Li and Guodong Zhou	6386
<i>Amalgamation of protein sequence, structure and textual information for improving protein-protein interaction identification</i> pratik Dutta and Sriparna Saha	6396
<i>Bipartite Flat-Graph Network for Nested Named Entity Recognition</i> Ying Luo and Hai Zhao	6408
<i>Connecting Embeddings for Knowledge Graph Entity Typing</i> Yu Zhao, anxiang zhang, Ruobing Xie, Kang Liu and Xiaojie WANG	6419
<i>Continual Relation Learning via Episodic Memory Activation and Reconsolidation</i> Xu Han, Yi Dai, Tianyu Gao, Yankai Lin, Zhiyuan Liu, Peng Li, Maosong Sun and Jie Zhou .	6429
<i>Handling Rare Entities for Neural Sequence Labeling</i> Yangming Li, Han Li, Kaisheng Yao and Xiaolong Li	6441
<i>Instance-Based Learning of Span Representations: A Case Study through Named Entity Recognition</i> Hiroki Ouchi, Jun Suzuki, Sosuke Kobayashi, Sho Yokoi, Tatsuki Kuribayashi, Ryuto Konno and Kentaro Inui	6452
<i>MIE: A Medical Information Extractor towards Medical Dialogues</i> Yuanzhe Zhang, Zhongtao Jiang, Tao Zhang, Shiwan Liu, Jiarun Cao, Kang Liu, Shengping Liu and Jun Zhao	6460
<i>Named Entity Recognition as Dependency Parsing</i> Juntao Yu, Bernd Bohnet and Massimo Poesio	6470
<i>Neighborhood Matching Network for Entity Alignment</i> Yuting Wu, Xiao Liu, Yansong Feng, Zheng Wang and Dongyan Zhao	6477
<i>Relation Extraction with Explanation</i> Hamed Shahbazi, Xiaoli Fern, Reza Ghaeini and Prasad Tadepalli	6488
<i>Representation Learning for Information Extraction from Form-like Documents</i> Bodhisattwa Prasad Majumder, Navneet Potti, Sandeep Tata, James Bradley Wendt, Qi Zhao and Marc Najork	6495
<i>Single-/Multi-Source Cross-Lingual NER via Teacher-Student Learning on Unlabeled Data in Target Language</i> Qianhui Wu, Zijia Lin, Börje Karlsson, Jian-Guang LOU and Biqing Huang	6505
<i>Synchronous Double-channel Recurrent Network for Aspect-Opinion Pair Extraction</i> Shaowei Chen, Jie Liu, Yu Wang, Wenzheng Zhang and Ziming Chi	6515
<i>Cross-modal Coherence Modeling for Caption Generation</i> Malihe Alikhani, Piyush Sharma, Shengjie Li, Radu Soricut and Matthew Stone	6525

<i>Knowledge Supports Visual Language Grounding: A Case Study on Colour Terms</i> Simeon Schüz and Sina Zarriß	6536
<i>Span-based Localizing Network for Natural Language Video Localization</i> Hao Zhang, Aixin Sun, Wei Jing and Joey Tianyi Zhou	6543
<i>Words Aren't Enough, Their Order Matters: On the Robustness of Grounding Visual Referring Expressions</i> Arjun Akula, Spandana Gella, Yaser Al-Onaizan, Song-Chun Zhu and Siva Reddy	6555
<i>A Mixture of $h - 1$ Heads is Better than h Heads</i> Hao Peng, Roy Schwartz, Dianqi Li and Noah A. Smith	6566
<i>Dependency Graph Enhanced Dual-transformer Structure for Aspect-based Sentiment Classification</i> Hao Tang, Donghong Ji, Chenliang Li and Qiji Zhou	6578
<i>Differentiable Window for Dynamic Local Attention</i> Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li	6589
<i>Evaluating and Enhancing the Robustness of Neural Network-based Dependency Parsing Models with Adversarial Examples</i> Xiaoqing Zheng, Jiehang Zeng, Yi Zhou, Cho-Jui Hsieh, Minhao Cheng and Xuanjing Huang	6600
<i>Exploiting Syntactic Structure for Better Language Modeling: A Syntactic Distance Approach</i> Wenyu Du, Zhouhan Lin, Yikang Shen, Timothy J. O'Donnell, Yoshua Bengio and Yue Zhang	6611
<i>Learning Architectures from an Extended Search Space for Language Modeling</i> Yinqiao Li, Chi Hu, Yuhao Zhang, Nuo Xu, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li	6629
<i>The Right Tool for the Job: Matching Model and Instance Complexities</i> Roy Schwartz, Gabriel Stanovsky, Swabha Swayamdipta, Jesse Dodge and Noah A. Smith ..	6640
<i>Bootstrapping Techniques for Polysynthetic Morphological Analysis</i> William Lane and Steven Bird	6652
<i>Coupling Distant Annotation and Adversarial Training for Cross-Domain Chinese Word Segmentation</i> Ning Ding, Dingkun Long, Guangwei Xu, Muhua Zhu, Pengjun Xie, Xiaobin Wang and Haitao Zheng	6662
<i>Modeling Morphological Typology for Unsupervised Learning of Language Morphology</i> Hongzhi Xu, Jordan Kodner, Mitchell Marcus and Charles Yang	6672
<i>Predicting Declension Class from Form and Meaning</i> Adina Williams, Tiago Pimentel, Hagen Blix, Arya D. McCarthy, Eleanor Chodroff and Ryan Cotterell	6682
<i>Unsupervised Morphological Paradigm Completion</i> Huiming Jin, Liwei Cai, Yihui Peng, Chen Xia, Arya McCarthy and Katharina Kann	6696
<i>Document Modeling with Graph Attention Networks for Multi-grained Machine Reading Comprehension</i> Bo Zheng, Haoyang Wen, Yaobo Liang, Nan Duan, Wanxiang Che, Daxin Jiang, Ming Zhou and Ting Liu	6708
<i>Harvesting and Refining Question-Answer Pairs for Unsupervised QA</i> Zhongli Li, Wenhui Wang, Li Dong, Furu Wei and Ke Xu	6719

<i>Low-Resource Generation of Multi-hop Reasoning Questions</i>	
Jianxing Yu, Wei Liu, Shuang Qiu, Qinliang Su, Kai Wang, Xiaojun Quan and Jian Yin	6729
<i>R4C: A Benchmark for Evaluating RC Systems to Get the Right Answer for the Right Reason</i>	
Naoya Inoue, Pontus Stenetorp and Kentaro Inui	6740
<i>Recurrent Chunking Mechanisms for Long-Text Machine Reading Comprehension</i>	
Hongyu Gong, Yelong Shen, Dian Yu, Jianshu Chen and Dong Yu	6751
<i>RikiNet: Reading Wikipedia Pages for Natural Question Answering</i>	
Dayiheng Liu, Yeyun Gong, Jie Fu, Yu Yan, Jiusheng Chen, Daxin Jiang, Jiancheng Lv and Nan Duan	6762
<i>Parsing into Variable-in-situ Logico-Semantic Graphs</i>	
Yufei Chen and Weiwei Sun	6772
<i>Semantic Parsing for English as a Second Language</i>	
Yuanyuan Zhao, Weiwei Sun, junjie cao and Xiaojun Wan	6783
<i>Semi-Supervised Semantic Dependency Parsing Using CRF Autoencoders</i>	
Zixia Jia, Youmi Ma, Jiong Cai and Kewei Tu	6795
<i>Unsupervised Dual Paraphrasing for Two-stage Semantic Parsing</i>	
Ruisheng Cao, Su Zhu, Chenyu Yang, Chen Liu, Rao Ma, Yanbin Zhao, Lu Chen and Kai Yu	6806
<i>DRTS Parsing with Structure-Aware Encoding and Decoding</i>	
Qiankun Fu, Yue Zhang, Jiangming Liu and Meishan Zhang	6818
<i>A Two-Stage Masked LM Method for Term Set Expansion</i>	
Guy Kushilevitz, Shaul Markovitch and Yoav Goldberg	6829
<i>FLAT: Chinese NER Using Flat-Lattice Transformer</i>	
Xiaonan Li, Hang Yan, Xipeng Qiu and Xuanjing Huang	6836
<i>Improving Entity Linking through Semantic Reinforced Entity Embeddings</i>	
Feng Hou, Ruili Wang, Jun He and Yi Zhou	6843
<i>Document Translation vs. Query Translation for Cross-Lingual Information Retrieval in the Medical Domain</i>	
Shadi Saleh and Pavel Pecina	6849
<i>Learning Robust Models for e-Commerce Product Search</i>	
Thanh Nguyen, Nikhil Rao and Karthik Subbian	6861
<i>Generalized Entropy Regularization or: There’s Nothing Special about Label Smoothing</i>	
Clara Meister, Elizabeth Salesky and Ryan Cotterell	6870
<i>Highway Transformer: Self-Gating Enhanced Self-Attentive Networks</i>	
Yekun Chai, Shuo Jin and Xinwen Hou	6887
<i>Low-Dimensional Hyperbolic Knowledge Graph Embeddings</i>	
Ines Chami, Adva Wolf, Da-Cheng Juan, Frederic Sala, Sujith Ravi and Christopher Ré	6901
<i>Classification-Based Self-Learning for Weakly Supervised Bilingual Lexicon Induction</i>	
Mladen Karan, Ivan Vulić, Anna Korhonen and Goran Glavaš	6915

<i>Gender in Danger? Evaluating Speech Translation Technology on the MuST-SHE Corpus</i> Luisa Bentivogli, Beatrice Savoldi, Matteo Negri, Mattia A. Di Gangi, Roldano Cattoni and Marco Turchi	6923
<i>Uncertainty-Aware Curriculum Learning for Neural Machine Translation</i> Yikai Zhou, Baosong Yang, Derek F. Wong, Yu Wan and Lidia S. Chao	6934
<i>Closing the Gap: Joint De-Identification and Concept Extraction in the Clinical Domain</i> Lukas Lange, Heike Adel and Jannik Strötgen	6945
<i>CorefQA: Coreference Resolution as Query-based Span Prediction</i> Wei Wu, Fei Wang, Arianna Yuan, Fei Wu and Jiwei Li	6953
<i>Estimating predictive uncertainty for rumour verification models</i> Elena Kochkina and Maria Liakata	6964
<i>From Zero to Hero: Human-In-The-Loop Entity Linking in Low Resource Domains</i> Jan-Christoph Klie, Richard Eckart de Castilho and Iryna Gurevych	6982
<i>Language to Network: Conditional Parameter Adaptation with Natural Language Descriptions</i> Tian Jin, Zhun Liu, Shengjia Yan, Alexandre Eichenberger and Louis-Philippe Morency	6994
<i>Controlled Crowdsourcing for High-Quality QA-SRL Annotation</i> Paul Roit, Ayal Klein, Daniela Stepanov, Jonathan Mamou, Julian Michael, Gabriel Stanovsky, Luke Zettlemoyer and Ido Dagan	7008
<i>Cross-Lingual Semantic Role Labeling with High-Quality Translated Training Corpus</i> Hao Fei, Meishan Zhang and Donghong Ji	7014
<i>Sentence Meta-Embeddings for Unsupervised Semantic Textual Similarity</i> Nina Poerner, Ulli Waltinger and Hinrich Schütze	7027
<i>Transition-based Semantic Dependency Parsing with Pointer Networks</i> Daniel Fernández-González and Carlos Gómez-Rodríguez	7035
<i>tBERT: Topic Models and BERT Joining Forces for Semantic Similarity Detection</i> Nicole Peinelt, Dong Nguyen and Maria Liakata	7047
<i>Conditional Augmentation for Aspect Term Extraction via Masked Sequence-to-Sequence Generation</i> Kun Li, Chengbo Chen, Xiaojun Quan, Qing Ling and Yan Song	7056
<i>Exploiting Personal Characteristics of Debaters for Predicting Persuasiveness</i> Khalid Al Khatib, Michael Völske, Shahbaz Syed, Nikolay Kolyada and Benno Stein	7067
<i>Out of the Echo Chamber: Detecting Countering Debate Speeches</i> Matan Orbach, Yonatan Bilu, Assaf Toledo, Dan Lahav, Michal Jacovi, Ranit Aharonov and Noam Slonim	7073
<i>Diversifying Dialogue Generation with Non-Conversational Text</i> Hui Su, Xiaoyu Shen, Sanqiang Zhao, Zhou Xiao, Pengwei Hu, randy zhong, Cheng Niu and Jie Zhou	7087
<i>KdConv: A Chinese Multi-domain Dialogue Dataset Towards Multi-turn Knowledge-driven Conversation</i> Hao Zhou, Chujie Zheng, Kaili Huang, Minlie Huang and Xiaoyan Zhu	7098

<i>Meta-Reinforced Multi-Domain State Generator for Dialogue Systems</i>	
Yi Huang, Junlan Feng, Min Hu, Xiaoting Wu, Xiaoyu Du and Shuo Ma	7109
<i>Modeling Long Context for Task-Oriented Dialogue State Generation</i>	
Jun Quan and Deyi Xiong	7119
<i>Multi-Domain Dialogue Acts and Response Co-Generation</i>	
Kai Wang, Junfeng Tian, Rui Wang, Xiaojun Quan and Jianxing Yu	7125
<i>Exploring Contextual Word-level Style Relevance for Unsupervised Style Transfer</i>	
Chulun Zhou, Liangyu Chen, Jiachen Liu, Xinyan Xiao, Jinsong Su, Sheng Guo and Hua Wu	7135
<i>Heterogeneous Graph Transformer for Graph-to-Sequence Learning</i>	
Shaowei Yao, Tianming Wang and Xiaojun Wan	7145
<i>Neural Data-to-Text Generation via Jointly Learning the Segmentation and Correspondence</i>	
Xiaoyu Shen, Ernie Chang, Hui Su, Cheng Niu and Dietrich Klakow	7155
<i>Aligned Dual Channel Graph Convolutional Network for Visual Question Answering</i>	
Qingbao Huang, Jielong Wei, Yi Cai, Changmeng Zheng, Junying Chen, Ho-fung Leung and Qing Li	7166
<i>Multimodal Neural Graph Memory Networks for Visual Question Answering</i>	
Mahmoud Khademi	7177
<i>Refer360°: A Referring Expression Recognition Dataset in 360° Images</i>	
Volkan Cirik, Taylor Berg-Kirkpatrick and Louis-Philippe Morency	7189
<i>CamemBERT: a Tasty French Language Model</i>	
Louis Martin, Benjamin Muller, Pedro Javier Ortiz Suárez, Yoann Dupont, Laurent Romary, Éric de la Clergerie, Djamel Seddah and Benoît Sagot	7203
<i>Effective Estimation of Deep Generative Language Models</i>	
Tom Pelsmaecker and Wilker Aziz	7220
<i>Null It Out: Guarding Protected Attributes by Iterative Nullspace Projection</i>	
Shauli Ravfogel, Yanai Elazar, Hila Gonen, Michael Twiton and Yoav Goldberg	7237
<i>2kenize: Tying Subword Sequences for Chinese Script Conversion</i>	
and Isabelle Augenstein	7257
<i>Predicting the Growth of Morphological Families from Social and Linguistic Factors</i>	
Valentin Hofmann, Janet Pierrehumbert and Hinrich Schütze	7273
<i>Semi-supervised Contextual Historical Text Normalization</i>	
Peter Makarov and Simon Clematide	7284
<i>ClarQ: A large-scale and diverse dataset for Clarification Question Generation</i>	
Vaibhav Kumar and Alan W Black	7296
<i>DoQA - Accessing Domain-Specific FAQs via Conversational QA</i>	
Jon Ander Campos, Arantxa Otegi, Aitor Soroa, Jan Deriu, Mark Cieliebak and Eneko Agirre	7302
<i>MLQA: Evaluating Cross-lingual Extractive Question Answering</i>	
Patrick Lewis, Barlas Oguz, Ruty Rinott, Sebastian Riedel and Holger Schwenk	7315

<i>Multi-source Meta Transfer for Low Resource Multiple-Choice Question Answering</i>	
Ming Yan, Hao Zhang, Di Jin and Joey Tianyi Zhou	7331
<i>Fine-grained Fact Verification with Kernel Graph Attention Network</i>	
Zhenghao Liu, Chenyan Xiong, Maosong Sun and Zhiyuan Liu	7342
<i>Generating Fact Checking Explanations</i>	
Pepa Atanasova, Jakob Grue Simonsen, Christina Lioma and Isabelle Augenstein	7352
<i>Premise Selection in Natural Language Mathematical Texts</i>	
Deborah Ferreira and André Freitas	7365
<i>A Call for More Rigor in Unsupervised Cross-lingual Learning</i>	
Mikel Artetxe, Sebastian Ruder, Dani Yogatama, Gorka Labaka and Eneko Agirre	7375
<i>A Tale of a Probe and a Parser</i>	
Rowan Hall Maudslay, Josef Valvoda, Tiago Pimentel, Adina Williams and Ryan Cotterell ..	7389
<i>From SPMRL to NMRL: What Did We Learn (and Unlearn) in a Decade of Parsing Morphologically-Rich Languages (MRLs)?</i>	
Reut Tsarfaty, Dan Bareket, Stav Klein and Amit Seker	7396
<i>Speech Translation and the End-to-End Promise: Taking Stock of Where We Are</i>	
Matthias Sperber and Matthias Paulik	7409
<i>What Question Answering can Learn from Trivia Nerds</i>	
Jordan Boyd-Graber and Benjamin Börschinger	7422
<i>What are the Goals of Distributional Semantics?</i>	
Guy Emerson	7436
<i>Improving Image Captioning with Better Use of Caption</i>	
Zhan Shi, Xu Zhou, Xipeng Qiu and Xiaodan Zhu	7454
<i>Shape of Synth to Come: Why We Should Use Synthetic Data for English Surface Realization</i>	
Henry Elder, Robert Burke, Alexander O'Connor and Jennifer Foster	7465
<i>Toward Better Storylines with Sentence-Level Language Models</i>	
Daphne Ippolito, David Grangier, Douglas Eck and Chris Callison-Burch	7472
<i>A Two-Step Approach for Implicit Event Argument Detection</i>	
Zhisong Zhang, Xiang Kong, Zhengzhong Liu, Xuezhe Ma and Eduard Hovy	7479
<i>Machine Reading of Historical Events</i>	
Or Honovich, Lucas Torroba Hennigen, Omri Abend and Shay B. Cohen	7486
<i>Revisiting Unsupervised Relation Extraction</i>	
Thy Thy Tran, Phong Le and Sophia Ananiadou	7498
<i>SciREX: A Challenge Dataset for Document-Level Information Extraction</i>	
Sarthak Jain, Madeleine van Zuylen, Hannaneh Hajishirzi and Iz Beltagy	7506
<i>Contrastive Self-Supervised Learning for Commonsense Reasoning</i>	
Tassilo Klein and Moin Nabi	7517

<i>Do Transformers Need Deep Long-Range Memory?</i>	
Jack Rae and Ali Razavi	7524
<i>Improving Disentangled Text Representation Learning with Information-Theoretic Guidance</i>	
Pengyu Cheng, Martin Renqiang Min, Dinghan Shen, Christopher Malon, Yizhe Zhang, Yitong Li and Lawrence Carin	7530
<i>Understanding Advertisements with BERT</i>	
Kanika Kalra, Bhargav Kurma, Silpa Vadakkeveetil Sreelatha, Manasi Patwardhan and Shirish Karande	7542
<i>Non-Linear Instance-Based Cross-Lingual Mapping for Non-Isomorphic Embedding Spaces</i>	
Goran Glavaš and Ivan Vulić	7548
<i>Good-Enough Compositional Data Augmentation</i>	
Jacob Andreas	7556
<i>RAT-SQL: Relation-Aware Schema Encoding and Linking for Text-to-SQL Parsers</i>	
Bailin Wang, Richard Shin, Xiaodong Liu, Oleksandr Polozov and Matthew Richardson	7567
<i>Temporal Common Sense Acquisition with Minimal Supervision</i>	
Ben Zhou, Qiang Ning, Daniel Khashabi and Dan Roth	7579
<i>The Sensitivity of Language Models and Humans to Winograd Schema Perturbations</i>	
Mostafa Abdou, Vinit Ravishankar, Maria Barrett, Yonatan Belinkov, Desmond Elliott and Anders Søgaard	7590
<i>Temporally-Informed Analysis of Named Entity Recognition</i>	
Shruti Rijhwani and Daniel Preotiuc-Pietro	7605
<i>Towards Open Domain Event Trigger Identification using Adversarial Domain Adaptation</i>	
Aakanksha Naik and Carolyn Rose	7618
<i>CompGuessWhat?!: A Multi-task Evaluation Framework for Grounded Language Learning</i>	
Alessandro Suglia, Ioannis Konstas, Andrea Vanzo, Emanuele Bastianelli, Desmond Elliott, Stella Frank and Oliver Lemon	7625
<i>Cross-Modality Relevance for Reasoning on Language and Vision</i>	
Chen Zheng, Quan Guo and Parisa Kordjamshidi	7642
<i>Learning Web-based Procedures by Reasoning over Explanations and Demonstrations in Context</i>	
Shashank Srivastava, Oleksandr Polozov, Nebojsa Jojic and Christopher Meek	7652
<i>Multi-agent Communication meets Natural Language: Synergies between Functional and Structural Language Learning</i>	
Angeliki Lazaridou, Anna Potapenko and Olivier Tieleman	7663
<i>HAT: Hardware-Aware Transformers for Efficient Natural Language Processing</i>	
Hanrui Wang, Zhanghao Wu, Zhijian Liu, Han Cai, Ligeng Zhu, Chuang Gan and Song Han ..	7675
<i>Hard-Coded Gaussian Attention for Neural Machine Translation</i>	
Weiyou You, Simeng Sun and Mohit Iyyer	7689
<i>In Neural Machine Translation, What Does Transfer Learning Transfer?</i>	
Alham Fikri Aji, Nikolay Bogoychev, Kenneth Heafield and Rico Sennrich	7701

<i>Learning a Multi-Domain Curriculum for Neural Machine Translation</i>	
Wei Wang, Ye Tian, Jiquan Ngiam, Yinfei Yang, Isaac Caswell and Zarana Parekh	7711
<i>Reducing Gender Bias in Neural Machine Translation as a Domain Adaptation Problem</i>	
Danielle Saunders and Bill Byrne	7724
<i>Translationese as a Language in "Multilingual" NMT</i>	
Parker Riley, Isaac Caswell, Markus Freitag and David Grangier	7737
<i>Unsupervised Domain Clusters in Pretrained Language Models</i>	
Roei Aharoni and Yoav Goldberg	7747
<i>Using Context in Neural Machine Translation Training Objectives</i>	
Danielle Saunders, Felix Stahlberg and Bill Byrne	7764
<i>Variational Neural Machine Translation with Normalizing Flows</i>	
Hendra Setiawan, Matthias Sperber, Udhyakumar Nallasamy and Matthias Paulik	7771
<i>The Paradigm Discovery Problem</i>	
Alexander Erdmann, Micha Elsner, Shijie Wu, Ryan Cotterell and Nizar Habash	7778
<i>Supervised Grapheme-to-Phoneme Conversion of Orthographic Schwas in Hindi and Punjabi</i>	
Aryaman Arora, Luke Gessler and Nathan Schneider	7791
<i>Automated Evaluation of Writing – 50 Years and Counting</i>	
Beata Beigman Klebanov and Nitin Madnani	7796
<i>Negated and Misprimed Probes for Pretrained Language Models: Birds Can Talk, But Cannot Fly</i>	
Nora Kassner and Hinrich Schütze	7811
<i>On Forgetting to Cite Older Papers: An Analysis of the ACL Anthology</i>	
Marcel Bollmann and Desmond Elliott	7819
<i>Returning the N to NLP: Towards Contextually Personalized Classification Models</i>	
Lucie Flek	7828
<i>To Test Machine Comprehension, Start by Defining Comprehension</i>	
Jesse Dunietz, Greg Burnham, Akash Bharadwaj, Owen Rambow, Jennifer Chu-Carroll and Dave Ferrucci	7839
<i>Gender Gap in Natural Language Processing Research: Disparities in Authorship and Citations</i>	
Saif M. Mohammad	7860
<i>BART: Denoising Sequence-to-Sequence Pre-training for Natural Language Generation, Translation, and Comprehension</i>	
Mike Lewis, Yinhan Liu, Naman Goyal, Marjan Ghazvininejad, Abdelrahman Mohamed, Omer Levy, Veselin Stoyanov and Luke Zettlemoyer	7871
<i>BLEURT: Learning Robust Metrics for Text Generation</i>	
Thibault Sellam, Dipanjan Das and Ankur Parikh	7881
<i>Distilling Knowledge Learned in BERT for Text Generation</i>	
Yen-Chun Chen, Zhe Gan, Yu Cheng, Jingzhou Liu and Jingjing Liu	7893

<i>ESPRIT: Explaining Solutions to Physical Reasoning Tasks</i>	
Nazneen Fatema Rajani, Rui Zhang, Yi Chern Tan, Stephan Zheng, Jeremy Weiss, Aadit Vyas, Abhijit Gupta, Caiming Xiong, Richard Socher and Dragomir Radev	7906
<i>Iterative Edit-Based Unsupervised Sentence Simplification</i>	
Dhruv Kumar, Lili Mou, Lukasz Golab and Olga Vechtomova	7918
<i>Logical Natural Language Generation from Open-Domain Tables</i>	
Wenhu Chen, Jianshu Chen, Yu Su, Zhiyu Chen and William Yang Wang	7929
<i>Neural CRF Model for Sentence Alignment in Text Simplification</i>	
Chao Jiang, Mounica Maddela, Wuwei Lan, Yang Zhong and Wei Xu	7943
<i>One Size Does Not Fit All: Generating and Evaluating Variable Number of Keyphrases</i>	
Xingdi Yuan, Tong Wang, Rui Meng, Khushboo Thaker, Peter Brusilovsky, Daqing He and Adam Trischler	7961
<i>R³: Reverse, Retrieve, and Rank for Sarcasm Generation with Commonsense Knowledge</i>	
Tuhin Chakrabarty, Debanjan Ghosh, Smaranda Muresan and Nanyun Peng	7976
<i>Structural Information Preserving for Graph-to-Text Generation</i>	
Linfeng Song, Ante Wang, Jinsong Su, Yue Zhang, Kun Xu, Yubin Ge and Dong Yu	7987
<i>A Joint Neural Model for Information Extraction with Global Features</i>	
Ying Lin, Heng Ji, Fei Huang and Lingfei Wu	7999
<i>Document-Level Event Role Filler Extraction using Multi-Granularity Contextualized Encoding</i>	
Xinya Du and Claire Cardie	8010
<i>Exploiting the Syntax-Model Consistency for Neural Relation Extraction</i>	
Amir Pouran Ben Veyseh, Franck Dernoncourt, Dejing Dou and Thien Huu Nguyen	8021
<i>From English to Code-Switching: Transfer Learning with Strong Morphological Clues</i>	
Gustavo Aguilar and Thamar Solorio	8033
<i>Learning Interpretable Relationships between Entities, Relations and Concepts via Bayesian Structure Learning on Open Domain Facts</i>	
Jingyuan Zhang, Mingming Sun, Yue Feng and Ping Li	8045
<i>Multi-Sentence Argument Linking</i>	
Seth Ebner, Patrick Xia, Ryan Culkin, Kyle Rawlins and Benjamin Van Durme	8057
<i>Rationalizing Medical Relation Prediction from Corpus-level Statistics</i>	
Zhen Wang, Jennifer Lee, Simon Lin and Huan Sun	8078
<i>Sources of Transfer in Multilingual Named Entity Recognition</i>	
David Mueller, Nicholas Andrews and Mark Dredze	8093
<i>ZeroShotCeres: Zero-Shot Relation Extraction from Semi-Structured Webpages</i>	
Colin Lockard, Prashant Shiralkar, Xin Luna Dong and Hannaneh Hajishirzi	8105
<i>Soft Gazetteers for Low-Resource Named Entity Recognition</i>	
Shruti Rijhwani, Shuyan Zhou, Graham Neubig and Jaime Carbonell	8118
<i>A Prioritization Model for Suicidality Risk Assessment</i>	
Han-Chin Shing, Philip Resnik and Douglas Oard	8124

<i>CluHTM - Semantic Hierarchical Topic Modeling based on CluWords</i>	
Felipe Viegas, Washington Cunha, Christian Gomes, Antônio Pereira, Leonardo Rocha and Marcos Goncalves	8138
<i>Empower Entity Set Expansion via Language Model Probing</i>	
Yunyi Zhang, Jiaming Shen, Jingbo Shang and Jiawei Han	8151
<i>Feature Projection for Improved Text Classification</i>	
Qi Qin, Wenpeng Hu and Bing Liu	8161
<i>A negative case analysis of visual grounding methods for VQA</i>	
Robik Shrestha, Kushal Kafle and Christopher Kanan	8172
<i>History for Visual Dialog: Do we really need it?</i>	
Shubham Agarwal, Trung Bui, Joon-Young Lee, Ioannis Konstas and Verena Rieser	8182
<i>Mapping Natural Language Instructions to Mobile UI Action Sequences</i>	
Yang Li, Jiacong He, Xin Zhou, Yuan Zhang and Jason Baldridge	8198
<i>TVQA+: Spatio-Temporal Grounding for Video Question Answering</i>	
Jie Lei, Licheng Yu, Tamara Berg and Mohit Bansal	8211
<i>Unsupervised Multimodal Neural Machine Translation with Pseudo Visual Pivoting</i>	
Po-Yao Huang, Junjie Hu, Xiaojun Chang and Alexander Hauptmann	8226
<i>A Multitask Learning Approach for Diacritic Restoration</i>	
Sawsan Alqahtani, Ajay Mishra and Mona Diab	8238
<i>Frugal Paradigm Completion</i>	
Alexander Erdmann, Tom Kenter, Markus Becker and Christian Schallhart	8248
<i>Improving Chinese Word Segmentation with Wordhood Memory Networks</i>	
Yuanhe Tian, Yan Song, Fei Xia, Tong Zhang and Yonggang Wang	8274
<i>Joint Chinese Word Segmentation and Part-of-speech Tagging via Two-way Attentions of Auto-analyzed Knowledge</i>	
Yuanhe Tian, Yan Song, Xiang Ao, Fei Xia, Xiaojun Quan, Tong Zhang and Yonggang Wang	8286
<i>Joint Diacritization, Lemmatization, Normalization, and Fine-Grained Morphological Tagging</i>	
Nasser Zalmout and Nizar Habash	8297
<i>Phonetic and Visual Priors for Decipherment of Informal Romanization</i>	
Maria Ryskina, Matthew R. Gormley and Taylor Berg-Kirkpatrick	8308
<i>Active Learning for Coreference Resolution using Discrete Annotation</i>	
Belinda Z. Li, Gabriel Stanovsky and Luke Zettlemoyer	8320
<i>Beyond Possession Existence: Duration and Co-Possession</i>	
Dhivya Chinnappa, Srikala Murugan and Eduardo Blanco	8332
<i>Don't Stop Pretraining: Adapt Language Models to Domains and Tasks</i>	
Suchin Gururangan, Ana Marasović, Swabha Swayamdipta, Kyle Lo, Iz Beltagy, Doug Downey and Noah A. Smith	8342
<i>Estimating Mutual Information Between Dense Word Embeddings</i>	
Vitalii Zhelezniak, Aleksandar Savkov and Nils Hammerla	8361

<i>Exploring Unexplored Generalization Challenges for Cross-Database Semantic Parsing</i>	
Alane Suhr, Ming-Wei Chang, Peter Shaw and Kenton Lee	8372
<i>Predicting the Focus of Negation: Model and Error Analysis</i>	
Md Mosharaf Hossain, Kathleen Hamilton, Alexis Palmer and Eduardo Blanco	8389
<i>Structured Tuning for Semantic Role Labeling</i>	
Tao Li, Parth Anand Jawale, Martha Palmer and Vivek Srikumar	8402
<i>TaBERT: Pretraining for Joint Understanding of Textual and Tabular Data</i>	
Pengcheng Yin, Graham Neubig, Wen-tau Yih and Sebastian Riedel	8413
<i>Universal Decompositional Semantic Parsing</i>	
Elias Stengel-Eskin, Aaron Steven White, Sheng Zhang and Benjamin Van Durme	8427
<i>Unsupervised Cross-lingual Representation Learning at Scale</i>	
Alexis Conneau, Kartikay Khandelwal, Naman Goyal, Vishrav Chaudhary, Guillaume Wenzek, Francisco Guzmán, Edouard Grave, Myle Ott, Luke Zettlemoyer and Veselin Stoyanov	8440
<i>A Generate-and-Rank Framework with Semantic Type Regularization for Biomedical Concept Normalization</i>	
Dongfang Xu, Zeyu Zhang and Steven Bethard	8452
<i>Hierarchical Entity Typing via Multi-level Learning to Rank</i>	
Tongfei Chen, Yunmo Chen and Benjamin Van Durme	8465
<i>Multi-Domain Named Entity Recognition with Genre-Aware and Agnostic Inference</i>	
Jing Wang, Mayank Kulkarni and Daniel Preotiuc-Pietro	8476
<i>TXtract: Taxonomy-Aware Knowledge Extraction for Thousands of Product Categories</i>	
Giannis Karamanolakis, Jun Ma and Xin Luna Dong	8489
<i>TriggerNER: Learning with Entity Triggers as Explanations for Named Entity Recognition</i>	
Bill Yuchen Lin, Dong-Ho Lee, Ming Shen, Ryan Moreno, Xiao Huang, Prashant Shiralkar and Xiang Ren	8503
<i>Addressing Posterior Collapse with Mutual Information for Improved Variational Neural Machine Translation</i>	
Arya D. McCarthy, Xian Li, Jiatao Gu and Ning Dong	8512
<i>Balancing Training for Multilingual Neural Machine Translation</i>	
Xinyi Wang, Yulia Tsvetkov and Graham Neubig	8526
<i>Evaluating Robustness to Input Perturbations for Neural Machine Translation</i>	
Xing Niu, Prashant Mathur, Georgiana Dinu and Yaser Al-Onaizan	8538
<i>Parallel Corpus Filtering via Pre-trained Language Models</i>	
Boliang Zhang, Ajay Nagesh and Kevin Knight	8545
<i>Regularized Context Gates on Transformer for Machine Translation</i>	
Xintong Li, Lemao Liu, Rui Wang, Guoping Huang and Max Meng	8555
<i>A Multi-Perspective Architecture for Semantic Code Search</i>	
Rajarshi Haldar, Lingfei Wu, JinJun Xiong and Julia Hockenmaier	8563

<i>Automated Topical Component Extraction Using Neural Network Attention Scores from Source-based Essay Scoring</i>	
Haoran Zhang and Diane Litman	8569
<i>Clinical Concept Linking with Contextualized Neural Representations</i>	
Elliot Schumacher, Andriy Mulyar and Mark Dredze	8585
<i>DeSePtion: Dual Sequence Prediction and Adversarial Examples for Improved Fact-Checking</i>	
Christopher Hidey, Tuhin Chakrabarty, Tariq Alhindi, Siddharth Varia, Kriste Krstovski, Mona Diab and Smaranda Muresan	8593
<i>Let Me Choose: From Verbal Context to Font Selection</i>	
Amirreza Shirani, Franck Dernoncourt, Jose Echevarria, Paul Asente, Nedim Lipka and Thamar Solorio	8607
<i>Multi-Label and Multilingual News Framing Analysis</i>	
Afra Feyza Akyürek, Lei Guo, Randa Elanwar, Prakash Ishwar, Margrit Betke and Derry Tanti Wijaya	8614
<i>Predicting Performance for Natural Language Processing Tasks</i>	
Mengzhou Xia, Antonios Anastasopoulos, Ruo Chen Xu, Yiming Yang and Graham Neubig ..	8625
<i>ScriptWriter: Narrative-Guided Script Generation</i>	
Yutao Zhu, Ruihua Song, Zhicheng Dou, Jian-Yun NIE and Jin Zhou	8647
<i>Should All Cross-Lingual Embeddings Speak English?</i>	
Antonios Anastasopoulos and Graham Neubig	8658
<i>Smart To-Do: Automatic Generation of To-Do Items from Emails</i>	
Sudipto Mukherjee, Subhabrata Mukherjee, Marcello Hasegawa, Ahmed Hassan Awadallah and Ryen White	8680
<i>Are Natural Language Inference Models IMPPRESsive? Learning IMPlicature and PRESupposition</i>	
Paloma Jeretic, Alex Warstadt, Suvrat Bhooshan and Adina Williams	8690
<i>End-to-End Bias Mitigation by Modelling Biases in Corpora</i>	
Rabeeh Karimi Mahabadi, Yonatan Belinkov and James Henderson	8706
<i>Mind the Trade-off: Debiasing NLU Models without Degrading the In-distribution Performance</i>	
Prasetya Ajie Utama, Nafise Sadat Moosavi and Iryna Gurevych	8717
<i>NILE : Natural Language Inference with Faithful Natural Language Explanations</i>	
Sawan Kumar and Partha Talukdar	8730
<i>QuASE: Question-Answer Driven Sentence Encoding</i>	
Hangfeng He, Qiang Ning and Dan Roth	8743
<i>Towards Robustifying NLI Models Against Lexical Dataset Biases</i>	
Xiang Zhou and Mohit Bansal	8759
<i>Uncertain Natural Language Inference</i>	
Tongfei Chen, Zhengping Jiang, Adam Poliak, Keisuke Sakaguchi and Benjamin Van Durme	8772
<i>Extracting Headless MWEs from Dependency Parse Trees: Parsing, Tagging, and Joint Modeling Approaches</i>	
Tianze Shi and Lillian Lee	8780

<i>Revisiting Higher-Order Dependency Parsers</i>	
Erick Fonseca and André F. T. Martins	8795
<i>SeqVAT: Virtual Adversarial Training for Semi-Supervised Sequence Labeling</i>	
Luoxin Chen, Weitong Ruan, Xinyue Liu and Jianhua Lu	8801
<i>Treebank Embedding Vectors for Out-of-domain Dependency Parsing</i>	
Joachim Wagner, James Barry and Jennifer Foster	8812

Conference Program

Note: *Papers are prefixed with a tag identifying their source: main conference long papers, [Long]; main conference short papers, [Short]; main conference demo papers, [Demo]; student research workshop papers [SRW]; Transactions of the Association for Computational Linguistics articles, [TACL]; and Computational Linguistics articles, [CL].*

Monday, July 6, 2020 UTC+0

05:00–05:45 Demo Session 1A

[Demo] Xiaomingbot: A Multilingual Robot News Reporter
Runxin Xu, Jun Cao, Mingxuan Wang, Jiaze Chen, Hao Zhou, Ying Zeng, Yuping Wang, Li Chen, Xiang Yin, Xijin Zhang, Songcheng Jiang, Yuxuan Wang and Lei Li

05:00–06:00 Session 1A Cognitive Modeling and Psycholinguistics-1

[TACL] How Furiously Can Colourless Green Ideas Sleep? Sentence Acceptability in Context
Jey Han Lau, Carlos Santos Armendariz, Matthew Purver, Chang Shu, Shalom Lap-pin

[Short] Learning to Understand Child-directed and Adult-directed Speech
Lieke Gelderloos, Grzegorz Chrupała and Afra Alishahi

[Long] Predicting Depression in Screening Interviews from Latent Categorization of Interview Prompts
Alex Rinaldi, Jean Fox Tree and Snigdha Chaturvedi

05:00–06:00 Session 1A Dialogue and Interactive Systems-1

[Short] Coach: A Coarse-to-Fine Approach for Cross-domain Slot Filling
Zihan Liu, Genta Indra Winata, Peng Xu and Pascale Fung

[Short] Designing Precise and Robust Dialogue Response Evaluators
Tianyu Zhao, Divesh Lala and Tatsuya Kawahara

[Short] Dialogue State Tracking with Explicit Slot Connection Modeling
Yawen Ouyang, Moxin Chen, Xinyu Dai, Yinggong Zhao, Shujian Huang and Jia-jun CHEN

[Long] Generating Informative Conversational Response using Recurrent Knowledge-Interaction and Knowledge-Copy
Xiexiong Lin, Weiyu Jian, Jianshan He, Taifeng Wang and Wei Chu

Monday, July 6, 2020 UTC+0 (continued)

[Long] Guiding Variational Response Generator to Exploit Persona

Bowen Wu, MengYuan Li, Zongsheng Wang, Yifu Chen, Derek F. Wong, qihang feng, Junhong Huang and Baoxun Wang

[Long] Large Scale Multi-Actor Generative Dialog Modeling

Alex Boyd, Raul Puri, Mohammad Shoeybi, Mostofa Patwary and Bryan Catanzaro

[Long] PLATO: Pre-trained Dialogue Generation Model with Discrete Latent Variable

Siqi Bao, Huang He, Fan Wang, Hua Wu and Haifeng Wang

[Long] Slot-consistent NLG for Task-oriented Dialogue Systems with Iterative Rectification Network

Yangming Li, Kaisheng Yao, Libo Qin, Wanxiang Che, Xiaolong Li and Ting Liu

[Short] Span-ConveRT: Few-shot Span Extraction for Dialog with Pretrained Conversational Representations

Samuel Coope, Tyler Farghly, Daniela Gerz, Ivan Vulić and Matthew Henderson

[Long] Zero-Shot Transfer Learning with Synthesized Data for Multi-Domain Dialogue State Tracking

Giovanni Campagna, Agata Foryciarz, Mehrad Moradshahi and Monica Lam

05:00–06:00 Session 1A Discourse and Pragmatics-1

[Short] A Complete Shift-Reduce Chinese Discourse Parser with Robust Dynamic Oracle

Shyh-Shiun Hung, Hen-Hsen Huang and Hsin-Hsi Chen

[Long] TransS-Driven Joint Learning Architecture for Implicit Discourse Relation Recognition

Ruifang He, Jian Wang, Fengyu Guo and Yugui Han

Monday, July 6, 2020 UTC+0 (continued)

05:00–06:00 Session 1A Generation-1

[Long] A Study of Non-autoregressive Model for Sequence Generation

Yi Ren, Jinglin Liu, Xu Tan, Zhou Zhao, sheng zhao and Tie-Yan Liu

[Long] Cross-modal Language Generation using Pivot Stabilization for Web-scale Language Coverage

Ashish V. Thapliyal and Radu Soricut

[Long] Fact-based Text Editing

Hayate Iso, Chao Qiao and Hang Li

[Short] Few-Shot NLG with Pre-Trained Language Model

Zhiyu Chen, Harini Eavani, Wenhui Chen, Yinyin Liu and William Yang Wang

[Long] Fluent Response Generation for Conversational Question Answering

Ashutosh Baheti, Alan Ritter and Kevin Small

[Long] Generating Diverse and Consistent QA pairs from Contexts with Information-Maximizing Hierarchical Conditional VAEs

Dong Bok Lee, Seanie Lee, Woo Tae Jeong, Donghwan Kim and Sung Ju Hwang

[Long] Learning to Ask More: Semi-Autoregressive Sequential Question Generation under Dual-Graph Interaction

Zi Chai and Xiaojun Wan

[Long] Neural Syntactic Preordering for Controlled Paraphrase Generation

Tanya Goyal and Greg Durrett

[Long] Pre-train and Plug-in: Flexible Conditional Text Generation with Variational Auto-Encoders

Yu Duan, Canwen Xu, Jiaxin Pei, Jialong Han and Chenliang Li

[Long] Probabilistically Masked Language Model Capable of Autoregressive Generation in Arbitrary Word Order

Yi Liao, Xin Jiang and Qun Liu

[Short] Reverse Engineering Configurations of Neural Text Generation Models

Yi Tay, Dara Bahri, Che Zheng, Clifford Brunk, Donald Metzler and Andrew Tomkins

Monday, July 6, 2020 UTC+0 (continued)

[Long] Review-based Question Generation with Adaptive Instance Transfer and Augmentation

Qian Yu, Lidong Bing, Qiong Zhang, Wai Lam and Luo Si

[Long] TAG : Type Auxiliary Guiding for Code Comment Generation

Ruichu Cai, Zhihao Liang, Boyan Xu, zijian li, Yuexing Hao and Yao Chen

[Long] Unsupervised Paraphrasing by Simulated Annealing

Xianggen Liu, Lili Mou, Fandong Meng, Hao Zhou, Jie Zhou and Sen Song

05:00–06:00 Session 1A Information Retrieval and Text Mining-1

[Long] A Joint Model for Document Segmentation and Segment Labeling

Joe Barrow, Rajiv Jain, Vlad Morariu, Varun Manjunatha, Douglas Oard and Philip Resnik

[Long] Contextualized Weak Supervision for Text Classification

Dheeraj Mekala and Jingbo Shang

[Short] Every Document Owns Its Structure: Inductive Text Classification via Graph Neural Networks

Yufeng Zhang, Xueli Yu, Zeyu Cui, Shu Wu, Zhongzhen Wen and Liang Wang

[Long] Neural Topic Modeling with Bidirectional Adversarial Training

Rui Wang, Xuemeng Hu, Deyu Zhou, Yulan He, Yuxuan Xiong, Chenchen Ye and Haiyang Xu

[Short] Text Classification with Negative Supervision

Sora Ohashi, Junya Takayama, Tomoyuki Kajiwara, Chenhui Chu and Yuki Arase

Monday, July 6, 2020 UTC+0 (continued)

05:00–06:00 Session 1A Machine Translation-1

[Short] Content Word Aware Neural Machine Translation

Kehai Chen, Rui Wang, Masao Utiyama and Eiichiro Sumita

[Long] Evaluating Explanation Methods for Neural Machine Translation

Jierui Li, Lemaoyang Liu, Huayang Li, Guanlin Li, Guoping Huang and Shuming Shi

[Long] Jointly Masked Sequence-to-Sequence Model for Non-Autoregressive Neural Machine Translation

Junliang Guo, Linli Xu and Enhong Chen

[Long] Learning Source Phrase Representations for Neural Machine Translation

Hongfei Xu, Josef van Genabith, Deyi Xiong, Qiuhui Liu and Jingyi Zhang

[Short] Lipschitz Constrained Parameter Initialization for Deep Transformers

Hongfei Xu, Qiuhui Liu, Josef van Genabith, Deyi Xiong and Jingyi Zhang

[Long] Location Attention for Extrapolation to Longer Sequences

Yann Dubois, Gautier Dagan, Dieuwke Hupkes and Elia Bruni

[Long] Multiscale Collaborative Deep Models for Neural Machine Translation

Xiangpeng Wei, Heng Yu, Yue Hu, Yue Zhang, Rongxiang Weng and Weihua Luo

[Long] Norm-Based Curriculum Learning for Neural Machine Translation

Xuebo Liu, Houtim Lai, Derek F. Wong and Lidia S. Chao

[Short] Opportunistic Decoding with Timely Correction for Simultaneous Translation

Renjie Zheng, Mingbo Ma, Baigong Zheng, Kaibo Liu and Liang Huang

Monday, July 6, 2020 UTC+0 (continued)

05:00–06:00 Session 1A Theory and Formalism in NLP (Linguistic and Mathematical)-1

[Long] A Formal Hierarchy of RNN Architectures

William Merrill, Gail Weiss, Yoav Goldberg, Roy Schwartz, Noah A. Smith and Eran Yahav

[Short] A Three-Parameter Rank-Frequency Relation in Natural Languages

Chenchen Ding, Masao Utiyama and Eiichiro Sumita

[Long] Dice Loss for Data-imbalanced NLP Tasks

Xiaoya Li, Xiaofei Sun, Yuxian Meng, Junjun Liang, Fei Wu and Jiwei Li

[Long] Emergence of Syntax Needs Minimal Supervision

Raphaël Bailly and Kata Gábor

[Long] Language Models as an Alternative Evaluator of Word Order Hypotheses: A Case Study in Japanese

Tatsuki Kuribayashi, Takumi Ito, Jun Suzuki and Kentaro Inui

[TACL] Theoretical Limitations of Self-Attention in Neural Sequence Models

Michael Hahn

05:00–06:00 Session 1A Student Research Workshop

[SRW] Adaptive Transformers for Learning Multimodal Representations

Prajwal Bhargava

[SRW] Story-level Text Style Transfer: A Proposal

Yusu Qian

[SRW] Unsupervised Paraphasia Classification in Aphasic Speech

Sharan Pai, Nikhil Sachdeva, Prince Sachdeva and Rajiv Ratn Shah

[SRW] HGCN4MeSH: Hybrid Graph Convolution Network for MeSH Indexing

Miaomiao Yu, Yujia Yang and Chenhui Li

Monday, July 6, 2020 UTC+0 (continued)

05:45–06:30 Demo Session 1B

[Demo] TextBrewer: An Open-Source Knowledge Distillation Toolkit for Natural Language Processing

Ziqing Yang, Yiming Cui, Zhipeng Chen, Wanxiang Che, Ting Liu, Shijin Wang and Guoping Hu

06:00–07:00 Session 1B Computational Social Science and Social Media-1

[Long] GCAN: Graph-aware Co-Attention Networks for Explainable Fake News Detection on Social Media

Yi-Ju Lu and Cheng-Te Li

[Long] Integrating Semantic and Structural Information with Graph Convolutional Network for Controversy Detection

Lei Zhong, Juan Cao, Qiang Sheng, Junbo Guo and Ziang Wang

[Long] Predicting the Topical Stance and Political Leaning of Media using Tweets

Peter Stefanov, Kareem Darwish, Atanas Atanasov and Preslav Nakov

[Long] Simple, Interpretable and Stable Method for Detecting Words with Usage Change across Corpora

Hila Gonen, Ganesh Jawahar, Djamé Seddah and Yoav Goldberg

06:00–07:00 Session 1B Dialogue and Interactive Systems-2

[Long] CDL: Curriculum Dual Learning for Emotion-Controllable Response Generation

Lei Shen and Yang Feng

[TACL] CrossWOZ: A Large-Scale Chinese Cross-Domain Task-Oriented Dialogue Dataset

Qi Zhu, Kaili Huang, Zheng Zhang, Xiaoyan Zhu, Minlie Huang

[Long] Efficient Dialogue State Tracking by Selectively Overwriting Memory

Sungdong Kim, Sohee Yang, Gyuwan Kim and Sang-Woo Lee

[Long] End-to-End Neural Pipeline for Goal-Oriented Dialogue Systems using GPT-2

Donghoon Ham, Jeong-Gwan Lee, Youngsoo Jang and Kee-Eung Kim

[Short] Evaluating Dialogue Generation Systems via Response Selection

Shiki Sato, Reina Akama, Hiroki Ouchi, Jun Suzuki and Kentaro Inui

Monday, July 6, 2020 UTC+0 (continued)

[Long] Gated Convolutional Bidirectional Attention-based Model for Off-topic Spoken Response Detection

Yefei Zha, Ruobing Li and Hui Lin

[Short] Learning Low-Resource End-To-End Goal-Oriented Dialog for Fast and Reliable System Deployment

Yinpei Dai, Hangyu Li, Chengguang Tang, Yongbin Li, Jian Sun and Xiaodan Zhu

[Short] Learning to Tag OOV Tokens by Integrating Contextual Representation and Background Knowledge

Keqing He, Yuanmeng Yan and Weiran XU

[Long] Multi-Agent Task-Oriented Dialog Policy Learning with Role-Aware Reward Decomposition

Ryuichi Takanobu, Runze Liang and Minlie Huang

[Long] Paraphrase Augmented Task-Oriented Dialog Generation

Silin Gao, Yichi Zhang, Zhijian Ou and Zhou Yu

[Long] Response-Anticipated Memory for On-Demand Knowledge Integration in Response Generation

Zhiliang Tian, Wei Bi, Dongkyu Lee, Lanqing Xue, YIPING SONG, Xiaojiang Liu and Nevin L. Zhang

[Long] Semi-Supervised Dialogue Policy Learning via Stochastic Reward Estimation

Xinting Huang, Jianzhong Qi, Yu Sun and Rui Zhang

[Long] Towards Unsupervised Language Understanding and Generation by Joint Dual Learning

Shang-Yu Su, Chao-Wei Huang and Yun-Nung Chen

[Long] USR: An Unsupervised and Reference Free Evaluation Metric for Dialog Generation

Shikib Mehri and Maxine Eskenazi

Monday, July 6, 2020 UTC+0 (continued)

06:00–07:00 Session 1B Generation-2

[Long] Explicit Semantic Decomposition for Definition Generation

Jiahuan Li, Yu Bao, Shujian Huang, Xinyu Dai and Jiajun CHEN

[Long] Improved Natural Language Generation via Loss Truncation

Daniel Kang and Tatsunori Hashimoto

[Long] Line Graph Enhanced AMR-to-Text Generation with Mix-Order Graph Attention Networks

Yanbin Zhao, Lu Chen, Zhi Chen, Ruisheng Cao, Su Zhu and Kai Yu

[Long] Rigid Formats Controlled Text Generation

Piji Li, Haisong Zhang, Xiaojiang Liu and Shuming Shi

[Long] Syn-QG: Syntactic and Shallow Semantic Rules for Question Generation

Kaustubh Dhole and Christopher D. Manning

06:00–07:00 Session 1B Information Retrieval and Text Mining-2

[Long] An Online Semantic-enhanced Dirichlet Model for Short Text Stream Clustering

Jay Kumar, Junming Shao, Salah Uddin and Wazir Ali

[Long] Generative Semantic Hashing Enhanced via Boltzmann Machines

Lin Zheng, Qinliang Su, Dinghan Shen and Changyou Chen

[Long] Interactive Construction of User-Centric Dictionary for Text Analytics

Ryosuke Kohita, Issei Yoshida, Hiroshi Kanayama and Tetsuya Nasukawa

[Short] Tree-Structured Neural Topic Model

Masaru Isonuma, Junichiro Mori, Danushka Bollegala and Ichiro Sakata

[Short] Unsupervised FAQ Retrieval with Question Generation and BERT

Yosi Mass, Boaz Carmeli, Haggai Roitman and David Konopnicki

Monday, July 6, 2020 UTC+0 (continued)

06:00–07:00 Session 1B NLP Applications-1

[Long] "The Boating Store Had Its Best Sail Ever": Pronunciation-attentive Contextualized Pun Recognition

Yichao Zhou, Jyun-Yu Jiang, Jieyu Zhao, Kai-Wei Chang and Wei Wang

[Long] Fast and Accurate Deep Bidirectional Language Representations for Unsupervised Learning

Joongbo Shin, Yoonhyung Lee, Seunghyun Yoon and Kyomin Jung

[Long] Fine-grained Interest Matching for Neural News Recommendation

Heyuan Wang, Fangzhao Wu, Zheng Liu and Xing Xie

[Short] Interpretable Operational Risk Classification with Semi-Supervised Variational Autoencoder

Fan Zhou, Shengming Zhang and Yi Yang

[Short] Interpreting Twitter User Geolocation

Ting Zhong, Tianliang Wang, Fan Zhou, Goce Trajcevski, Kunpeng Zhang and Yi Yang

[Long] Modeling Code-Switch Languages Using Bilingual Parallel Corpus

Grandee Lee and Haizhou Li

[Long] SpellGCN: Incorporating Phonological and Visual Similarities into Language Models for Chinese Spelling Check

Xingyi Cheng, Weidi Xu, Kunlong Chen, Shaohua Jiang, Feng Wang, Taifeng Wang, Wei Chu and Yuan Qi

[Long] Spelling Error Correction with Soft-Masked BERT

Shaohua Zhang, Haoran Huang, Jicong Liu and Hang Li

Monday, July 6, 2020 UTC+0 (continued)

06:00–07:00 Session 1B Question Answering-1

[Short] A Frame-based Sentence Representation for Machine Reading Comprehension

Shaoru Guo, Ru Li, Hongye Tan, Xiaoli Li, Yong Guan, Hongyan Zhao and Yueping Zhang

[Long] A Methodology for Creating Question Answering Corpora Using Inverse Data Annotation

Jan Deriu, Katsiaryna Mlynchyk, Philippe Schläpfer, Alvaro Rodrigo, Dirk von Grünigen, Nicolas Kaiser, Kurt Stockinger, Eneko Agirre and Mark Cieliebak

[Short] Contextualized Sparse Representations for Real-Time Open-Domain Question Answering

Jinhyuk Lee, Minjoon Seo, Hannaneh Hajishirzi and Jaewoo Kang

[Short] Dynamic Sampling Strategies for Multi-Task Reading Comprehension

Ananth Gottumukkala, Dheeru Dua, Sameer Singh and Matt Gardner

[Long] Enhancing Answer Boundary Detection for Multilingual Machine Reading Comprehension

Fei Yuan, Linjun Shou, Xuanyu Bai, Ming Gong, Yaobo Liang, Nan Duan, Yan Fu and Daxin Jiang

[Long] Explicit Memory Tracker with Coarse-to-Fine Reasoning for Conversational Machine Reading

Yifan Gao, Chien-Sheng Wu, Shafiq Joty, Caiming Xiong, Richard Socher, Irwin King, Michael Lyu and Steven C.H. Hoi

[Long] Injecting Numerical Reasoning Skills into Language Models

Mor Geva, Ankit Gupta and Jonathan Berant

[Long] Learning to Identify Follow-Up Questions in Conversational Question Answering

Souvik Kundu, Qian Lin and Hwee Tou Ng

[Short] Query Graph Generation for Answering Multi-hop Complex Questions from Knowledge Bases

Yunshi Lan and Jing Jiang

Monday, July 6, 2020 UTC+0 (continued)

06:00–07:00 Session 1B Resources and Evaluation-1

[Short] A Diverse Corpus for Evaluating and Developing English Math Word Problem Solvers

Shen-yun Miao, Chao-Chun Liang and Keh-Yih Su

[Long] Improving Image Captioning Evaluation by Considering Inter References Variance

Yanzhi Yi, Hangyu Deng and Jinglu Hu

[Long] Revisiting the Context Window for Cross-lingual Word Embeddings

Ryokan Ri and Yoshimasa Tsuruoka

06:00–07:00 Session 1B Semantics: Lexical-1

[Long] Moving Down the Long Tail of Word Sense Disambiguation with Gloss Informed Bi-encoders

Terra Blevins and Luke Zettlemoyer

06:00–07:00 Session 1B Student Research Workshop

[SRW] Grammatical Error Correction Using Pseudo Learner Corpus Considering Learner's Error Tendency

Yujin Takahashi, Satoru Katsumata and Mamoru Komachi

[SRW] Research on Task Discovery for Transfer Learning in Deep Neural Networks

Arda Akdemir

[SRW] RPD: A Distance Function Between Word Embeddings

Xuhui Zhou, Shujian Huang and Zaixiang Zheng

[SRW] Reflection-based Word Attribute Transfer

Yoichi Ishibashi, Katsuhito Sudoh, Koichiro Yoshino and Satoshi Nakamura

Monday, July 6, 2020 UTC+0 (continued)

06:30–07:15 Demo Session 1C

[Demo] Syntactic Search by Example

Micah Shlain, Hillel Taub-Tabib, Shoval Sadde and Yoav Goldberg

08:00–08:45 Demo Session 2A

[Demo] Tabouid: a Wikipedia-based word guessing game

Timothée Bernard

[Demo] Talk to Papers: Bringing Neural Question Answering to Academic Search

Tiancheng Zhao and Kyusong Lee

08:00–09:00 Session 2A Computational Social Science and Social Media-2

[Short] Code-Switching Patterns Can Be an Effective Route to Improve Performance of Downstream NLP Applications: A Case Study of Humour, Sarcasm and Hate Speech Detection

Srijan Bansal, Vishal Garimella, Ayush Suhane, Jasabanta Patro and Animesh Mukherjee

[Long] DTCA: Decision Tree-based Co-Attention Networks for Explainable Claim Verification

Lianwei Wu, Yuan Rao, yongqiang zhao, Hao Liang and Ambreen Nazir

[Long] Integrating Semantic and Structural Information with Graph Convolutional Network for Controversy Detection

Lei Zhong, Juan Cao, Qiang Sheng, Junbo Guo and Ziang Wang

[Long] Predicting the Topical Stance and Political Leaning of Media using Tweets

Peter Stefanov, Kareem Darwish, Atanas Atanasov and Preslav Nakov

[Long] Simple, Interpretable and Stable Method for Detecting Words with Usage Change across Corpora

Hila Gonen, Ganesh Jawahar, Djamé Seddah and Yoav Goldberg

Monday, July 6, 2020 UTC+0 (continued)

08:00–09:00 Session 2A Dialogue and Interactive Systems-3

[Long] CDL: Curriculum Dual Learning for Emotion-Controllable Response Generation

Lei Shen and Yang Feng

[Short] Learning Low-Resource End-To-End Goal-Oriented Dialog for Fast and Reliable System Deployment

Yinpei Dai, Hangyu Li, Chengguang Tang, Yongbin Li, Jian Sun and Xiaodan Zhu

[Long] Response-Anticipated Memory for On-Demand Knowledge Integration in Response Generation

Zhiliang Tian, Wei Bi, Dongkyu Lee, Lanqing Xue, YIPING SONG, Xiaojiang Liu and Nevin L. Zhang

[Long] Towards Conversational Recommendation over Multi-Type Dialogs

Zeming Liu, Haifeng Wang, Zheng-Yu Niu, Hua Wu, Wanxiang Che and Ting Liu

[Long] Towards Unsupervised Language Understanding and Generation by Joint Dual Learning

Shang-Yu Su, Chao-Wei Huang and Yun-Nung Chen

[Long] Unknown Intent Detection Using Gaussian Mixture Model with an Application to Zero-shot Intent Classification

Guangfeng Yan, Lu Fan, Qimai Li, Han Liu, Xiaotong Zhang, Xiao-Ming Wu and Albert Y.S. Lam

08:00–09:00 Session 2A Generation-3

[Long] Expertise Style Transfer: A New Task Towards Better Communication between Experts and Laymen

Yixin Cao, Ruihao Shui, Liangming Pan, Min-Yen Kan, Zhiyuan Liu and Tat-Seng Chua

[Long] Fact-based Text Editing

Hayate Iso, Chao Qiao and Hang Li

[Long] Fluent Response Generation for Conversational Question Answering

Ashutosh Baheti, Alan Ritter and Kevin Small

[Long] Learning to Ask More: Semi-Autoregressive Sequential Question Generation under Dual-Graph Interaction

Zi Chai and Xiaojun Wan

Monday, July 6, 2020 UTC+0 (continued)

[Long] Line Graph Enhanced AMR-to-Text Generation with Mix-Order Graph Attention Networks

Yanbin Zhao, Lu Chen, Zhi Chen, Ruisheng Cao, Su Zhu and Kai Yu

[Long] Probabilistically Masked Language Model Capable of Autoregressive Generation in Arbitrary Word Order

Yi Liao, Xin Jiang and Qun Liu

[Long] Review-based Question Generation with Adaptive Instance Transfer and Augmentation

Qian Yu, Lidong Bing, Qiong Zhang, Wai Lam and Luo Si

[Long] Towards Faithful Neural Table-to-Text Generation with Content-Matching Constraints

Zhenyi Wang, Xiaoyang Wang, Bang An, Dong Yu and Changyou Chen

08:00–09:00 Session 2A Information Retrieval and Text Mining-3

[Short] Dynamic Memory Induction Networks for Few-Shot Text Classification

Ruiying Geng, Binhua Li, Yongbin Li, Jian Sun and Xiaodan Zhu

[Short] Every Document Owns Its Structure: Inductive Text Classification via Graph Neural Networks

Yufeng Zhang, Xueli Yu, Zeyu Cui, Shu Wu, Zhongzhen Wen and Liang Wang

[Long] Exclusive Hierarchical Decoding for Deep Keyphrase Generation

Wang Chen, Hou Pong Chan, Piji Li and Irwin King

[Long] Hierarchy-Aware Global Model for Hierarchical Text Classification

Jie Zhou, Chunping Ma, Dingkun Long, Guangwei Xu, Ning Ding, Haoyu Zhang, Pengjun Xie and Gongshen Liu

[Long] Interactive Construction of User-Centric Dictionary for Text Analytics

Ryosuke Kohita, Issei Yoshida, Hiroshi Kanayama and Tetsuya Nasukawa

[Short] Keyphrase Generation for Scientific Document Retrieval

Florian Boudin, Ygor Gallina and Akiko Aizawa

[Long] Neural Topic Modeling with Bidirectional Adversarial Training

Rui Wang, Xuemeng Hu, Deyu Zhou, Yulan He, Yuxuan Xiong, Chenchen Ye and Haiyang Xu

Monday, July 6, 2020 UTC+0 (continued)

[Short] Text Classification with Negative Supervision

Sora Ohashi, Junya Takayama, Tomoyuki Kajiwara, Chenhui Chu and Yuki Arase

[Short] Tree-Structured Neural Topic Model

Masaru Isonuma, Junichiro Mori, Danushka Bollegala and Ichiro Sakata

08:00–09:00 Session 2A Phonology, Morphology and Word Segmentation-1

[Long] A Graph Auto-encoder Model of Derivational Morphology

Valentin Hofmann, Hinrich Schütze and Janet Pierrehumbert

08:00–09:00 Session 2A Question Answering-2

[Short] A Frame-based Sentence Representation for Machine Reading Comprehension

Shaoru Guo, Ru Li, Hongye Tan, Xiaoli Li, Yong Guan, Hongyan Zhao and Yueping Zhang

[Long] A Methodology for Creating Question Answering Corpora Using Inverse Data Annotation

Jan Deriu, Katsiaryna Mlynchyk, Philippe Schläpfer, Alvaro Rodrigo, Dirk von Grünigen, Nicolas Kaiser, Kurt Stockinger, Eneko Agirre and Mark Cieliebak

[Long] Enhancing Answer Boundary Detection for Multilingual Machine Reading Comprehension

Fei Yuan, Linjun Shou, Xuanyu Bai, Ming Gong, Yaobo Liang, Nan Duan, Yan Fu and Daxin Jiang

[Long] Explicit Memory Tracker with Coarse-to-Fine Reasoning for Conversational Machine Reading

Yifan Gao, Chien-Sheng Wu, Shafiq Joty, Caiming Xiong, Richard Socher, Irwin King, Michael Lyu and Steven C.H. Hoi

[Long] Injecting Numerical Reasoning Skills into Language Models

Mor Geva, Ankit Gupta and Jonathan Berant

[Long] Learning to Identify Follow-Up Questions in Conversational Question Answering

Souvik Kundu, Qian Lin and Hwee Tou Ng

[Short] Query Graph Generation for Answering Multi-hop Complex Questions from Knowledge Bases

Yunshi Lan and Jing Jiang

Monday, July 6, 2020 UTC+0 (continued)

08:00–09:00 Session 2A Resources and Evaluation-2

[Long] Building a User-Generated Content North-African Arabizi Treebank: Tackling Hell

Djamé Seddah, Farah Essaidi, Amal Fethi, Matthieu Futral, Benjamin Muller, Pedro Javier Ortiz Suárez, Benoît Sagot and Abhishek Srivastava

[Short] Crawling and Preprocessing Mailing Lists At Scale for Dialog Analysis

Janek Bevendorff, Khalid Al Khatib, Martin Potthast and Benno Stein

[Long] Fine-Grained Analysis of Cross-Linguistic Syntactic Divergences

Dmitry Nikolaev, Ofir Arviv, Taelin Karidi, Neta Kenneth, Veronika Mitnik, Lilja Maria Saeboe and Omri Abend

[Long] Generating Counter Narratives against Online Hate Speech: Data and Strategies

Serra Sinem Tekiroğlu, Yi-Ling Chung and Marco Guerini

[Long] KLEJ: Comprehensive Benchmark for Polish Language Understanding

Piotr Rybak, Robert Mroczkowski, Janusz Tracz and Ireneusz Gawlik

[Long] Learning and Evaluating Emotion Lexicons for 91 Languages

Sven Buechel, Susanna Rücker and Udo Hahn

[Long] Multi-Hypothesis Machine Translation Evaluation

Marina Fomicheva, Lucia Specia and Francisco Guzmán

[Short] Multimodal Quality Estimation for Machine Translation

Shu Okabe, Frédéric Blain and Lucia Specia

[Long] PuzzLing Machines: A Challenge on Learning From Small Data

Gözde Gül Şahin, Yova Kementchedjhieva, Phillip Rust and Iryna Gurevych

[Long] The SOFC-Exp Corpus and Neural Approaches to Information Extraction in the Materials Science Domain

Annemarie Friedrich, Heike Adel, Federico Tomazic, Johannes Hingerl, Renou Benteau, Anika Marusczyk and Lukas Lange

[Long] The TechQA Dataset

Vittorio Castelli, Rishav Chakravarti, Saswati Dana, Anthony Ferritto, Radu Florian, Martin Franz, Dinesh Garg, Dinesh Khandelwal, Scott McCarley, Michael McCawley, Mohamed Nasr, Lin Pan, Cezar Pendus, John Pitrelli, Saurabh Pujar, Salim Roukos, Andrzej Sakrajda, Avi Sil, Rosario Uceda-Sosa, Todd Ward and Rong Zhang

Monday, July 6, 2020 UTC+0 (continued)

[Long] iSarcasm: A Dataset of Intended Sarcasm

Silviu Oprea and Walid Magdy

08:00–09:00 Session 2A Semantics: Sentence Level-1

[Long] AMR Parsing via Graph-Sequence Iterative Inference

Deng Cai and Wai Lam

08:00–09:00 Session 2A Summarization-1

[Short] A Large-Scale Multi-Document Summarization Dataset from the Wikipedia Current Events Portal

Demian Gholipour Ghalandari, Chris Hokamp, Nghia The Pham, John Glover and Georgiana Ifrim

[Long] Attend, Translate and Summarize: An Efficient Method for Neural Cross-Lingual Summarization

Junnan Zhu, Yu Zhou, Jiajun Zhang and Chengqing Zong

[Long] Examining the State-of-the-Art in News Timeline Summarization

Demian Gholipour Ghalandari and Georgiana Ifrim

[Long] Improving Truthfulness of Headline Generation

Kazuki Matsumaru, Sho Takase and Naoaki Okazaki

[Short] SUPERT: Towards New Frontiers in Unsupervised Evaluation Metrics for Multi-Document Summarization

Yang Gao, Wei Zhao and Steffen Eger

[Short] Self-Attention Guided Copy Mechanism for Abstractive Summarization

Song Xu, Haoran Li, Peng Yuan, Youzheng Wu, Xiaodong He and Bowen Zhou

Monday, July 6, 2020 UTC+0 (continued)

08:00–09:00 Session 2A Student Research Workshop

[SRW] Topic Balancing with Additive Regularization of Topic Models
Eugeniia Veselova and Konstantin Vorontsov

[SRW] Combining Subword Representations into Word-level Representations in the Transformer Architecture
Noe Casas, Marta R. Costa-jussà and José A. R. Fonollosa

[SRW] Zero-shot North Korean to English Neural Machine Translation by Character Tokenization and Phoneme Decomposition
Hwichan Kim, Tosho Hirasawa and Mamoru Komachi

[SRW] Media Bias, the Social Sciences, and NLP: Automating Frame Analyses to Identify Bias by Word Choice and Labeling
Felix Hamborg

08:45–09:30 Demo Session 2B

[Demo] Personalized PageRank with Syntagmatic Information for Multilingual Word Sense Disambiguation
Federico Scozzafava, Marco Maru, Fabrizio Brignone, Giovanni Torrisi and Roberto Navigli

09:00–10:00 Session 2B Cognitive Modeling and Psycholinguistics-2

[TACL] How Furiously Can Colourless Green Ideas Sleep? Sentence Acceptability in Context
Jey Han Lau, Carlos Santos Armendariz, Matthew Purver, Chang Shu, Shalom Lap-pin

[Long] Predicting Depression in Screening Interviews from Latent Categorization of Interview Prompts
Alex Rinaldi, Jean Fox Tree and Snigdha Chaturvedi

Monday, July 6, 2020 UTC+0 (continued)

09:00–10:00 Session 2B Dialogue and Interactive Systems-4

[Long] Beyond User Self-Reported Likert Scale Ratings: A Comparison Model for Automatic Dialog Evaluation

Weixin Liang, James Zou and Zhou Yu

[Short] Conversational Word Embedding for Retrieval-Based Dialog System

Wentao Ma, Yiming Cui, Ting Liu, Dong Wang, Shijin Wang and Guoping Hu

[Short] Designing Precise and Robust Dialogue Response Evaluators

Tianyu Zhao, Divesh Lala and Tatsuya Kawahara

[Short] Evaluating Dialogue Generation Systems via Response Selection

Shiki Sato, Reina Akama, Hiroki Ouchi, Jun Suzuki and Kentaro Inui

[Long] Few-shot Slot Tagging with Collapsed Dependency Transfer and Label-enhanced Task-adaptive Projection Network

Yutai Hou, Wanxiang Che, Yongkui Lai, Zhihan Zhou, Yijia Liu, Han Liu and Ting Liu

[Long] Generating Informative Conversational Response using Recurrent Knowledge-Interaction and Knowledge-Copy

Xiexiong Lin, Weiyu Jian, Jianshan He, Taifeng Wang and Wei Chu

[Long] Guiding Variational Response Generator to Exploit Persona

Bowen Wu, MengYuan Li, Zongsheng Wang, Yifu Chen, Derek F. Wong, qihang feng, Junhong Huang and Baoxun Wang

[Long] Learning Dialog Policies from Weak Demonstrations

Gabriel Gordon-Hall, Philip John Gorinski and Shay B. Cohen

[Long] MuTual: A Dataset for Multi-Turn Dialogue Reasoning

Leyang Cui, Yu Wu, Shujie Liu, Yue Zhang and Ming Zhou

[Long] You Impress Me: Dialogue Generation via Mutual Persona Perception

Qian Liu, Yihong Chen, Bei Chen, Jian-Guang LOU, Zixuan Chen, Bin Zhou and Dongmei Zhang

Monday, July 6, 2020 UTC+0 (continued)

09:00–10:00 Session 2B Discourse and Pragmatics-2

[Long] Bridging Anaphora Resolution as Question Answering

Yufang Hou

[Long] Dialogue Coherence Assessment Without Explicit Dialogue Act Labels

Mohsen Mesgar, Sebastian Bückner and Iryna Gurevych

09:00–10:00 Session 2B Generation-4

[Long] Explicit Semantic Decomposition for Definition Generation

Jiahuan Li, Yu Bao, Shujian Huang, Xinyu Dai and Jiajun CHEN

[Long] Fast and Accurate Non-Projective Dependency Tree Linearization

Xiang Yu, Simon Tannert, Ngoc Thang Vu and Jonas Kuhn

[Long] Semantic Graphs for Generating Deep Questions

Liangming Pan, Yuxi Xie, Yansong Feng, Tat-Seng Chua and Min-Yen Kan

[Long] Syn-QG: Syntactic and Shallow Semantic Rules for Question Generation

Kaustubh Dhole and Christopher D. Manning

[Long] Unsupervised Paraphrasing by Simulated Annealing

Xianggen Liu, Lili Mou, Fandong Meng, Hao Zhou, Jie Zhou and Sen Song

Monday, July 6, 2020 UTC+0 (continued)

09:00–10:00 Session 2B Information Extraction-1

[Long] A Novel Cascade Binary Tagging Framework for Relational Triple Extraction

Zhepei Wei, Jianlin Su, Yue Wang, Yuan Tian and Yi Chang

[Long] In Layman's Terms: Semi-Open Relation Extraction from Scientific Texts

Ruben Kruiper, Julian Vincent, Jessica Chen-Burger, Marc Desmulliez and Ioannis Konstas

[Long] NAT: Noise-Aware Training for Robust Neural Sequence Labeling

Marcin Namysl, Sven Behnke and Joachim Köhler

[Long] Named Entity Recognition without Labelled Data: A Weak Supervision Approach

Pierre Lison, Jeremy Barnes, Aliaksandr Hubin and Samia Touileb

[Long] Probing Linguistic Features of Sentence-Level Representations in Relation Extraction

Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig

[Long] Reasoning with Latent Structure Refinement for Document-Level Relation Extraction

Guoshun Nan, Zhijiang Guo, Ivan Sekulic and Wei Lu

[Long] TACRED Revisited: A Thorough Evaluation of the TACRED Relation Extraction Task

Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig

Monday, July 6, 2020 UTC+0 (continued)

09:00–10:00 Session 2B Machine Translation-2

[Long] Bilingual Dictionary Based Neural Machine Translation without Using Parallel Sentences

Xiangyu Duan, Baijun Ji, Hao Jia, Min Tan, Min Zhang, Boxing Chen, Weihua Luo and Yue Zhang

[Long] Boosting Neural Machine Translation with Similar Translations

Jitao XU, Josep Crego and Jean Senellart

[Short] Character-Level Translation with Self-attention

Yingqiang Gao, Nikola I. Nikolov, Yuhuang Hu and Richard H.R. Hahnloser

[Long] End-to-End Neural Word Alignment Outperforms GIZA++

Thomas Zenkel, Joern Wuebker and John DeNero

[Short] Enhancing Machine Translation with Dependency-Aware Self-Attention

Emanuele Bugliarello and Naoaki Okazaki

[Long] Improving Massively Multilingual Neural Machine Translation and Zero-Shot Translation

Biao Zhang, Philip Williams, Ivan Titov and Rico Sennrich

[Short] It's Easier to Translate out of English than into it: Measuring Neural Translation Difficulty by Cross-Mutual Information

Emanuele Bugliarello, Sabrina J. Mielke, Antonios Anastasopoulos, Ryan Cotterell and Naoaki Okazaki

[Short] Language-aware Interlingua for Multilingual Neural Machine Translation

Changfeng Zhu, Heng Yu, Shanbo Cheng and Weihua Luo

[Long] Norm-Based Curriculum Learning for Neural Machine Translation

Xuebo Liu, Houtim Lai, Derek F. Wong and Lidia S. Chao

[Long] On the Limitations of Cross-lingual Encoders as Exposed by Reference-Free Machine Translation Evaluation

Wei Zhao, Goran Glavaš, Maxime Peyrard, Yang Gao, Robert West and Steffen Eger

[Short] Parallel Sentence Mining by Constrained Decoding

Pinzhen Chen, Nikolay Bogoychev, Kenneth Heafield and Faheem Kirefu

Monday, July 6, 2020 UTC+0 (continued)

[Short] Self-Attention with Cross-Lingual Position Representation

Liang Ding, Longyue Wang and Dacheng Tao

[Short] “You Sound Just Like Your Father” Commercial Machine Translation Systems Include Stylistic Biases

Dirk Hovy, Federico Bianchi and Tommaso Fornaciari

09:00–10:00 Session 2B NLP Applications-2

[Long] Fast and Accurate Deep Bidirectional Language Representations for Unsupervised Learning

Joongbo Shin, Yoonhyung Lee, Seunghyun Yoon and Kyomin Jung

[Long] Fine-grained Interest Matching for Neural News Recommendation

Heyuan Wang, Fangzhao Wu, Zheng Liu and Xing Xie

[Short] Interpretable Operational Risk Classification with Semi-Supervised Variational Autoencoder

Fan Zhou, Shengming Zhang and Yi Yang

[Short] Interpreting Twitter User Geolocation

Ting Zhong, Tianliang Wang, Fan Zhou, Goce Trajcevski, Kunpeng Zhang and Yi Yang

[Long] MMPE: A Multi-Modal Interface for Post-Editing Machine Translation

Nico Herbig, Tim Düwel, Santanu Pal, Kalliopi Meladaki, Mahsa Monshizadeh, Antonio Krüger and Josef van Genabith

[Long] Modeling Code-Switch Languages Using Bilingual Parallel Corpus

Grandee Lee and Haizhou Li

[Long] SpellGCN: Incorporating Phonological and Visual Similarities into Language Models for Chinese Spelling Check

Xingyi Cheng, Weidi Xu, Kunlong Chen, Shaohua Jiang, Feng Wang, Taifeng Wang, Wei Chu and Yuan Qi

[Long] Spelling Error Correction with Soft-Masked BERT

Shaohua Zhang, Haoran Huang, Jicong Liu and Hang Li

Monday, July 6, 2020 UTC+0 (continued)

09:00–10:00 Session 2B Resources and Evaluation-3

[Short] A Diverse Corpus for Evaluating and Developing English Math Word Problem Solvers

Shen-yun Miao, Chao-Chun Liang and Keh-Yih Su

[Long] A Monolingual Approach to Contextualized Word Embeddings for Mid-Resource Languages

Pedro Javier Ortiz Suárez, Laurent Romary and Benoît Sagot

[Long] Improving Image Captioning Evaluation by Considering Inter References Variance

Yanzhi Yi, Hangyu Deng and Jinglu Hu

[Long] Revisiting the Context Window for Cross-lingual Word Embeddings

Ryokan Ri and Yoshimasa Tsuruoka

[Short] Will-They-Won't-They: A Very Large Dataset for Stance Detection on Twitter

Costanza Conforti, Jakob Berndt, Mohammad Taher Pilehvar, Chryssi Giannitsarou, Flavio Toxvaerd and Nigel Collier

09:00–10:00 Session 2B Theory and Formalism in NLP (Linguistic and Mathematical)-2

[Short] A Three-Parameter Rank-Frequency Relation in Natural Languages

Chenchen Ding, Masao Utiyama and Eiichiro Sumita

[Long] Dice Loss for Data-imbalanced NLP Tasks

Xiaoya Li, Xiaofei Sun, Yuxian Meng, Junjun Liang, Fei Wu and Jiwei Li

[Long] Language Models as an Alternative Evaluator of Word Order Hypotheses: A Case Study in Japanese

Tatsuki Kuribayashi, Takumi Ito, Jun Suzuki and Kentaro Inui

[TACL] Theoretical Limitations of Self-Attention in Neural Sequence Models

Michael Hahn

Monday, July 6, 2020 UTC+0 (continued)

09:00–10:00 Session 2B Student Research Workshop

[SRW] SCAR: Sentence Compression using Autoencoders for Reconstruction
Chanakya Malireddy, Tirth Maniar and Manish Shrivastava

[SRW] Feature Difference Makes Sense: A medical image captioning model exploiting feature difference and tag information
Hyeryun Park, Kyungmo Kim, Jooyoung Yoon, Seongkeun Park and Jinwook Choi

[SRW] Multi-Task Neural Model for Agglutinative Language Translation
Yirong Pan, Xiao Li, Yating Yang and Rui Dong

[SRW] Considering Likelihood in NLP Classification Explanations with Occlusion and Language Modeling
David Harbecke and Christoph Alt

09:30–10:15 Demo Session 2C

[Demo] pyBART: Evidence-based Syntactic Transformations for IE
Aryeh Tiktinsky, Yoav Goldberg and Reut Tsarfaty

12:00–12:45 Demo Session 3A

[Demo] EVIDENCEMINER: Textual Evidence Discovery for Life Sciences
Xuan Wang, Yingjun Guan, Weili Liu, Aabhas Chauhan, Enyi Jiang, Qi Li, David Liem, Dibakar Sigdel, John Caufield, Peipei Ping and Jiawei Han

[Demo] Trialstreamer: Mapping and Browsing Medical Evidence in Real-Time
Benjamin Nye, Ani Nenkova, Iain Marshall and Byron C. Wallace

Monday, July 6, 2020 UTC+0 (continued)

12:00–13:00 Session 3A Cognitive Modeling and Psycholinguistics-3

[Long] A Systematic Assessment of Syntactic Generalization in Neural Language Models

Jennifer Hu, Jon Gauthier, Peng Qian, Ethan Wilcox and Roger Levy

[Long] Inflecting When There's No Majority: Limitations of Encoder-Decoder Neural Networks as Cognitive Models for German Plurals

Kate McCurdy, Sharon Goldwater and Adam Lopez

[Short] Overestimation of Syntactic Representation in Neural Language Models

Jordan Kodner and Nitish Gupta

[Long] Suspense in Short Stories is Predicted By Uncertainty Reduction over Neural Story Representation

David Wilmot and Frank Keller

[Short] You Don't Have Time to Read This: An Exploration of Document Reading Time Prediction

Orion Weller, Jordan Hildebrandt, Ilya Reznik, Christopher Challis, E. Shannon Tass, Quinn Snell and Kevin Seppi

12:00–13:00 Session 3A Computational Social Science and Social Media-3

[Short] Code-Switching Patterns Can Be an Effective Route to Improve Performance of Downstream NLP Applications: A Case Study of Humour, Sarcasm and Hate Speech Detection

Srijan Bansal, Vishal Garimella, Ayush Suhane, Jasabanta Patro and Animesh Mukherjee

[Long] DTCA: Decision Tree-based Co-Attention Networks for Explainable Claim Verification

Lianwei Wu, Yuan Rao, yongqiang zhao, Hao Liang and Ambreen Nazir

[Long] GCAN: Graph-aware Co-Attention Networks for Explainable Fake News Detection on Social Media

Yi-Ju Lu and Cheng-Te Li

Monday, July 6, 2020 UTC+0 (continued)

12:00–13:00 Session 3A Dialogue and Interactive Systems-5

[Long] A Generative Model for Joint Natural Language Understanding and Generation

Bo-Hsiang Tseng, Jianpeng Cheng, Yimai Fang and David Vandyke

[Long] Beyond User Self-Reported Likert Scale Ratings: A Comparison Model for Automatic Dialog Evaluation

Weixin Liang, James Zou and Zhou Yu

[Short] Coach: A Coarse-to-Fine Approach for Cross-domain Slot Filling

Zihan Liu, Genta Indra Winata, Peng Xu and Pascale Fung

[Short] Conversational Word Embedding for Retrieval-Based Dialog System

Wentao Ma, Yiming Cui, Ting Liu, Dong Wang, Shijin Wang and Guoping Hu

[Long] Few-shot Slot Tagging with Collapsed Dependency Transfer and Label-enhanced Task-adaptive Projection Network

Yutai Hou, Wanxiang Che, Yongkui Lai, Zhihan Zhou, Yijia Liu, Han Liu and Ting Liu

[Long] MuTual: A Dataset for Multi-Turn Dialogue Reasoning

Leyang Cui, Yu Wu, Shujie Liu, Yue Zhang and Ming Zhou

[Long] PLATO: Pre-trained Dialogue Generation Model with Discrete Latent Variable

Siqi Bao, Huang He, Fan Wang, Hua Wu and Haifeng Wang

[Long] Paraphrase Augmented Task-Oriented Dialog Generation

Silin Gao, Yichi Zhang, Zhijian Ou and Zhou Yu

[Short] Span-ConveRT: Few-shot Span Extraction for Dialog with Pretrained Conversational Representations

Samuel Coope, Tyler Farghly, Daniela Gerz, Ivan Vulić and Matthew Henderson

[Long] You Impress Me: Dialogue Generation via Mutual Persona Perception

Qian Liu, Yihong Chen, Bei Chen, Jian-Guang LOU, Zixuan Chen, Bin Zhou and Dongmei Zhang

Monday, July 6, 2020 UTC+0 (continued)

12:00–13:00 Session 3A Generation-5

[Long] Automatic Detection of Generated Text is Easiest when Humans are Fooled

Daphne Ippolito, Daniel Duckworth, Chris Callison-Burch and Douglas Eck

[Long] Fast and Accurate Non-Projective Dependency Tree Linearization

Xiang Yu, Simon Tannert, Ngoc Thang Vu and Jonas Kuhn

[Long] Generating Diverse and Consistent QA pairs from Contexts with Information-Maximizing Hierarchical Conditional VAEs

Dong Bok Lee, Seanie Lee, Woo Tae Jeong, Donghwan Kim and Sung Ju Hwang

[Long] Pre-train and Plug-in: Flexible Conditional Text Generation with Variational Auto-Encoders

Yu Duan, Canwen Xu, Jiaxin Pei, Jialong Han and Chenliang Li

[Long] Rigid Formats Controlled Text Generation

Piji Li, Haisong Zhang, Xiaojiang Liu and Shuming Shi

12:00–13:00 Session 3A Information Retrieval and Text Mining-4

[Long] A Joint Model for Document Segmentation and Segment Labeling

Joe Barrow, Rajiv Jain, Vlad Morariu, Varun Manjunatha, Douglas Oard and Philip Resnik

[Long] An Online Semantic-enhanced Dirichlet Model for Short Text Stream Clustering

Jay Kumar, Junming Shao, Salah Uddin and Wazir Ali

[Short] Dynamic Memory Induction Networks for Few-Shot Text Classification

Ruiying Geng, Binhua Li, Yongbin Li, Jian Sun and Xiaodan Zhu

[Long] Exclusive Hierarchical Decoding for Deep Keyphrase Generation

Wang Chen, Hou Pong Chan, Piji Li and Irwin King

[Long] Generative Semantic Hashing Enhanced via Boltzmann Machines

Lin Zheng, Qinliang Su, Dinghan Shen and Changyou Chen

Monday, July 6, 2020 UTC+0 (continued)

[Long] Hierarchy-Aware Global Model for Hierarchical Text Classification

Jie Zhou, Chunping Ma, Dingkun Long, Guangwei Xu, Ning Ding, Haoyu Zhang, Pengjun Xie and Gongshen Liu

[Short] Keyphrase Generation for Scientific Document Retrieval

Florian Boudin, Ygor Gallina and Akiko Aizawa

[Short] Unsupervised FAQ Retrieval with Question Generation and BERT

Yosi Mass, Boaz Carmeli, Haggai Roitman and David Konopnicki

12:00–13:00 Session 3A Machine Translation-3

[Long] Boosting Neural Machine Translation with Similar Translations

Jitao XU, Josep Crego and Jean Senellart

[Long] End-to-End Neural Word Alignment Outperforms GIZA++

Thomas Zenkel, Joern Wuebker and John DeNero

[Short] Enhancing Machine Translation with Dependency-Aware Self-Attention

Emanuele Bugliarello and Naoaki Okazaki

[Long] Improving Massively Multilingual Neural Machine Translation and Zero-Shot Translation

Biao Zhang, Philip Williams, Ivan Titov and Rico Sennrich

[Long] Jointly Masked Sequence-to-Sequence Model for Non-Autoregressive Neural Machine Translation

Junliang Guo, Linli Xu and Enhong Chen

[Long] Learning Source Phrase Representations for Neural Machine Translation

Hongfei Xu, Josef van Genabith, Deyi Xiong, Qiuhui Liu and Jingyi Zhang

[Short] Lipschitz Constrained Parameter Initialization for Deep Transformers

Hongfei Xu, Qiuhui Liu, Josef van Genabith, Deyi Xiong and Jingyi Zhang

[Long] Multi-Domain Neural Machine Translation with Word-Level Adaptive Layer-wise Domain Mixing

Haoming Jiang, Chen Liang, Chong Wang and Tuo Zhao

Monday, July 6, 2020 UTC+0 (continued)

[Short] Self-Attention with Cross-Lingual Position Representation

Liang Ding, Longyue Wang and Dacheng Tao

[Short] “You Sound Just Like Your Father” Commercial Machine Translation Systems Include Stylistic Biases

Dirk Hovy, Federico Bianchi and Tommaso Fornaciari

12:00–13:00 Session 3A Resources and Evaluation-4

[Long] A Monolingual Approach to Contextualized Word Embeddings for Mid-Resource Languages

Pedro Javier Ortiz Suárez, Laurent Romary and Benoît Sagot

[Long] Building a User-Generated Content North-African Arabizi Treebank: Tackling Hell

Djamé Seddah, Farah Essaidi, Amal Fethi, Matthieu Futral, Benjamin Muller, Pedro Javier Ortiz Suárez, Benoît Sagot and Abhishek Srivastava

[Short] Crawling and Preprocessing Mailing Lists At Scale for Dialog Analysis

Janek Bevendorff, Khalid Al Khatib, Martin Potthast and Benno Stein

[Long] Fine-Grained Analysis of Cross-Linguistic Syntactic Divergences

Dmitry Nikolaev, Ofir Arviv, Taelin Karidi, Neta Kenneth, Veronika Mitnik, Lilja Maria Saeboe and Omri Abend

[Long] Generating Counter Narratives against Online Hate Speech: Data and Strategies

Serra Sinem Tekiroğlu, Yi-Ling Chung and Marco Guerini

[Long] KLEJ: Comprehensive Benchmark for Polish Language Understanding

Piotr Rybak, Robert Mroczkowski, Janusz Tracz and Ireneusz Gawlik

[Long] Learning and Evaluating Emotion Lexicons for 91 Languages

Sven Buechel, Susanna Rucker and Udo Hahn

[Long] Multi-Hypothesis Machine Translation Evaluation

Marina Fomicheva, Lucia Specia and Francisco Guzmán

[Short] Multimodal Quality Estimation for Machine Translation

Shu Okabe, Frédéric Blain and Lucia Specia

Monday, July 6, 2020 UTC+0 (continued)

[Long] PuzzLing Machines: A Challenge on Learning From Small Data

Gözde Gül Şahin, Yova Kementchedjhieva, Phillip Rust and Iryna Gurevych

[Long] The SOFC-Exp Corpus and Neural Approaches to Information Extraction in the Materials Science Domain

Annemarie Friedrich, Heike Adel, Federico Tomazic, Johannes Hingerl, Renou Benteau, Anika Marusczyk and Lukas Lange

[Long] The TechQA Dataset

Vittorio Castelli, Rishav Chakravarti, Saswati Dana, Anthony Ferritto, Radu Florian, Martin Franz, Dinesh Garg, Dinesh Khandelwal, Scott McCarley, Michael McCawley, Mohamed Nasr, Lin Pan, Cezar Pendus, John Pitrelli, Saurabh Pujar, Salim Roukos, Andrzej Sakrajda, Avi Sil, Rosario Uceda-Sosa, Todd Ward and Rong Zhang

[Short] Will-They-Won't-They: A Very Large Dataset for Stance Detection on Twitter

Costanza Conforti, Jakob Berndt, Mohammad Taher Pilehvar, Chryssi Giannitsarou, Flavio Toxvaerd and Nigel Collier

[Long] iSarcasm: A Dataset of Intended Sarcasm

Silviu Oprea and Walid Magdy

12:00–13:00 Session 3A Semantics: Sentence Level-2

[Long] AMR Parsing via Graph-Sequence Iterative Inference

Deng Cai and Wai Lam

12:00–13:00 Session 3A Student Research Workshop

[SRW] Non-Topical Coherence in Social Talk: A Call for Dialogue Model Enrichment

Alex Luu and Sophia A. Malamud

[SRW] Dominance as an Indicator of Rapport and Learning in Human-Agent Communication

Amanda Buddemeyer, Xiaoyi Tian and Erin Walker

[SRW] SCAR: Sentence Compression using Autoencoders for Reconstruction

Chanakya Malireddy, Tirth Maniar and Manish Shrivastava

[SRW] Why is penguin more similar to polar bear than to sea gull? Analyzing conceptual knowledge in distributional models

Pia Sommerauer

Monday, July 6, 2020 UTC+0 (continued)

12:45–13:30 Demo Session 3B

[Demo] TextBrewer: An Open-Source Knowledge Distillation Toolkit for Natural Language Processing

Ziqing Yang, Yiming Cui, Zhipeng Chen, Wanxiang Che, Ting Liu, Shijin Wang and Guoping Hu

[Demo] SyntaxGym: An Online Platform for Targeted Evaluation of Language Models

Jon Gauthier, Jennifer Hu, Ethan Wilcox, Peng Qian and Roger Levy

13:00–14:00 Session 3B Dialogue and Interactive Systems-6

[Long] Conversational Graph Grounded Policy Learning for Open-Domain Conversation Generation

Jun Xu, Haifeng Wang, Zheng-Yu Niu, Hua Wu, Wanxiang Che and Ting Liu

[TACL] CrossWOZ: A Large-Scale Chinese Cross-Domain Task-Oriented Dialogue Dataset

Qi Zhu, Kaili Huang, Zheng Zhang, Xiaoyan Zhu, Minlie Huang

[Short] Dialogue State Tracking with Explicit Slot Connection Modeling

Yawen Ouyang, Moxin Chen, Xinyu Dai, Yinggong Zhao, Shujian Huang and Jiajun CHEN

[Long] End-to-End Neural Pipeline for Goal-Oriented Dialogue Systems using GPT-2

Donghoon Ham, Jeong-Gwan Lee, Youngsoo Jang and Kee-Eung Kim

[Long] Gated Convolutional Bidirectional Attention-based Model for Off-topic Spoken Response Detection

Yefei Zha, Ruobing Li and Hui Lin

[Long] Learning Dialog Policies from Weak Demonstrations

Gabriel Gordon-Hall, Philip John Gorinski and Shay B. Cohen

[Short] Learning to Tag OOV Tokens by Integrating Contextual Representation and Background Knowledge

Keqing He, Yuanmeng Yan and Weiran XU

[Long] Multi-Agent Task-Oriented Dialog Policy Learning with Role-Aware Reward Decomposition

Ryuichi Takanobu, Runze Liang and Minlie Huang

[Long] Semi-Supervised Dialogue Policy Learning via Stochastic Reward Estimation

Xinting Huang, Jianzhong Qi, Yu Sun and Rui Zhang

Monday, July 6, 2020 UTC+0 (continued)

[Long] Slot-consistent NLG for Task-oriented Dialogue Systems with Iterative Rectification Network

Yangming Li, Kaisheng Yao, Libo Qin, Wanxiang Che, Xiaolong Li and Ting Liu

[Long] Towards Conversational Recommendation over Multi-Type Dialogs

Zeming Liu, Haifeng Wang, Zheng-Yu Niu, Hua Wu, Wanxiang Che and Ting Liu

[Long] Unknown Intent Detection Using Gaussian Mixture Model with an Application to Zero-shot Intent Classification

Guangfeng Yan, Lu Fan, Qimai Li, Han Liu, Xiaotong Zhang, Xiao-Ming Wu and Albert Y.S. Lam

13:00–14:00 Session 3B Discourse and Pragmatics-3

[Short] A Complete Shift-Reduce Chinese Discourse Parser with Robust Dynamic Oracle

Shyh-Shiun Hung, Hen-Hsen Huang and Hsin-Hsi Chen

[Long] Bridging Anaphora Resolution as Question Answering

Yufang Hou

[Long] Dialogue Coherence Assessment Without Explicit Dialogue Act Labels

Mohsen Mesgar, Sebastian Bückner and Iryna Gurevych

[Long] TransS-Driven Joint Learning Architecture for Implicit Discourse Relation Recognition

Ruifang He, Jian Wang, Fengyu Guo and Yuguang Han

Monday, July 6, 2020 UTC+0 (continued)

13:00–14:00 Session 3B Generation-6

[Long] A Study of Non-autoregressive Model for Sequence Generation

Yi Ren, Jinglin Liu, Xu Tan, Zhou Zhao, sheng zhao and Tie-Yan Liu

[Long] Expertise Style Transfer: A New Task Towards Better Communication between Experts and Laymen

Yixin Cao, Ruihao Shui, Liangming Pan, Min-Yen Kan, Zhiyuan Liu and Tat-Seng Chua

[Short] GPT-too: A Language-Model-First Approach for AMR-to-Text Generation

Manuel Mager, Ramón Fernandez Astudillo, Tahira Naseem, Md Arafat Sultan, Young-Suk Lee, Radu Florian and Salim Roukos

[Long] Learning to Update Natural Language Comments Based on Code Changes

Sheena Panthaplackel, Pengyu Nie, Milos Gligoric, Junyi Jessy Li and Raymond Mooney

[TACL] Leveraging Pre-trained Checkpoints for Sequence Generation Tasks

Sascha Rothe, Shashi Narayan and Aliaksei Severyn

[Long] Politeness Transfer: A Tag and Generate Approach

Aman Madaan, Amrith Setlur, Tanmay Parekh, Barnabas Poczos, Graham Neubig, Yiming Yang, Ruslan Salakhutdinov, Alan W Black and Shrimai Prabhunoye

[Long] Semantic Graphs for Generating Deep Questions

Liangming Pan, Yuxi Xie, Yansong Feng, Tat-Seng Chua and Min-Yen Kan

[Long] TAG : Type Auxiliary Guiding for Code Comment Generation

Ruichu Cai, Zhihao Liang, Boyan Xu, zijian li, Yuexing Hao and Yao Chen

[Long] Towards Faithful Neural Table-to-Text Generation with Content-Matching Constraints

Zhenyi Wang, Xiaoyang Wang, Bang An, Dong Yu and Changyou Chen

Monday, July 6, 2020 UTC+0 (continued)

13:00–14:00 Session 3B Information Extraction-2

[Long] A Novel Cascade Binary Tagging Framework for Relational Triple Extraction

Zhepei Wei, Jianlin Su, Yue Wang, Yuan Tian and Yi Chang

[Long] In Layman's Terms: Semi-Open Relation Extraction from Scientific Texts

Ruben Kruiper, Julian Vincent, Jessica Chen-Burger, Marc Desmulliez and Ioannis Konstas

[Long] NAT: Noise-Aware Training for Robust Neural Sequence Labeling

Marcin Namysl, Sven Behnke and Joachim Köhler

[Long] Named Entity Recognition without Labelled Data: A Weak Supervision Approach

Pierre Lison, Jeremy Barnes, Aliaksandr Hubin and Samia Touileb

[Long] Probing Linguistic Features of Sentence-Level Representations in Relation Extraction

Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig

[Long] Reasoning with Latent Structure Refinement for Document-Level Relation Extraction

Guoshun Nan, Zhijiang Guo, Ivan Sekulic and Wei Lu

[Long] TACRED Revisited: A Thorough Evaluation of the TACRED Relation Extraction Task

Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig

Monday, July 6, 2020 UTC+0 (continued)

13:00–14:00 Session 3B Machine Translation-4

[Long] BPE-Dropout: Simple and Effective Subword Regularization

Ivan Provilkov, Dmitrii Emelianenko and Elena Voita

[Long] Bilingual Dictionary Based Neural Machine Translation without Using Parallel Sentences

Xiangyu Duan, Baijun Ji, Hao Jia, Min Tan, Min Zhang, Boxing Chen, Weihua Luo and Yue Zhang

[Short] Character-Level Translation with Self-attention

Yingqiang Gao, Nikola I. Nikolov, Yuhuang Hu and Richard H.R. Hahnloser

[Short] Content Word Aware Neural Machine Translation

Kehai Chen, Rui Wang, Masao Utiyama and Eiichiro Sumita

[Long] Evaluating Explanation Methods for Neural Machine Translation

Jierui Li, Lema Liu, Huayang Li, Guanlin Li, Guoping Huang and Shuming Shi

[Short] Improving Non-autoregressive Neural Machine Translation with Monolingual Data

Jiawei Zhou and Phillip Keung

[Short] It's Easier to Translate out of English than into it: Measuring Neural Translation Difficulty by Cross-Mutual Information

Emanuele Bugliarello, Sabrina J. Mielke, Antonios Anastasopoulos, Ryan Cotterell and Naoaki Okazaki

[Short] Language-aware Interlingua for Multilingual Neural Machine Translation

Changfeng Zhu, Heng Yu, Shanbo Cheng and Weihua Luo

[Long] Multiscale Collaborative Deep Models for Neural Machine Translation

Xiangpeng Wei, Heng Yu, Yue Hu, Yue Zhang, Rongxiang Weng and Weihua Luo

[Long] On the Limitations of Cross-lingual Encoders as Exposed by Reference-Free Machine Translation Evaluation

Wei Zhao, Goran Glavaš, Maxime Peyrard, Yang Gao, Robert West and Steffen Eger

[CL] On the Linguistic Representational Power of Neural Machine Translation Models

Yonatan Belinkov, Nadir Durrani, Fahim Dalvi, Hassan Sajjad, James Glass

Monday, July 6, 2020 UTC+0 (continued)

[Short] Parallel Sentence Mining by Constrained Decoding

Pinzhen Chen, Nikolay Bogoychev, Kenneth Heafield and Faheem Kirefu

13:00–14:00 Session 3B Phonology, Morphology and Word Segmentation-2

[Long] A Graph Auto-encoder Model of Derivational Morphology

Valentin Hofmann, Hinrich Schütze and Janet Pierrehumbert

13:00–14:00 Session 3B Summarization-2

[Short] A Large-Scale Multi-Document Summarization Dataset from the Wikipedia Current Events Portal

Demian Gholipour Ghalandari, Chris Hokamp, Nghia The Pham, John Glover and Georgiana Ifrim

[Short] Attend to Medical Ontologies: Content Selection for Clinical Abstractive Summarization

Sajad Sotudeh Gharebagh, Nazli Goharian and Ross Filice

[Long] Attend, Translate and Summarize: An Efficient Method for Neural Cross-Lingual Summarization

Junnan Zhu, Yu Zhou, Jiajun Zhang and Chengqing Zong

[Long] Examining the State-of-the-Art in News Timeline Summarization

Demian Gholipour Ghalandari and Georgiana Ifrim

[Long] Improving Truthfulness of Headline Generation

Kazuki Matsumaru, Sho Takase and Naoaki Okazaki

[Long] On Faithfulness and Factuality in Abstractive Summarization

Joshua Maynez, Shashi Narayan, Bernd Bohnet and Ryan McDonald

[Short] SUPERT: Towards New Frontiers in Unsupervised Evaluation Metrics for Multi-Document Summarization

Yang Gao, Wei Zhao and Steffen Eger

[Long] Screenplay Summarization Using Latent Narrative Structure

Pinelopi Papalampidi, Frank Keller, Lea Frermann and Mirella Lapata

Monday, July 6, 2020 UTC+0 (continued)

[Short] Self-Attention Guided Copy Mechanism for Abstractive Summarization

Song Xu, Haoran Li, Peng Yuan, Youzheng Wu, Xiaodong He and Bowen Zhou

[Long] Unsupervised Opinion Summarization with Noising and Denoising

Reinald Kim Amplayo and Mirella Lapata

13:00–14:00 Session 3B Student Research Workshop

[SRW] Transferring Monolingual Model to Low-Resource Language: The Case of Tigrinya

Abrehalei Frezghi Tela, Abraham Woubie Zewoudie and Ville Hautamäki

[SRW] A Simple and Effective Dependency Parser for Telugu

Sneha Nallani, Manish Shrivastava and Dipti Sharma

[SRW] Pointwise Paraphrase Appraisal is Potentially Problematic

Hannah Chen, Yangfeng Ji and David Evans

[SRW] Let's be Humorous: Knowledge Enhanced Humor Generation

Hang Zhang, Dayiheng Liu, Jiancheng Lv and Luo Cheng

[SRW] Efficient Neural Machine Translation for Low-Resource Languages via Exploiting Related Languages

Vikrant Goyal, Sourav Kumar and Dipti Misra Sharma

13:30–14:15 Demo Session 3C

[Demo] Tabouid: a Wikipedia-based word guessing game

Timothée Bernard

[Demo] Syntactic Search by Example

Micah Shlain, Hillel Taub-Tabib, Shoval Sadde and Yoav Goldberg

Monday, July 6, 2020 UTC+0 (continued)

14:00–16:15 Plenary

14:00–14:15 *Opening Remarks*

14:15–14:30 *Presidential Address*

14:30–15:15 *Keynote 1 Video Livestream: Kathleen R. McKeown*

15:15–15:45 *Keynote 1 Live Q&A: Kathleen R. McKeown*

15:45–16:15 *Business Meeting Q&A*

17:00–17:45 Demo Session 4A

[Demo] Personalized PageRank with Syntagmatic Information for Multilingual Word Sense Disambiguation

Federico Scozzafava, Marco Maru, Fabrizio Brignone, Giovanni Torrisi and Roberto Navigli

[Demo] GAIA: A Fine-grained Multimedia Knowledge Extraction System

Manling Li, Alireza Zareian, Ying Lin, Xiaoman Pan, Spencer Whitehead, Brian Chen, Bo Wu, Heng Ji, Shih-Fu Chang, Clare Voss, Daniel Napierski and Marjorie Freedman

[Demo] Multilingual Universal Sentence Encoder for Semantic Retrieval

Yinfei Yang, Daniel Cer, Amin Ahmad, Mandy Guo, Jax Law, Noah Constant, Gustavo Hernandez Abrego, Steve Yuan, Chris Tar, Yun-hsuan Sung, Brian Strope and Ray Kurzweil

Monday, July 6, 2020 UTC+0 (continued)

17:00–18:00 Session 4A Cognitive Modeling and Psycholinguistics-4

[Long] A Tale of Two Perplexities: Sensitivity of Neural Language Models to Lexical Retrieval Deficits in Dementia of the Alzheimer's Type

Trevor Cohen and Serguei Pakhomov

[Long] Inflecting When There's No Majority: Limitations of Encoder-Decoder Neural Networks as Cognitive Models for German Plurals

Kate McCurdy, Sharon Goldwater and Adam Lopez

[Long] Probing Linguistic Systematicity

Emily Goodwin, Koustuv Sinha and Timothy J. O'Donnell

[Short] Recollection versus Imagination: Exploring Human Memory and Cognition via Neural Language Models

Maarten Sap, Eric Horvitz, Yejin Choi, Noah A. Smith and James Pennebaker

[Long] Recurrent Neural Network Language Models Always Learn English-Like Relative Clause Attachment

Forrest Davis and Marten van Schijndel

[Long] Speakers enhance contextually confusable words

Eric Meinhardt, Eric Bakovic and Leon Bergen

[Long] What determines the order of adjectives in English? Comparing efficiency-based theories using dependency treebanks

Richard Futrell, William Dyer and Greg Scontras

[Short] You Don't Have Time to Read This: An Exploration of Document Reading Time Prediction

Orion Weller, Jordan Hildebrandt, Ilya Reznik, Christopher Challis, E. Shannon Tass, Quinn Snell and Kevin Seppi

Monday, July 6, 2020 UTC+0 (continued)

17:00–18:00 Session 4A Dialogue and Interactive Systems-7

[Short] "None of the Above": Measure Uncertainty in Dialog Response Retrieval

Yulan Feng, Shikib Mehri, Maxine Eskenazi and Tiancheng Zhao

[Long] A Generative Model for Joint Natural Language Understanding and Generation

Bo-Hsiang Tseng, Jianpeng Cheng, Yimai Fang and David Vandyke

[Long] Can You Put it All Together: Evaluating Conversational Agents' Ability to Blend Skills

Eric Michael Smith, Mary Williamson, Kurt Shuster, Jason Weston and Y-Lan Boureau

[Long] Efficient Dialogue State Tracking by Selectively Overwriting Memory

Sungdong Kim, Sohee Yang, Gyuwan Kim and Sang-Woo Lee

[Long] Grounded Conversation Generation as Guided Traverses in Commonsense Knowledge Graphs

Houyu Zhang, Zhenghao Liu, Chenyan Xiong and Zhiyuan Liu

[Long] Negative Training for Neural Dialogue Response Generation

Tianxing He and James Glass

[Short] Recursive Template-based Frame Generation for Task Oriented Dialog

Rashmi Gangadharaiah and Balakrishnan Narayanaswamy

[Long] Speak to your Parser: Interactive Text-to-SQL with Natural Language Feedback

Ahmed Elgohary, saghar Hosseini and Ahmed Hassan Awadallah

[CL] The Design and Implementation of XiaoIce, an Empathetic Social Chatbot

Li Zhou, Jianfeng Gao, Di Li, Heung-Yeung Shum

[Long] USR: An Unsupervised and Reference Free Evaluation Metric for Dialog Generation

Shikib Mehri and Maxine Eskenazi

[Long] Zero-Shot Transfer Learning with Synthesized Data for Multi-Domain Dialogue State Tracking

Giovanni Campagna, Agata Foryciarz, Mehrad Moradshahi and Monica Lam

Monday, July 6, 2020 UTC+0 (continued)

17:00–18:00 Session 4A Machine Learning for NLP-1

[Long] Calibrating Structured Output Predictors for Natural Language Processing

Abhyuday Jagannatha and hong yu

[Long] Active Imitation Learning with Noisy Guidance

Kianté Brantley, Hal Daumé III and Amr Sharaf

[Short] ExpBERT: Representation Engineering with Natural Language Explanations

Shikhar Murty, Pang Wei Koh and Percy Liang

[Short] GAN-BERT: Generative Adversarial Learning for Robust Text Classification with a Bunch of Labeled Examples

Danilo Croce, Giuseppe Castellucci and Roberto Basili

[Long] Generalizing Natural Language Analysis through Span-relation Representations

Zhengbao Jiang, Wei Xu, Jun Araki and Graham Neubig

[Long] Learning to Contextually Aggregate Multi-Source Supervision for Sequence Labeling

Ouyu Lan, Xiao Huang, Bill Yuchen Lin, He Jiang, Liyuan Liu and Xiang Ren

[Long] MixText: Linguistically-Informed Interpolation of Hidden Space for Semi-Supervised Text Classification

Jiaao Chen, Zichao Yang and Diyi Yang

[Long] MobileBERT: a Compact Task-Agnostic BERT for Resource-Limited Devices

Zhiqing Sun, Hongkun Yu, Xiaodan Song, Renjie Liu, Yiming Yang and Denny Zhou

[Short] On Importance Sampling-Based Evaluation of Latent Language Models

Robert L Logan IV, Matt Gardner and Sameer Singh

[Long] SMART: Robust and Efficient Fine-Tuning for Pre-trained Natural Language Models through Principled Regularized Optimization

Haoming Jiang, Pengcheng He, Weizhu Chen, Xiaodong Liu, Jianfeng Gao and Tuo Zhao

[Short] Stolen Probability: A Structural Weakness of Neural Language Models

David Demeter, Gregory Kimmel and Doug Downey

Monday, July 6, 2020 UTC+0 (continued)

[Long] Taxonomy Construction of Unseen Domains via Graph-based Cross-Domain Knowledge Transfer

Chao Shang, Sarthak Dash, Md. Faisal Mahbub Chowdhury, Nandana Mihindukulasooriya and Alfio Gliozzo

[Short] To Pretrain or Not to Pretrain: Examining the Benefits of Pretraining on Resource Rich Tasks

Sinong Wang, Madian Khabsa and Hao Ma

[Short] Why Overfitting Isn't Always Bad: Retrofitting Cross-Lingual Word Embeddings to Dictionaries

Mozhi Zhang, Yoshinari Fujinuma, Michael J. Paul and Jordan Boyd-Graber

[Long] XtremeDistil: Multi-stage Distillation for Massive Multilingual Models

Subhabrata Mukherjee and Ahmed Hassan Awadallah

17:00–18:00 Session 4A NLP Applications-3

[Long] A Girl Has A Name: Detecting Authorship Obfuscation

Asad Mahmood, Zubair Shafiq and Padmini Srinivasan

[Short] DeeBERT: Dynamic Early Exiting for Accelerating BERT Inference

Ji Xin, Raphael Tang, Jaejun Lee, Yaoliang Yu and Jimmy Lin

[Short] Efficient Strategies for Hierarchical Text Classification: External Knowledge and Auxiliary Tasks

Kervy Rivas Rojas, Gina Bustamante, Arturo Oncevay and Marco Antonio Sobrevilla Cabezudo

[Long] Investigating the effect of auxiliary objectives for the automated grading of learner English speech transcriptions

Hannah Craighead, Andrew Caines, Paula Buttery and Helen Yannakoudakis

[Long] MMPE: A Multi-Modal Interface for Post-Editing Machine Translation

Nico Herbig, Tim Düwel, Santanu Pal, Kalliopi Meladaki, Mahsa Monshizadeh, Antonio Krüger and Josef van Genabith

[Long] SPECTER: Document-level Representation Learning using Citation-informed Transformers

Arman Cohan, Sergey Feldman, Iz Beltagy, Doug Downey and Daniel Weld

[Long] Semantic Scaffolds for Pseudocode-to-Code Generation

Ruiqi Zhong, Mitchell Stern and Dan Klein

Monday, July 6, 2020 UTC+0 (continued)

17:00–18:00 Session 4A Question Answering-3

[Short] Contextualized Sparse Representations for Real-Time Open-Domain Question Answering

Jinhyuk Lee, Minjoon Seo, Hannaneh Hajishirzi and Jaewoo Kang

[Short] Dynamic Sampling Strategies for Multi-Task Reading Comprehension

Ananth Gottumukkala, Dheeru Dua, Sameer Singh and Matt Gardner

17:00–18:00 Session 4A Semantics: Textual Inference and Other Areas of Semantics-1

[Long] Can We Predict New Facts with Open Knowledge Graph Embeddings? A Benchmark for Open Link Prediction

Samuel Broscheit, Kiril Gashteovski, Yanjie Wang and Rainer Gemulla

[TACL] Decomposing Generalization: Models of Generic, Habitual and Episodic Statements

Venkata Subrahmanyam Govindarajan, Benjamin Van Durme, Aaron Steven White

[Long] INFOTABS: Inference on Tables as Semi-structured Data

Vivek Gupta, Maitrey Mehta, Pegah Nokhiz and Vivek Srikumar

[TACL] Inherent Disagreements in Human Textual Inferences

Ellie Pavlick, Tom Kwiatkowski

[Long] Interactive Machine Comprehension with Information Seeking Agents

Xingdi Yuan, Jie Fu, Marc-Alexandre Côté, Yi Tay, Chris Pal and Adam Trischler

[Short] Syntactic Data Augmentation Increases Robustness to Inference Heuristics

Junghyun Min, R. Thomas McCoy, Dipanjan Das, Emily Pitler and Tal Linzen

Monday, July 6, 2020 UTC+0 (continued)

17:00–18:00 Session 4A Speech and Multimodality-1

[TACL] Acoustic-Prosodic and Lexical Cues to Deception and Trust: Deciphering How People Detect Lies

Xi (Leslie) Chen, Sarah Ita Levitan, Michelle Levine, Marko Mandic, and Julia Hirschberg

[Short] Improved Speech Representations with Multi-Target Autoregressive Predictive Coding

Yu-An Chung and James Glass

[Long] Integrating Multimodal Information in Large Pretrained Transformers

Wasifur Rahman, Md Kamrul Hasan, Sangwu Lee, AmirAli Bagher Zadeh, Chengfeng Mao, Louis-Philippe Morency and Ehsan Hoque

[Long] MultiQT: Multimodal learning for real-time question tracking in speech

Jakob D. Havtorn, Jan Latko, Joakim Edin, Lars Maaløe, Lasse Borgholt, Lorenzo Belgrano, Nicolai Jacobsen, Regitze Sdun and Željko Agić

[Short] Multimodal and Multiresolution Speech Recognition with Transformers

Georgios Paraskevopoulos, Srinivas Parthasarathy, Aparna Khare and Shiva Sundaram

[Long] Phone Features Improve Speech Translation

Elizabeth Salesky and Alan W Black

17:00–18:00 Session 4A Student Research Workshop

[SRW] Media Bias, the Social Sciences, and NLP: Automating Frame Analyses to Identify Bias by Word Choice and Labeling

Felix Hamborg

[SRW] Exploring Interpretability in Event Extraction: Multitask Learning of a Neural Event Classifier and an Explanation Decoder

Zheng Tang, Gus Hahn-Powell and Mihai Surdeanu

[SRW] Research Replication Prediction Using Weakly Supervised Learning

Tianyi Luo, Xingyu Li, Hainan Wang and Yang Liu

[SRW] Crossing the Line: Where do Demographic Variables Fit into Humor Detection?

J. A. Meaney

Monday, July 6, 2020 UTC+0 (continued)

17:45–18:30 Demo Session 4B

[Demo] Talk to Papers: Bringing Neural Question Answering to Academic Search
Tiancheng Zhao and Kyusong Lee

[Demo] BENTO: A Visual Platform for Building Clinical NLP Pipelines Based on CodaLab
Yonghao Jin, Fei Li and Hong Yu

[Demo] Stanza: A Python Natural Language Processing Toolkit for Many Human Languages
Peng Qi, Yuhao Zhang, Yuhui Zhang, Jason Bolton and Christopher D. Manning

18:00–19:00 Session 4B Dialogue and Interactive Systems-8

[Long] Grounding Conversations with Improvised Dialogues
Hyundong Cho and Jonathan May

[Long] Image-Chat: Engaging Grounded Conversations
Kurt Shuster, Samuel Humeau, Antoine Bordes and Jason Weston

[Short] Learning an Unreferenced Metric for Online Dialogue Evaluation
Koustuv Sinha, Prasanna Parthasarathi, Jasmine Wang, Ryan Lowe, William L. Hamilton and Joelle Pineau

[Long] Neural Generation of Dialogue Response Timings
Matthew Roddy and Naomi Harte

[Long] The Dialogue Dodecathlon: Open-Domain Knowledge and Image Grounded Conversational Agents
Kurt Shuster, Da JU, Stephen Roller, Emily Dinan, Y-Lan Boureau and Jason Weston

Monday, July 6, 2020 UTC+0 (continued)

18:00–19:00 Session 4B Generation-7

[Long] Automatic Poetry Generation from Prosaic Text

Tim Van de Cruys

[Long] Bridging the Structural Gap Between Encoding and Decoding for Data-To-Text Generation

Chao Zhao, Marilyn Walker and Snigdha Chaturvedi

[Short] Enabling Language Models to Fill in the Blanks

Chris Donahue, Mina Lee and Percy Liang

[Short] GPT-100: A Language-Model-First Approach for AMR-to-Text Generation

Manuel Mager, Ramón Fernández Astudillo, Tahira Naseem, Md Arafat Sultan, Young-Suk Lee, Radu Florian and Salim Roukos

[Long] INSET: Sentence Infilling with INter-SENTential Transformer

Yichen Huang, Yizhe Zhang, Oussama Elachqar and Yu Cheng

[Long] Improving Adversarial Text Generation by Modeling the Distant Future

Ruiyi Zhang, Changyou Chen, Zhe Gan, Wenlin Wang, Dinghan Shen, Guoyin Wang, Zheng Wen and Lawrence Carin

[TACL] Leveraging Pre-trained Checkpoints for Sequence Generation Tasks

Sascha Rothe, Shashi Narayan and Aliaksei Severyn

[Long] Neural Syntactic Preordering for Controlled Paraphrase Generation

Tanya Goyal and Greg Durrett

[Short] Simple and Effective Retrieve-Edit-Rerank Text Generation

Nabil Hossain, Marjan Ghazvininejad and Luke Zettlemoyer

Monday, July 6, 2020 UTC+0 (continued)

18:00–19:00 Session 4B Language Grounding to Vision, Robotics and Beyond-1

[Long] BabyWalk: Going Farther in Vision-and-Language Navigation by Taking Baby Steps

Wang Zhu, Hexiang Hu, Jiacheng Chen, Zhiwei Deng, Vihan Jain, Eugene Ie and Fei Sha

[Long] Cross-media Structured Common Space for Multimedia Event Extraction

Manling Li, Alireza Zareian, Qi Zeng, Spencer Whitehead, Di Lu, Heng Ji and Shih-Fu Chang

[Long] Learning to Segment Actions from Observation and Narration

Daniel Fried, Jean-Baptiste Alayrac, Phil Blunsom, Chris Dyer, Stephen Clark and Aida Nematzadeh

[Long] Learning to execute instructions in a Minecraft dialogue

Prashant Jayannavar, Anjali Narayan-Chen and Julia Hockenmaier

[Long] MART: Memory-Augmented Recurrent Transformer for Coherent Video Paragraph Captioning

Jie Lei, Liwei Wang, Yelong Shen, Dong Yu, Tamara Berg and Mohit Bansal

[Short] What is Learned in Visually Grounded Neural Syntax Acquisition

Noriyuki Kojima, Hadar Averbuch-Elor, Alexander Rush and Yoav Artzi

18:00–19:00 Session 4B Machine Learning for NLP-2

[Long] A Batch Normalized Inference Network Keeps the KL Vanishing Away

Qile Zhu, Wei Bi, Xiaojiang Liu, Xiyao Ma, Xiaolin Li and Dapeng Wu

[Short] Contextual Embeddings: When Are They Worth It?

Simran Arora, Avner May, Jian Zhang and Christopher Ré

[TACL] Efficient Contextual Representation Learning With Continuous Outputs

Liunian Harold Li, Patrick H. Chen, Cho-Jui Hsieh, Kai-Wei Chang

[Long] Interactive Classification by Asking Informative Questions

Lili Yu, Howard Chen, Sida I. Wang, Tao Lei and Yoav Artzi

Monday, July 6, 2020 UTC+0 (continued)

[Long] Knowledge Graph Embedding Compression

Mrinmaya Sachan

[Short] Low Resource Sequence Tagging using Sentence Reconstruction

Tal Perl, Sriram Chaudhury and Raja Giryes

[Long] Masked Language Model Scoring

Julian Salazar, Davis Liang, Toan Q. Nguyen and Katrin Kirchhoff

[Long] Orthogonal Relation Transforms with Graph Context Modeling for Knowledge Graph Embedding

Yun Tang, Jing Huang, Guangtao Wang, Xiaodong He and Bowen Zhou

[TACL] Perturbation Based Learning for Structured NLP tasks with Application to Dependency Parsing

Amichay Doitch, Ram Yazdi, Tamir Hazan, Roi Reichart

[Short] Posterior Calibrated Training on Sentence Classification Tasks

Taehee Jung, Dongyeop Kang, Hua Cheng, Lucas Mentch and Thomas Schaaf

[Long] Posterior Control of Blackbox Generation

Xiang Lisa Li and Alexander Rush

[Short] Pretrained Transformers Improve Out-of-Distribution Robustness

Dan Hendrycks, Xiaoyuan Liu, Eric Wallace, Adam Dziedziec, Rishabh Krishnan and Dawn Song

[Long] Robust Encodings: A Framework for Combating Adversarial Typos

Erik Jones, Robin Jia, Aditi Raghunathan and Percy Liang

[Short] Showing Your Work Doesn't Always Work

Raphael Tang, Jaejun Lee, Ji Xin, Xinyu Liu, Yaoliang Yu and Jimmy Lin

[Long] Span Selection Pre-training for Question Answering

Michael Glass, Alfio Gliozzo, Rishav Chakravarti, Anthony Ferritto, Lin Pan, G P Shrivatsa Bhargav, Dinesh Garg and Avi Sil

[Short] Topological Sort for Sentence Ordering

Shrimai Prabhumoye, Ruslan Salakhutdinov and Alan W Black

Monday, July 6, 2020 UTC+0 (continued)

[Long] Weight Poisoning Attacks on Pretrained Models

Keita Kurita, Paul Michel and Graham Neubig

[Long] schuBERT: Optimizing Elements of BERT

Ashish Khetan and Zohar Karnin

18:00–19:00 Session 4B Machine Translation-5

[Long] BPE-Dropout: Simple and Effective Subword Regularization

Ivan Provilkov, Dmitrii Emelianenko and Elena Voita

[Short] ENGINE: Energy-Based Inference Networks for Non-Autoregressive Machine Translation

Lifu Tu, Richard Yuanzhe Pang, Sam Wiseman and Kevin Gimpel

[Short] Leveraging Monolingual Data with Self-Supervision for Multilingual Neural Machine Translation

Aditya Siddhant, Ankur Bapna, Yuan Cao, Orhan Firat, Mia Chen, Sneha Kudugunta, Naveen Arivazhagan and Yonghui Wu

[Long] Multi-Domain Neural Machine Translation with Word-Level Adaptive Layer-wise Domain Mixing

Haoming Jiang, Chen Liang, Chong Wang and Tuo Zhao

[Long] On The Evaluation of Machine Translation Systems Trained With Back-Translation

Sergey Edunov, Myle Ott, Marc’Aurelio Ranzato and Michael Auli

[CL] On the Linguistic Representational Power of Neural Machine Translation Models

Yonatan Belinkov, Nadir Durrani, Fahim Dalvi, Hassan Sajjad, James Glass

[Short] Simultaneous Translation Policies: From Fixed to Adaptive

Baigong Zheng, Kaibo Liu, Renjie Zheng, Mingbo Ma, Hairong Liu and Liang Huang

Monday, July 6, 2020 UTC+0 (continued)

18:00–19:00 Session 4B Semantics: Lexical-2

[Long] Breaking Through the 80% Glass Ceiling: Raising the State of the Art in Word Sense Disambiguation by Incorporating Knowledge Graph Information
Michele Bevilacqua and Roberto Navigli

[Short] Glyph2Vec: Learning Chinese Out-of-Vocabulary Word Embedding from Glyphs
Hong-You Chen, SZ-HAN YU and Shou-de Lin

[TACL] Learning Lexical Subspaces in a Distributional Vector Space
Kushal Arora, Aishik Chakraborty, Jackie Chi Kit Cheung

[Long] Moving Down the Long Tail of Word Sense Disambiguation with Gloss Informed Bi-encoders
Terra Blevins and Luke Zettlemoyer

[Long] Multidirectional Associative Optimization of Function-Specific Word Representations
Daniela Gerz, Ivan Vulić, Marek Rei, Roi Reichart and Anna Korhonen

[Short] Predicting Degrees of Technicality in Automatic Terminology Extraction
Anna HäTTY, Dominik Schlechtweg, Michael Dorna and Sabine Schulte im Walde

[Short] Verbal Multiword Expressions for Identification of Metaphor
Omid Rohanian, Marek Rei, Shiva Taslimipour and Le An Ha

Monday, July 6, 2020 UTC+0 (continued)

18:00–19:00 Session 4B Summarization-3

[Short] Attend to Medical Ontologies: Content Selection for Clinical Abstractive Summarization

Sajad Sotudeh Gharebagh, Nazli Goharian and Ross Filice

[Long] On Faithfulness and Factuality in Abstractive Summarization

Joshua Maynez, Shashi Narayan, Bernd Bohnet and Ryan McDonald

[Long] Screenplay Summarization Using Latent Narrative Structure

Pinelopi Papalampidi, Frank Keller, Lea Frermann and Mirella Lapata

[Long] Unsupervised Opinion Summarization with Noising and Denoising

Reinald Kim Amplayo and Mirella Lapata

18:00–19:00 Session 4B Student Research Workshop

[SRW] A Geometry-Inspired Attack for Generating Natural Language Adversarial Examples

Zhao Meng and Roger Wattenhofer

[SRW] Effectively Aligning and Filtering Parallel Corpora under Sparse Data Conditions

Steinþór Steingrímsson, Hrafn Loftsson and Andy Way

[SRW] Understanding Points of Correspondence between Sentences for Abstractive Summarization

Logan Lebanoff, John Muchovej, Franck Dernoncourt, Doo Soon Kim, Lidan Wang, Walter Chang and Fei Liu

[SRW] Noise-Based Augmentation Techniques for Emotion Datasets: What do we Recommend?

Mimansa Jaiswal and Emily Mower Provost

Monday, July 6, 2020 UTC+0 (continued)

18:30–19:15 Demo Session 4C

[Demo] Xiaomingbot: A Multilingual Robot News Reporter

Runxin Xu, Jun Cao, Mingxuan Wang, Jiaze Chen, Hao Zhou, Ying Zeng, Yuping Wang, Li Chen, Xiang Yin, Xijin Zhang, Songcheng Jiang, Yuxuan Wang and Lei Li

[Demo] jiant: A Software Toolkit for Research on General-Purpose Text Understanding Models

Yada Pruksachatkun, Phil Yeres, Haokun Liu, Jason Phang, Phu Mon Htut, Alex Wang, Ian Tenney and Samuel R. Bowman

[Demo] The Microsoft Toolkit of Multi-Task Deep Neural Networks for Natural Language Understanding

Xiaodong Liu, Yu Wang, Jianshu Ji, Hao Cheng, Xueyun Zhu, Emmanuel Awa, Pengcheng He, Weizhu Chen, Hoifung Poon, Guihong Cao and Jianfeng Gao

20:00–20:45 Demo Session 5A

[Demo] GAIA: A Fine-grained Multimedia Knowledge Extraction System

Manling Li, Alireza Zareian, Ying Lin, Xiaoman Pan, Spencer Whitehead, Brian Chen, Bo Wu, Heng Ji, Shih-Fu Chang, Clare Voss, Daniel Napierski and Marjorie Freedman

[Demo] Trialstreamer: Mapping and Browsing Medical Evidence in Real-Time

Benjamin Nye, Ani Nenkova, Iain Marshall and Byron C. Wallace

[Demo] pyBART: Evidence-based Syntactic Transformations for IE

Aryeh Tiktinsky, Yoav Goldberg and Reut Tsarfaty

20:00–21:00 Session 5A Dialogue and Interactive Systems-9

[Long] Grounded Conversation Generation as Guided Traverses in Commonsense Knowledge Graphs

Houyu Zhang, Zhenghao Liu, Chenyan Xiong and Zhiyuan Liu

[Short] Learning an Unreferenced Metric for Online Dialogue Evaluation

Koustuv Sinha, Prasanna Parthasarathi, Jasmine Wang, Ryan Lowe, William L. Hamilton and Joelle Pineau

[Long] Negative Training for Neural Dialogue Response Generation

Tianxing He and James Glass

[Short] Recursive Template-based Frame Generation for Task Oriented Dialog

Rashmi Gangadharaiah and Balakrishnan Narayanaswamy

Monday, July 6, 2020 UTC+0 (continued)

[Long] Speak to your Parser: Interactive Text-to-SQL with Natural Language Feedback

Ahmed Elgohary, saghar Hosseini and Ahmed Hassan Awadallah

20:00–21:00 Session 5A Generation-8

[Long] Automatic Detection of Generated Text is Easiest when Humans are Fooled
Daphne Ippolito, Daniel Duckworth, Chris Callison-Burch and Douglas Eck

[Long] Automatic Poetry Generation from Prosaic Text

Tim Van de Cruys

[Long] Bridging the Structural Gap Between Encoding and Decoding for Data-To-Text Generation

Chao Zhao, Marilyn Walker and Snigdha Chaturvedi

[Long] Cross-modal Language Generation using Pivot Stabilization for Web-scale Language Coverage

Ashish V. Thapliyal and Radu Soricut

[Short] Enabling Language Models to Fill in the Blanks

Chris Donahue, Mina Lee and Percy Liang

[Short] Few-Shot NLG with Pre-Trained Language Model

Zhiyu Chen, Harini Eavani, Wenhu Chen, Yinyin Liu and William Yang Wang

[Long] INSET: Sentence Infilling with INter-SENTential Transformer

Yichen Huang, Yizhe Zhang, Oussama Elachqar and Yu Cheng

[Long] Improved Natural Language Generation via Loss Truncation

Daniel Kang and Tatsunori Hashimoto

[Long] Improving Adversarial Text Generation by Modeling the Distant Future

Ruiyi Zhang, Changyou Chen, Zhe Gan, Wenlin Wang, Dinghan Shen, Guoyin Wang, Zheng Wen and Lawrence Carin

[Long] Learning to Update Natural Language Comments Based on Code Changes

Sheena Panthaplackel, Pengyu Nie, Milos Gligoric, Junyi Jessy Li and Raymond Mooney

Monday, July 6, 2020 UTC+0 (continued)

[Long] Politeness Transfer: A Tag and Generate Approach

Aman Madaan, Amrith Setlur, Tanmay Parekh, Barnabas Poczcos, Graham Neubig, Yiming Yang, Ruslan Salakhutdinov, Alan W Black and Shrimai Prabhunoye

[Short] Reverse Engineering Configurations of Neural Text Generation Models

Yi Tay, Dara Bahri, Che Zheng, Clifford Brunk, Donald Metzler and Andrew Tomkins

[Short] Simple and Effective Retrieve-Edit-Rerank Text Generation

Nabil Hossain, Marjan Ghazvininejad and Luke Zettlemoyer

20:00–21:00 Session 5A Information Retrieval and Text Mining-5

[Long] Contextualized Weak Supervision for Text Classification

Dheeraj Mekala and Jingbo Shang

20:00–21:00 Session 5A Machine Learning for NLP-3

[Long] Calibrating Structured Output Predictors for Natural Language Processing

Abhyuday Jagannatha and hong yu

[Long] Active Imitation Learning with Noisy Guidance

Kianté Brantley, Hal Daumé III and Amr Sharaf

[Short] ExpBERT: Representation Engineering with Natural Language Explanations

Shikhar Murty, Pang Wei Koh and Percy Liang

[Short] GAN-BERT: Generative Adversarial Learning for Robust Text Classification with a Bunch of Labeled Examples

Danilo Croce, Giuseppe Castellucci and Roberto Basili

[Long] Generalizing Natural Language Analysis through Span-relation Representations

Zhengbao Jiang, Wei Xu, Jun Araki and Graham Neubig

[Long] Learning to Contextually Aggregate Multi-Source Supervision for Sequence Labeling

Ouyu Lan, Xiao Huang, Bill Yuchen Lin, He Jiang, Liyuan Liu and Xiang Ren

Monday, July 6, 2020 UTC+0 (continued)

[Long] MixText: Linguistically-Informed Interpolation of Hidden Space for Semi-Supervised Text Classification

Jiaao Chen, Zichao Yang and Diyi Yang

[Long] MobileBERT: a Compact Task-Agnostic BERT for Resource-Limited Devices

Zhiqing Sun, Hongkun Yu, Xiaodan Song, Renjie Liu, Yiming Yang and Denny Zhou

[Short] On Importance Sampling-Based Evaluation of Latent Language Models

Robert L Logan IV, Matt Gardner and Sameer Singh

[Long] SMART: Robust and Efficient Fine-Tuning for Pre-trained Natural Language Models through Principled Regularized Optimization

Haoming Jiang, Pengcheng He, Weizhu Chen, Xiaodong Liu, Jianfeng Gao and Tuo Zhao

[Short] Stolen Probability: A Structural Weakness of Neural Language Models

David Demeter, Gregory Kimmel and Doug Downey

[Long] Taxonomy Construction of Unseen Domains via Graph-based Cross-Domain Knowledge Transfer

Chao Shang, Sarthak Dash, Md. Faisal Mahbub Chowdhury, Nandana Mihindukulasooriya and Alfio Gliozzo

[Short] To Pretrain or Not to Pretrain: Examining the Benefits of Pretraining on Resource Rich Tasks

Sinong Wang, Madian Khabsa and Hao Ma

[Short] Why Overfitting Isn't Always Bad: Retrofitting Cross-Lingual Word Embeddings to Dictionaries

Mozhi Zhang, Yoshinari Fujinuma, Michael J. Paul and Jordan Boyd-Graber

[Long] XtremeDistil: Multi-stage Distillation for Massive Multilingual Models

Subhabrata Mukherjee and Ahmed Hassan Awadallah

Monday, July 6, 2020 UTC+0 (continued)

20:00–21:00 Session 5A Machine Translation-6

[Short] ENGINE: Energy-Based Inference Networks for Non-Autoregressive Machine Translation

Lifu Tu, Richard Yuanzhe Pang, Sam Wiseman and Kevin Gimpel

[Short] Improving Non-autoregressive Neural Machine Translation with Monolingual Data

Jiawei Zhou and Phillip Keung

[Short] Leveraging Monolingual Data with Self-Supervision for Multilingual Neural Machine Translation

Aditya Siddhant, Ankur Bapna, Yuan Cao, Orhan Firat, Mia Chen, Sneha Kudugunta, Naveen Arivazhagan and Yonghui Wu

[Long] Location Attention for Extrapolation to Longer Sequences

Yann Dubois, Gautier Dagan, Dieuwke Hupkes and Elia Bruni

[Long] On The Evaluation of Machine Translation Systems Trained With Back-Translation

Sergey Edunov, Myle Ott, Marc’Aurelio Ranzato and Michael Auli

[Short] Opportunistic Decoding with Timely Correction for Simultaneous Translation

Renjie Zheng, Mingbo Ma, Baigong Zheng, Kaibo Liu and Liang Huang

[Short] Simultaneous Translation Policies: From Fixed to Adaptive

Baigong Zheng, Kaibo Liu, Renjie Zheng, Mingbo Ma, Hairong Liu and Liang Huang

Monday, July 6, 2020 UTC+0 (continued)

20:00–21:00 Session 5A Semantics: Textual Inference and Other Areas of Semantics-2

[Long] Can We Predict New Facts with Open Knowledge Graph Embeddings? A Benchmark for Open Link Prediction

Samuel Broscheit, Kiril Gashteovski, Yanjie Wang and Rainer Gemulla

[TACL] Decomposing Generalization: Models of Generic, Habitual and Episodic Statements

Venkata Subrahmanyam Govindarajan, Benjamin Van Durme, Aaron Steven White

[Long] INFOTABS: Inference on Tables as Semi-structured Data

Vivek Gupta, Maitrey Mehta, Pegah Nokhiz and Vivek Srikumar

[TACL] Inherent Disagreements in Human Textual Inferences

Ellie Pavlick, Tom Kwiatkowski

[Long] Interactive Machine Comprehension with Information Seeking Agents

Xingdi Yuan, Jie Fu, Marc-Alexandre Côté, Yi Tay, Chris Pal and Adam Trischler

[Short] Syntactic Data Augmentation Increases Robustness to Inference Heuristics

Junghyun Min, R. Thomas McCoy, Dipanjan Das, Emily Pitler and Tal Linzen

20:00–21:00 Session 5A Speech and Multimodality-2

[TACL] Acoustic-Prosodic and Lexical Cues to Deception and Trust: Deciphering How People Detect Lies

Xi (Leslie) Chen, Sarah Ita Levitan, Michelle Levine, Marko Mandic, and Julia Hirschberg

[Short] Improved Speech Representations with Multi-Target Autoregressive Predictive Coding

Yu-An Chung and James Glass

[Long] Integrating Multimodal Information in Large Pretrained Transformers

Wasifur Rahman, Md Kamrul Hasan, Sangwu Lee, AmirAli Bagher Zadeh, Chengfeng Mao, Louis-Philippe Morency and Ehsan Hoque

[Long] MultiQT: Multimodal learning for real-time question tracking in speech

Jakob D. Havtorn, Jan Latko, Joakim Edin, Lars Maaløe, Lasse Borgholt, Lorenzo Belgrano, Nicolai Jacobsen, Regitze Sdun and Željko Agić

[Short] Multimodal and Multiresolution Speech Recognition with Transformers

Georgios Paraskevopoulos, Srinivas Parthasarathy, Aparna Khare and Shiva Sundaram

Monday, July 6, 2020 UTC+0 (continued)

[Long] Phone Features Improve Speech Translation

Elizabeth Salesky and Alan W Black

20:00–21:00 Session 5A Theory and Formalism in NLP (Linguistic and Mathematical)-3

[Long] A Formal Hierarchy of RNN Architectures

William Merrill, Gail Weiss, Yoav Goldberg, Roy Schwartz, Noah A. Smith and Eran Yahav

[Long] Emergence of Syntax Needs Minimal Supervision

Raphaël Bailly and Kata Gábor

20:45–21:30 Demo Session 5B

[Demo] Multilingual Universal Sentence Encoder for Semantic Retrieval

Yinfei Yang, Daniel Cer, Amin Ahmad, Mandy Guo, Jax Law, Noah Constant, Gustavo Hernandez Abrego, Steve Yuan, Chris Tar, Yun-hsuan Sung, Brian Strope and Ray Kurzweil

[Demo] SyntaxGym: An Online Platform for Targeted Evaluation of Language Models

Jon Gauthier, Jennifer Hu, Ethan Wilcox, Peng Qian and Roger Levy

21:00–22:00 Session 5B Cognitive Modeling and Psycholinguistics-5

[Long] A Systematic Assessment of Syntactic Generalization in Neural Language Models

Jennifer Hu, Jon Gauthier, Peng Qian, Ethan Wilcox and Roger Levy

[Long] A Tale of Two Perplexities: Sensitivity of Neural Language Models to Lexical Retrieval Deficits in Dementia of the Alzheimer's Type

Trevor Cohen and Serguei Pakhomov

[Short] Learning to Understand Child-directed and Adult-directed Speech

Lieke Gelderloos, Grzegorz Chrupała and Afra Alishahi

[Short] Overestimation of Syntactic Representation in Neural Language Models

Jordan Kodner and Nitish Gupta

[Long] Probing Linguistic Systematicity

Emily Goodwin, Koustuv Sinha and Timothy J. O'Donnell

Monday, July 6, 2020 UTC+0 (continued)

[Short] Recollection versus Imagination: Exploring Human Memory and Cognition via Neural Language Models

Maarten Sap, Eric Horvitz, Yejin Choi, Noah A. Smith and James Pennebaker

[Long] Recurrent Neural Network Language Models Always Learn English-Like Relative Clause Attachment

Forrest Davis and Marten van Schijndel

[Long] Speakers enhance contextually confusable words

Eric Meinhardt, Eric Bakovic and Leon Bergen

[Long] Suspense in Short Stories is Predicted By Uncertainty Reduction over Neural Story Representation

David Wilmot and Frank Keller

[Long] What determines the order of adjectives in English? Comparing efficiency-based theories using dependency treebanks

Richard Futrell, William Dyer and Greg Sconras

21:00–22:00 Session 5B Dialogue and Interactive Systems-10

[Short] "None of the Above": Measure Uncertainty in Dialog Response Retrieval

Yulan Feng, Shikib Mehri, Maxine Eskenazi and Tiancheng Zhao

[Long] Can You Put it All Together: Evaluating Conversational Agents' Ability to Blend Skills

Eric Michael Smith, Mary Williamson, Kurt Shuster, Jason Weston and Y-Lan Boureau

[Long] Conversational Graph Grounded Policy Learning for Open-Domain Conversation Generation

Jun Xu, Haifeng Wang, Zheng-Yu Niu, Hua Wu, Wanxiang Che and Ting Liu

[Long] Grounding Conversations with Improvised Dialogues

Hyundong Cho and Jonathan May

[Long] Image-Chat: Engaging Grounded Conversations

Kurt Shuster, Samuel Humeau, Antoine Bordes and Jason Weston

[Long] Large Scale Multi-Actor Generative Dialog Modeling

Alex Boyd, Raul Puri, Mohammad Shoeybi, Mostofa Patwary and Bryan Catanzaro

Monday, July 6, 2020 UTC+0 (continued)

[Long] Neural Generation of Dialogue Response Timings

Matthew Roddy and Naomi Harte

[CL] The Design and Implementation of XiaoIce, an Empathetic Social Chatbot

Li Zhou, Jianfeng Gao, Di Li, Heung-Yeung Shum

[Long] The Dialogue Dodecathlon: Open-Domain Knowledge and Image Grounded Conversational Agents

Kurt Shuster, Da JU, Stephen Roller, Emily Dinan, Y-Lan Boureau and Jason Weston

21:00–22:00 Session 5B Language Grounding to Vision, Robotics and Beyond-2

[Long] BabyWalk: Going Farther in Vision-and-Language Navigation by Taking Baby Steps

Wang Zhu, Hexiang Hu, Jiacheng Chen, Zhiwei Deng, Vihan Jain, Eugene Ie and Fei Sha

[Long] Cross-media Structured Common Space for Multimedia Event Extraction

Manling Li, Alireza Zareian, Qi Zeng, Spencer Whitehead, Di Lu, Heng Ji and Shih-Fu Chang

[Long] Learning to Segment Actions from Observation and Narration

Daniel Fried, Jean-Baptiste Alayrac, Phil Blunsom, Chris Dyer, Stephen Clark and Aida Nematzadeh

[Long] Learning to execute instructions in a Minecraft dialogue

Prashant Jayannavar, Anjali Narayan-Chen and Julia Hockenmaier

[Long] MART: Memory-Augmented Recurrent Transformer for Coherent Video Paragraph Captioning

Jie Lei, Liwei Wang, Yelong Shen, Dong Yu, Tamara Berg and Mohit Bansal

[Short] What is Learned in Visually Grounded Neural Syntax Acquisition

Noriyuki Kojima, Hadar Averbuch-Elor, Alexander Rush and Yoav Artzi

Monday, July 6, 2020 UTC+0 (continued)

21:00–22:00 Session 5B Machine Learning for NLP-4

[Long] A Batch Normalized Inference Network Keeps the KL Vanishing Away

Qile Zhu, Wei Bi, Xiaojiang Liu, Xiyao Ma, Xiaolin Li and Dapeng Wu

[Short] Contextual Embeddings: When Are They Worth It?

Simran Arora, Avner May, Jian Zhang and Christopher Ré

[TACL] Efficient Contextual Representation Learning With Continuous Outputs

Liunian Harold Li, Patrick H. Chen, Cho-Jui Hsieh, Kai-Wei Chang

[Long] Interactive Classification by Asking Informative Questions

Lili Yu, Howard Chen, Sida I. Wang, Tao Lei and Yoav Artzi

[Long] Knowledge Graph Embedding Compression

Mrinmaya Sachan

[Short] Low Resource Sequence Tagging using Sentence Reconstruction

Tal Perl, Sriram Chaudhury and Raja Giryes

[Long] Masked Language Model Scoring

Julian Salazar, Davis Liang, Toan Q. Nguyen and Katrin Kirchhoff

[Long] Orthogonal Relation Transforms with Graph Context Modeling for Knowledge Graph Embedding

Yun Tang, Jing Huang, Guangtao Wang, Xiaodong He and Bowen Zhou

[TACL] Perturbation Based Learning for Structured NLP tasks with Application to Dependency Parsing

Amichay Doitch, Ram Yazdi, Tamir Hazan, Roi Reichart

[Short] Posterior Calibrated Training on Sentence Classification Tasks

Taehee Jung, Dongyeop Kang, Hua Cheng, Lucas Mentch and Thomas Schaaf

[Long] Posterior Control of Blackbox Generation

Xiang Lisa Li and Alexander Rush

Monday, July 6, 2020 UTC+0 (continued)

[Short] Pretrained Transformers Improve Out-of-Distribution Robustness

Dan Hendrycks, Xiaoyuan Liu, Eric Wallace, Adam Dziedziec, Rishabh Krishnan and Dawn Song

[Long] Robust Encodings: A Framework for Combating Adversarial Typos

Erik Jones, Robin Jia, Aditi Raghunathan and Percy Liang

[Short] Showing Your Work Doesn't Always Work

Raphael Tang, Jaejun Lee, Ji Xin, Xinyu Liu, Yaoliang Yu and Jimmy Lin

[Long] Span Selection Pre-training for Question Answering

Michael Glass, Alfio Gliozzo, Rishav Chakravarti, Anthony Ferritto, Lin Pan, G P Shrivatsa Bhargav, Dinesh Garg and Avi Sil

[Short] Topological Sort for Sentence Ordering

Shrimai Prabhumoye, Ruslan Salakhutdinov and Alan W Black

[Long] Weight Poisoning Attacks on Pretrained Models

Keita Kurita, Paul Michel and Graham Neubig

[Long] schuBERT: Optimizing Elements of BERT

Ashish Khetan and Zohar Karnin

21:00–22:00 Session 5B NLP Applications-4

[Long] "The Boating Store Had Its Best Sail Ever": Pronunciation-attentive Contextualized Pun Recognition

Yichao Zhou, Jyun-Yu Jiang, Jieyu Zhao, Kai-Wei Chang and Wei Wang

[Long] A Girl Has A Name: Detecting Authorship Obfuscation

Asad Mahmood, Zubair Shafiq and Padmini Srinivasan

[Short] DeeBERT: Dynamic Early Exiting for Accelerating BERT Inference

Ji Xin, Raphael Tang, Jaejun Lee, Yaoliang Yu and Jimmy Lin

[Short] Efficient Strategies for Hierarchical Text Classification: External Knowledge and Auxiliary Tasks

Kervy Rivas Rojas, Gina Bustamante, Arturo Oncevay and Marco Antonio Sobrevilla Cabezudo

Monday, July 6, 2020 UTC+0 (continued)

[Long] Investigating the effect of auxiliary objectives for the automated grading of learner English speech transcriptions

Hannah Craighead, Andrew Caines, Paula Buttery and Helen Yannakoudakis

[Long] SPECTER: Document-level Representation Learning using Citation-informed Transformers

Arman Cohan, Sergey Feldman, Iz Beltagy, Doug Downey and Daniel Weld

[Long] Semantic Scaffolds for Pseudocode-to-Code Generation

Ruiqi Zhong, Mitchell Stern and Dan Klein

21:00–22:00 Session 5B Semantics: Lexical-3

[Long] Breaking Through the 80% Glass Ceiling: Raising the State of the Art in Word Sense Disambiguation by Incorporating Knowledge Graph Information

Michele Bevilacqua and Roberto Navigli

[Short] Glyph2Vec: Learning Chinese Out-of-Vocabulary Word Embedding from Glyphs

Hong-You Chen, SZ-HAN YU and Shou-de Lin

[TACL] Learning Lexical Subspaces in a Distributional Vector Space

Kushal Arora, Aishik Chakraborty, Jackie Chi Kit Cheung

[Long] Multidirectional Associative Optimization of Function-Specific Word Representations

Daniela Gerz, Ivan Vulić, Marek Rei, Roi Reichart and Anna Korhonen

[Short] Predicting Degrees of Technicality in Automatic Terminology Extraction

Anna HäTTY, Dominik Schlechtweg, Michael Dorna and Sabine Schulte im Walde

[Short] Verbal Multiword Expressions for Identification of Metaphor

Omid Rohanian, Marek Rei, Shiva Taslimipour and Le An Ha

Monday, July 6, 2020 UTC+0 (continued)

21:30–22:15 Demo Session 5C

[Demo] jiant: A Software Toolkit for Research on General-Purpose Text Understanding Models

Yada Pruksachatkun, Phil Yeres, Haokun Liu, Jason Phang, Phu Mon Htut, Alex Wang, Ian Tenney and Samuel R. Bowman

[Demo] The Microsoft Toolkit of Multi-Task Deep Neural Networks for Natural Language Understanding

Xiaodong Liu, Yu Wang, Jianshu Ji, Hao Cheng, Xueyun Zhu, Emmanuel Awa, Pengcheng He, Weizhu Chen, Hoifung Poon, Guihong Cao and Jianfeng Gao

[Demo] Stanza: A Python Natural Language Processing Toolkit for Many Human Languages

Peng Qi, Yuhao Zhang, Yuhui Zhang, Jason Bolton and Christopher D. Manning

Tuesday, July 7, 2020 UTC+0

05:00–05:45 Demo Session 1A

[Demo] LinggleWrite: a Coaching System for Essay Writing

Chung-Ting Tsai, Jhih-Jie Chen, Ching-Yu Yang and Jason S. Chang

05:00–06:00 Session 6A Ethics and NLP-1

[Long] Gender Bias in Multilingual Embeddings and Cross-Lingual Transfer

Jieyu Zhao, Subhabrata Mukherjee, saghar Hosseini, Kai-Wei Chang and Ahmed Hassan Awadallah

[Short] Give Me Convenience and Give Her Death: Who Should Decide What Uses of NLP are Appropriate, and on What Basis?

kobi leins, Jey Han Lau and Timothy Baldwin

[Short] Is Your Classifier Actually Biased? Measuring Fairness under Uncertainty with Bernstein Bounds

Kawin Ethayarajh

[Long] It's Morphin' Time! Combating Linguistic Discrimination with Inflectional Perturbations

Samson Tan, Shafiq Joty, Min-Yen Kan and Richard Socher

[Short] Mitigating Gender Bias Amplification in Distribution by Posterior Regularization

Shengyu Jia, Tao Meng, Jieyu Zhao and Kai-Wei Chang

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Towards Understanding Gender Bias in Relation Extraction

Andrew Gaut, Tony Sun, Shirlyn Tang, Yuxin Huang, Jing Qian, Mai ElSherief, Jieyu Zhao, Diba Mirza, Elizabeth Belding, Kai-Wei Chang and William Yang Wang

05:00–06:00 Session 6A Machine Learning for NLP-5

[Short] A Probabilistic Generative Model for Typographical Analysis of Early Modern Printing

Kartik Goyal, Chris Dyer, Christopher Warren, Maxwell G'Sell and Taylor Berg-Kirkpatrick

[Long] Attentive Pooling with Learnable Norms for Text Representation

Chuhan Wu, Fangzhao Wu, Tao Qi, Xiaohui Cui and Yongfeng Huang

[Long] Estimating the influence of auxiliary tasks for multi-task learning of sequence tagging tasks

Fynn Schröder and Chris Biemann

[Long] How Does Selective Mechanism Improve Self-Attention Networks?

Xinwei Geng, Longyue Wang, Xing Wang, Bing Qin, Ting Liu and Zhaopeng Tu

[Long] Improving Transformer Models by Reordering their Sublayers

Ofir Press, Noah A. Smith and Omer Levy

[Short] Single Model Ensemble using Pseudo-Tags and Distinct Vectors

Ryosuke Kuwabara, Jun Suzuki and Hideki Nakayama

[Long] Zero-shot Text Classification via Reinforced Self-training

Zhiquan Ye, Yuxia Geng, Jiaoyan Chen, Jingmin Chen, Xiaoxiao Xu, SuHang Zheng, Feng Wang, Jun Zhang and Huajun Chen

Tuesday, July 7, 2020 UTC+0 (continued)

05:00–06:00 Session 6A Machine Translation-7

[Long] A Novel Graph-based Multi-modal Fusion Encoder for Neural Machine Translation

Yongjing Yin, Fandong Meng, Jinsong Su, Chulun Zhou, Zhengyuan Yang, Jie Zhou and Jiebo Luo

[Short] A Relaxed Matching Procedure for Unsupervised BLI

Xu Zhao, Zihao Wang, Yong Zhang and Hao Wu

[Long] Dynamic Programming Encoding for Subword Segmentation in Neural Machine Translation

Xuanli He, Gholamreza Haffari and Mohammad Norouzi

[Short] Geometry-aware domain adaptation for unsupervised alignment of word embeddings

Pratik Jawanpuria, Mayank Meghwanshi and Bamdev Mishra

[Long] Learning to Recover from Multi-Modality Errors for Non-Autoregressive Neural Machine Translation

Qiu Ran, Yankai Lin, Peng Li and Jie Zhou

[Long] On the Inference Calibration of Neural Machine Translation

Shuo Wang, Zhaopeng Tu, Shuming Shi and Yang Liu

[CL] Unsupervised Word Translation with Adversarial Autoencoder

Tasnim Mohiuddin, Shafiq Joty

Tuesday, July 7, 2020 UTC+0 (continued)

05:00–06:00 Session 6A NLP Applications-5

[Short] Camouflaged Chinese Spam Content Detection with Semi-supervised Generative Active Learning

Zhuoren Jiang, Zhe Gao, Yu Duan, Yangyang Kang, Changlong Sun, Qiong Zhang and Xiaozhong Liu

[Long] Distinguish Confusing Law Articles for Legal Judgment Prediction

Nuo Xu, Pinghui Wang, Long Chen, Li Pan, Xiaoyan Wang and Junzhou Zhao

[Long] Hiring Now: A Skill-Aware Multi-Attention Model for Job Posting Generation

Liting Liu, Jie Liu, Wenzheng Zhang, Ziming Chi, Wenxuan Shi and Yalou Huang

[Long] HyperCore: Hyperbolic and Co-graph Representation for Automatic ICD Coding

Pengfei Cao, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong

[Long] Hyperbolic Capsule Networks for Multi-Label Classification

Boli Chen, Xin Huang, Lin Xiao and Liping Jing

[Long] Improving Segmentation for Technical Support Problems

Kushal Chauhan and Abhirut Gupta

[Short] MOOCCube: A Large-scale Data Repository for NLP Applications in MOOCs

Jifan Yu, Gan Luo, Tong Xiao, Qingyang Zhong, Yuquan Wang, wenzheng feng, Junyi Luo, Chenyu Wang, Lei Hou, Juanzi Li, Zhiyuan Liu and Jie Tang

[Long] Towards Interpretable Clinical Diagnosis with Bayesian Network Ensembles Stacked on Entity-Aware CNNs

Jun Chen, Xiaoya Dai, Quan Yuan, Chao Lu and Haifeng Huang

Tuesday, July 7, 2020 UTC+0 (continued)

05:00–06:00 Session 6A Sentiment Analysis, Stylistic Analysis, and Argument Mining-1

[Short] Analyzing the Persuasive Effect of Style in News Editorial Argumentation

Roxanne El Baff, Henning Wachsmuth, Khalid Al Khatib and Benno Stein

[Long] ECPE-2D: Emotion-Cause Pair Extraction based on Joint Two-Dimensional Representation, Interaction and Prediction

Zixiang Ding, Rui Xia and Jianfei Yu

[Long] Effective Inter-Clause Modeling for End-to-End Emotion-Cause Pair Extraction

Penghui Wei, Jiahao Zhao and Wenji Mao

[Short] Embarrassingly Simple Unsupervised Aspect Extraction

Stéphan Tulkens and Andreas van Cranenburgh

[Long] Enhancing Cross-target Stance Detection with Transferable Semantic-Emotion Knowledge

Bowen Zhang, Min Yang, Xutao Li, Yunming Ye, Xiaofei Xu and Kuai Dai

[Long] KinGDOM: Knowledge-Guided DOMAIN Adaptation for Sentiment Analysis

Deepanway Ghosal, Devamanyu Hazarika, Abhinaba Roy, Navonil Majumder, Rada Mihalcea and Soujanya Poria

[Long] Modelling Context and Syntactical Features for Aspect-based Sentiment Analysis

Minh Hieu Phan and Philip O. Ogunbona

[Short] Parallel Data Augmentation for Formality Style Transfer

Yi Zhang, Tao Ge and Xu SUN

[Long] Relational Graph Attention Network for Aspect-based Sentiment Analysis

Kai Wang, Weizhou Shen, Yunyi Yang, Xiaojun Quan and Rui Wang

[Long] SpanMlt: A Span-based Multi-Task Learning Framework for Pair-wise Aspect and Opinion Terms Extraction

He Zhao, Longtao Huang, Rong Zhang, Quan Lu and hui xue

[Long] Syntax-Aware Opinion Role Labeling with Dependency Graph Convolutional Networks

Bo Zhang, Yue Zhang, Rui Wang, Zhenghua Li and Min Zhang

Tuesday, July 7, 2020 UTC+0 (continued)

[TACL] Target-Guided Structured Attention Network for Target-dependent Sentiment Analysis

Ji Zhang, Chengyao Chen, Pengfei Liu, Chao He, Cane Wing-Ki Leung

[Short] Towards Better Non-Tree Argument Mining: Proposition-Level Biaffine Parsing with Task-Specific Parameterization

Gaku Morio, Hiroaki Ozaki, Terufumi Morishita, Yuta Koreeda and Kohsuke Yanai

05:00–06:00 Session 6A Syntax: Tagging, Chunking and Parsing-1

[TACL] A Graph-based Model for Joint Chinese Word Segmentation and Dependency Parsing

Hang Yan, Xipeng Qiu, Xuanjing Huang

[Long] A Span-based Linearization for Constituent Trees

Yang Wei, Yuanbin Wu and Man Lan

[Short] An Empirical Comparison of Unsupervised Constituency Parsing Methods

Jun Li, Yifan Cao, Jiong Cai, Yong Jiang and Kewei Tu

[Long] Efficient Constituency Parsing by Pointing

Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li

[Long] Efficient Second-Order TreeCRF for Neural Dependency Parsing

Yu Zhang, Zhenghua Li and Min Zhang

[Short] Representations of Syntax [MASK] Useful: Effects of Constituency and Dependency Structure in Recursive LSTMs

Michael Lepori, Tal Linzen and R. Thomas McCoy

[Long] Structure-Level Knowledge Distillation For Multilingual Sequence Labeling

Xinyu Wang, Yong Jiang, Nguyen Bach, Tao Wang, Fei Huang and Kewei Tu

Tuesday, July 7, 2020 UTC+0 (continued)

05:00–06:00 Session 6A Student Research Workshop

[SRW] uBLEU: Uncertainty-Aware Automatic Evaluation Method for Open-Domain Dialogue Systems

Tsuta Yuma, Naoki Yoshinaga and Masashi Toyoda

[SRW] To compress or not to compress? A Finite-State approach to Noun verbal morphology

Saliha Muradoglu, Nicholas Evans and Hanna Suominen

[SRW] AraDIC: Arabic Document Classification Using Image-Based Character Embeddings and Class-Balanced Loss

Mahmoud Daif, Shunsuke Kitada and Hitoshi Iyatomi

[SRW] Self-Attention is Not Only a Weight: Analyzing BERT with Vector Norms

Goro Kobayashi, Tatsuki Kuribayashi, Sho Yokoi and Kentaro Inui

05:45–06:30 Demo Session 1B

[Demo] CLIReval: Evaluating Machine Translation as a Cross-Lingual Information Retrieval Task

Shuo Sun, Suzanna Sia and Kevin Duh

06:00–07:00 Session 6B Computational Social Science and Social Media-4

[Long] Dynamic Online Conversation Recommendation

Xingshan Zeng, Jing Li, Lu Wang, Zhiming Mao and Kam-Fai Wong

[Long] Improving Multimodal Named Entity Recognition via Entity Span Detection with Unified Multimodal Transformer

Jianfei Yu, Jing Jiang, Li Yang and Rui Xia

[Long] Stock Embeddings Acquired from News Articles and Price History, and an Application to Portfolio Optimization

Xin Du and Kumiko Tanaka-Ishii

[Long] What Was Written vs. Who Read It: News Media Profiling Using Text Analysis and Social Media Context

Ramy Baly, Georgi Karadzhov, Jisun An, Haewoon Kwak, Yoan Dinkov, Ahmed Ali, James Glass and Preslav Nakov

Tuesday, July 7, 2020 UTC+0 (continued)

06:00–07:00 Session 6B Interpretability and Analysis of Models for NLP-1

[Long] An Analysis of the Utility of Explicit Negative Examples to Improve the Syntactic Abilities of Neural Language Models

Hiroshi Noji and Hiroya Takamura

[TACL] Membership Inference Attacks on Sequence-to-Sequence Models: Is My Data In Your Machine Translation System?

Sorami Hisamoto, Matt Post, Kevin Duh

[Long] On the Robustness of Language Encoders against Grammatical Errors

Fan Yin, Quanyu Long, Tao Meng and Kai-Wei Chang

[Long] Roles and Utilization of Attention Heads in Transformer-based Neural Language Models

Jae-young Jo and Sung-Hyon Myaeng

[TACL] Tabula nearly rasa: Probing the linguistic knowledge of character-level neural language models trained on unsegmented text

Michael Hahn, Marco Baroni

[Long] Understanding Attention for Text Classification

Xiaobing Sun and Wei Lu

06:00–07:00 Session 6B Machine Learning for NLP-6

[Short] A Relational Memory-based Embedding Model for Triple Classification and Search Personalization

Dai Quoc Nguyen, Tu Nguyen and Dinh Phung

[Short] Do you have the right scissors? Tailoring Pre-trained Language Models via Monte-Carlo Methods

Ning Miao, Yuxuan Song, Hao Zhou and Lei Li

[Short] Enhancing Pre-trained Chinese Character Representation with Word-aligned Attention

Yanzeng Li, Bowen Yu, Xue Mengge and Tingwen Liu

[Long] On the Encoder-Decoder Incompatibility in Variational Text Modeling and Beyond

Chen Wu, Prince Zizhuang Wang and William Yang Wang

Tuesday, July 7, 2020 UTC+0 (continued)

[Short] SAFER: A Structure-free Approach for Certified Robustness to Adversarial Word Substitutions

Mao Ye, Chengyue Gong and Qiang Liu

06:00–07:00 Session 6B Machine Translation-8

[Long] A Graph-based Coarse-to-fine Method for Unsupervised Bilingual Lexicon Induction

Shuo Ren, Shujie Liu, Ming Zhou and Shuai Ma

[Long] A Reinforced Generation of Adversarial Examples for Neural Machine Translation

wei zou, Shujian Huang, Jun Xie, Xinyu Dai and Jiajun CHEN

[Short] A Retrieve-and-Rewrite Initialization Method for Unsupervised Machine Translation

Shuo Ren, Yu Wu, Shujie Liu, Ming Zhou and Shuai Ma

[Short] A Simple and Effective Unified Encoder for Document-Level Machine Translation

Shuming Ma, Dongdong Zhang and Ming Zhou

[Short] Does Multi-Encoder Help? A Case Study on Context-Aware Neural Machine Translation

Bei Li, Hui Liu, Ziyang Wang, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li

[Short] Dynamically Adjusting Transformer Batch Size by Monitoring Gradient Direction Change

Hongfei Xu, Josef van Genabith, Deyi Xiong and Qihui Liu

[Long] Knowledge Distillation for Multilingual Unsupervised Neural Machine Translation

Haipeng Sun, Rui Wang, Kehai Chen, Masao Utiyama, Eiichiro Sumita and Tiejun Zhao

[Short] Lexically Constrained Neural Machine Translation with Levenshtein Transformer

Raymond Hendy Susanto, Shamil Chollampatt and Liling Tan

[Short] On Exposure Bias, Hallucination and Domain Shift in Neural Machine Translation

Chaojun Wang and Rico Sennrich

Tuesday, July 7, 2020 UTC+0 (continued)

06:00–07:00 Session 6B Resources and Evaluation-5

[Short] Automatic Machine Translation Evaluation using Source Language Inputs and Cross-lingual Language Model

Kosuke Takahashi, Katsuhito Sudoh and Satoshi Nakamura

[Long] ChartDialogs: Plotting from Natural Language Instructions

Yutong Shao and Ndapa Nakashole

[Long] GLUECoS: An Evaluation Benchmark for Code-Switched NLP

Simran Khanuja, Sandipan Dandapat, Anirudh Srinivasan, Sunayana Sitaram and Monojit Choudhury

[Long] MATINF: A Jointly Labeled Large-Scale Dataset for Classification, Question Answering and Summarization

Canwen Xu, Jiaxin Pei, Hongtao Wu, Yiyu Liu and Chenliang Li

[Long] MIND: A Large-scale Dataset for News Recommendation

Fangzhao Wu, Ying Qiao, Jiun-Hung Chen, Chuhan Wu, Tao Qi, Jianxun Lian, Danyang Liu, Xing Xie, Jianfeng Gao, Winnie Wu and Ming Zhou

[Long] That is a Known Lie: Detecting Previously Fact-Checked Claims

Shaden Shaar, Nikolay Babulkov, Giovanni Da San Martino and Preslav Nakov

[Long] Towards Holistic and Automatic Evaluation of Open-Domain Dialogue Generation

Bo Pang, Erik Nijkamp, Wenjuan Han, Linqi Zhou, Yixian Liu and Kewei Tu

Tuesday, July 7, 2020 UTC+0 (continued)

06:00–07:00 Session 6B Semantics: Lexical-4

[Long] BiRRE: Learning Bidirectional Residual Relation Embeddings for Supervised Hypernymy Detection

Chengyu Wang and XIAOFENG HE

[Long] Biomedical Entity Representations with Synonym Marginalization

Mujeen Sung, Hwisang Jeon, Jinhyuk Lee and Jaewoo Kang

[Short] Hypernymy Detection for Low-Resource Languages via Meta Learning

Changlong Yu, Jialong Han, Haisong Zhang and Wilfred Ng

[Long] Investigating Word-Class Distributions in Word Vector Spaces

Ryohei Sasano and Anna Korhonen

06:00–07:00 Session 6B Sentiment Analysis, Stylistic Analysis, and Argument Mining-2

[Long] Aspect Sentiment Classification with Document-level Sentiment Preference Modeling

Xiao Chen, Changlong Sun, Jingjing Wang, Shoushan Li, Luo Si, Min Zhang and Guodong Zhou

[Short] Don't Eclipse Your Arts Due to Small Discrepancies: Boundary Repositioning with a Pointer Network for Aspect Extraction

Zhenkai Wei, Yu Hong, Bowei Zou, Meng Cheng and Jianmin YAO

[Long] Relation-Aware Collaborative Learning for Unified Aspect-Based Sentiment Analysis

Zhuang Chen and Tieyun Qian

[Long] SentiBERT: A Transferable Transformer-Based Architecture for Compositional Sentiment Semantics

Da Yin, Tao Meng and Kai-Wei Chang

[Long] Transition-based Directed Graph Construction for Emotion-Cause Pair Extraction

Chuang Fan, Chaofa Yuan, Jiachen Du, Lin Gui, Min Yang and Ruifeng Xu

Tuesday, July 7, 2020 UTC+0 (continued)

06:00–07:00 Session 6B Speech and Multimodality-3

[Long] CH-SIMS: A Chinese Multimodal Sentiment Analysis Dataset with Fine-grained Annotation of Modality

Wenmeng Yu, Hua Xu, Fanyang Meng, Yilin Zhu, Yixiao Ma, Jiele Wu, Jiyun Zou and Kaicheng Yang

[Long] Curriculum Pre-training for End-to-End Speech Translation

Chengyi Wang, Yu Wu, Shujie Liu, Ming Zhou and Zhenglu Yang

[Long] How Accents Confound: Probing for Accent Information in End-to-End Speech Recognition Systems

Archiki Prasad and Preethi Jyothi

[Long] Improving Disfluency Detection by Self-Training a Self-Attentive Model

Paria Jamshid Lou and Mark Johnson

[Short] Learning Spoken Language Representations with Neural Lattice Language Modeling

Chao-Wei Huang and Yun-Nung Chen

[Short] Meta-Transfer Learning for Code-Switched Speech Recognition

Genta Indra Winata, Samuel Cahyawijaya, Zhaojiang Lin, Zihan Liu, Peng Xu and Pascale Fung

[Long] Reasoning with Multimodal Sarcastic Tweets via Modeling Cross-Modality Contrast and Semantic Association

Nan Xu, Zhixiong Zeng and Wenji Mao

[Long] SimulSpeech: End-to-End Simultaneous Speech to Text Translation

Yi Ren, Jinglin Liu, Xu Tan, Chen Zhang, Tao QIN, Zhou Zhao and Tie-Yan Liu

[Short] Towards end-2-end learning for predicting behavior codes from spoken utterances in psychotherapy conversations

Karan Singla, Zhuohao Chen, David Atkins and Shrikanth Narayanan

Tuesday, July 7, 2020 UTC+0 (continued)

06:00–07:00 Session 6B Student Research Workshop

[SRW] Embeddings of Label Components for Sequence Labeling: A Case Study of Fine-grained Named Entity Recognition

Takuma Kato, Kaori Abe, Hiroki Ouchi, Shumpei Miyawaki, Jun Suzuki and Kentaro Inui

[SRW] Building a Japanese Typo Dataset from Wikipedia's Revision History

Yu Tanaka, Yugo Murawaki, Daisuke Kawahara and Sadao Kurohashi

[SRW] Preventing Critical Scoring Errors in Short Answer Scoring with Confidence Estimation

Hiroaki Funayama, Shota Sasaki, Yuichiroh Matsubayashi, Tomoya Mizumoto, Jun Suzuki, Masato Mita and Kentaro Inui

06:30–07:15 Demo Session 1C

[Demo] ConvLab-2: An Open-Source Toolkit for Building, Evaluating, and Diagnosing Dialogue Systems

Qi Zhu, Zheng Zhang, Yan Fang, Xiang Li, Ryuichi Takanobu, Jinchao Li, Baolin Peng, Jianfeng Gao, Xiaoyan Zhu and Minlie Huang

08:00–08:45 Demo Session 2A

[Demo] OpusFilter: A Configurable Parallel Corpus Filtering Toolbox

Mikko Aulamo, Sami Virpioja and Jörg Tiedemann

08:00–09:00 Session 7A Computational Social Science and Social Media-5

[Long] Dynamic Online Conversation Recommendation

Xingshan Zeng, Jing Li, Lu Wang, Zhiming Mao and Kam-Fai Wong

[Short] Neural Temporal Opinion Modelling for Opinion Prediction on Twitter

Lixing Zhu, Yulan He and Deyu Zhou

[Long] Stock Embeddings Acquired from News Articles and Price History, and an Application to Portfolio Optimization

Xin Du and Kumiko Tanaka-Ishii

[Long] What Was Written vs. Who Read It: News Media Profiling Using Text Analysis and Social Media Context

Ramy Baly, Georgi Karadzhov, Jisun An, Haewoon Kwak, Yoan Dinkov, Ahmed Ali, James Glass and Preslav Nakov

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] It Takes Two to Lie: One to Lie, and One to Listen

Denis Peskov, Benny Cheng, Ahmed Elgohary, Joe Barrow, Cristian Danescu-Niculescu-Mizil and Jordan Boyd-Graber

08:00–09:00 Session 7A Generation-9

[Short] Learning Implicit Text Generation via Feature Matching

Inkit Padhi, Pierre Dognin, Ke Bai, Cícero Nogueira dos Santos, Vijil Chenthamakrishnan, Youssef Mroueh and Payel Das

[Short] Two Birds, One Stone: A Simple, Unified Model for Text Generation from Structured and Unstructured Data

Hamidreza Shahidi, Ming Li and Jimmy Lin

08:00–09:00 Session 7A Machine Learning for NLP-7

[Short] Bayesian Hierarchical Words Representation Learning

Oren Barkan, Idan Rejwan, Avi Caciularu and Noam Koenigstein

[Long] How Does Selective Mechanism Improve Self-Attention Networks?

Xinwei Geng, Longyue Wang, Xing Wang, Bing Qin, Ting Liu and Zhaopeng Tu

[Long] Pre-training Is (Almost) All You Need: An Application to Commonsense Reasoning

Alexandre Tamborrino, Nicola Pellicanò, Baptiste Pannier, Pascal Voitot and Louise Naudin

[Long] SEEK: Segmented Embedding of Knowledge Graphs

Wentao Xu, Shun Zheng, Liang He, Bin Shao, Jian Yin and Tie-Yan Liu

[Long] Zero-shot Text Classification via Reinforced Self-training

Zhiqian Ye, Yuxia Geng, Jiaoyan Chen, Jingmin Chen, Xiaoxiao Xu, SuHang Zheng, Feng Wang, Jun Zhang and Huajun Chen

Tuesday, July 7, 2020 UTC+0 (continued)

08:00–09:00 Session 7A Machine Translation-9

[Long] A Novel Graph-based Multi-modal Fusion Encoder for Neural Machine Translation

Yongjing Yin, Fandong Meng, Jinsong Su, Chulun Zhou, Zhengyuan Yang, Jie Zhou and Jiebo Luo

[CL] A Systematic Study of Inner-Attention-Based Sentence Representations in Multilingual Neural Machine Translation

Raúl Vázquez, Alessandro Raganato, Mathias Creutz, Jörg Tiedemann

[TACL] Better Document-level Machine Translation with Bayes' Rule

Lei Yu, Laurent Sartran, Wojciech Stokowiec, Wang Ling, Lingpeng Kong, Phil Blunsom, Chris Dyer

[Long] Dynamic Programming Encoding for Subword Segmentation in Neural Machine Translation

Xuanli He, Gholamreza Haffari and Mohammad Norouzi

[Long] On the Inference Calibration of Neural Machine Translation

Shuo Wang, Zhaopeng Tu, Shuming Shi and Yang Liu

[Long] Selecting Backtranslated Data from Multiple Sources for Improved Neural Machine Translation

Xabier Soto, Dimitar Shterionov, Alberto Poncelas and Andy Way

[Short] Successfully Applying the Stabilized Lottery Ticket Hypothesis to the Transformer Architecture

Christopher Brix, Parnia Bahar and Hermann Ney

08:00–09:00 Session 7A Question Answering-4

[Long] A Self-Training Method for Machine Reading Comprehension with Soft Evidence Extraction

Yilin Niu, Fangkai Jiao, Mantong Zhou, Ting Yao, jingfang xu and Minlie Huang

[Long] Graph-to-Tree Learning for Solving Math Word Problems

Jipeng Zhang, Lei Wang, Roy Ka-Wei Lee, Yi Bin, Yan Wang, Jie Shao and Ee-Peng Lim

Tuesday, July 7, 2020 UTC+0 (continued)

08:00–09:00 Session 7A Resources and Evaluation-6

[Long] An Effectiveness Metric for Ordinal Classification: Formal Properties and Experimental Results

Enrique Amigo, Julio Gonzalo, Stefano Mizzaro and Jorge Carrillo-de-Albornoz

[Long] GLUECoS: An Evaluation Benchmark for Code-Switched NLP

Simran Khanuja, Sandipan Dandapat, Anirudh Srinivasan, Sunayana Sitaram and Monojit Choudhury

08:00–09:00 Session 7A Semantics: Lexical-5

[Long] Adaptive Compression of Word Embeddings

Yeachen Kim, Kang-Min Kim and SangKeun Lee

[Long] Analysing Lexical Semantic Change with Contextualised Word Representations

Mario Giulianelli, Marco Del Tredici and Raquel Fernández

[Short] Autoencoding Keyword Correlation Graph for Document Clustering

Billy Chiu, Sunil Kumar Sahu, Derek Thomas, Neha Sengupta and Mohammady Mahdy

[Long] Autoencoding Pixies: Amortised Variational Inference with Graph Convolutions for Functional Distributional Semantics

Guy Emerson

[Long] BERTRAM: Improved Word Embeddings Have Big Impact on Contextualized Model Performance

Timo Schick and Hinrich Schütze

[Long] BiRRE: Learning Bidirectional Residual Relation Embeddings for Supervised Hypernymy Detection

Chengyu Wang and XIAOFENG HE

[Long] Biomedical Entity Representations with Synonym Marginalization

Mujeen Sung, Hwisang Jeon, Jinhyuk Lee and Jaewoo Kang

[Long] CluBERT: A Cluster-Based Approach for Learning Sense Distributions in Multiple Languages

Tommaso Pasini, Federico Scozzafava and Bianca Scarlini

Tuesday, July 7, 2020 UTC+0 (continued)

08:00–09:00 Session 7A Sentiment Analysis, Stylistic Analysis, and Argument Mining-3

[Long] Adversarial and Domain-Aware BERT for Cross-Domain Sentiment Analysis

Chunning Du, Haifeng Sun, Jingyu Wang, Qi Qi and Jianxin Liao

[Short] Analyzing the Persuasive Effect of Style in News Editorial Argumentation

Roxanne El Baff, Henning Wachsmuth, Khalid Al Khatib and Benno Stein

[Long] Effective Inter-Clause Modeling for End-to-End Emotion-Cause Pair Extraction

Penghui Wei, Jiahao Zhao and Wenji Mao

[Long] Enhancing Cross-target Stance Detection with Transferable Semantic-Emotion Knowledge

Bowen Zhang, Min Yang, Xutao Li, Yunming Ye, Xiaofei Xu and Kuai Dai

[Long] From Arguments to Key Points: Towards Automatic Argument Summarization

Roy Bar-Haim, Lilach Eden, Roni Friedman, Yoav Kantor, Dan Lahav and Noam Slonim

[Long] GoEmotions: A Dataset of Fine-Grained Emotions

Dorottya Demszky, Dana Movshovitz-Attias, Jeongwoo Ko, Alan Cowen, Gaurav Nemade and Sujith Ravi

[Long] He said "who's gonna take care of your children when you are at ACL?": Reported Sexist Acts are Not Sexist

Patricia Chiril, Véronique MORICEAU, Farah Benamara, Alda Mari, Gloria Origgi and Marlène Coulomb-Gully

[Long] KinGDOM: Knowledge-Guided DOMain Adaptation for Sentiment Analysis

Deepanway Ghosal, Devamanyu Hazarika, Abhinaba Roy, Navonil Majumder, Rada Mihalcea and Soujanya Poria

[Long] Modelling Context and Syntactical Features for Aspect-based Sentiment Analysis

Minh Hieu Phan and Philip O. Ogunbona

[Short] Parallel Data Augmentation for Formality Style Transfer

Yi Zhang, Tao Ge and Xu SUN

[Long] SKEP: Sentiment Knowledge Enhanced Pre-training for Sentiment Analysis

Hao Tian, Can Gao, Xinyan Xiao, Hao Liu, Bolei He, Hua Wu, Haifeng Wang and feng wu

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] SpanMlt: A Span-based Multi-Task Learning Framework for Pair-wise Aspect and Opinion Terms Extraction

He Zhao, Longtao Huang, Rong Zhang, Quan Lu and hui xue

[TACL] Target-Guided Structured Attention Network for Target-dependent Sentiment Analysis

Ji Zhang, Chengyao Chen, Pengfei Liu, Chao He, Cane Wing-Ki Leung

[Short] Towards Better Non-Tree Argument Mining: Proposition-Level Biaffine Parsing with Task-Specific Parameterization

Gaku Morio, Hiroaki Ozaki, Terufumi Morishita, Yuta Koreeda and Kohsuke Yanai

08:00–09:00 Session 7A Syntax: Tagging, Chunking and Parsing-2

[TACL] A Graph-based Model for Joint Chinese Word Segmentation and Dependency Parsing

Hang Yan, Xipeng Qiu, Xuanjing Huang

[CL] Abstract Syntax as Interlingua: Scaling Up the Grammatical Framework from Controlled Languages to Robust Pipelines

Aarne Ranta, Krasimir Angelov, Normunds Gruzitis, Prasanth Kolachina

[Short] An Empirical Comparison of Unsupervised Constituency Parsing Methods

Jun Li, Yifan Cao, Jiong Cai, Yong Jiang and Kewei Tu

[Long] Do Neural Language Models Show Preferences for Syntactic Formalisms?

Artur Kulmizev, Vinit Ravishankar, Mostafa Abdou and Joakim Nivre

[Long] Efficient Constituency Parsing by Pointing

Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li

[Long] Efficient Second-Order TreeCRF for Neural Dependency Parsing

Yu Zhang, Zhenghua Li and Min Zhang

[Short] Enriched In-Order Linearization for Faster Sequence-to-Sequence Constituent Parsing

Daniel Fernández-González and Carlos Gómez-Rodríguez

[Long] Exact yet Efficient Graph Parsing, Bi-directional Locality and the Constructivist Hypothesis

Yajie Ye and Weiwei Sun

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Max-Margin Incremental CCG Parsing

Miloš Stanojević and Mark Steedman

[Long] Neural Reranking for Dependency Parsing: An Evaluation

Bich-Ngoc Do and Ines Rehbein

[Short] Representations of Syntax [MASK] Useful: Effects of Constituency and Dependency Structure in Recursive LSTMs

Michael Lepori, Tal Linzen and R. Thomas McCoy

[Long] Structure-Level Knowledge Distillation For Multilingual Sequence Labeling

Xinyu Wang, Yong Jiang, Nguyen Bach, Tao Wang, Fei Huang and Kewei Tu

08:00–09:00 Session 7A Student Research Workshop

[SRW] Unsupervised Paraphasia Classification in Aphasic Speech

Sharan Pai, Nikhil Sachdeva, Prince Sachdeva and Rajiv Ratn Shah

[SRW] Reflection-based Word Attribute Transfer

Yoichi Ishibashi, Katsuhito Sudoh, Koichiro Yoshino and Satoshi Nakamura

[SRW] To compress or not to compress? A Finite-State approach to Nen verbal morphology

Saliha Muradoglu, Nicholas Evans and Hanna Suominen

[SRW] Embeddings of Label Components for Sequence Labeling: A Case Study of Fine-grained Named Entity Recognition

Takuma Kato, Kaori Abe, Hiroki Ouchi, Shumpei Miyawaki, Jun Suzuki and Kentaro Inui

Tuesday, July 7, 2020 UTC+0 (continued)

08:45–09:30 Demo Session 2B

[Demo] LinggleWrite: a Coaching System for Essay Writing
Chung-Ting Tsai, Jhih-Jie Chen, Ching-Yu Yang and Jason S. Chang

09:00–10:00 Session 7B Ethics and NLP-2

[Long] Demographics Should Not Be the Reason of Toxicity: Mitigating Discrimination in Text Classifications with Instance Weighting
Guanhua Zhang, Bing Bai, Junqi Zhang, Kun Bai, Conghui Zhu and Tiejun Zhao

[Short] Give Me Convenience and Give Her Death: Who Should Decide What Uses of NLP are Appropriate, and on What Basis?
kobi leins, Jey Han Lau and Timothy Baldwin

[Short] Is Your Classifier Actually Biased? Measuring Fairness under Uncertainty with Bernstein Bounds
Kawin Ethayarajh

[Long] Towards Understanding Gender Bias in Relation Extraction
Andrew Gaut, Tony Sun, Shirlyn Tang, Yuxin Huang, Jing Qian, Mai ElSherief, Jieyu Zhao, Diba Mirza, Elizabeth Belding, Kai-Wei Chang and William Yang Wang

09:00–10:00 Session 7B Interpretability and Analysis of Models for NLP-2

[Long] An Analysis of the Utility of Explicit Negative Examples to Improve the Syntactic Abilities of Neural Language Models
Hiroshi Noji and Hiroya Takamura

[Long] Analyzing analytical methods: The case of phonology in neural models of spoken language
Grzegorz Chrupała, Bertrand Higy and Afra Alishahi

[Short] Make Up Your Mind! Adversarial Generation of Inconsistent Natural Language Explanations
Oana-Maria Camburu, Brendan Shillingford, Pasquale Minervini, Thomas Lukasiewicz and Phil Blunsom

[Long] Perturbed Masking: Parameter-free Probing for Analyzing and Interpreting BERT
Zhiyong Wu, Yun Chen, Ben Kao and Qun Liu

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Probing for Referential Information in Language Models

Ionut-Teodor Sorodoc, Kristina Gulordava and Gemma Boleda

[Short] Quantifying Attention Flow in Transformers

Samira Abnar and Willem Zuidema

[Short] Towards Faithfully Interpretable NLP Systems: How Should We Define and Evaluate Faithfulness?

Alon Jacovi and Yoav Goldberg

[Long] Towards Transparent and Explainable Attention Models

Akash Kumar Mohankumar, Preksha Nema, Sharan Narasimhan, Mitesh M. Khapra, Balaji Vasani Srinivasan and Balaraman Ravindran

09:00–10:00 Session 7B Machine Learning for NLP-8

[Short] A Relational Memory-based Embedding Model for Triple Classification and Search Personalization

Dai Quoc Nguyen, Tu Nguyen and Dinh Phung

[Short] Do you have the right scissors? Tailoring Pre-trained Language Models via Monte-Carlo Methods

Ning Miao, Yuxuan Song, Hao Zhou and Lei Li

[Short] Enhancing Pre-trained Chinese Character Representation with Word-aligned Attention

Yanzeng Li, Bowen Yu, Xue Mengge and Tingwen Liu

[Long] Estimating the influence of auxiliary tasks for multi-task learning of sequence tagging tasks

Fynn Schröder and Chris Biemann

[Long] Tchebycheff Procedure for Multi-task Text Classification

Yuren Mao, Shuang Yun, Weiwei Liu and Bo Du

Tuesday, July 7, 2020 UTC+0 (continued)

09:00–10:00 Session 7B Machine Translation-10

[Long] A Graph-based Coarse-to-fine Method for Unsupervised Bilingual Lexicon Induction

Shuo Ren, Shujie Liu, Ming Zhou and Shuai Ma

[Long] A Reinforced Generation of Adversarial Examples for Neural Machine Translation

wei zou, Shujian Huang, Jun Xie, Xinyu Dai and Jiajun CHEN

[Short] A Retrieve-and-Rewrite Initialization Method for Unsupervised Machine Translation

Shuo Ren, Yu Wu, Shujie Liu, Ming Zhou and Shuai Ma

[Short] A Simple and Effective Unified Encoder for Document-Level Machine Translation

Shuming Ma, Dongdong Zhang and Ming Zhou

[Short] Does Multi-Encoder Help? A Case Study on Context-Aware Neural Machine Translation

Bei Li, Hui Liu, Ziyang Wang, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li

[Long] Knowledge Distillation for Multilingual Unsupervised Neural Machine Translation

Haipeng Sun, Rui Wang, Kehai Chen, Masao Utiyama, Eiichiro Sumita and Tiejun Zhao

[Long] Learning to Recover from Multi-Modality Errors for Non-Autoregressive Neural Machine Translation

Qiu Ran, Yankai Lin, Peng Li and Jie Zhou

[Short] Lexically Constrained Neural Machine Translation with Levenshtein Transformer

Raymond Hendy Susanto, Shamil Chollampatt and Liling Tan

[Short] Modeling Word Formation in English–German Neural Machine Translation

Marion Weller-Di Marco and Alexander Fraser

Tuesday, July 7, 2020 UTC+0 (continued)

09:00–10:00 Session 7B NLP Applications-6

[Short] Camouflaged Chinese Spam Content Detection with Semi-supervised Generative Active Learning

Zhuoren Jiang, Zhe Gao, Yu Duan, Yangyang Kang, Changlong Sun, Qiong Zhang and Xiaozhong Liu

[Long] Distinguish Confusing Law Articles for Legal Judgment Prediction

Nuo Xu, Pinghui Wang, Long Chen, Li Pan, Xiaoyan Wang and Junzhou Zhao

[Long] Empowering Active Learning to Jointly Optimize System and User Demands

Ji-Ung Lee, Christian M. Meyer and Iryna Gurevych

[Short] Encoder-Decoder Models Can Benefit from Pre-trained Masked Language Models in Grammatical Error Correction

Masahiro Kaneko, Masato Mita, Shun Kiyono, Jun Suzuki and Kentaro Inui

[Long] Graph Neural News Recommendation with Unsupervised Preference Disentanglement

Linmei Hu, Siyong Xu, Chen Li, Cheng Yang, Chuan Shi, Nan Duan, Xing Xie and Ming Zhou

[Long] HyperCore: Hyperbolic and Co-graph Representation for Automatic ICD Coding

Pengfei Cao, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong

[Long] Hyperbolic Capsule Networks for Multi-Label Classification

Boli Chen, Xin Huang, Lin Xiao and Liping Jing

[Short] Identifying Principals and Accessories in a Complex Case based on the Comprehension of Fact Description

Yakun Hu, Zhunchen Luo and Wenhan Chao

[Long] Improving Segmentation for Technical Support Problems

Kushal Chauhan and Abhirut Gupta

[Long] Joint Modelling of Emotion and Abusive Language Detection

Santhosh Rajamanickam, Pushkar Mishra, Helen Yannakoudakis and Ekaterina Shutova

[Short] MOOCCube: A Large-scale Data Repository for NLP Applications in MOOCs

Jifan Yu, Gan Luo, Tong Xiao, Qingyang Zhong, Yuquan Wang, wenzheng feng, Junyi Luo, Chenyu Wang, Lei Hou, Juanzi Li, Zhiyuan Liu and Jie Tang

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Programming in Natural Language with fuSE: Synthesizing Methods from Spoken Utterances Using Deep Natural Language Understanding

Sebastian Weigelt, Vanessa Steurer, Tobias Hey and Walter F. Tichy

[Long] Towards Interpretable Clinical Diagnosis with Bayesian Network Ensembles Stacked on Entity-Aware CNNs

Jun Chen, Xiaoya Dai, Quan Yuan, Chao Lu and Haifeng Huang

[Long] Toxicity Detection: Does Context Really Matter?

John Pavlopoulos, Jeffrey Sorensen, Lucas Dixon, Nithum Thain and Ion Androutsopoulos

09:00–10:00 Session 7B Semantics: Sentence Level-3

[Long] AMR Parsing with Latent Structural Information

Qiji Zhou, Yue Zhang, Donghong Ji and Hao Tang

[Long] TaPas: Weakly Supervised Table Parsing via Pre-training

Jonathan Herzig, Pawel Krzysztof Nowak, Thomas Müller, Francesco Piccinno and Julian Eisenschlos

09:00–10:00 Session 7B Sentiment Analysis, Stylistic Analysis, and Argument Mining-4

[Short] Embarrassingly Simple Unsupervised Aspect Extraction

Stéphan Tulkens and Andreas van Cranenburgh

[Long] Relation-Aware Collaborative Learning for Unified Aspect-Based Sentiment Analysis

Zhuang Chen and Tiejun Qian

[Long] Syntax-Aware Opinion Role Labeling with Dependency Graph Convolutional Networks

Bo Zhang, Yue Zhang, Rui Wang, Zhenghua Li and Min Zhang

[Long] Target Inference in Argument Conclusion Generation

Milad Alshomary, Shahbaz Syed, Martin Potthast and Henning Wachsmuth

[Long] Transition-based Directed Graph Construction for Emotion-Cause Pair Extraction

Chuang Fan, Chaofa Yuan, Jiachen Du, Lin Gui, Min Yang and Ruifeng Xu

Tuesday, July 7, 2020 UTC+0 (continued)

09:00–10:00 Session 7B Speech and Multimodality-4

[Long] CH-SIMS: A Chinese Multimodal Sentiment Analysis Dataset with Fine-grained Annotation of Modality

Wenmeng Yu, Hua Xu, Fanyang Meng, Yilin Zhu, Yixiao Ma, Jiele Wu, Jiyun Zou and Kaicheng Yang

[Long] Curriculum Pre-training for End-to-End Speech Translation

Chengyi Wang, Yu Wu, Shujie Liu, Ming Zhou and Zhenglu Yang

[Long] Improving Disfluency Detection by Self-Training a Self-Attentive Model

Paria Jamshid Lou and Mark Johnson

[Short] Multimodal Transformer for Multimodal Machine Translation

Shaowei Yao and Xiaojun Wan

[Long] Reasoning with Multimodal Sarcastic Tweets via Modeling Cross-Modality Contrast and Semantic Association

Nan Xu, Zhixiong Zeng and Wenji Mao

[Long] Sentiment and Emotion help Sarcasm? A Multi-task Learning Framework for Multi-Modal Sarcasm, Sentiment and Emotion Analysis

Dushyant Singh Chauhan, Dhanush S R, Asif Ekbal and Pushpak Bhattacharyya

[Long] Towards Emotion-aided Multi-modal Dialogue Act Classification

Tulika Saha, Aditya Patra, Sriparna Saha and Pushpak Bhattacharyya

Tuesday, July 7, 2020 UTC+0 (continued)

09:00–10:00 Session 7B Student Research Workshop

[SRW] Building a Japanese Typo Dataset from Wikipedia's Revision History

Yu Tanaka, Yugo Murawaki, Daisuke Kawahara and Sadao Kurohashi

[SRW] How much complexity does an RNN architecture need to learn syntax-sensitive dependencies?

Gantavya Bhatt, Hritik Bansal, Rishubh Singh and Sumeet Agarwal

[SRW] Unsupervised Multilingual Sentence Embeddings for Parallel Corpus Mining

Ivana Kvpilíková, Mikel Artetxe, Gorka Labaka, Eneko Agirre and Ondřej Bojar

12:00–12:45 Demo Session 3A

[Demo] EVIDENCEMINER: Textual Evidence Discovery for Life Sciences

Xuan Wang, Yingjun Guan, Weili Liu, Aabhas Chauhan, Enyi Jiang, Qi Li, David Liem, Dibakar Sigdel, John Caufield, Peipei Ping and Jiawei Han

[Demo] ConvLab-2: An Open-Source Toolkit for Building, Evaluating, and Diagnosing Dialogue Systems

Qi Zhu, Zheng Zhang, Yan Fang, Xiang Li, Ryuichi Takanobu, Jinchao Li, Baolin Peng, Jianfeng Gao, Xiaoyan Zhu and Minlie Huang

12:00–13:00 Session 8A Computational Social Science and Social Media-6

[Long] Analyzing Political Parody in Social Media

Antonios Maronikolakis, Danae Sánchez Villegas, Daniel Preotiuc-Pietro and Nikolaos Aletras

[Long] Improving Multimodal Named Entity Recognition via Entity Span Detection with Unified Multimodal Transformer

Jianfei Yu, Jing Jiang, Li Yang and Rui Xia

[Short] Masking Actor Information Leads to Fairer Political Claims Detection

Erenay Dayanik and Sebastian Padó

[Short] Neural Temporal Opinion Modelling for Opinion Prediction on Twitter

Lixing Zhu, Yulan He and Deyu Zhou

[Long] When do Word Embeddings Accurately Reflect Surveys on our Beliefs About People?

Kenneth Joseph and Jonathan Morgan

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] “Who said it, and Why?” Provenance for Natural Language Claims

Yi Zhang, Zachary Ives and Dan Roth

[Long] It Takes Two to Lie: One to Lie, and One to Listen

Denis Peskov, Benny Cheng, Ahmed Elgohary, Joe Barrow, Cristian Danescu-Niculescu-Mizil and Jordan Boyd-Graber

12:00–13:00 Session 8A Interpretability and Analysis of Models for NLP-3

[Long] Analyzing analytical methods: The case of phonology in neural models of spoken language

Grzegorz Chrupała, Bertrand Higy and Afra Alishahi

[Long] Compositionality and Generalization In Emergent Languages

Rahma Chaabouni, Eugene Kharitonov, Diane Bouchacourt, Emmanuel Dupoux and Marco Baroni

[Long] ERASER: A Benchmark to Evaluate Rationalized NLP Models

Jay DeYoung, Sarthak Jain, Nazneen Fatema Rajani, Eric Lehman, Caiming Xiong, Richard Socher and Byron C. Wallace

[Long] Learning to Faithfully Rationalize by Construction

Sarthak Jain, Sarah Wiegrefe, Yuval Pinter and Byron C. Wallace

[Short] Make Up Your Mind! Adversarial Generation of Inconsistent Natural Language Explanations

Oana-Maria Camburu, Brendan Shillingford, Pasquale Minervini, Thomas Lukasiewicz and Phil Blunsom

[Long] On the Robustness of Language Encoders against Grammatical Errors

Fan Yin, Quanyu Long, Tao Meng and Kai-Wei Chang

[Long] Probing for Referential Information in Language Models

Ionut-Teodor Sorodoc, Kristina Gulordava and Gemma Boleda

[Long] Roles and Utilization of Attention Heads in Transformer-based Neural Language Models

Jae-young Jo and Sung-Hyon Myaeng

[Long] Towards Transparent and Explainable Attention Models

Akash Kumar Mohankumar, Preksha Nema, Sharan Narasimhan, Mitesh M. Khapra, Balaji Vasan Srinivasan and Balaraman Ravindran

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Understanding Attention for Text Classification

Xiaobing Sun and Wei Lu

12:00–13:00 Session 8A Machine Translation-11

[Short] Dynamically Adjusting Transformer Batch Size by Monitoring Gradient Direction Change

Hongfei Xu, Josef van Genabith, Deyi Xiong and Qihui Liu

[Short] Geometry-aware domain adaptation for unsupervised alignment of word embeddings

Pratik Jawanpuria, Mayank Meghwanshi and Bamdev Mishra

[Short] Modeling Word Formation in English–German Neural Machine Translation

Marion Weller-Di Marco and Alexander Fraser

[Short] On Exposure Bias, Hallucination and Domain Shift in Neural Machine Translation

Chaojun Wang and Rico Sennrich

[Short] Successfully Applying the Stabilized Lottery Ticket Hypothesis to the Transformer Architecture

Christopher Brix, Parnia Bahar and Hermann Ney

12:00–13:00 Session 8A Question Answering-5

[Long] A Self-Training Method for Machine Reading Comprehension with Soft Evidence Extraction

Yilin Niu, Fangkai Jiao, Mantong Zhou, Ting Yao, jingfang xu and Minlie Huang

[TACL] Break It Down: A Question Understanding Benchmark

Tomer Wolfson, Mor Geva, Ankit Gupta, Yoav Goldberg, Matt Gardner, Daniel Deutch, Jonathan Berant

[Long] Clinical Reading Comprehension: A Thorough Analysis of the emrQA Dataset

Xiang Yue, Bernal Jimenez Gutierrez and Huan Sun

[Long] DeFormer: Decomposing Pre-trained Transformers for Faster Question Answering

Qingqing Cao, Harsh Trivedi, Aruna Balasubramanian and Niranjan Balasubramanian

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Graph-to-Tree Learning for Solving Math Word Problems

Jipeng Zhang, Lei Wang, Roy Ka-Wei Lee, Yi Bin, Yan Wang, Jie Shao and Ee-Peng Lim

[Long] Improving Multi-hop Question Answering over Knowledge Graphs using Knowledge Base Embeddings

Apoorv Saxena, Aditay Tripathi and Partha Talukdar

[Short] Template-Based Question Generation from Retrieved Sentences for Improved Unsupervised Question Answering

Alexander Fabbri, Patrick Ng, Zhiguo Wang, Ramesh Nallapati and Bing Xiang

[Long] Unsupervised Alignment-based Iterative Evidence Retrieval for Multi-hop Question Answering

Vikas Yadav, Steven Bethard and Mihai Surdeanu

12:00–13:00 Session 8A Resources and Evaluation-7

[Long] A Corpus for Large-Scale Phonetic Typology

Elizabeth Salesky, Eleanor Chodroff, Tiago Pimentel, Matthew Wiesner, Ryan Cotterell, Alan W Black and Jason Eisner

[Short] Dscorer: A Fast Evaluation Metric for Discourse Representation Structure Parsing

Jiangming Liu, Shay B. Cohen and Mirella Lapata

[Long] MATINF: A Jointly Labeled Large-Scale Dataset for Classification, Question Answering and Summarization

Canwen Xu, Jiaxin Pei, Hongtao Wu, Yiyu Liu and Chenliang Li

[Long] MIND: A Large-scale Dataset for News Recommendation

Fangzhao Wu, Ying Qiao, Jiun-Hung Chen, Chuhan Wu, Tao Qi, Jianxun Lian, Danyang Liu, Xing Xie, Jianfeng Gao, Winnie Wu and Ming Zhou

[Long] ParaCrawl: Web-Scale Acquisition of Parallel Corpora

Marta Bañón, Pinzhen Chen, Barry Haddow, Kenneth Heafield, Hieu Hoang, Miquel Esplà-Gomis, Mikel L. Forcada, Amir Kamran, Faheem Kirefu, Philipp Koehn, Sergio Ortiz Rojas, Leopoldo Pla Sempere, Gema Ramírez-Sánchez, Elsa Sarrías, Marek Strelec, Brian Thompson, William Waites, Dion Wiggins and Jaime Zaragoza

Tuesday, July 7, 2020 UTC+0 (continued)

12:00–13:00 Session 8A Semantics: Lexical-6

[Long] Adaptive Compression of Word Embeddings

Yeachan Kim, Kang-Min Kim and SangKeun Lee

[Long] Analysing Lexical Semantic Change with Contextualised Word Representations

Mario Giulianelli, Marco Del Tredici and Raquel Fernández

[Short] Autoencoding Keyword Correlation Graph for Document Clustering

Billy Chiu, Sunil Kumar Sahu, Derek Thomas, Neha Sengupta and Mohammady Mahdy

[Long] Autoencoding Pixies: Amortised Variational Inference with Graph Convolutions for Functional Distributional Semantics

Guy Emerson

[Long] BERTRAM: Improved Word Embeddings Have Big Impact on Contextualized Model Performance

Timo Schick and Hinrich Schütze

[Long] CluBERT: A Cluster-Based Approach for Learning Sense Distributions in Multiple Languages

Tommaso Pasini, Federico Scozzafava and Bianca Scarlini

[Short] Hypernymy Detection for Low-Resource Languages via Meta Learning

Changlong Yu, Jialong Han, Haisong Zhang and Wilfred Ng

[Long] Investigating Word-Class Distributions in Word Vector Spaces

Ryohei Sasano and Anna Korhonen

Tuesday, July 7, 2020 UTC+0 (continued)

12:00–13:00 Session 8A Semantics: Sentence Level-4

[Long] AMR Parsing with Latent Structural Information

Qiji Zhou, Yue Zhang, Donghong Ji and Hao Tang

[Long] TaPas: Weakly Supervised Table Parsing via Pre-training

Jonathan Herzig, Pawel Krzysztof Nowak, Thomas Müller, Francesco Piccinno and Julian Eisenschlos

12:00–13:00 Session 8A Sentiment Analysis, Stylistic Analysis, and Argument Mining-5

[Long] Adversarial and Domain-Aware BERT for Cross-Domain Sentiment Analysis

Chunning Du, Haifeng Sun, Jingyu Wang, Qi Qi and Jianxin Liao

[Short] Don't Eclipse Your Arts Due to Small Discrepancies: Boundary Repositioning with a Pointer Network for Aspect Extraction

Zhenkai Wei, Yu Hong, Bowei Zou, Meng Cheng and Jianmin YAO

[Long] Relational Graph Attention Network for Aspect-based Sentiment Analysis

Kai Wang, Weizhou Shen, Yunyi Yang, Xiaojun Quan and Rui Wang

[Long] SentiBERT: A Transferable Transformer-Based Architecture for Compositional Sentiment Semantics

Da Yin, Tao Meng and Kai-Wei Chang

[Long] Target Inference in Argument Conclusion Generation

Milad Alshomary, Shahbaz Syed, Martin Potthast and Henning Wachsmuth

Tuesday, July 7, 2020 UTC+0 (continued)

12:00–13:00 Session 8A Syntax: Tagging, Chunking and Parsing-3

[Long] A Span-based Linearization for Constituent Trees

Yang Wei, Yuanbin Wu and Man Lan

[CL] Abstract Syntax as Interlingua: Scaling Up the Grammatical Framework from Controlled Languages to Robust Pipelines

Aarne Ranta, Krasimir Angelov, Normunds Gruzitis, Prasanth Kolachina

[Long] Do Neural Language Models Show Preferences for Syntactic Formalisms?

Artur Kulmizev, Vinit Ravishankar, Mostafa Abdou and Joakim Nivre

[Short] Enriched In-Order Linearization for Faster Sequence-to-Sequence Constituent Parsing

Daniel Fernández-González and Carlos Gómez-Rodríguez

[Long] Exact yet Efficient Graph Parsing, Bi-directional Locality and the Constructivist Hypothesis

Yajie Ye and Weiwei Sun

[Long] Max-Margin Incremental CCG Parsing

Miloš Stanojević and Mark Steedman

[Long] Neural Reranking for Dependency Parsing: An Evaluation

Bich-Ngoc Do and Ines Rehbein

Tuesday, July 7, 2020 UTC+0 (continued)

12:00–13:00 Session 8A Student Research Workshop

[SRW] How much complexity does an RNN architecture need to learn syntax-sensitive dependencies?

Gantavya Bhatt, Hritik Bansal, Rishubh Singh and Sumeet Agarwal

[SRW] Logical Inferences with Comparatives and Generalized Quantifiers

Izumi Haruta, Koji Mineshima and Daisuke Bekki

[SRW] Unsupervised Multilingual Sentence Embeddings for Parallel Corpus Mining

Ivana Kvapilíková, Mikel Artetxe, Gorka Labaka, Eneko Agirre and Ondřej Bojar

[SRW] Enhancing Word Embeddings with Knowledge Extracted from Lexical Resources

Magdalena Biesialska, Bardia Rafeian and Marta R. Costa-jussà

12:45–13:30 Demo Session 3B

[Demo] CLIReval: Evaluating Machine Translation as a Cross-Lingual Information Retrieval Task

Shuo Sun, Suzanna Sia and Kevin Duh

[Demo] Label Noise in Context

Michael Desmond, Catherine Finegan-Dollak, Jeff Boston and Matt Arnold

13:00–14:00 Session 8B Ethics and NLP-3

[Long] Demographics Should Not Be the Reason of Toxicity: Mitigating Discrimination in Text Classifications with Instance Weighting

Guanhua Zhang, Bing Bai, Junqi Zhang, Kun Bai, Conghui Zhu and Tiejun Zhao

[Long] It's Morphin' Time! Combating Linguistic Discrimination with Inflectional Perturbations

Samson Tan, Shafiq Joty, Min-Yen Kan and Richard Socher

[Long] Toward Gender-Inclusive Coreference Resolution

Yang Trista Cao and Hal Daumé III

Tuesday, July 7, 2020 UTC+0 (continued)

13:00–14:00 Session 8B Generation-10

[Short] Learning Implicit Text Generation via Feature Matching

Inkit Padhi, Pierre Dognin, Ke Bai, Cícero Nogueira dos Santos, Vijil Chenthamarakshan, Youssef Mroueh and Payel Das

[Short] Two Birds, One Stone: A Simple, Unified Model for Text Generation from Structured and Unstructured Data

Hamidreza Shahidi, Ming Li and Jimmy Lin

13:00–14:00 Session 8B Interpretability and Analysis of Models for NLP-4

[TACL] Does Syntax Need to Grow on Trees? Sources of Hierarchical Inductive Bias in Sequence-to-Sequence Networks

R. Thomas McCoy, Robert Frank, Tal Linzen

[Long] Human Attention Maps for Text Classification: Do Humans and Neural Networks Focus on the Same Words?

Cansu Sen, Thomas Hartvigsen, Biao Yin, Xiangnan Kong and Elke Rundensteiner

[Long] Information-Theoretic Probing for Linguistic Structure

Tiago Pimentel, Josef Valvoda, Rowan Hall Maudslay, Ran Zmigrod, Adina Williams and Ryan Cotterell

[TACL] Membership Inference Attacks on Sequence-to-Sequence Models: Is My Data In Your Machine Translation System?

Sorami Hisamoto, Matt Post, Kevin Duh

[Long] On the Cross-lingual Transferability of Monolingual Representations

Mikel Artetxe, Sebastian Ruder and Dani Yogatama

[Long] Perturbed Masking: Parameter-free Probing for Analyzing and Interpreting BERT

Zhiyong Wu, Yun Chen, Ben Kao and Qun Liu

[Short] Quantifying Attention Flow in Transformers

Samira Abnar and Willem Zuidema

[Long] Similarity Analysis of Contextual Word Representation Models

John Wu, Yonatan Belinkov, Hassan Sajjad, Nadir Durrani, Fahim Dalvi and James Glass

Tuesday, July 7, 2020 UTC+0 (continued)

[TACL] Tabula nearly rasa: Probing the linguistic knowledge of character-level neural language models trained on unsegmented text

Michael Hahn, Marco Baroni

[Short] Towards Faithfully Interpretable NLP Systems: How Should We Define and Evaluate Faithfulness?

Alon Jacovi and Yoav Goldberg

[TACL] What BERT Is Not: Lessons from a New Suite of Psycholinguistic Diagnostics for Language Models

Allyson Ettinger

13:00–14:00 Session 8B Machine Learning for NLP-9

[Long] Attentive Pooling with Learnable Norms for Text Representation

Chuhan Wu, Fangzhao Wu, Tao Qi, Xiaohui Cui and Yongfeng Huang

[Short] Bayesian Hierarchical Words Representation Learning

Oren Barkan, Idan Rejwan, Avi Caciularu and Noam Koenigstein

[Long] On the Encoder-Decoder Incompatibility in Variational Text Modeling and Beyond

Chen Wu, Prince Zizhuang Wang and William Yang Wang

[Long] Pre-training Is (Almost) All You Need: An Application to Commonsense Reasoning

Alexandre Tamborrino, Nicola Pellicanò, Baptiste Pannier, Pascal Voitot and Louise Naudin

[Long] SEEK: Segmented Embedding of Knowledge Graphs

Wentao Xu, Shun Zheng, Liang He, Bin Shao, Jian Yin and Tie-Yan Liu

[Long] SenseBERT: Driving Some Sense into BERT

Yoav Levine, Barak Lenz, Or Dagan, Ori Ram, Dan Padnos, Or Sharir, Shai Shalev-Shwartz, Amnon Shashua and Yoav Shoham

[Short] Single Model Ensemble using Pseudo-Tags and Distinct Vectors

Ryosuke Kuwabara, Jun Suzuki and Hideki Nakayama

[Long] Tchebycheff Procedure for Multi-task Text Classification

Yuren Mao, Shuang Yun, Weiwei Liu and Bo Du

Tuesday, July 7, 2020 UTC+0 (continued)

13:00–14:00 Session 8B Machine Translation-12

[Short] A Relaxed Matching Procedure for Unsupervised BLI

Xu Zhao, Zihao Wang, Yong Zhang and Hao Wu

[CL] A Systematic Study of Inner-Attention-Based Sentence Representations in Multilingual Neural Machine Translation

Raúl Vázquez, Alessandro Raganato, Mathias Creutz, Jörg Tiedemann

[TACL] Better Document-level Machine Translation with Bayes' Rule

Lei Yu, Laurent Sartran, Wojciech Stokowiec, Wang Ling, Lingpeng Kong, Phil Blunsom, Chris Dyer

[Long] Selecting Backtranslated Data from Multiple Sources for Improved Neural Machine Translation

Xabier Soto, Dimitar Shterionov, Alberto Poncelas and Andy Way

[CL] Unsupervised Word Translation with Adversarial Autoencoder

Tasnim Mohiuddin, Shafiq Joty

13:00–14:00 Session 8B NLP Applications-7

[Long] Empowering Active Learning to Jointly Optimize System and User Demands

Ji-Ung Lee, Christian M. Meyer and Iryna Gurevych

[Short] Encoder-Decoder Models Can Benefit from Pre-trained Masked Language Models in Grammatical Error Correction

Masahiro Kaneko, Masato Mita, Shun Kiyono, Jun Suzuki and Kentaro Inui

[Long] Graph Neural News Recommendation with Unsupervised Preference Disentanglement

Linmei Hu, Siyong Xu, Chen Li, Cheng Yang, Chuan Shi, Nan Duan, Xing Xie and Ming Zhou

[Long] Hiring Now: A Skill-Aware Multi-Attention Model for Job Posting Generation

Liting Liu, Jie Liu, Wenzheng Zhang, Ziming Chi, Wenxuan Shi and Yalou Huang

[Short] Identifying Principals and Accessories in a Complex Case based on the Comprehension of Fact Description

Yakun Hu, Zhunchen Luo and Wenhan Chao

[Long] Joint Modelling of Emotion and Abusive Language Detection

Santhosh Rajamanickam, Pushkar Mishra, Helen Yannakoudakis and Ekaterina Shutova

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Programming in Natural Language with fuSE: Synthesizing Methods from Spoken Utterances Using Deep Natural Language Understanding

Sebastian Weigelt, Vanessa Steurer, Tobias Hey and Walter F. Tichy

[Long] Toxicity Detection: Does Context Really Matter?

John Pavlopoulos, Jeffrey Sorensen, Lucas Dixon, Nithum Thain and Ion Androutsopoulos

13:00–14:00 Session 8B Resources and Evaluation-8

[Long] ASSET: A Dataset for Tuning and Evaluation of Sentence Simplification Models with Multiple Rewriting Transformations

Fernando Alva-Manchego, Louis Martin, Antoine Bordes, Carolina Scarton, Benoît Sagot and Lucia Specia

[Short] Automatic Machine Translation Evaluation using Source Language Inputs and Cross-lingual Language Model

Kosuke Takahashi, Katsuhito Sudoh and Satoshi Nakamura

[Short] Fatality Killed the Cat or: BabelPic, a Multimodal Dataset for Non-Concrete Concepts

Agostina Calabrese, Michele Bevilacqua and Roberto Navigli

[TACL] Paraphrase-Sense-Tagged Sentences

Anne Cocos, Chris Callison-Burch

[Long] That is a Known Lie: Detecting Previously Fact-Checked Claims

Shaden Shaar, Nikolay Babulkov, Giovanni Da San Martino and Preslav Nakov

Tuesday, July 7, 2020 UTC+0 (continued)

13:00–14:00 Session 8B Sentiment Analysis, Stylistic Analysis, and Argument Mining-6

[Long] Aspect Sentiment Classification with Document-level Sentiment Preference Modeling

Xiao Chen, Changlong Sun, Jingjing Wang, Shoushan Li, Luo Si, Min Zhang and Guodong Zhou

[Long] ECPE-2D: Emotion-Cause Pair Extraction based on Joint Two-Dimensional Representation, Interaction and Prediction

Zixiang Ding, Rui Xia and Jianfei Yu

[Long] From Arguments to Key Points: Towards Automatic Argument Summarization

Roy Bar-Haim, Lilach Eden, Roni Friedman, Yoav Kantor, Dan Lahav and Noam Slonim

[Long] He said "who's gonna take care of your children when you are at ACL?": Reported Sexist Acts are Not Sexist

Patricia Chiril, Véronique MORICEAU, Farah Benamara, Alda Mari, Gloria Origgi and Marlène Coulomb-Gully

[Short] Modeling Label Semantics for Predicting Emotional Reactions

Radhika Gaonkar, Heeyoung Kwon, Mohaddeseh Bastan, Niranjana Balasubramanian and Nathanael Chambers

[Long] SKEP: Sentiment Knowledge Enhanced Pre-training for Sentiment Analysis

Hao Tian, Can Gao, Xinyan Xiao, Hao Liu, Bolei He, Hua Wu, Haifeng Wang and feng wu

13:00–14:00 Session 8B Speech and Multimodality-5

[Long] How Accents Confound: Probing for Accent Information in End-to-End Speech Recognition Systems

Archiki Prasad and Preethi Jyothi

[Short] Learning Spoken Language Representations with Neural Lattice Language Modeling

Chao-Wei Huang and Yun-Nung Chen

[Short] Meta-Transfer Learning for Code-Switched Speech Recognition

Genta Indra Winata, Samuel Cahyawijaya, Zhaojiang Lin, Zihan Liu, Peng Xu and Pascale Fung

[Short] Multimodal Transformer for Multimodal Machine Translation

Shaowei Yao and Xiaojun Wan

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Sentiment and Emotion help Sarcasm? A Multi-task Learning Framework for Multi-Modal Sarcasm, Sentiment and Emotion Analysis

Dushyant Singh Chauhan, Dhanush S R, Asif Ekbal and Pushpak Bhattacharyya

[Long] SimulSpeech: End-to-End Simultaneous Speech to Text Translation

Yi Ren, Jinglin Liu, Xu Tan, Chen Zhang, Tao QIN, Zhou Zhao and Tie-Yan Liu

[Long] Towards Emotion-aided Multi-modal Dialogue Act Classification

Tulika Saha, Aditya Patra, Sriparna Saha and Pushpak Bhattacharyya

13:00–14:00 Session 8B Student Research Workshop

[SRW] Pre-training via Leveraging Assisting Languages for Neural Machine Translation

Haiyue Song, Raj Dabre, Zhuoyuan Mao, Fei Cheng, Sadao Kurohashi and Eiichiro Sumita

[SRW] Preventing Critical Scoring Errors in Short Answer Scoring with Confidence Estimation

Hiroaki Funayama, Shota Sasaki, Yuichiroh Matsubayashi, Tomoya Mizumoto, Jun Suzuki, Masato Mita and Kentaro Inui

13:30–14:15 Demo Session 3C

[Demo] exBERT: A Visual Analysis Tool to Explore Learned Representations in Transformer Models

Benjamin Hoover, Hendrik Strobelt and Sebastian Gehrmann

14:00–16:00 Plenary

14:00–14:30 *Lifetime Achievement Award Video Livestream*

14:30–14:45 *Lifetime Achievement Award Live Q&A*

14:45–15:15 *Distinguished Service Award, Test-of-Time Award Video and Q&A*

15:15–16:00 *Reviewing Meeting Q&A*

Tuesday, July 7, 2020 UTC+0 (continued)

17:00–17:45 Demo Session 4A

[Demo] Nakdan: Professional Hebrew Diacritizer

Avi Shmidman, Shaltiel Shmidman, Moshe Koppel and Yoav Goldberg

[Demo] Photon: A Robust Cross-Domain Text-to-SQL System

Jichuan Zeng, Xi Victoria Lin, Steven C.H. Hoi, Richard Socher, Caiming Xiong, Michael Lyu and Irwin King

[Demo] OpusFilter: A Configurable Parallel Corpus Filtering Toolbox

Mikko Aulamo, Sami Virpioja and Jörg Tiedemann

17:00–18:00 Session 9A Dialogue and Interactive Systems-11

[Long] CraftAssist Instruction Parsing: Semantic Parsing for a Voxel-World Assistant

Kavya Srinet, Yacine Jernite, Jonathan Gray and arthur szlam

[Long] Don't Say That! Making Inconsistent Dialogue Unlikely with Unlikelihood Training

Margaret Li, Stephen Roller, Ilya Kulikov, Sean Welleck, Y-Lan Boureau, Kyunghyun Cho and Jason Weston

17:00–18:00 Session 9A Interpretability and Analysis of Models for NLP-5

[Long] Compositionality and Generalization In Emergent Languages

Rahma Chaabouni, Eugene Kharitonov, Diane Bouchacourt, Emmanuel Dupoux and Marco Baroni

[Long] How does BERT's attention change when you fine-tune? An analysis methodology and a case study in negation scope

Yiyun Zhao and Steven Bethard

[Long] Human Attention Maps for Text Classification: Do Humans and Neural Networks Focus on the Same Words?

Cansu Sen, Thomas Hartvigsen, Biao Yin, Xiangnan Kong and Elke Rundensteiner

[Long] Influence Paths for Characterizing Subject-Verb Number Agreement in LSTM Language Models

Kaiji Lu, Piotr Mardziel, Klas Leino, Matt Fredrikson and Anupam Datta

[Long] Information-Theoretic Probing for Linguistic Structure

Tiago Pimentel, Josef Valvoda, Rowan Hall Maudslay, Ran Zmigrod, Adina Williams and Ryan Cotterell

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Interpreting Pretrained Contextualized Representations via Reductions to Static Embeddings

Rishi Bommasani, Kelly Davis and Claire Cardie

[Long] Learning to Deceive with Attention-Based Explanations

Danish Pruthi, Mansi Gupta, Bhuwan Dhingra, Graham Neubig and Zachary C. Lipton

[Short] On the Spontaneous Emergence of Discrete and Compositional Signals

Nur Geffen Lan, Emmanuel Chemla and Shane Steinert-Threlkeld

[Long] Similarity Analysis of Contextual Word Representation Models

John Wu, Yonatan Belinkov, Hassan Sajjad, Nadir Durrani, Fahim Dalvi and James Glass

[Long] Spying on Your Neighbors: Fine-grained Probing of Contextual Embeddings for Information about Surrounding Words

Josef Klafka and Allyson Ettinger

17:00–18:00 Session 9A Language Grounding to Vision, Robotics and Beyond-3

[Long] Dense-Caption Matching and Frame-Selection Gating for Temporal Localization in VideoQA

Hyounghun Kim, Zineng Tang and Mohit Bansal

[Short] Shaping Visual Representations with Language for Few-Shot Classification

Jesse Mu, Percy Liang and Noah Goodman

Tuesday, July 7, 2020 UTC+0 (continued)

17:00–18:00 Session 9A Machine Learning for NLP-10

[Short] A Probabilistic Generative Model for Typographical Analysis of Early Modern Printing

Kartik Goyal, Chris Dyer, Christopher Warren, Maxwell G'Sell and Taylor Berg-Kirkpatrick

[Long] Discrete Latent Variable Representations for Low-Resource Text Classification

Shuning Jin, Sam Wiseman, Karl Stratos and Karen Livescu

[Long] Learning Constraints for Structured Prediction Using Rectifier Networks

Xingyuan Pan, Maitrey Mehta and Vivek Srikumar

[Long] Pretraining with Contrastive Sentence Objectives Improves Discourse Performance of Language Models

Dan Iter, Kelvin Guu, Larry Lansing and Dan Jurafsky

[Long] SenseBERT: Driving Some Sense into BERT

Yoav Levine, Barak Lenz, Or Dagan, Ori Ram, Dan Padnos, Or Sharir, Shai Shalev-Shwartz, Amnon Shashua and Yoav Shoham

[ACL] SpanBERT: Improving Pre-training by Representing and Predicting Spans

Mandar Joshi, Danqi Chen, Yinhan Liu, Daniel S. Weld, Luke Zettlemoyer, Omer Levy

17:00–18:00 Session 9A Resources and Evaluation-9

[Long] A Recipe for Creating Multimodal Aligned Datasets for Sequential Tasks

Angela Lin, Sudha Rao, Asli Celikyilmaz, Elnaz Nouri, Chris Brockett, Debadepta Dey and Bill Dolan

[Long] ASSET: A Dataset for Tuning and Evaluation of Sentence Simplification Models with Multiple Rewriting Transformations

Fernando Alva-Manchego, Louis Martin, Antoine Bordes, Carolina Scarton, Benoît Sagot and Lucia Specia

[Long] Adversarial NLI: A New Benchmark for Natural Language Understanding

Yixin Nie, Adina Williams, Emily Dinan, Mohit Bansal, Jason Weston and Douwe Kiela

[Long] Beyond Accuracy: Behavioral Testing of NLP Models with CheckList

Marco Tulio Ribeiro, Tongshuang Wu, Carlos Guestrin and Sameer Singh

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] ChartDialogs: Plotting from Natural Language Instructions

Yutong Shao and Ndapa Nakashole

[Long] Code and Named Entity Recognition in StackOverflow

Jeniya Tabassum, Mounica Maddela, Wei Xu and Alan Ritter

[Long] Dialogue-Based Relation Extraction

Dian Yu, Kai Sun, Claire Cardie and Dong Yu

[Long] Facet-Aware Evaluation for Extractive Summarization

Yuning Mao, Liyuan Liu, Qi Zhu, Xiang Ren and Jiawei Han

[Short] Fatality Killed the Cat or: BabelPic, a Multimodal Dataset for Non-Concrete Concepts

Agostina Calabrese, Michele Bevilacqua and Roberto Navigli

[CL] LINSPECTOR: Multilingual Probing Tasks for Word Representations

Gözde Gül Sahin, Clara Vania, Ilia Kuznetsov, Iryna Gurevych

[Long] More Diverse Dialogue Datasets via Diversity-Informed Data Collection

Katherine Stasaski, Grace Hui Yang and Marti A. Hearst

[Long] ParaCrawl: Web-Scale Acquisition of Parallel Corpora

Marta Bañón, Pinzhen Chen, Barry Haddow, Kenneth Heafield, Hieu Hoang, Miquel Esplà-Gomis, Mikel L. Forcada, Amir Kamran, Faheem Kirefu, Philipp Koehn, Sergio Ortiz Rojas, Leopoldo Pla Sempere, Gema Ramírez-Sánchez, Elsa Sarrías, Marek Strelec, Brian Thompson, William Waites, Dion Wiggins and Jaume Zaragoza

[Long] S2ORC: The Semantic Scholar Open Research Corpus

Kyle Lo, Lucy Lu Wang, Mark Neumann, Rodney Kinney and Daniel Weld

[Long] Tangled up in BLEU: Reevaluating the Evaluation of Automatic Machine Translation Evaluation Metrics

Nitika Mathur, Timothy Baldwin and Trevor Cohn

Tuesday, July 7, 2020 UTC+0 (continued)

17:00–18:00 Session 9A Summarization-4

[Short] A Transformer-based Approach for Source Code Summarization

Wasi Ahmad, Saikat Chakraborty, Baishakhi Ray and Kai-Wei Chang

[Long] Asking and Answering Questions to Evaluate the Factual Consistency of Summaries

Alex Wang, Kyunghyun Cho and Mike Lewis

[Long] Discourse-Aware Neural Extractive Text Summarization

Jiacheng Xu, Zhe Gan, Yu Cheng and Jingjing Liu

[Long] Discrete Optimization for Unsupervised Sentence Summarization with Word-Level Extraction

Raphael Schumann, Lili Mou, Yao Lu, Olga Vechtomova and Katja Markert

[Short] Exploring Content Selection in Summarization of Novel Chapters

Faisal Ladhak, Bryan Li, Yaser Al-Onaizan and Kathleen McKeown

[Long] FEQA: A Question Answering Evaluation Framework for Faithfulness Assessment in Abstractive Summarization

Esin Durmus, He He and Mona Diab

[Short] Fact-based Content Weighting for Evaluating Abstractive Summarisation

Xinnuo Xu, Ondřej Dušek, Jingyi Li, Verena Rieser and Ioannis Konstas

[Long] Hooks in the Headline: Learning to Generate Headlines with Controlled Styles

Di Jin, Zhijing Jin, Joey Tianyi Zhou, Lisa Orri and Peter Szolovits

[Long] Knowledge Graph-Augmented Abstractive Summarization with Semantic-Driven Cloze Reward

Luyang Huang, Lingfei Wu and Lu Wang

[Long] Optimizing the Factual Correctness of a Summary: A Study of Summarizing Radiology Reports

Yuhao Zhang, Derek Merck, Emily Tsai, Christopher D. Manning and Curtis Langlotz

[Long] Storytelling with Dialogue: A Critical Role Dungeons and Dragons Dataset

Revanth Rameshkumar and Peter Bailey

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] The Summary Loop: Learning to Write Abstractive Summaries Without Examples

Philippe Laban, Andrew Hsi, John Canny and Marti A. Hearst

[Long] Unsupervised Opinion Summarization as Copycat-Review Generation

Arthur Bražinskas, Mirella Lapata and Ivan Titov

17:00–18:00 Session 9A Theme-1

[Long] (Re)construing Meaning in NLP

Sean Trott, Tiago Timponi Torrent, Nancy Chang and Nathan Schneider

[Long] Climbing towards NLU: On Meaning, Form, and Understanding in the Age of Data

Emily M. Bender and Alexander Koller

[Long] Examining Citations of Natural Language Processing Literature

Saif M. Mohammad

[Short] How Can We Accelerate Progress Towards Human-like Linguistic Generalization?

Tal Linzen

[Long] How Does NLP Benefit Legal System: A Summary of Legal Artificial Intelligence

Haoxi Zhong, Chaojun Xiao, Cunchao Tu, Tianyang Zhang, Zhiyuan Liu and Maosong Sun

[Long] Intermediate-Task Transfer Learning with Pretrained Language Models: When and Why Does It Work?

Yada Pruksachatkun, Jason Phang, Haokun Liu, Phu Mon Htut, Xiaoyi Zhang, Richard Yuanzhe Pang, Clara Vania, Katharina Kann and Samuel R. Bowman

[Long] Predictive Biases in Natural Language Processing Models: A Conceptual Framework and Overview

Deven Santosh Shah, H. Andrew Schwartz and Dirk Hovy

[Short] What Does BERT with Vision Look At?

Liunian Harold Li, Mark Yatskar, Da Yin, Cho-Jui Hsieh and Kai-Wei Chang

Tuesday, July 7, 2020 UTC+0 (continued)

17:00–18:00 Session 9A Student Research Workshop

[SRW] Checkpoint Reranking: An Approach to Select Better Hypothesis for Neural Machine Translation Systems

Vinay Pandramish and Dipti Misra Sharma

[SRW] Cross-Lingual Disaster-related Multi-label Tweet Classification with Manifold Mixup

Jishnu Ray Chowdhury, Cornelia Caragea and Doina Caragea

[SRW] Inducing Grammar from Long Short-Term Memory Networks by Shapley Decomposition

Yuhui Zhang and Allen Nie

[SRW] Exploring the Role of Context to Distinguish Rhetorical and Information-Seeking Questions

Yuan Zhuang and Ellen Riloff

17:45–18:30 Demo Session 4B

[Demo] BENTO: A Visual Platform for Building Clinical NLP Pipelines Based on CodaLab

Yonghao Jin, Fei Li and Hong Yu

[Demo] Interactive Task Learning from GUI-Grounded Natural Language Instructions and Demonstrations

Toby Jia-Jun Li, Tom Mitchell and Brad Myers

[Demo] MixingBoard: a Knowledgeable Stylized Integrated Text Generation Platform

Xiang Gao, Michel Galley and Bill Dolan

Tuesday, July 7, 2020 UTC+0 (continued)

18:00–19:00 Session 9B Computational Social Science and Social Media-7

[Long] Analyzing Political Parody in Social Media

Antonios Maronikolakis, Danae Sánchez Villegas, Daniel Preotiuc-Pietro and Nikolaos Aletras

[Long] Balancing Objectives in Counseling Conversations: Advancing Forwards or Looking Backwards

Justine Zhang and Cristian Danescu-Niculescu-Mizil

[Long] Detecting Perceived Emotions in Hurricane Disasters

Shrey Desai, Cornelia Caragea and Junyi Jessy Li

[Long] Hierarchical Modeling for User Personality Prediction: The Role of Message-Level Attention

Veronica Lynn, Niranjan Balasubramanian and H. Andrew Schwartz

[Long] Measuring Forecasting Skill from Text

Shi Zong, Alan Ritter and Eduard Hovy

[Long] Text and Causal Inference: A Review of Using Text to Remove Confounding from Causal Estimates

Katherine Keith, David Jensen and Brendan O'Connor

[Long] Text-Based Ideal Points

Keyon Vafa, Suresh Naidu and David Blei

[Long] Understanding the Language of Political Agreement and Disagreement in Legislative Texts

Maryam Davoodi, Eric Waltenburg and Dan Goldwasser

[Short] Would you Rather? A New Benchmark for Learning Machine Alignment with Cultural Values and Social Preferences

Yi Tay, Donovan Ong, Jie Fu, Alvin Chan, Nancy Chen, Anh Tuan Luu and Chris Pal

Tuesday, July 7, 2020 UTC+0 (continued)

18:00–19:00 Session 9B Discourse and Pragmatics-4

[Long] Discourse as a Function of Event: Profiling Discourse Structure in News Articles around the Main Event

Prafulla Kumar Choubey, Aaron Lee, Ruihong Huang and Lu Wang

[Long] Harnessing the linguistic signal to predict scalar inferences

Sebastian Schuster, Yuxing Chen and Judith Degen

[Short] Implicit Discourse Relation Classification: We Need to Talk about Evaluation

Najoung Kim, Song Feng, Chulaka Gunasekara and Luis Lastras

[Long] PeTra: A Sparsely Supervised Memory Model for People Tracking

Shubham Toshniwal, Allyson Ettinger, Kevin Gimpel and Karen Livescu

[Short] ZPR2: Joint Zero Pronoun Recovery and Resolution using Multi-Task Learning and BERT

Linfeng Song, Kun Xu, Yue Zhang, Jianshu Chen and Dong Yu

18:00–19:00 Session 9B Ethics and NLP-4

[Short] Contextualizing Hate Speech Classifiers with Post-hoc Explanation

Brendan Kennedy, Xisen Jin, Aida Mostafazadeh Davani, Morteza Dehghani and Xiang Ren

[Long] Double-Hard Debias: Tailoring Word Embeddings for Gender Bias Mitigation

Tianlu Wang, Xi Victoria Lin, Nazneen Fatema Rajani, Bryan McCann, Vicente Ordonez and Caiming Xiong

[Long] Language (Technology) is Power: A Critical Survey of "Bias" in NLP

Su Lin Blodgett, Solon Barocas, Hal Daumé III and Hanna Wallach

[Long] Social Bias Frames: Reasoning about Social and Power Implications of Language

Maarten Sap, Saadia Gabriel, Lianhui Qin, Dan Jurafsky, Noah A. Smith and Yejin Choi

[Short] Social Biases in NLP Models as Barriers for Persons with Disabilities

Ben Hutchinson, Vinodkumar Prabhakaran, Emily Denton, Kellie Webster, Yu Zhong and Stephen Denuyl

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Towards Debiasing Sentence Representations

Paul Pu Liang, Irene Mengze Li, Emily Zheng, Yao Chong Lim, Ruslan Salakhutdinov and Louis-Philippe Morency

18:00–19:00 Session 9B Interpretability and Analysis of Models for NLP-6

[Short] A Re-evaluation of Knowledge Graph Completion Methods

Zhiqing Sun, Shikhar Vashishth, Soumya Sanyal, Partha Talukdar and Yiming Yang

[Long] Cross-Linguistic Syntactic Evaluation of Word Prediction Models

Aaron Mueller, Garrett Nicolai, Panayiota Petrou-Zeniou, Natalia Talmina and Tal Linzen

[TACL] Does Syntax Need to Grow on Trees? Sources of Hierarchical Inductive Bias in Sequence-to-Sequence Networks

R. Thomas McCoy, Robert Frank, Tal Linzen

[Long] Evaluating Explainable AI: Which Algorithmic Explanations Help Users Predict Model Behavior?

Peter Hase and Mohit Bansal

[Long] Explaining Black Box Predictions and Unveiling Data Artifacts through Influence Functions

Xiaochuang Han, Byron C. Wallace and Yulia Tsvetkov

[Long] Finding Universal Grammatical Relations in Multilingual BERT

Ethan A. Chi, John Hewitt and Christopher D. Manning

[Long] Generating Hierarchical Explanations on Text Classification via Feature Interaction Detection

Hanjie Chen, Guangtao Zheng and Yangfeng Ji

[Long] Obtaining Faithful Interpretations from Compositional Neural Networks

Sanjay Subramanian, Ben Bogin, Nitish Gupta, Tomer Wolfson, Sameer Singh, Jonathan Berant and Matt Gardner

[Long] On the Cross-lingual Transferability of Monolingual Representations

Mikel Artetxe, Sebastian Ruder and Dani Yogatama

[Long] Rationalizing Text Matching: Learning Sparse Alignments via Optimal Transport

Kyle Swanson, Lili Yu and Tao Lei

Tuesday, July 7, 2020 UTC+0 (continued)

18:00–19:00 Session 9B Question Answering-6

[Short] Benefits of Intermediate Annotations in Reading Comprehension

Dheeru Dua, Sameer Singh and Matt Gardner

[TACL] Break It Down: A Question Understanding Benchmark

Tomer Wolfson, Mor Geva, Ankit Gupta, Yoav Goldberg, Matt Gardner, Daniel Deutch, Jonathan Berant

[Short] Crossing Variational Autoencoders for Answer Retrieval

Wenhao Yu, Lingfei Wu, Qingkai Zeng, Shu Tao, Yu Deng and Meng Jiang

[Long] Improving Multi-hop Question Answering over Knowledge Graphs using Knowledge Base Embeddings

Apoorv Saxena, Aditay Tripathi and Partha Talukdar

[TACL] Investigating Prior Knowledge for Challenging Chinese Machine Reading Comprehension

Kai Sun, Dian Yu, Dong Yu, Claire Cardie

[Short] Logic-Guided Data Augmentation and Regularization for Consistent Question Answering

Akari Asai and Hannaneh Hajishirzi

[Short] On the Importance of Diversity in Question Generation for QA

Md Arafat Sultan, Shubham Chandel, Ramón Fernandez Astudillo and Vittorio Castelli

[Long] Probabilistic Assumptions Matter: Improved Models for Distantly-Supervised Document-Level Question Answering

Hao Cheng, Ming-Wei Chang, Kenton Lee and Kristina Toutanova

[Long] SCDE: Sentence Cloze Dataset with High Quality Distractors From Examinations

Xiang Kong, Varun Gangal and Eduard Hovy

[Long] Selective Question Answering under Domain Shift

Amita Kamath, Robin Jia and Percy Liang

[Short] Template-Based Question Generation from Retrieved Sentences for Improved Unsupervised Question Answering

Alexander Fabbri, Patrick Ng, Zhiguo Wang, Ramesh Nallapati and Bing Xiang

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] The Cascade Transformer: an Application for Efficient Answer Sentence Selection

Luca Soldaini and Alessandro Moschitti

[Short] Transformers to Learn Hierarchical Contexts in Multiparty Dialogue for Span-based Question Answering

Changmao Li and Jinho D. Choi

[TACL] TyDi QA: A Benchmark for Information-Seeking Question Answering in Typologically Diverse Languages

Jonathan H Clark, Jennimaria Palomaki, Vitaly Nikolaev, Eunsol Choi, Dan Garrette, Michael Collins, Tom Kwiatkowski

18:00–19:00 Session 9B Resources and Evaluation-10

[Long] A Corpus for Large-Scale Phonetic Typology

Elizabeth Salesky, Eleanor Chodroff, Tiago Pimentel, Matthew Wiesner, Ryan Cotterell, Alan W Black and Jason Eisner

[Long] An Effectiveness Metric for Ordinal Classification: Formal Properties and Experimental Results

Enrique Amigo, Julio Gonzalo, Stefano Mizzaro and Jorge Carrillo-de-Albornoz

[Long] Not All Claims are Created Equal: Choosing the Right Statistical Approach to Assess Hypotheses

Erfan Sadeqi Azer, Daniel Khashabi, Ashish Sabharwal and Dan Roth

[Long] STARC: Structured Annotations for Reading Comprehension

Yevgeni Berzak, Jonathan Malmaud and Roger Levy

[Long] WinoWhy: A Deep Diagnosis of Essential Commonsense Knowledge for Answering Winograd Schema Challenge

Hongming Zhang, Xinran Zhao and Yangqiu Song

Tuesday, July 7, 2020 UTC+0 (continued)

18:00–19:00 Session 9B Sentiment Analysis, Stylistic Analysis, and Argument Mining-7

[Long] Agreement Prediction of Arguments in Cyber Argumentation for Detecting Stance Polarity and Intensity

Joseph Sirrianni, Xiaoqing Liu and Douglas Adams

[Long] Cross-Lingual Unsupervised Sentiment Classification with Multi-View Transfer Learning

Hongliang Fei and Ping Li

[Long] Efficient Pairwise Annotation of Argument Quality

Lukas Gienapp, Benno Stein, Matthias Hagen and Martin Potthast

[Short] Entity-Aware Dependency-Based Deep Graph Attention Network for Comparative Preference Classification

Nianzu Ma, Sahisnu Mazumder, Hao Wang and Bing Liu

[Long] GoEmotions: A Dataset of Fine-Grained Emotions

Dorottya Demszky, Dana Movshovitz-Attias, Jeongwoo Ko, Alan Cowen, Gaurav Nemade and Sujith Ravi

[Short] OpinionDigest: A Simple Framework for Opinion Summarization

Yoshihiko Suhara, Xiaolan Wang, Stefanos Angelidis and Wang-Chiew Tan

[Long] A Comprehensive Analysis of Preprocessing for Word Representation Learning in Affective Tasks

Nastaran Babanejad, Ameeta Agrawal, Aijun An and Manos Papagelis

Tuesday, July 7, 2020 UTC+0 (continued)

18:00–19:00 Session 9B Student Research Workshop

[SRW] Compositional Generalization by Factorizing Alignment and Translation

Jacob Russin, Jason Jo, Randall O'Reilly and Yoshua Bengio

[SRW] RPD: A Distance Function Between Word Embeddings

Xuhui Zhou, Shujian Huang and Zaixiang Zheng

[SRW] #NotAWhore! A Computational Linguistic Perspective of Rape Culture and Victimization on Social Media

Ashima Suvarna and Grusha Bhalla

[SRW] Research Replication Prediction Using Weakly Supervised Learning

Tianyi Luo, Xingyu Li, Hainan Wang and Yang Liu

[SRW] Inducing Grammar from Long Short-Term Memory Networks by Shapley Decomposition

Yuhui Zhang and Allen Nie

18:30–19:15 Demo Session 4C

[Demo] NLP Scholar: An Interactive Visual Explorer for Natural Language Processing Literature

Saif M. Mohammad

[Demo] Stimulating Creativity with FunLines: A Case Study of Humor Generation in Headlines

Nabil Hossain, John Krumm, Tanvir Sajed and Henry Kautz

[Demo] Usnea: An Authorship Tool for Interactive Fiction using Retrieval Based Semantic Parsing

Ben Swanson and Boris Smus

Tuesday, July 7, 2020 UTC+0 (continued)

20:00–20:45 Demo Session 5A

[Demo] DIALOGPT : Large-Scale Generative Pre-training for Conversational Response Generation

Yizhe Zhang, Siqi Sun, Michel Galley, Yen-Chun Chen, Chris Brockett, Xiang Gao, Jianfeng Gao, Jingjing Liu and Bill Dolan

[Demo] Label Noise in Context

Michael Desmond, Catherine Finegan-Dollak, Jeff Boston and Matt Arnold

[Demo] Photon: A Robust Cross-Domain Text-to-SQL System

Jichuan Zeng, Xi Victoria Lin, Steven C.H. Hoi, Richard Socher, Caiming Xiong, Michael Lyu and Irwin King

20:00–21:00 Session 10A Computational Social Science and Social Media-8

[Long] Balancing Objectives in Counseling Conversations: Advancing Forwards or Looking Backwards

Justine Zhang and Cristian Danescu-Niculescu-Mizil

[Long] Detecting Perceived Emotions in Hurricane Disasters

Shrey Desai, Cornelia Caragea and Junyi Jessy Li

[Long] Hierarchical Modeling for User Personality Prediction: The Role of Message-Level Attention

Veronica Lynn, Niranjan Balasubramanian and H. Andrew Schwartz

[Short] Masking Actor Information Leads to Fairer Political Claims Detection

Erenay Dayanik and Sebastian Padó

[Long] Measuring Forecasting Skill from Text

Shi Zong, Alan Ritter and Eduard Hovy

[Long] Text and Causal Inference: A Review of Using Text to Remove Confounding from Causal Estimates

Katherine Keith, David Jensen and Brendan O'Connor

[Long] Text-Based Ideal Points

Keyon Vafa, Suresh Naidu and David Blei

[Long] Understanding the Language of Political Agreement and Disagreement in Legislative Texts

Maryam Davoodi, Eric Waltenburg and Dan Goldwasser

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] When do Word Embeddings Accurately Reflect Surveys on our Beliefs About People?

Kenneth Joseph and Jonathan Morgan

[Long] “Who said it, and Why?” Provenance for Natural Language Claims

Yi Zhang, Zachary Ives and Dan Roth

[Short] Would you Rather? A New Benchmark for Learning Machine Alignment with Cultural Values and Social Preferences

Yi Tay, Donovan Ong, Jie Fu, Alvin Chan, Nancy Chen, Anh Tuan Luu and Chris Pal

20:00–21:00 Session 10A Dialogue and Interactive Systems-12

[Long] CraftAssist Instruction Parsing: Semantic Parsing for a Voxel-World Assistant

Kavya Srinet, Yacine Jernite, Jonathan Gray and arthur szlam

[Long] Don’t Say That! Making Inconsistent Dialogue Unlikely with Unlikelihood Training

Margaret Li, Stephen Roller, Ilia Kulikov, Sean Welleck, Y-Lan Boureau, Kyunghyun Cho and Jason Weston

20:00–21:00 Session 10A Interpretability and Analysis of Models for NLP-7

[Short] A Re-evaluation of Knowledge Graph Completion Methods

Zhiqing Sun, Shikhar Vashishth, Soumya Sanyal, Partha Talukdar and Yiming Yang

[Long] Cross-Linguistic Syntactic Evaluation of Word Prediction Models

Aaron Mueller, Garrett Nicolai, Panayiota Petrou-Zeniou, Natalia Talmina and Tal Linzen

[Long] ERASER: A Benchmark to Evaluate Rationalized NLP Models

Jay DeYoung, Sarthak Jain, Nazneen Fatema Rajani, Eric Lehman, Caiming Xiong, Richard Socher and Byron C. Wallace

[Long] Evaluating Explainable AI: Which Algorithmic Explanations Help Users Predict Model Behavior?

Peter Hase and Mohit Bansal

[Long] Finding Universal Grammatical Relations in Multilingual BERT

Ethan A. Chi, John Hewitt and Christopher D. Manning

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] How does BERT's attention change when you fine-tune? An analysis methodology and a case study in negation scope

Yiyun Zhao and Steven Bethard

[Long] Influence Paths for Characterizing Subject-Verb Number Agreement in LSTM Language Models

Kaiji Lu, Piotr Mardziel, Klas Leino, Matt Fredrikson and Anupam Datta

[Long] Interpreting Pretrained Contextualized Representations via Reductions to Static Embeddings

Rishi Bommasani, Kelly Davis and Claire Cardie

[Long] Obtaining Faithful Interpretations from Compositional Neural Networks

Sanjay Subramanian, Ben Bogin, Nitish Gupta, Tomer Wolfson, Sameer Singh, Jonathan Berant and Matt Gardner

[Long] Rationalizing Text Matching: Learning Sparse Alignments via Optimal Transport

Kyle Swanson, Lili Yu and Tao Lei

[Long] Spying on Your Neighbors: Fine-grained Probing of Contextual Embeddings for Information about Surrounding Words

Josef Klafka and Allyson Ettinger

[TACL] What BERT Is Not: Lessons from a New Suite of Psycholinguistic Diagnostics for Language Models

Allyson Ettinger

20:00–21:00 Session 10A Question Answering-7

[Short] Benefits of Intermediate Annotations in Reading Comprehension

Dheeru Dua, Sameer Singh and Matt Gardner

[Short] Crossing Variational Autoencoders for Answer Retrieval

Wenhao Yu, Lingfei Wu, Qingkai Zeng, Shu Tao, Yu Deng and Meng Jiang

[Long] DeFormer: Decomposing Pre-trained Transformers for Faster Question Answering

Qingqing Cao, Harsh Trivedi, Aruna Balasubramanian and Niranjan Balasubramanian

[TACL] Investigating Prior Knowledge for Challenging Chinese Machine Reading Comprehension

Kai Sun, Dian Yu, Dong Yu, Claire Cardie

Tuesday, July 7, 2020 UTC+0 (continued)

[Short] Logic-Guided Data Augmentation and Regularization for Consistent Question Answering

Akari Asai and Hannaneh Hajishirzi

[Long] Probabilistic Assumptions Matter: Improved Models for Distantly-Supervised Document-Level Question Answering

Hao Cheng, Ming-Wei Chang, Kenton Lee and Kristina Toutanova

[Long] Selective Question Answering under Domain Shift

Amita Kamath, Robin Jia and Percy Liang

[TACL] TyDi QA: A Benchmark for Information-Seeking Question Answering in Typologically Diverse Languages

Jonathan H Clark, Jennimaria Palomaki, Vitaly Nikolaev, Eunsol Choi, Dan Garrette, Michael Collins, Tom Kwiatkowski

[Long] Unsupervised Alignment-based Iterative Evidence Retrieval for Multi-hop Question Answering

Vikas Yadav, Steven Bethard and Mihai Surdeanu

20:00–21:00 Session 10A Resources and Evaluation-11

[Long] Beyond Accuracy: Behavioral Testing of NLP Models with CheckList

Marco Tulio Ribeiro, Tongshuang Wu, Carlos Guestrin and Sameer Singh

[Long] Code and Named Entity Recognition in StackOverflow

Jeniya Tabassum, Mounica Maddela, Wei Xu and Alan Ritter

[CL] LINSPECTOR: Multilingual Probing Tasks for Word Representations

Gözde Gül Sahin, Clara Vania, Ilia Kuznetsov, Iryna Gurevych

[TACL] Paraphrase-Sense-Tagged Sentences

Anne Cocos, Chris Callison-Burch

[Long] Tangled up in BLEU: Reevaluating the Evaluation of Automatic Machine Translation Evaluation Metrics

Nitika Mathur, Timothy Baldwin and Trevor Cohn

[Long] Towards Holistic and Automatic Evaluation of Open-Domain Dialogue Generation

Bo Pang, Erik Nijkamp, Wenjuan Han, Linqi Zhou, Yixian Liu and Kewei Tu

Tuesday, July 7, 2020 UTC+0 (continued)

20:00–21:00 Session 10A Sentiment Analysis, Stylistic Analysis, and Argument Mining-8

[Long] Agreement Prediction of Arguments in Cyber Argumentation for Detecting Stance Polarity and Intensity

Joseph Sirrianni, Xiaoqing Liu and Douglas Adams

[Long] Cross-Lingual Unsupervised Sentiment Classification with Multi-View Transfer Learning

Hongliang Fei and Ping Li

[Long] Efficient Pairwise Annotation of Argument Quality

Lukas Gienapp, Benno Stein, Matthias Hagen and Martin Potthast

[Short] Entity-Aware Dependency-Based Deep Graph Attention Network for Comparative Preference Classification

Nianzu Ma, Sahisnu Mazumder, Hao Wang and Bing Liu

[Short] Modeling Label Semantics for Predicting Emotional Reactions

Radhika Gaonkar, Heeyoung Kwon, Mohaddeseh Bastan, Niranjan Balasubramanian and Nathanael Chambers

[Short] OpinionDigest: A Simple Framework for Opinion Summarization

Yoshihiko Suhara, Xiaolan Wang, Stefanos Angelidis and Wang-Chiew Tan

[Long] A Comprehensive Analysis of Preprocessing for Word Representation Learning in Affective Tasks

Nastaran Babanejad, Ameeta Agrawal, Aijun An and Manos Papagelis

Tuesday, July 7, 2020 UTC+0 (continued)

20:00–21:00 Session 10A Theme-2

[Long] (Re)construing Meaning in NLP

Sean Trott, Tiago Timponi Torrent, Nancy Chang and Nathan Schneider

[Long] Climbing towards NLU: On Meaning, Form, and Understanding in the Age of Data

Emily M. Bender and Alexander Koller

[Long] Examining Citations of Natural Language Processing Literature

Saif M. Mohammad

[Short] How Can We Accelerate Progress Towards Human-like Linguistic Generalization?

Tal Linzen

[Long] How Does NLP Benefit Legal System: A Summary of Legal Artificial Intelligence

Haoxi Zhong, Chaojun Xiao, Cunchao Tu, Tianyang Zhang, Zhiyuan Liu and Maosong Sun

[Long] Intermediate-Task Transfer Learning with Pretrained Language Models: When and Why Does It Work?

Yada Pruksachatkun, Jason Phang, Haokun Liu, Phu Mon Htut, Xiaoyi Zhang, Richard Yuanzhe Pang, Clara Vania, Katharina Kann and Samuel R. Bowman

[Long] Predictive Biases in Natural Language Processing Models: A Conceptual Framework and Overview

Deven Santosh Shah, H. Andrew Schwartz and Dirk Hovy

[Short] What Does BERT with Vision Look At?

Liunian Harold Li, Mark Yatskar, Da Yin, Cho-Jui Hsieh and Kai-Wei Chang

Tuesday, July 7, 2020 UTC+0 (continued)

20:45–21:30 Demo Session 5B

[Demo] Interactive Task Learning from GUI-Grounded Natural Language Instructions and Demonstrations

Toby Jia-Jun Li, Tom Mitchell and Brad Myers

[Demo] exBERT: A Visual Analysis Tool to Explore Learned Representations in Transformer Models

Benjamin Hoover, Hendrik Strobelt and Sebastian Gehrmann

21:00–22:00 Session 10B Discourse and Pragmatics-5

[Long] Discourse as a Function of Event: Profiling Discourse Structure in News Articles around the Main Event

Prafulla Kumar Choubey, Aaron Lee, Ruihong Huang and Lu Wang

[Long] Harnessing the linguistic signal to predict scalar inferences

Sebastian Schuster, Yuxing Chen and Judith Degen

[Short] Implicit Discourse Relation Classification: We Need to Talk about Evaluation

Najoung Kim, Song Feng, Chulaka Gunasekara and Luis Lastras

[Long] PeTra: A Sparsely Supervised Memory Model for People Tracking

Shubham Toshniwal, Allyson Ettinger, Kevin Gimpel and Karen Livescu

[Short] ZPR2: Joint Zero Pronoun Recovery and Resolution using Multi-Task Learning and BERT

Linfeng Song, Kun Xu, Yue Zhang, Jianshu Chen and Dong Yu

Tuesday, July 7, 2020 UTC+0 (continued)

21:00–22:00 Session 10B Ethics and NLP-5

[Short] Contextualizing Hate Speech Classifiers with Post-hoc Explanation

Brendan Kennedy, Xisen Jin, Aida Mostafazadeh Davani, Morteza Dehghani and Xiang Ren

[Long] Double-Hard Debias: Tailoring Word Embeddings for Gender Bias Mitigation

Tianlu Wang, Xi Victoria Lin, Nazneen Fatema Rajani, Bryan McCann, Vicente Ordonez and Caiming Xiong

[Long] Gender Bias in Multilingual Embeddings and Cross-Lingual Transfer

Jieyu Zhao, Subhabrata Mukherjee, saghar Hosseini, Kai-Wei Chang and Ahmed Hassan Awadallah

[Long] Language (Technology) is Power: A Critical Survey of "Bias" in NLP

Su Lin Blodgett, Solon Barocas, Hal Daumé III and Hanna Wallach

[Short] Mitigating Gender Bias Amplification in Distribution by Posterior Regularization

Shengyu Jia, Tao Meng, Jieyu Zhao and Kai-Wei Chang

[Long] Social Bias Frames: Reasoning about Social and Power Implications of Language

Maarten Sap, Saadia Gabriel, Lianhui Qin, Dan Jurafsky, Noah A. Smith and Yejin Choi

[Short] Social Biases in NLP Models as Barriers for Persons with Disabilities

Ben Hutchinson, Vinodkumar Prabhakaran, Emily Denton, Kellie Webster, Yu Zhong and Stephen Denuyl

[Long] Toward Gender-Inclusive Coreference Resolution

Yang Trista Cao and Hal Daumé III

[Long] Towards Debiasing Sentence Representations

Paul Pu Liang, Irene Mengze Li, Emily Zheng, Yao Chong Lim, Ruslan Salakhutdinov and Louis-Philippe Morency

Tuesday, July 7, 2020 UTC+0 (continued)

21:00–22:00 Session 10B Interpretability and Analysis of Models for NLP-8

[Long] Explaining Black Box Predictions and Unveiling Data Artifacts through Influence Functions

Xiaochuang Han, Byron C. Wallace and Yulia Tsvetkov

[Long] Generating Hierarchical Explanations on Text Classification via Feature Interaction Detection

Hanjie Chen, Guangtao Zheng and Yangfeng Ji

[Long] Learning to Deceive with Attention-Based Explanations

Danish Pruthi, Mansi Gupta, Bhuwan Dhingra, Graham Neubig and Zachary C. Lipton

[Long] Learning to Faithfully Rationalize by Construction

Sarthak Jain, Sarah Wiegrefe, Yuval Pinter and Byron C. Wallace

[Short] On the Spontaneous Emergence of Discrete and Compositional Signals

Nur Geffen Lan, Emmanuel Chemla and Shane Steinert-Threlkeld

21:00–22:00 Session 10B Language Grounding to Vision, Robotics and Beyond-4

[Long] Dense-Caption Matching and Frame-Selection Gating for Temporal Localization in VideoQA

Hyoungun Kim, Zineng Tang and Mohit Bansal

[Short] Shaping Visual Representations with Language for Few-Shot Classification

Jesse Mu, Percy Liang and Noah Goodman

Tuesday, July 7, 2020 UTC+0 (continued)

21:00–22:00 Session 10B Machine Learning for NLP-11

[Long] Discrete Latent Variable Representations for Low-Resource Text Classification

Shuning Jin, Sam Wiseman, Karl Stratos and Karen Livescu

[Long] Improving Transformer Models by Reordering their Sublayers

Ofir Press, Noah A. Smith and Omer Levy

[Long] Learning Constraints for Structured Prediction Using Rectifier Networks

Xingyuan Pan, Maitrey Mehta and Vivek Srikumar

[Long] Pretraining with Contrastive Sentence Objectives Improves Discourse Performance of Language Models

Dan Iter, Kelvin Guu, Larry Lansing and Dan Jurafsky

[Short] SAFER: A Structure-free Approach for Certified Robustness to Adversarial Word Substitutions

Mao Ye, Chengyue Gong and Qiang Liu

[TACL] SpanBERT: Improving Pre-training by Representing and Predicting Spans

Mandar Joshi, Danqi Chen, Yinhan Liu, Daniel S. Weld, Luke Zettlemoyer, Omer Levy

21:00–22:00 Session 10B Question Answering-8

[Long] Clinical Reading Comprehension: A Thorough Analysis of the emrQA Dataset

Xiang Yue, Bernal Jimenez Gutierrez and Huan Sun

[Short] On the Importance of Diversity in Question Generation for QA

Md Arafat Sultan, Shubham Chandel, Ramón Fernandez Astudillo and Vittorio Castelli

[Long] SCDE: Sentence Cloze Dataset with High Quality Distractors From Examinations

Xiang Kong, Varun Gangal and Eduard Hovy

[Long] The Cascade Transformer: an Application for Efficient Answer Sentence Selection

Luca Soldaini and Alessandro Moschitti

Tuesday, July 7, 2020 UTC+0 (continued)

[Short] Transformers to Learn Hierarchical Contexts in Multiparty Dialogue for Span-based Question Answering

Changmao Li and Jinho D. Choi

21:00–22:00 Session 10B Resources and Evaluation-12

[Long] A Recipe for Creating Multimodal Aligned Datasets for Sequential Tasks

Angela Lin, Sudha Rao, Asli Celikyilmaz, Elnaz Nouri, Chris Brockett, Debadepta Dey and Bill Dolan

[Long] Adversarial NLI: A New Benchmark for Natural Language Understanding

Yixin Nie, Adina Williams, Emily Dinan, Mohit Bansal, Jason Weston and Douwe Kiela

[Long] Dialogue-Based Relation Extraction

Dian Yu, Kai Sun, Claire Cardie and Dong Yu

[Short] Dscorer: A Fast Evaluation Metric for Discourse Representation Structure Parsing

Jiangming Liu, Shay B. Cohen and Mirella Lapata

[Long] Facet-Aware Evaluation for Extractive Summarization

Yuning Mao, Liyuan Liu, Qi Zhu, Xiang Ren and Jiawei Han

[Long] More Diverse Dialogue Datasets via Diversity-Informed Data Collection

Katherine Stasaski, Grace Hui Yang and Marti A. Hearst

[Long] Not All Claims are Created Equal: Choosing the Right Statistical Approach to Assess Hypotheses

Erfan Sadeqi Azer, Daniel Khashabi, Ashish Sabharwal and Dan Roth

[Long] S2ORC: The Semantic Scholar Open Research Corpus

Kyle Lo, Lucy Lu Wang, Mark Neumann, Rodney Kinney and Daniel Weld

[Long] STARC: Structured Annotations for Reading Comprehension

Yevgeni Berzak, Jonathan Malmaud and Roger Levy

[Long] WinoWhy: A Deep Diagnosis of Essential Commonsense Knowledge for Answering Winograd Schema Challenge

Hongming Zhang, Xinran Zhao and Yangqiu Song

Tuesday, July 7, 2020 UTC+0 (continued)

21:00–22:00 Session 10B Speech and Multimodality-6

[Short] Towards end-2-end learning for predicting behavior codes from spoken utterances in psychotherapy conversations

Karan Singla, Zhuohao Chen, David Atkins and Shrikanth Narayanan

21:00–22:00 Session 10B Summarization-5

[Short] A Transformer-based Approach for Source Code Summarization

Wasi Ahmad, Saikat Chakraborty, Baishakhi Ray and Kai-Wei Chang

[Long] Asking and Answering Questions to Evaluate the Factual Consistency of Summaries

Alex Wang, Kyunghyun Cho and Mike Lewis

[Long] Discourse-Aware Neural Extractive Text Summarization

Jiacheng Xu, Zhe Gan, Yu Cheng and Jingjing Liu

[Long] Discrete Optimization for Unsupervised Sentence Summarization with Word-Level Extraction

Raphael Schumann, Lili Mou, Yao Lu, Olga Vechtomova and Katja Markert

[Short] Exploring Content Selection in Summarization of Novel Chapters

Faisal Ladhak, Bryan Li, Yaser Al-Onaizan and Kathleen McKeown

[Long] FEQA: A Question Answering Evaluation Framework for Faithfulness Assessment in Abstractive Summarization

Esin Durmus, He He and Mona Diab

[Short] Fact-based Content Weighting for Evaluating Abstractive Summarisation

Xinnuo Xu, Ondřej Dušek, Jingyi Li, Verena Rieser and Ioannis Konstas

[Long] Hooks in the Headline: Learning to Generate Headlines with Controlled Styles

Di Jin, Zhijing Jin, Joey Tianyi Zhou, Lisa Orri and Peter Szolovits

[Long] Knowledge Graph-Augmented Abstractive Summarization with Semantic-Driven Cloze Reward

Luyang Huang, Lingfei Wu and Lu Wang

Tuesday, July 7, 2020 UTC+0 (continued)

[Long] Optimizing the Factual Correctness of a Summary: A Study of Summarizing Radiology Reports

Yuhao Zhang, Derek Merck, Emily Tsai, Christopher D. Manning and Curtis Langlotz

[Long] Storytelling with Dialogue: A Critical Role Dungeons and Dragons Dataset

Revanth Rameshkumar and Peter Bailey

[Long] The Summary Loop: Learning to Write Abstractive Summaries Without Examples

Philippe Laban, Andrew Hsi, John Canny and Marti A. Hearst

[Long] Unsupervised Opinion Summarization as Copycat-Review Generation

Arthur Bražinskas, Mirella Lapata and Ivan Titov

21:30–22:15 Demo Session 5C

[Demo] NLP Scholar: An Interactive Visual Explorer for Natural Language Processing Literature

Saif M. Mohammad

[Demo] Stimulating Creativity with FunLines: A Case Study of Humor Generation in Headlines

Nabil Hossain, John Krumm, Tanvir Sajed and Henry Kautz

[Demo] Usnea: An Authorship Tool for Interactive Fiction using Retrieval Based Semantic Parsing

Ben Swanson and Boris Smus

Wednesday, July 8, 2020 UTC+0

Wednesday, July 8, 2020 UTC+0 (continued)

05:00–05:45 Demo Session 1A

[Demo] ADVISER: A Toolkit for Developing Multi-modal, Multi-domain and Socially-engaged Conversational Agents

Chia-Yu Li, Daniel Ortega, Dirk Văth, Florian Lux, Lindsey Vanderlyn, Maximilian Schmidt, Michael Neumann, Moritz Völkel, Pavel Denisov, Sabrina Jenne, Zorica Kacarevic and Ngoc Thang Vu

[Demo] Prta: A System to Support the Analysis of Propaganda Techniques in the News

Giovanni Da San Martino, Shaden Shaar, Yifan Zhang, Seunghak Yu, Alberto Barrón-Cedeño and Preslav Nakov

05:00–06:00 Session 11A Dialogue and Interactive Systems-13

[Long] Diverse and Informative Dialogue Generation with Context-Specific Commonsense Knowledge Awareness

Sixing Wu, Ying Li, Dawei Zhang, Yang Zhou and Zhonghai Wu

[Long] Generate, Delete and Rewrite: A Three-Stage Framework for Improving Persona Consistency of Dialogue Generation

Haoyu Song, Yan Wang, Wei-Nan Zhang, Xiaojiang Liu and Ting Liu

[Long] Learning to Customize Model Structures for Few-shot Dialogue Generation Tasks

YIPING SONG, Zequn Liu, Wei Bi, Rui Yan and Ming Zhang

[Short] Video-Grounded Dialogues with Pretrained Generation Language Models

Hung Le and Steven C.H. Hoi

05:00–06:00 Session 11A Information Extraction-3

[Long] A Unified MRC Framework for Named Entity Recognition

Xiaoya Li, Jingrong Feng, Yuxian Meng, Qinghong Han, Fei Wu and Jiwei Li

[Long] An Effective Transition-based Model for Discontinuous NER

Xiang Dai, Sarvnaz Karimi, Ben Hachey and Cecile Paris

[Long] IMoJIE: Iterative Memory-Based Joint Open Information Extraction

Keshav Kolluru, Samarth Aggarwal, Vipul Rathore, Mausam and Soumen Chakrabarti

[Long] Improving Event Detection via Open-domain Trigger Knowledge

Meihan Tong, Bin Xu, Shuai Wang, Yixin Cao, Lei Hou, Juanzi Li and Jun Xie

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Improving Low-Resource Named Entity Recognition using Joint Sentence and Token Labeling

Canasai Kruengkrai, Thien Hai Nguyen, Sharifah Mahani Aljunied and Lidong Bing

[Long] Multi-Cell Compositional LSTM for NER Domain Adaptation

Chen Jia and Yue Zhang

[Long] Pyramid: A Layered Model for Nested Named Entity Recognition

Jue WANG, Lidan Shou, Ke Chen and Gang Chen

[Long] ReInceptionE: Relation-Aware Inception Network with Joint Local-Global Structural Information for Knowledge Graph Embedding

Zhiwen Xie, Guangyou Zhou, Jin Liu and Jimmy Xiangji Huang

[Long] Relabel the Noise: Joint Extraction of Entities and Relations via Cooperative Multiagents

Daoyuan Chen, Yaliang Li, Kai Lei and Ying Shen

[Long] Simplify the Usage of Lexicon in Chinese NER

Ruotian Ma, Minlong Peng, Qi Zhang, Zhongyu Wei and Xuanjing Huang

05:00–06:00 Session 11A Machine Translation-13

[Long] AdvAug: Robust Adversarial Augmentation for Neural Machine Translation

Yong Cheng, Lu Jiang, Wolfgang Macherey and Jacob Eisenstein

[Short] Contextual Neural Machine Translation Improves Translation of Cataphoric Pronouns

KayYen Wong, Sameen Maruf and Gholamreza Haffari

[Long] Improving Neural Machine Translation with Soft Template Prediction

Jian Yang, Shuming Ma, Dongdong Zhang, Zhoujun Li and Ming Zhou

[Short] Tagged Back-translation Revisited: Why Does It Really Work?

Benjamin Marie, Raphael Rubino and Atsushi Fujita

[Short] Worse WER, but Better BLEU? Leveraging Word Embedding as Intermediate in Multitask End-to-End Speech Translation

Shun-Po Chuang, Tzu-Wei Sung, Alexander H. Liu and Hung-yi Lee

Wednesday, July 8, 2020 UTC+0 (continued)

05:00–06:00 Session 11A NLP Applications-8

[Short] Neural-DINF: A Neural Network based Framework for Measuring Document Influence

Jie Tan, Changlin Yang, Ying Li, Siliang Tang, Chen Huang and Yueting Zhuang

[Long] Paraphrase Generation by Learning How to Edit from Samples

Amirhossein Kazemnejad, Mohammadreza Salehi and Mahdieh Soleymani Baghshah

05:00–06:00 Session 11A Semantics: Sentence Level-5

[Long] Emerging Cross-lingual Structure in Pretrained Language Models

Alexis Conneau, Shijie Wu, Haoran Li, Luke Zettlemoyer and Veselin Stoyanov

[Long] FastBERT: a Self-distilling BERT with Adaptive Inference Time

Weijie Liu, Peng Zhou, Zhiruo Wang, Zhe Zhao, Haotang Deng and QI JU

[Short] Incorporating External Knowledge through Pre-training for Natural Language to Code Generation

Frank F. Xu, Zhengbao Jiang, Pengcheng Yin, Bogdan Vasilescu and Graham Neubig

[Long] LogicalFactChecker: Leveraging Logical Operations for Fact Checking with Graph Module Network

Wanjun Zhong, Duyu Tang, Zhangyin Feng, Nan Duan, Ming Zhou, Ming Gong, Linjun Shou, Daxin Jiang, Jiahai Wang and Jian Yin

[Long] Word-level Textual Adversarial Attacking as Combinatorial Optimization

Yuan Zang, Fanchao Qi, Chenghao Yang, Zhiyuan Liu, Meng Zhang, Qun Liu and Maosong Sun

Wednesday, July 8, 2020 UTC+0 (continued)

05:00–06:00 Session 11A Semantics: Textual Inference and Other Areas of Semantics-3

[Long] Benchmarking Multimodal Regex Synthesis with Complex Structures

Xi Ye, Qiaochu Chen, Isil Dillig and Greg Durrett

[Long] Curriculum Learning for Natural Language Understanding

Benfeng Xu, Licheng Zhang, Zhendong Mao, Quan Wang, Hongtao Xie and Yongdong Zhang

[Long] Do Neural Models Learn Systematicity of Monotonicity Inference in Natural Language?

Hitomi Yanaka, Koji Mineshima, Daisuke Bekki and Kentaro Inui

[Long] Evidence-Aware Inferential Text Generation with Vector Quantised Variational AutoEncoder

Daya Guo, Duyu Tang, Nan Duan, Jian Yin, Daxin Jiang and Ming Zhou

[Long] How to Ask Good Questions? Try to Leverage Paraphrases

Xin Jia, Wenjie Zhou, Xu SUN and Yunfang Wu

[Long] NeuInfer: Knowledge Inference on N-ary Facts

Saiping Guan, Xiaolong Jin, Jiafeng Guo, Yuanzhuo Wang and Xueqi Cheng

[Short] Neural Graph Matching Networks for Chinese Short Text Matching

Lu Chen, Yanbin Zhao, Boer Lyu, Lesheng Jin, Zhi Chen, Su Zhu and Kai Yu

[Long] Neural Mixed Counting Models for Dispersed Topic Discovery

Jiemin Wu, Yanghui Rao, Zusheng Zhang, Haoran Xie, Qing Li, Fu Lee Wang and Ziyue Chen

[Long] Reasoning Over Semantic-Level Graph for Fact Checking

Wanjun Zhong, Jingjing Xu, Duyu Tang, Zenan Xu, Nan Duan, Ming Zhou, Jiahai Wang and Jian Yin

Wednesday, July 8, 2020 UTC+0 (continued)

05:00–06:00 Session 11A Summarization-6

[Long] Automatic Generation of Citation Texts in Scholarly Papers: A Pilot Study

Xinyu Xing, Xiaosheng Fan and Xiaojun Wan

[Short] Composing Elementary Discourse Units in Abstractive Summarization

Zhenwen Li, Wenhao Wu and Sujian Li

[Long] Extractive Summarization as Text Matching

Ming Zhong, Pengfei Liu, Yiran Chen, Danqing Wang, Xipeng Qiu and Xuanjing Huang

[Long] Heterogeneous Graph Neural Networks for Extractive Document Summarization

Danqing Wang, Pengfei Liu, Yining Zheng, Xipeng Qiu and Xuanjing Huang

[Long] Jointly Learning to Align and Summarize for Neural Cross-Lingual Summarization

Yue Cao, Hui Liu and Xiaojun Wan

[Long] Leveraging Graph to Improve Abstractive Multi-Document Summarization

Wei Li, Xinyan Xiao, Jiachen Liu, Hua Wu, Haifeng Wang and Junping Du

[Long] Multi-Granularity Interaction Network for Extractive and Abstractive Multi-Document Summarization

Hanqi Jin, Tianming Wang and Xiaojun Wan

Wednesday, July 8, 2020 UTC+0 (continued)

05:00–06:00 Session 11A Syntax: Tagging, Chunking and Parsing-4

[Short] Tetra-Tagging: Word-Synchronous Parsing with Linear-Time Inference

Nikita Kitaev and Dan Klein

05:00–06:00 Session 11A Theme-3

[Short] Are we Estimating or Guesstimating Translation Quality?

Shuo Sun, Francisco Guzmán and Lucia Specia

[Long] Language (Re)modelling: Towards Embodied Language Understanding

Ronen Tamari, Chen Shani, Tom Hope, Miriam R L Petruck, Omri Abend and Dafna Shahaf

[Long] The State and Fate of Linguistic Diversity and Inclusion in the NLP World

Pratik Joshi, Sebastin Santy, Amar Budhiraja, Kalika Bali and Monojit Choudhury

[Long] The Unstoppable Rise of Computational Linguistics in Deep Learning

James Henderson

[Long] To Boldly Query What No One Has Annotated Before? The Frontiers of Corpus Querying

Markus Gärtner and Kerstin Jung

Wednesday, July 8, 2020 UTC+0 (continued)

05:00–06:00 Session 11A Student Research Workshop

[SRW] Story-level Text Style Transfer: A Proposal

Yusu Qian

[SRW] HGCN4MeSH: Hybrid Graph Convolution Network for MeSH Indexing

Miaomiao Yu, Yujia Yang and Chenhui Li

[SRW] Considering Likelihood in NLP Classification Explanations with Occlusion and Language Modeling

David Harbecke and Christoph Alt

05:45–06:30 Demo Session 1B

[Demo] Clinical-Coder: Assigning Interpretable ICD-10 Codes to Chinese Clinical Notes

Pengfei Cao, Chenwei Yan, Xiangling Fu, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong

[Demo] ESPnet-ST: All-in-One Speech Translation Toolkit

Hirofumi Inaguma, Shun Kiyono, Kevin Duh, Shigeki Karita, Nelson Yalta, Tomoki Hayashi and Shinji Watanabe

06:00–07:00 Session 11B Dialogue and Interactive Systems-14

[Long] A Contextual Hierarchical Attention Network with Adaptive Objective for Dialogue State Tracking

Yong Shan, Zekang Li, Jinchao Zhang, Fandong Meng, Yang Feng, Cheng Niu and Jie Zhou

[Long] Data Manipulation: Towards Effective Instance Learning for Neural Dialogue Generation via Learning to Augment and Reweight

Hengyi Cai, Hongshen Chen, Yonghao Song, Cheng Zhang, Xiaofang Zhao and Dawei Yin

[Long] Dynamic Fusion Network for Multi-Domain End-to-end Task-Oriented Dialog

Libo Qin, Xiao Xu, Wanxiang Che, Yue Zhang and Ting Liu

[Long] Learning Efficient Dialogue Policy from Demonstrations through Shaping

Huimin Wang, Baolin Peng and Kam-Fai Wong

[Long] SAS: Dialogue State Tracking via Slot Attention and Slot Information Sharing

Jiaying Hu, Yan Yang, Chencai Chen, liang he and Zhou Yu

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Speaker Sensitive Response Evaluation Model

JinYeong Bak and Alice Oh

06:00–07:00 Session 11B Discourse and Pragmatics-6

[Long] A Top-down Neural Architecture towards Text-level Parsing of Discourse Rhetorical Structure

Longyin Zhang, Yuqing Xing, Fang Kong, Peifeng Li and Guodong Zhou

[TACL] Unsupervised Discourse Constituency Parsing Using Viterbi EM

Noriki Nishida, Hideki Nakayama

06:00–07:00 Session 11B Information Extraction-4

[Long] Amalgamation of protein sequence, structure and textual information for improving protein-protein interaction identification

pratik Dutta and Sriparna Saha

[Long] Bipartite Flat-Graph Network for Nested Named Entity Recognition

Ying Luo and Hai Zhao

[Long] Connecting Embeddings for Knowledge Graph Entity Typing

Yu Zhao, anxiang zhang, Ruobing Xie, Kang Liu and Xiaojie WANG

[Long] Continual Relation Learning via Episodic Memory Activation and Reconsolidation

Xu Han, Yi Dai, Tianyu Gao, Yankai Lin, Zhiyuan Liu, Peng Li, Maosong Sun and Jie Zhou

[Long] Handling Rare Entities for Neural Sequence Labeling

Yangming Li, Han Li, Kaisheng Yao and Xiaolong Li

[Short] Instance-Based Learning of Span Representations: A Case Study through Named Entity Recognition

Hiroki Ouchi, Jun Suzuki, Sosuke Kobayashi, Sho Yokoi, Tatsuki Kuribayashi, Ryuto Konno and Kentaro Inui

[Long] MIE: A Medical Information Extractor towards Medical Dialogues

Yuanzhe Zhang, Zhongtao Jiang, Tao Zhang, Shiwan Liu, Jiarun Cao, Kang Liu, Shengping Liu and Jun Zhao

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Named Entity Recognition as Dependency Parsing

Juntao Yu, Bernd Bohnet and Massimo Poesio

[Long] Neighborhood Matching Network for Entity Alignment

Yuting Wu, Xiao Liu, Yansong Feng, Zheng Wang and Dongyan Zhao

[Short] Relation Extraction with Explanation

Hamed Shahbazi, Xiaoli Fern, Reza Ghaeini and Prasad Tadepalli

[Long] Representation Learning for Information Extraction from Form-like Documents

Bodhisattwa Prasad Majumder, Navneet Potti, Sandeep Tata, James Bradley Wendt, Qi Zhao and Marc Najork

[Long] Single-/Multi-Source Cross-Lingual NER via Teacher-Student Learning on Unlabeled Data in Target Language

Qianhui Wu, Zijia Lin, Börje Karlsson, Jian-Guang LOU and Biqing Huang

[Long] Synchronous Double-channel Recurrent Network for Aspect-Opinion Pair Extraction

Shaowei Chen, Jie Liu, Yu Wang, Wenzheng Zhang and Ziming Chi

06:00–07:00 Session 11B Language Grounding to Vision, Robotics and Beyond-5

[Long] Cross-modal Coherence Modeling for Caption Generation

Malihe Alikhani, Piyush Sharma, Shengjie Li, Radu Soricut and Matthew Stone

[Short] Knowledge Supports Visual Language Grounding: A Case Study on Colour Terms

Simeon Schüz and Sina Zarriß

[Long] Span-based Localizing Network for Natural Language Video Localization

Hao Zhang, Aixin Sun, Wei Jing and Joey Tianyi Zhou

[Short] Words Aren't Enough, Their Order Matters: On the Robustness of Grounding Visual Referring Expressions

Arjun Akula, Spandana Gella, Yaser Al-Onaizan, Song-Chun Zhu and Siva Reddy

Wednesday, July 8, 2020 UTC+0 (continued)

06:00–07:00 Session 11B Machine Learning for NLP-12

[Long] A Mixture of $h - 1$ Heads is Better than h Heads

Hao Peng, Roy Schwartz, Dianqi Li and Noah A. Smith

[Long] Dependency Graph Enhanced Dual-transformer Structure for Aspect-based Sentiment Classification

Hao Tang, Donghong Ji, Chenliang Li and Qiji Zhou

[Long] Differentiable Window for Dynamic Local Attention

Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li

[Long] Evaluating and Enhancing the Robustness of Neural Network-based Dependency Parsing Models with Adversarial Examples

Xiaoqing Zheng, Jiehang Zeng, Yi Zhou, Cho-Jui Hsieh, Minhao Cheng and Xuan-jing Huang

[Long] Exploiting Syntactic Structure for Better Language Modeling: A Syntactic Distance Approach

Wenyu Du, Zhouhan Lin, Yikang Shen, Timothy J. O'Donnell, Yoshua Bengio and Yue Zhang

[Long] Learning Architectures from an Extended Search Space for Language Modeling

Yinqiao Li, Chi Hu, Yuhao Zhang, Nuo Xu, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li

[Long] The Right Tool for the Job: Matching Model and Instance Complexities

Roy Schwartz, Gabriel Stanovsky, Swabha Swayamdipta, Jesse Dodge and Noah A. Smith

Wednesday, July 8, 2020 UTC+0 (continued)

06:00–07:00 Session 11B Phonology, Morphology and Word Segmentation-3

[Long] Bootstrapping Techniques for Polysynthetic Morphological Analysis

William Lane and Steven Bird

[Long] Coupling Distant Annotation and Adversarial Training for Cross-Domain Chinese Word Segmentation

Ning Ding, Dingkun Long, Guangwei Xu, Muhua Zhu, Pengjun Xie, Xiaobin Wang and Haitao Zheng

[Long] Modeling Morphological Typology for Unsupervised Learning of Language Morphology

Hongzhi Xu, Jordan Kodner, Mitchell Marcus and Charles Yang

[Long] Predicting Declension Class from Form and Meaning

Adina Williams, Tiago Pimentel, Hagen Blix, Arya D. McCarthy, Eleanor Chodroff and Ryan Cotterell

[Long] Unsupervised Morphological Paradigm Completion

Huiming Jin, Liwei Cai, Yihui Peng, Chen Xia, Arya McCarthy and Katharina Kann

06:00–07:00 Session 11B Question Answering-9

[Long] Document Modeling with Graph Attention Networks for Multi-grained Machine Reading Comprehension

Bo Zheng, Haoyang Wen, Yaobo Liang, Nan Duan, Wanxiang Che, Daxin Jiang, Ming Zhou and Ting Liu

[Long] Harvesting and Refining Question-Answer Pairs for Unsupervised QA

Zhongli Li, Wenhui Wang, Li Dong, Furu Wei and Ke Xu

[Long] Low-Resource Generation of Multi-hop Reasoning Questions

Jianxing Yu, Wei Liu, Shuang Qiu, Qinliang Su, Kai Wang, Xiaojun Quan and Jian Yin

[Short] R4C: A Benchmark for Evaluating RC Systems to Get the Right Answer for the Right Reason

Naoya Inoue, Pontus Stenetorp and Kentaro Inui

[Long] Recurrent Chunking Mechanisms for Long-Text Machine Reading Comprehension

Hongyu Gong, Yelong Shen, Dian Yu, Jianshu Chen and Dong Yu

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] RikiNet: Reading Wikipedia Pages for Natural Question Answering
Dayiheng Liu, Yeyun Gong, Jie Fu, Yu Yan, Jiusheng Chen, Daxin Jiang, Jiancheng Lv and Nan Duan

06:00–07:00 Session 11B Semantics: Sentence Level-6

[TACL] AMR-To-Text Generation with Graph Transformer
Tianming Wang, Xiaojun Wan, Hanqi Jin

[Long] Parsing into Variable-in-situ Logico-Semantic Graphs
Yufei Chen and Weiwei Sun

[Long] Semantic Parsing for English as a Second Language
Yuanyuan Zhao, Weiwei Sun, junjie cao and Xiaojun Wan

[Long] Semi-Supervised Semantic Dependency Parsing Using CRF Autoencoders
Zixia Jia, Youmi Ma, Jiong Cai and Kewei Tu

[Long] Unsupervised Dual Paraphrasing for Two-stage Semantic Parsing
Ruisheng Cao, Su Zhu, Chenyu Yang, Chen Liu, Rao Ma, Yanbin Zhao, Lu Chen and Kai Yu

06:00–07:00 Session 11B Student Research Workshop

[SRW] Feature Difference Makes Sense: A medical image captioning model exploiting feature difference and tag information
Hyeryun Park, Kyungmo Kim, Jooyoung Yoon, Seongkeun Park and Jinwook Choi

[SRW] Multi-Task Neural Model for Agglutinative Language Translation
Yirong Pan, Xiao Li, Yating Yang and Rui Dong

Wednesday, July 8, 2020 UTC+0 (continued)

06:30–07:15 Demo Session 1C

[Demo] Penman: An Open-Source Library and Tool for AMR Graphs

Michael Wayne Goodman

08:00–08:45 Demo Session 2A

[Demo] Embedding-based Scientific Literature Discovery in a Text Editor Application

Onur Gökçe, Jonathan Prada, Nikola I. Nikolov, Nianlong Gu and Richard H.R. Hahnloser

08:00–09:00 Session 12A Discourse and Pragmatics-7

[Long] A Top-down Neural Architecture towards Text-level Parsing of Discourse Rhetorical Structure

Longyin Zhang, Yuqing Xing, Fang Kong, Peifeng Li and Guodong Zhou

[Long] DRTS Parsing with Structure-Aware Encoding and Decoding

Qiankun Fu, Yue Zhang, Jiangming Liu and Meishan Zhang

[TACL] Unsupervised Discourse Constituency Parsing Using Viterbi EM

Noriki Nishida, Hideki Nakayama

08:00–09:00 Session 12A Information Extraction-5

[Short] A Two-Stage Masked LM Method for Term Set Expansion

Guy Kushilevitz, Shaul Markovitch and Yoav Goldberg

[Long] Amalgamation of protein sequence, structure and textual information for improving protein-protein interaction identification

pratik Dutta and Sriparna Saha

[Short] FLAT: Chinese NER Using Flat-Lattice Transformer

Xiaonan Li, Hang Yan, Xipeng Qiu and Xuanjing Huang

[Long] IMoJIE: Iterative Memory-Based Joint Open Information Extraction

Keshav Kolluru, Samarth Aggarwal, Vipul Rathore, Mausam and Soumen Chakrabarti

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Improving Entity Linking through Semantic Reinforced Entity Embeddings
Feng Hou, Ruili Wang, Jun He and Yi Zhou

[Long] Improving Event Detection via Open-domain Trigger Knowledge
Meihan Tong, Bin Xu, Shuai Wang, Yixin Cao, Lei Hou, Juanzi Li and Jun Xie

[Short] Improving Low-Resource Named Entity Recognition using Joint Sentence and Token Labeling
Canasai Kruengkrai, Thien Hai Nguyen, Sharifah Mahani Aljunied and Lidong Bing

[Long] MIE: A Medical Information Extractor towards Medical Dialogues
Yuanzhe Zhang, Zhongtao Jiang, Tao Zhang, Shivan Liu, Jiarun Cao, Kang Liu, Shengping Liu and Jun Zhao

[Long] Multi-Cell Compositional LSTM for NER Domain Adaptation
Chen Jia and Yue Zhang

[Long] Neighborhood Matching Network for Entity Alignment
Yuting Wu, Xiao Liu, Yansong Feng, Zheng Wang and Dongyan Zhao

[Long] Pyramid: A Layered Model for Nested Named Entity Recognition
Jue WANG, Lidan Shou, Ke Chen and Gang Chen

[Long] ReInceptionE: Relation-Aware Inception Network with Joint Local-Global Structural Information for Knowledge Graph Embedding
Zhiwen Xie, Guangyou Zhou, Jin Liu and Jimmy Xiangji Huang

[Long] Relabel the Noise: Joint Extraction of Entities and Relations via Cooperative Multiagents
Daoyuan Chen, Yaliang Li, Kai Lei and Ying Shen

[Long] Simplify the Usage of Lexicon in Chinese NER
Ruotian Ma, Minlong Peng, Qi Zhang, Zhongyu Wei and Xuanjing Huang

Wednesday, July 8, 2020 UTC+0 (continued)

08:00–09:00 Session 12A Information Retrieval and Text Mining-6

[Long] Document Translation vs. Query Translation for Cross-Lingual Information Retrieval in the Medical Domain

Shadi Saleh and Pavel Pecina

[Short] Learning Robust Models for e-Commerce Product Search

Thanh Nguyen, Nikhil Rao and Karthik Subbian

08:00–09:00 Session 12A Machine Learning for NLP-13

[Long] Dependency Graph Enhanced Dual-transformer Structure for Aspect-based Sentiment Classification

Hao Tang, Donghong Ji, Chenliang Li and Qiji Zhou

[Long] Differentiable Window for Dynamic Local Attention

Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li

[Long] Generalized Entropy Regularization or: There's Nothing Special about Label Smoothing

Clara Meister, Elizabeth Salesky and Ryan Cotterell

[Long] Highway Transformer: Self-Gating Enhanced Self-Attentive Networks

Yekun Chai, Shuo Jin and Xinwen Hou

[Long] Low-Dimensional Hyperbolic Knowledge Graph Embeddings

Ines Chami, Adva Wolf, Da-Cheng Juan, Frederic Sala, Sujith Ravi and Christopher Ré

Wednesday, July 8, 2020 UTC+0 (continued)

08:00–09:00 Session 12A Machine Translation-14

[Long] AdvAug: Robust Adversarial Augmentation for Neural Machine Translation

Yong Cheng, Lu Jiang, Wolfgang Macherey and Jacob Eisenstein

[Short] Classification-Based Self-Learning for Weakly Supervised Bilingual Lexicon Induction

Mladen Karan, Ivan Vulić, Anna Korhonen and Goran Glavaš

[Short] Contextual Neural Machine Translation Improves Translation of Cataphoric Pronouns

KayYen Wong, Sameen Maruf and Gholamreza Haffari

[Long] Gender in Danger? Evaluating Speech Translation Technology on the MuST-SHE Corpus

Luisa Bentivogli, Beatrice Savoldi, Matteo Negri, Mattia A. Di Gangi, Roldano Cattoni and Marco Turchi

[Long] Improving Neural Machine Translation with Soft Template Prediction

Jian Yang, Shuming Ma, Dongdong Zhang, Zhoujun Li and Ming Zhou

[Long] Uncertainty-Aware Curriculum Learning for Neural Machine Translation

Yikai Zhou, Baosong Yang, Derek F. Wong, Yu Wan and Lidia S. Chao

[Short] Worse WER, but Better BLEU? Leveraging Word Embedding as Intermediate in Multitask End-to-End Speech Translation

Shun-Po Chuang, Tzu-Wei Sung, Alexander H. Liu and Hung-yi Lee

Wednesday, July 8, 2020 UTC+0 (continued)

08:00–09:00 Session 12A NLP Applications-9

[Short] Closing the Gap: Joint De-Identification and Concept Extraction in the Clinical Domain

Lukas Lange, Heike Adel and Jannik Strötgen

[Long] CorefQA: Coreference Resolution as Query-based Span Prediction

Wei Wu, Fei Wang, Arianna Yuan, Fei Wu and Jiwei Li

[Long] Estimating predictive uncertainty for rumour verification models

Elena Kochkina and Maria Liakata

[Long] From Zero to Hero: Human-In-The-Loop Entity Linking in Low Resource Domains

Jan-Christoph Klie, Richard Eckart de Castilho and Iryna Gurevych

[Long] Language to Network: Conditional Parameter Adaptation with Natural Language Descriptions

Tian Jin, Zhun Liu, Shengjia Yan, Alexandre Eichenberger and Louis-Philippe Morency

[Short] Neural-DINF: A Neural Network based Framework for Measuring Document Influence

Jie Tan, Changlin Yang, Ying Li, Siliang Tang, Chen Huang and Yueting Zhuang

08:00–09:00 Session 12A Semantics: Sentence Level-7

[TACL] AMR-To-Text Generation with Graph Transformer

Tianming Wang, Xiaojun Wan, Hanqi Jin

[Short] Controlled Crowdsourcing for High-Quality QA-SRL Annotation

Paul Roit, Ayal Klein, Daniela Stepanov, Jonathan Mamou, Julian Michael, Gabriel Stanovsky, Luke Zettlemoyer and Ido Dagan

[Long] Cross-Lingual Semantic Role Labeling with High-Quality Translated Training Corpus

Hao Fei, Meishan Zhang and Donghong Ji

[Long] Semantic Parsing for English as a Second Language

Yuanyuan Zhao, Weiwei Sun, junjie cao and Xiaojun Wan

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Sentence Meta-Embeddings for Unsupervised Semantic Textual Similarity

Nina Poerner, Ulli Waltinger and Hinrich Schütze

[Long] Transition-based Semantic Dependency Parsing with Pointer Networks

Daniel Fernández-González and Carlos Gómez-Rodríguez

[Long] Unsupervised Dual Paraphrasing for Two-stage Semantic Parsing

Ruisheng Cao, Su Zhu, Chenyu Yang, Chen Liu, Rao Ma, Yanbin Zhao, Lu Chen and Kai Yu

[Long] Word-level Textual Adversarial Attacking as Combinatorial Optimization

Yuan Zang, Fanchao Qi, Chenghao Yang, Zhiyuan Liu, Meng Zhang, Qun Liu and Maosong Sun

[Short] tBERT: Topic Models and BERT Joining Forces for Semantic Similarity Detection

Nicole Peinelt, Dong Nguyen and Maria Liakata

08:00–09:00 Session 12A Sentiment Analysis, Stylistic Analysis, and Argument Mining-10

[Long] Conditional Augmentation for Aspect Term Extraction via Masked Sequence-to-Sequence Generation

Kun Li, Chengbo Chen, Xiaojun Quan, Qing Ling and Yan Song

[Short] Exploiting Personal Characteristics of Debaters for Predicting Persuasiveness

Khalid Al Khatib, Michael Völske, Shahbaz Syed, Nikolay Kolyada and Benno Stein

[Long] Out of the Echo Chamber: Detecting Countering Debate Speeches

Matan Orbach, Yonatan Bilu, Assaf Toledo, Dan Lahav, Michal Jacovi, Ranit Aharonov and Noam Slonim

Wednesday, July 8, 2020 UTC+0 (continued)

08:00–09:00 Session 12A Summarization-7

[Long] Automatic Generation of Citation Texts in Scholarly Papers: A Pilot Study

Xinyu Xing, Xiaosheng Fan and Xiaojun Wan

[Short] Composing Elementary Discourse Units in Abstractive Summarization

Zhenwen Li, Wenhao Wu and Sujian Li

[Long] Extractive Summarization as Text Matching

Ming Zhong, Pengfei Liu, Yiran Chen, Danqing Wang, Xipeng Qiu and Xuanjing Huang

[Long] Heterogeneous Graph Neural Networks for Extractive Document Summarization

Danqing Wang, Pengfei Liu, Yining Zheng, Xipeng Qiu and Xuanjing Huang

[Long] Jointly Learning to Align and Summarize for Neural Cross-Lingual Summarization

Yue Cao, Hui Liu and Xiaojun Wan

[Long] Leveraging Graph to Improve Abstractive Multi-Document Summarization

Wei Li, Xinyan Xiao, Jiachen Liu, Hua Wu, Haifeng Wang and Junping Du

[Long] Multi-Granularity Interaction Network for Extractive and Abstractive Multi-Document Summarization

Hanqi Jin, Tianming Wang and Xiaojun Wan

Wednesday, July 8, 2020 UTC+0 (continued)

08:00–09:00 Session 12A Student Research Workshop

[SRW] Zero-shot North Korean to English Neural Machine Translation by Character Tokenization and Phoneme Decomposition

Hwichan Kim, Tosho Hirasawa and Mamoru Komachi

[SRW] Research on Task Discovery for Transfer Learning in Deep Neural Networks
Arda Akdemir

[SRW] uBLEU: Uncertainty-Aware Automatic Evaluation Method for Open-Domain Dialogue Systems

Tsuta Yuma, Naoki Yoshinaga and Masashi Toyoda

08:45–09:30 Demo Session 2B

[Demo] MMPE: A Multi-Modal Interface using Handwriting, Touch Reordering, and Speech Commands for Post-Editing Machine Translation

Nico Herbig, Santanu Pal, Tim Düwel, Kalliopi Meladaki, Mahsa Monshizadeh, Vladislav Hnatovskiy, Antonio Krüger and Josef van Genabith

09:00–10:00 Session 12B Dialogue and Interactive Systems-15

[Long] Data Manipulation: Towards Effective Instance Learning for Neural Dialogue Generation via Learning to Augment and Reweight

Hengyi Cai, Hongshen Chen, Yonghao Song, Cheng Zhang, Xiaofang Zhao and Dawei Yin

[Long] Diverse and Informative Dialogue Generation with Context-Specific Commonsense Knowledge Awareness

Sixing Wu, Ying Li, Dawei Zhang, Yang Zhou and Zhonghai Wu

[Long] Diversifying Dialogue Generation with Non-Conversational Text

Hui Su, Xiaoyu Shen, Sanqiang Zhao, Zhou Xiao, Pengwei Hu, randy zhong, Cheng Niu and Jie Zhou

[Long] Generate, Delete and Rewrite: A Three-Stage Framework for Improving Persona Consistency of Dialogue Generation

Haoyu Song, Yan Wang, Wei-Nan Zhang, Xiaojiang Liu and Ting Liu

[Long] KdConv: A Chinese Multi-domain Dialogue Dataset Towards Multi-turn Knowledge-driven Conversation

Hao Zhou, Chujie Zheng, Kaili Huang, Minlie Huang and Xiaoyan Zhu

[Long] Learning Efficient Dialogue Policy from Demonstrations through Shaping
Huimin Wang, Baolin Peng and Kam-Fai Wong

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Meta-Reinforced Multi-Domain State Generator for Dialogue Systems

Yi Huang, Junlan Feng, Min Hu, Xiaoting Wu, Xiaoyu Du and Shuo Ma

[Short] Modeling Long Context for Task-Oriented Dialogue State Generation

Jun Quan and Deyi Xiong

[Long] Multi-Domain Dialogue Acts and Response Co-Generation

Kai Wang, Junfeng Tian, Rui Wang, Xiaojun Quan and Jianxing Yu

[Long] SAS: Dialogue State Tracking via Slot Attention and Slot Information Sharing

Jiaying Hu, Yan Yang, Chencai Chen, liang he and Zhou Yu

[Short] Video-Grounded Dialogues with Pretrained Generation Language Models

Hung Le and Steven C.H. Hoi

09:00–10:00 Session 12B Generation-11

[Long] Exploring Contextual Word-level Style Relevance for Unsupervised Style Transfer

Chulun Zhou, Liangyu Chen, Jiachen Liu, Xinyan Xiao, Jinsong Su, Sheng Guo and Hua Wu

[Long] Heterogeneous Graph Transformer for Graph-to-Sequence Learning

Shaowei Yao, Tianming Wang and Xiaojun Wan

[Long] Neural Data-to-Text Generation via Jointly Learning the Segmentation and Correspondence

Xiaoyu Shen, Ernie Chang, Hui Su, Cheng Niu and Dietrich Klakow

Wednesday, July 8, 2020 UTC+0 (continued)

09:00–10:00 Session 12B Information Extraction-6

[Long] An Effective Transition-based Model for Discontinuous NER

Xiang Dai, Sarvnaz Karimi, Ben Hachey and Cecile Paris

[Long] Connecting Embeddings for Knowledge Graph Entity Typing

Yu Zhao, anxiang zhang, Ruobing Xie, Kang Liu and Xiaojie WANG

[Long] Handling Rare Entities for Neural Sequence Labeling

Yangming Li, Han Li, Kaisheng Yao and Xiaolong Li

[Short] Instance-Based Learning of Span Representations: A Case Study through Named Entity Recognition

Hiroki Ouchi, Jun Suzuki, Sosuke Kobayashi, Sho Yokoi, Tatsuki Kuribayashi, Ryuto Konno and Kentaro Inui

[Short] Named Entity Recognition as Dependency Parsing

Juntao Yu, Bernd Bohnet and Massimo Poesio

09:00–10:00 Session 12B Language Grounding to Vision, Robotics and Beyond-6

[Long] Aligned Dual Channel Graph Convolutional Network for Visual Question Answering

Qingbao Huang, Jielong Wei, Yi Cai, Changmeng Zheng, Junying Chen, Ho-fung Leung and Qing Li

[Long] Cross-modal Coherence Modeling for Caption Generation

Malihe Alikhani, Piyush Sharma, Shengjie Li, Radu Soricut and Matthew Stone

[Long] Multimodal Neural Graph Memory Networks for Visual Question Answering

Mahmoud Khademi

[Long] Refer360°: A Referring Expression Recognition Dataset in 360° Images

Volkan Cirik, Taylor Berg-Kirkpatrick and Louis-Philippe Morency

[Long] Span-based Localizing Network for Natural Language Video Localization

Hao Zhang, Aixin Sun, Wei Jing and Joey Tianyi Zhou

Wednesday, July 8, 2020 UTC+0 (continued)

09:00–10:00 Session 12B Machine Learning for NLP-14

[Long] CamemBERT: a Tasty French Language Model

Louis Martin, Benjamin Muller, Pedro Javier Ortiz Suárez, Yoann Dupont, Laurent Romary, Éric de la Clergerie, Djamé Seddah and Benoît Sagot

[Long] Effective Estimation of Deep Generative Language Models

Tom Pelsmaecker and Wilker Aziz

[Long] Evaluating and Enhancing the Robustness of Neural Network-based Dependency Parsing Models with Adversarial Examples

Xiaoqing Zheng, Jiehang Zeng, Yi Zhou, Cho-Jui Hsieh, Minhao Cheng and Xuan-jing Huang

[Long] Learning Architectures from an Extended Search Space for Language Modeling

Yinqiao Li, Chi Hu, Yuhao Zhang, Nuo Xu, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li

[Long] Null It Out: Guarding Protected Attributes by Iterative Nullspace Projection

Shauli Ravfogel, Yanai Elazar, Hila Gonen, Michael Twiton and Yoav Goldberg

09:00–10:00 Session 12B Phonology, Morphology and Word Segmentation-4

[Long] 2kenize: Tying Subword Sequences for Chinese Script Conversion

Pranav A and Isabelle Augenstein

[Long] Bootstrapping Techniques for Polysynthetic Morphological Analysis

William Lane and Steven Bird

[Long] Coupling Distant Annotation and Adversarial Training for Cross-Domain Chinese Word Segmentation

Ning Ding, Dingkun Long, Guangwei Xu, Muhua Zhu, Pengjun Xie, Xiaobin Wang and Haitao Zheng

[Long] Modeling Morphological Typology for Unsupervised Learning of Language Morphology

Hongzhi Xu, Jordan Kodner, Mitchell Marcus and Charles Yang

[Long] Predicting Declension Class from Form and Meaning

Adina Williams, Tiago Pimentel, Hagen Blix, Arya D. McCarthy, Eleanor Chodroff and Ryan Cotterell

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Predicting the Growth of Morphological Families from Social and Linguistic Factors

Valentin Hofmann, Janet Pierrehumbert and Hinrich Schütze

[Long] Semi-supervised Contextual Historical Text Normalization

Peter Makarov and Simon Clematide

09:00–10:00 Session 12B Question Answering-10

[Short] ClarQ: A large-scale and diverse dataset for Clarification Question Generation

Vaibhav Kumar and Alan W Black

[Long] DoQA - Accessing Domain-Specific FAQs via Conversational QA

Jon Ander Campos, Arantxa Otegi, Aitor Soroa, Jan Deriu, Mark Cieliebak and Eneko Agirre

[Long] Harvesting and Refining Question-Answer Pairs for Unsupervised QA

Zhongli Li, Wenhui Wang, Li Dong, Furu Wei and Ke Xu

[Long] MLQA: Evaluating Cross-lingual Extractive Question Answering

Patrick Lewis, Barlas Oguz, Ruty Rinott, Sebastian Riedel and Holger Schwenk

[Long] Multi-source Meta Transfer for Low Resource Multiple-Choice Question Answering

Ming Yan, Hao Zhang, Di Jin and Joey Tianyi Zhou

[Long] RikiNet: Reading Wikipedia Pages for Natural Question Answering

Dayiheng Liu, Yeyun Gong, Jie Fu, Yu Yan, Jiusheng Chen, Daxin Jiang, Jiancheng Lv and Nan Duan

Wednesday, July 8, 2020 UTC+0 (continued)

09:00–10:00 Session 12B Semantics: Textual Inference and Other Areas of Semantics-4

[Long] Do Neural Models Learn Systematicity of Monotonicity Inference in Natural Language?

Hitomi Yanaka, Koji Mineshima, Daisuke Bekki and Kentaro Inui

[Long] Fine-grained Fact Verification with Kernel Graph Attention Network

Zhenghao Liu, Chenyan Xiong, Maosong Sun and Zhiyuan Liu

[Long] Generating Fact Checking Explanations

Pepa Atanasova, Jakob Grue Simonsen, Christina Lioma and Isabelle Augenstein

[Long] How to Ask Good Questions? Try to Leverage Paraphrases

Xin Jia, Wenjie Zhou, Xu SUN and Yunfang Wu

[Long] Premise Selection in Natural Language Mathematical Texts

Deborah Ferreira and André Freitas

09:00–10:00 Session 12B Theme-4

[Long] A Call for More Rigor in Unsupervised Cross-lingual Learning

Mikel Artetxe, Sebastian Ruder, Dani Yogatama, Gorka Labaka and Eneko Agirre

[Short] A Tale of a Probe and a Parser

Rowan Hall Maudslay, Josef Valvoda, Tiago Pimentel, Adina Williams and Ryan Cotterell

[Long] From SPMRL to NMRL: What Did We Learn (and Unlearn) in a Decade of Parsing Morphologically-Rich Languages (MRLs)?

Reut Tsarfaty, Dan Bareket, Stav Klein and Amit Seker

[Long] Speech Translation and the End-to-End Promise: Taking Stock of Where We Are

Matthias Sperber and Matthias Paulik

[Long] The State and Fate of Linguistic Diversity and Inclusion in the NLP World

Pratik Joshi, Sebastin Santy, Amar Budhiraja, Kalika Bali and Monojit Choudhury

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] What Question Answering can Learn from Trivia Nerds

Jordan Boyd-Graber and Benjamin Börschinger

[Long] What are the Goals of Distributional Semantics?

Guy Emerson

09:00–10:00 Session 12B Student Research Workshop

[SRW] Self-Attention is Not Only a Weight: Analyzing BERT with Vector Norms

Goro Kobayashi, Tatsuki Kuribayashi, Sho Yokoi and Kentaro Inui

[SRW] Transferring Monolingual Model to Low-Resource Language: The Case of Tigrinya

Abrhalei Frezghi Tela, Abraham Woubie Zewoudie and Ville Hautamäki

[SRW] Adaptive Transformers for Learning Multimodal Representations

Prajjwal Bhargava

09:30–10:15 Demo Session 2C

[Demo] ADVISER: A Toolkit for Developing Multi-modal, Multi-domain and Socially-engaged Conversational Agents

Chia-Yu Li, Daniel Ortega, Dirk Văth, Florian Lux, Lindsey Vanderlyn, Maximilian Schmidt, Michael Neumann, Moritz Völkel, Pavel Denisov, Sabrina Jenne, Zorica Kacarevic and Ngoc Thang Vu

12:00–12:45 Demo Session 3A

[Demo] Torch-Struct: Deep Structured Prediction Library

Alexander Rush

[Demo] Conversation Learner - A Machine Teaching Tool for Building Dialog Managers for Task-Oriented Dialog Systems

Swadheen Shukla, Lars Liden, Shahin Shayandeh, Eslam Kamal, Jinchao Li, Matt Mazzola, Thomas Park, Baolin Peng and Jianfeng Gao

[Demo] ESPnet-ST: All-in-One Speech Translation Toolkit

Hirofumi Inaguma, Shun Kiyono, Kevin Duh, Shigeki Karita, Nelson Yalta, Tomoki Hayashi and Shinji Watanabe

Wednesday, July 8, 2020 UTC+0 (continued)

12:00–13:00 Session 13A Generation-12

[Long] Exploring Contextual Word-level Style Relevance for Unsupervised Style Transfer

Chulun Zhou, Liangyu Chen, Jiachen Liu, Xinyan Xiao, Jinsong Su, Sheng Guo and Hua Wu

[Long] Heterogeneous Graph Transformer for Graph-to-Sequence Learning

Shaowei Yao, Tianming Wang and Xiaojun Wan

[Long] Improving Image Captioning with Better Use of Caption

Zhan Shi, Xu Zhou, Xipeng Qiu and Xiaodan Zhu

[Long] Neural Data-to-Text Generation via Jointly Learning the Segmentation and Correspondence

Xiaoyu Shen, Ernie Chang, Hui Su, Cheng Niu and Dietrich Klakow

[Short] Shape of Synth to Come: Why We Should Use Synthetic Data for English Surface Realization

Henry Elder, Robert Burke, Alexander O'Connor and Jennifer Foster

[TAACL] Syntax-guided Controlled Generation of Paraphrases

Ashutosh Kumar, Kabir Ahuja, Raghuram Vadapalli, Partha Talukdar

[Short] Toward Better Storylines with Sentence-Level Language Models

Daphne Ippolito, David Grangier, Douglas Eck and Chris Callison-Burch

Wednesday, July 8, 2020 UTC+0 (continued)

12:00–13:00 Session 13A Information Extraction-7

[Short] A Two-Step Approach for Implicit Event Argument Detection

Zhisong Zhang, Xiang Kong, Zhengzhong Liu, Xuezhe Ma and Eduard Hovy

[Long] A Unified MRC Framework for Named Entity Recognition

Xiaoya Li, Jingrong Feng, Yuxian Meng, Qinghong Han, Fei Wu and Jiwei Li

[Long] Continual Relation Learning via Episodic Memory Activation and Reconsolidation

Xu Han, Yi Dai, Tianyu Gao, Yankai Lin, Zhiyuan Liu, Peng Li, Maosong Sun and Jie Zhou

[TACL] Improving Candidate Generation for Low-resource Cross-lingual Entity Linking

Shuyan Zhou, Shruti Rijhwani, John Wieting, Jaime Carbonell, Graham Neubig

[Short] Improving Entity Linking through Semantic Reinforced Entity Embeddings

Feng Hou, Ruili Wang, Jun He and Yi Zhou

[Long] Machine Reading of Historical Events

Or Honovich, Lucas Torroba Hennigen, Omri Abend and Shay B. Cohen

[Short] Relation Extraction with Explanation

Hamed Shahbazi, Xiaoli Fern, Reza Ghaeini and Prasad Tadepalli

[Short] Revisiting Unsupervised Relation Extraction

Thy Thy Tran, Phong Le and Sophia Ananiadou

[Long] SciREX: A Challenge Dataset for Document-Level Information Extraction

Sarthak Jain, Madeleine van Zuylen, Hannaneh Hajishirzi and Iz Beltagy

[Long] Single-/Multi-Source Cross-Lingual NER via Teacher-Student Learning on Unlabeled Data in Target Language

Qianhui Wu, Zijia Lin, Börje Karlsson, Jian-Guang LOU and Biqing Huang

[Long] Synchronous Double-channel Recurrent Network for Aspect-Opinion Pair Extraction

Shaowei Chen, Jie Liu, Yu Wang, Wenzheng Zhang and Ziming Chi

Wednesday, July 8, 2020 UTC+0 (continued)

12:00–13:00 Session 13A Machine Learning for NLP-15

[Short] Contrastive Self-Supervised Learning for Commonsense Reasoning

Tassilo Klein and Moin Nabi

[Short] Do Transformers Need Deep Long-Range Memory?

Jack Rae and Ali Razavi

[Long] Effective Estimation of Deep Generative Language Models

Tom Pelsmaecker and Wilker Aziz

[Long] Exploiting Syntactic Structure for Better Language Modeling: A Syntactic Distance Approach

Wenyu Du, Zhouhan Lin, Yikang Shen, Timothy J. O'Donnell, Yoshua Bengio and Yue Zhang

[Long] Highway Transformer: Self-Gating Enhanced Self-Attentive Networks

Yekun Chai, Shuo Jin and Xinwen Hou

[Long] Improving Disentangled Text Representation Learning with Information-Theoretic Guidance

Pengyu Cheng, Martin Renqiang Min, Dinghan Shen, Christopher Malon, Yizhe Zhang, Yitong Li and Lawrence Carin

[Long] Low-Dimensional Hyperbolic Knowledge Graph Embeddings

Ines Chami, Adva Wolf, Da-Cheng Juan, Frederic Sala, Sujith Ravi and Christopher Ré

[Long] Null It Out: Guarding Protected Attributes by Iterative Nullspace Projection

Shauli Ravfogel, Yanai Elazar, Hila Gonen, Michael Twiton and Yoav Goldberg

Wednesday, July 8, 2020 UTC+0 (continued)

12:00–13:00 Session 13A NLP Applications-10

[Short] Closing the Gap: Joint De-Identification and Concept Extraction in the Clinical Domain

Lukas Lange, Heike Adel and Jannik Strötgen

[Long] CorefQA: Coreference Resolution as Query-based Span Prediction

Wei Wu, Fei Wang, Arianna Yuan, Fei Wu and Jiwei Li

[Long] From Zero to Hero: Human-In-The-Loop Entity Linking in Low Resource Domains

Jan-Christoph Klie, Richard Eckart de Castilho and Iryna Gurevych

[Long] Language to Network: Conditional Parameter Adaptation with Natural Language Descriptions

Tian Jin, Zhun Liu, Shengjia Yan, Alexandre Eichenberger and Louis-Philippe Morency

[Long] Paraphrase Generation by Learning How to Edit from Samples

Amirhossein Kazemnejad, Mohammadreza Salehi and Mahdiah Soleymani Baghshah

[Short] Understanding Advertisements with BERT

Kanika Kalra, Bhargav Kurma, Silpa Vadakkeveetil Sreelatha, Manasi Patwardhan and Shirish Karande

12:00–13:00 Session 13A Semantics: Lexical-7

[CL] LESSLEX: Linking Multilingual Embeddings to SenSe Representations of Lexical Items

Davide Colla, Enrico Mensa, Daniele P. Radicioni

[Short] Non-Linear Instance-Based Cross-Lingual Mapping for Non-Isomorphic Embedding Spaces

Goran Glavaš and Ivan Vulić

Wednesday, July 8, 2020 UTC+0 (continued)

12:00–13:00 Session 13A Semantics: Sentence Level-8

[Long] Cross-Lingual Semantic Role Labeling with High-Quality Translated Training Corpus

Hao Fei, Meishan Zhang and Donghong Ji

[Long] FastBERT: a Self-distilling BERT with Adaptive Inference Time

Weijie Liu, Peng Zhou, Zhiruo Wang, Zhe Zhao, Haotang Deng and QI JU

[Long] Good-Enough Compositional Data Augmentation

Jacob Andreas

[Long] LogicalFactChecker: Leveraging Logical Operations for Fact Checking with Graph Module Network

Wanjun Zhong, Duyu Tang, Zhangyin Feng, Nan Duan, Ming Zhou, Ming Gong, Linjun Shou, Daxin Jiang, Jiahai Wang and Jian Yin

[Long] Parsing into Variable-in-situ Logico-Semantic Graphs

Yufei Chen and Weiwei Sun

[Long] RAT-SQL: Relation-Aware Schema Encoding and Linking for Text-to-SQL Parsers

Bailin Wang, Richard Shin, Xiaodong Liu, Oleksandr Polozov and Matthew Richardson

[Long] Semi-Supervised Semantic Dependency Parsing Using CRF Autoencoders

Zixia Jia, Youmi Ma, Jiong Cai and Kewei Tu

[Short] Sentence Meta-Embeddings for Unsupervised Semantic Textual Similarity

Nina Poerner, Ulli Waltinger and Hinrich Schütze

[Long] Transition-based Semantic Dependency Parsing with Pointer Networks

Daniel Fernández-González and Carlos Gómez-Rodríguez

[Short] tBERT: Topic Models and BERT Joining Forces for Semantic Similarity Detection

Nicole Peinelt, Dong Nguyen and Maria Liakata

Wednesday, July 8, 2020 UTC+0 (continued)

12:00–13:00 Session 13A Semantics: Textual Inference and Other Areas of Semantics-5

[Long] Curriculum Learning for Natural Language Understanding

Benfeng Xu, Licheng Zhang, Zhendong Mao, Quan Wang, Hongtao Xie and Yongdong Zhang

[Long] Evidence-Aware Inferential Text Generation with Vector Quantised Variational AutoEncoder

Daya Guo, Duyu Tang, Nan Duan, Jian Yin, Daxin Jiang and Ming Zhou

[Long] Fine-grained Fact Verification with Kernel Graph Attention Network

Zhenghao Liu, Chenyan Xiong, Maosong Sun and Zhiyuan Liu

[Long] NeuInfer: Knowledge Inference on N-ary Facts

Saiping Guan, Xiaolong Jin, Jiafeng Guo, Yuanzhuo Wang and Xueqi Cheng

[Short] Neural Graph Matching Networks for Chinese Short Text Matching

Lu Chen, Yanbin Zhao, Boer Lyu, Lesheng Jin, Zhi Chen, Su Zhu and Kai Yu

[Long] Premise Selection in Natural Language Mathematical Texts

Deborah Ferreira and André Freitas

[Long] Reasoning Over Semantic-Level Graph for Fact Checking

Wanjun Zhong, Jingjing Xu, Duyu Tang, Zenan Xu, Nan Duan, Ming Zhou, Jiahai Wang and Jian Yin

[Long] Temporal Common Sense Acquisition with Minimal Supervision

Ben Zhou, Qiang Ning, Daniel Khashabi and Dan Roth

[Long] The Sensitivity of Language Models and Humans to Winograd Schema Perturbations

Mostafa Abdou, Vinit Ravishankar, Maria Barrett, Yonatan Belinkov, Desmond Elliott and Anders Søgaard

Wednesday, July 8, 2020 UTC+0 (continued)

12:00–13:00 Session 13A Sentiment Analysis, Stylistic Analysis, and Argument Mining-11

[Long] Conditional Augmentation for Aspect Term Extraction via Masked Sequence-to-Sequence Generation

Kun Li, Chengbo Chen, Xiaojun Quan, Qing Ling and Yan Song

[Short] Exploiting Personal Characteristics of Debaters for Predicting Persuasiveness

Khalid Al Khatib, Michael Völske, Shahbaz Syed, Nikolay Kolyada and Benno Stein

[Long] Out of the Echo Chamber: Detecting Countering Debate Speeches

Matan Orbach, Yonatan Bilu, Assaf Toledo, Dan Lahav, Michal Jacovi, Ranit Aharonov and Noam Slonim

12:00–13:00 Session 13A Student Research Workshop

[SRW] Pre-training via Leveraging Assisting Languages for Neural Machine Translation

Haiyue Song, Raj Dabre, Zhuoyuan Mao, Fei Cheng, Sadao Kurohashi and Eiichiro Sumita

[SRW] A Simple and Effective Dependency Parser for Telugu

Sneha Nallani, Manish Shrivastava and Dipti Sharma

[SRW] Cross-Lingual Disaster-related Multi-label Tweet Classification with Manifold Mixup

Jishnu Ray Chowdhury, Cornelia Caragea and Doina Caragea

12:45–13:30 Demo Session 3B

[Demo] Clinical-Coder: Assigning Interpretable ICD-10 Codes to Chinese Clinical Notes

Pengfei Cao, Chenwei Yan, Xiangling Fu, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong

[Demo] Prta: A System to Support the Analysis of Propaganda Techniques in the News

Giovanni Da San Martino, Shaden Shaar, Yifan Zhang, Seunghak Yu, Alberto Barrón-Cedeño and Preslav Nakov

[Demo] NSTM: Real-Time Query-Driven News Overview Composition at Bloomberg

Joshua Bambrick, Minjie Xu, Andy Almonte, Igor Malioutov, Guim Perarnau, Vittorio Selo and Iat Chong Chan

Wednesday, July 8, 2020 UTC+0 (continued)

13:00–14:00 Session 13B Dialogue and Interactive Systems-16

[Long] A Contextual Hierarchical Attention Network with Adaptive Objective for Dialogue State Tracking

Yong Shan, Zekang Li, Jinchao Zhang, Fandong Meng, Yang Feng, Cheng Niu and Jie Zhou

[Long] Diversifying Dialogue Generation with Non-Conversational Text

Hui Su, Xiaoyu Shen, Sanqiang Zhao, Zhou Xiao, Pengwei Hu, randy zhong, Cheng Niu and Jie Zhou

[Long] Dynamic Fusion Network for Multi-Domain End-to-end Task-Oriented Dialog

Libo Qin, Xiao Xu, Wanxiang Che, Yue Zhang and Ting Liu

[Long] KdConv: A Chinese Multi-domain Dialogue Dataset Towards Multi-turn Knowledge-driven Conversation

Hao Zhou, Chujie Zheng, Kaili Huang, Minlie Huang and Xiaoyan Zhu

[Long] Learning to Customize Model Structures for Few-shot Dialogue Generation Tasks

YIPING SONG, Zequn Liu, Wei Bi, Rui Yan and Ming Zhang

[Long] Meta-Reinforced Multi-Domain State Generator for Dialogue Systems

Yi Huang, Junlan Feng, Min Hu, Xiaoting Wu, Xiaoyu Du and Shuo Ma

[Short] Modeling Long Context for Task-Oriented Dialogue State Generation

Jun Quan and Deyi Xiong

[Long] Multi-Domain Dialogue Acts and Response Co-Generation

Kai Wang, Junfeng Tian, Rui Wang, Xiaojun Quan and Jianxing Yu

[Long] Speaker Sensitive Response Evaluation Model

JinYeong Bak and Alice Oh

Wednesday, July 8, 2020 UTC+0 (continued)

13:00–14:00 Session 13B Discourse and Pragmatics-8

[Long] DRTS Parsing with Structure-Aware Encoding and Decoding

Qiankun Fu, Yue Zhang, Jiangming Liu and Meishan Zhang

13:00–14:00 Session 13B Information Extraction-8

[Long] Bipartite Flat-Graph Network for Nested Named Entity Recognition

Ying Luo and Hai Zhao

[Short] FLAT: Chinese NER Using Flat-Lattice Transformer

Xiaonan Li, Hang Yan, Xipeng Qiu and Xuanjing Huang

[Long] Temporally-Informed Analysis of Named Entity Recognition

Shruti Rijhwani and Daniel Preotiuc-Pietro

[Short] Towards Open Domain Event Trigger Identification using Adversarial Domain Adaptation

Aakanksha Naik and Carolyn Rose

13:00–14:00 Session 13B Language Grounding to Vision, Robotics and Beyond-7

[Long] Aligned Dual Channel Graph Convolutional Network for Visual Question Answering

Qingbao Huang, Jielong Wei, Yi Cai, Changmeng Zheng, Junying Chen, Ho-fung Leung and Qing Li

[Long] CompGuessWhat?!: A Multi-task Evaluation Framework for Grounded Language Learning

Alessandro Suglia, Ioannis Konstas, Andrea Vanzo, Emanuele Bastianelli, Desmond Elliott, Stella Frank and Oliver Lemon

[Long] Cross-Modality Relevance for Reasoning on Language and Vision

Chen Zheng, Quan Guo and Parisa Kordjamshidi

[Long] Learning Web-based Procedures by Reasoning over Explanations and Demonstrations in Context

Shashank Srivastava, Oleksandr Polozov, Nebojsa Jojic and Christopher Meek

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Multi-agent Communication meets Natural Language: Synergies between Functional and Structural Language Learning

Angeliki Lazaridou, Anna Potapenko and Olivier Tieleman

[Long] Multimodal Neural Graph Memory Networks for Visual Question Answering

Mahmoud Khademi

13:00–14:00 Session 13B Machine Translation-15

[Long] HAT: Hardware-Aware Transformers for Efficient Natural Language Processing

Hanrui Wang, Zhanghao Wu, Zhijian Liu, Han Cai, Ligeng Zhu, Chuang Gan and Song Han

[Long] Hard-Coded Gaussian Attention for Neural Machine Translation

Weiqiu You, Simeng Sun and Mohit Iyyer

[Long] In Neural Machine Translation, What Does Transfer Learning Transfer?

Alham Fikri Aji, Nikolay Bogoychev, Kenneth Heafield and Rico Sennrich

[Long] Learning a Multi-Domain Curriculum for Neural Machine Translation

Wei Wang, Ye Tian, Jiquan Ngiam, Yinfei Yang, Isaac Caswell and Zarana Parekh

[Long] Reducing Gender Bias in Neural Machine Translation as a Domain Adaptation Problem

Danielle Saunders and Bill Byrne

[Long] Translationese as a Language in "Multilingual" NMT

Parker Riley, Isaac Caswell, Markus Freitag and David Grangier

[Long] Uncertainty-Aware Curriculum Learning for Neural Machine Translation

Yikai Zhou, Baosong Yang, Derek F. Wong, Yu Wan and Lidia S. Chao

[Long] Unsupervised Domain Clusters in Pretrained Language Models

Roei Aharoni and Yoav Goldberg

[Short] Using Context in Neural Machine Translation Training Objectives

Danielle Saunders, Felix Stahlberg and Bill Byrne

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Variational Neural Machine Translation with Normalizing Flows

Hendra Setiawan, Matthias Sperber, Udhyakumar Nallasamy and Matthias Paulik

13:00–14:00 Session 13B Phonology, Morphology and Word Segmentation-5

[Long] 2kenize: Tying Subword Sequences for Chinese Script Conversion

Pranav A and Isabelle Augenstein

[TACL] Phonotactic Complexity and Its Trade-offs

Tiago Pimentel, Brian Roark, Ryan D. Cotterell

[Long] Predicting the Growth of Morphological Families from Social and Linguistic Factors

Valentin Hofmann, Janet Pierrehumbert and Hinrich Schütze

[Long] Semi-supervised Contextual Historical Text Normalization

Peter Makarov and Simon Clematide

[Long] The Paradigm Discovery Problem

Alexander Erdmann, Micha Elsner, Shijie Wu, Ryan Cotterell and Nizar Habash

[Short] Supervised Grapheme-to-Phoneme Conversion of Orthographic Schwas in Hindi and Punjabi

Aryaman Arora, Luke Gessler and Nathan Schneider

Wednesday, July 8, 2020 UTC+0 (continued)

13:00–14:00 Session 13B Question Answering-11

[Short] ClarQ: A large-scale and diverse dataset for Clarification Question Generation

Vaibhav Kumar and Alan W Black

[Long] DoQA - Accessing Domain-Specific FAQs via Conversational QA

Jon Ander Campos, Arantxa Otegi, Aitor Soroa, Jan Deriu, Mark Cieliebak and Eneko Agirre

[Long] Document Modeling with Graph Attention Networks for Multi-grained Machine Reading Comprehension

Bo Zheng, Haoyang Wen, Yaobo Liang, Nan Duan, Wanxiang Che, Daxin Jiang, Ming Zhou and Ting Liu

[Long] Low-Resource Generation of Multi-hop Reasoning Questions

Jianxing Yu, Wei Liu, Shuang Qiu, Qinliang Su, Kai Wang, Xiaojun Quan and Jian Yin

[Long] MLQA: Evaluating Cross-lingual Extractive Question Answering

Patrick Lewis, Barlas Oguz, Ruty Rinott, Sebastian Riedel and Holger Schwenk

[Long] Multi-source Meta Transfer for Low Resource Multiple-Choice Question Answering

Ming Yan, Hao Zhang, Di Jin and Joey Tianyi Zhou

[Short] R4C: A Benchmark for Evaluating RC Systems to Get the Right Answer for the Right Reason

Naoya Inoue, Pontus Stenetorp and Kentaro Inui

[Long] Recurrent Chunking Mechanisms for Long-Text Machine Reading Comprehension

Hongyu Gong, Yelong Shen, Dian Yu, Jianshu Chen and Dong Yu

Wednesday, July 8, 2020 UTC+0 (continued)

13:00–14:00 Session 13B Theme-5

[Long] A Call for More Rigor in Unsupervised Cross-lingual Learning

Mikel Artetxe, Sebastian Ruder, Dani Yogatama, Gorka Labaka and Eneko Agirre

[Short] A Tale of a Probe and a Parser

Rowan Hall Maudslay, Josef Valvoda, Tiago Pimentel, Adina Williams and Ryan Cotterell

[Short] Are we Estimating or Guesstimating Translation Quality?

Shuo Sun, Francisco Guzmán and Lucia Specia

[Long] Automated Evaluation of Writing – 50 Years and Counting

Beata Beigman Klebanov and Nitin Madnani

[Long] From SPMRL to NMRL: What Did We Learn (and Unlearn) in a Decade of Parsing Morphologically-Rich Languages (MRLs)?

Reut Tsarfaty, Dan Bareket, Stav Klein and Amit Seker

[Long] Language (Re)modelling: Towards Embodied Language Understanding

Ronen Tamari, Chen Shani, Tom Hope, Miriam R L Petruck, Omri Abend and Dafna Shahaf

[Short] Negated and Misprimed Probes for Pretrained Language Models: Birds Can Talk, But Cannot Fly

Nora Kassner and Hinrich Schütze

[Short] On Forgetting to Cite Older Papers: An Analysis of the ACL Anthology

Marcel Bollmann and Desmond Elliott

[Short] Returning the N to NLP: Towards Contextually Personalized Classification Models

Lucie Flek

[Long] Speech Translation and the End-to-End Promise: Taking Stock of Where We Are

Matthias Sperber and Matthias Paulik

[Long] To Test Machine Comprehension, Start by Defining Comprehension

Jesse Dunietz, Greg Burnham, Akash Bharadwaj, Owen Rambow, Jennifer Chu-Carroll and Dave Ferrucci

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] What Question Answering can Learn from Trivia Nerds

Jordan Boyd-Graber and Benjamin Börschinger

[Long] What are the Goals of Distributional Semantics?

Guy Emerson

[Long] Gender Gap in Natural Language Processing Research: Disparities in Authorship and Citations

Saif M. Mohammad

13:00–14:00 Session 13B Student Research Workshop

[SRW] AraDIC: Arabic Document Classification Using Image-Based Character Embeddings and Class-Balanced Loss

Mahmoud Daif, Shunsuke Kitada and Hitoshi Iyatomi

[SRW] Understanding Points of Correspondence between Sentences for Abstractive Summarization

Logan Lebanoff, John Muchovej, Franck Dernoncourt, Doo Soon Kim, Lidan Wang, Walter Chang and Fei Liu

[SRW] Noise-Based Augmentation Techniques for Emotion Datasets: What do we Recommend?

Mimansa Jaiswal and Emily Mower Provost

[SRW] Logical Inferences with Comparatives and Generalized Quantifiers

Izumi Haruta, Koji Mineshima and Daisuke Bekki

13:30–14:15 Demo Session 3C

[Demo] Embedding-based Scientific Literature Discovery in a Text Editor Application

Onur Gökçe, Jonathan Prada, Nikola I. Nikolov, Nianlong Gu and Richard H.R. Hahnloser

[Demo] Penman: An Open-Source Library and Tool for AMR Graphs

Michael Wayne Goodman

Wednesday, July 8, 2020 UTC+0 (continued)

14:00–15:00 Plenary

14:00–14:45 *Keynote 2 Video Livestream: Josh Tenenbaum*

14:45–15:15 *Keynote 2 Live Q&A: Josh Tenenbaum*

15:15–15:25 *Best Paper Award Ceremony*

15:25–15:37 *Future Conferences*

15:37–15:49 *Closing Remarks*

17:00–17:45 Demo Session 4A

[Demo] Nakdan: Professional Hebrew Diacritizer

Avi Shmidman, Shaltiel Shmidman, Moshe Koppel and Yoav Goldberg

[Demo] SUPPAI: Finding Evidence for Supplement-Drug Interactions

Lucy Wang, Oyvind Tafjord, Arman Cohan, Sarthak Jain, Sam Skjonsberg, Carissa Schoenick, Nick Botner and Waleed Ammar

17:00–18:00 Session 14A Generation-13

[TACL] A Knowledge-Enhanced Pretraining Model for Commonsense Story Generation

Jian Guan, Fei Huang, Minlie Huang, Zhihao Zhao, Xiaoyan Zhu

[Long] BART: Denoising Sequence-to-Sequence Pre-training for Natural Language Generation, Translation, and Comprehension

Mike Lewis, Yinhan Liu, Naman Goyal, Marjan Ghazvininejad, Abdelrahman Mohamed, Omer Levy, Veselin Stoyanov and Luke Zettlemoyer

[Long] BLEURT: Learning Robust Metrics for Text Generation

Thibault Sellam, Dipanjan Das and Ankur Parikh

[Long] Distilling Knowledge Learned in BERT for Text Generation

Yen-Chun Chen, Zhe Gan, Yu Cheng, Jingzhou Liu and Jingjing Liu

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] ESPRIT: Explaining Solutions to Physical Reasoning Tasks

Nazneen Fatema Rajani, Rui Zhang, Yi Chern Tan, Stephan Zheng, Jeremy Weiss, Aadit Vyas, Abhijit Gupta, Caiming Xiong, Richard Socher and Dragomir Radev

[Long] Iterative Edit-Based Unsupervised Sentence Simplification

Dhruv Kumar, Lili Mou, Lukasz Golab and Olga Vechtomova

[Long] Logical Natural Language Generation from Open-Domain Tables

Wenhu Chen, Jianshu Chen, Yu Su, Zhiyu Chen and William Yang Wang

[Long] Neural CRF Model for Sentence Alignment in Text Simplification

Chao Jiang, Mounica Maddela, Wuwei Lan, Yang Zhong and Wei Xu

[Long] One Size Does Not Fit All: Generating and Evaluating Variable Number of Keyphrases

Xingdi Yuan, Tong Wang, Rui Meng, Khushboo Thaker, Peter Brusilovsky, Daqing He and Adam Trischler

[Long] R³: Reverse, Retrieve, and Rank for Sarcasm Generation with Commonsense Knowledge

Tuhin Chakrabarty, Debanjan Ghosh, Smaranda Muresan and Nanyun Peng

[Short] Shape of Synth to Come: Why We Should Use Synthetic Data for English Surface Realization

Henry Elder, Robert Burke, Alexander O'Connor and Jennifer Foster

[Long] Structural Information Preserving for Graph-to-Text Generation

Linfeng Song, Ante Wang, Jinsong Su, Yue Zhang, Kun Xu, Yubin Ge and Dong Yu

[TAACL] Syntax-guided Controlled Generation of Paraphrases

Ashutosh Kumar, Kabir Ahuja, Raghuram Vadapalli, Partha Talukdar

Wednesday, July 8, 2020 UTC+0 (continued)

17:00–18:00 Session 14A Information Extraction-9

[Long] A Joint Neural Model for Information Extraction with Global Features

Ying Lin, Heng Ji, Fei Huang and Lingfei Wu

[Short] A Two-Stage Masked LM Method for Term Set Expansion

Guy Kushilevitz, Shaul Markovitch and Yoav Goldberg

[Long] Document-Level Event Role Filler Extraction using Multi-Granularity Contextualized Encoding

Xinya Du and Claire Cardie

[Long] Exploiting the Syntax-Model Consistency for Neural Relation Extraction

Amir Pouran Ben Veyseh, Franck Dernoncourt, Dejing Dou and Thien Huu Nguyen

[Long] From English to Code-Switching: Transfer Learning with Strong Morphological Clues

Gustavo Aguilar and Tamar Solorio

[TACL] Improving Candidate Generation for Low-resource Cross-lingual Entity Linking

Shuyan Zhou, Shruti Rijhwani, John Wieting, Jaime Carbonell, Graham Neubig

[Long] Learning Interpretable Relationships between Entities, Relations and Concepts via Bayesian Structure Learning on Open Domain Facts

Jingyuan Zhang, Mingming Sun, Yue Feng and Ping Li

[Long] Multi-Sentence Argument Linking

Seth Ebner, Patrick Xia, Ryan Culkin, Kyle Rawlins and Benjamin Van Durme

[Long] Rationalizing Medical Relation Prediction from Corpus-level Statistics

Zhen Wang, Jennifer Lee, Simon Lin and Huan Sun

[Long] Sources of Transfer in Multilingual Named Entity Recognition

David Mueller, Nicholas Andrews and Mark Dredze

[Long] ZeroShotCeres: Zero-Shot Relation Extraction from Semi-Structured Web-pages

Colin Lockard, Prashant Shiralkar, Xin Luna Dong and Hannaneh Hajishirzi

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Soft Gazetteers for Low-Resource Named Entity Recognition
Shruti Rijhwani, Shuyan Zhou, Graham Neubig and Jaime Carbonell

17:00–18:00 Session 14A Information Retrieval and Text Mining-7

[Long] A Prioritization Model for Suicidality Risk Assessment
Han-Chin Shing, Philip Resnik and Douglas Oard

[Long] CluHTM - Semantic Hierarchical Topic Modeling based on CluWords
Felipe Viegas, Washington Cunha, Christian Gomes, Antônio Pereira, Leonardo Rocha and Marcos Goncalves

[Long] Document Translation vs. Query Translation for Cross-Lingual Information Retrieval in the Medical Domain
Shadi Saleh and Pavel Pecina

[Long] Empower Entity Set Expansion via Language Model Probing
Yunyi Zhang, Jiaming Shen, Jingbo Shang and Jiawei Han

[Long] Feature Projection for Improved Text Classification
Qi Qin, Wenpeng Hu and Bing Liu

17:00–18:00 Session 14A Language Grounding to Vision, Robotics and Beyond-8

[Short] A negative case analysis of visual grounding methods for VQA
Robik Shrestha, Kushal Kafle and Christopher Kanan

[Long] CompGuessWhat?!: A Multi-task Evaluation Framework for Grounded Language Learning
Alessandro Suglia, Ioannis Konstas, Andrea Vanzo, Emanuele Bastianelli, Desmond Elliott, Stella Frank and Oliver Lemon

[Long] History for Visual Dialog: Do we really need it?
Shubham Agarwal, Trung Bui, Joon-Young Lee, Ioannis Konstas and Verena Rieser

[Long] Mapping Natural Language Instructions to Mobile UI Action Sequences
Yang Li, Jiacong He, Xin Zhou, Yuan Zhang and Jason Baldridge

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Multi-agent Communication meets Natural Language: Synergies between Functional and Structural Language Learning

Angeliki Lazaridou, Anna Potapenko and Olivier Tieleman

[Long] TVQA+: Spatio-Temporal Grounding for Video Question Answering

Jie Lei, Licheng Yu, Tamara Berg and Mohit Bansal

[Long] Unsupervised Multimodal Neural Machine Translation with Pseudo Visual Pivoting

Po-Yao Huang, Junjie Hu, Xiaojun Chang and Alexander Hauptmann

17:00–18:00 Session 14A Phonology, Morphology and Word Segmentation-6

[Long] A Multitask Learning Approach for Diacritic Restoration

Sawsan Alqahtani, Ajay Mishra and Mona Diab

[Long] Frugal Paradigm Completion

Alexander Erdmann, Tom Kenter, Markus Becker and Christian Schallhart

[Long] Improving Chinese Word Segmentation with Wordhood Memory Networks

Yuanhe Tian, Yan Song, Fei Xia, Tong Zhang and Yonggang Wang

[Long] Joint Chinese Word Segmentation and Part-of-speech Tagging via Two-way Attentions of Auto-analyzed Knowledge

Yuanhe Tian, Yan Song, Xiang Ao, Fei Xia, Xiaojun Quan, Tong Zhang and Yonggang Wang

[Long] Joint Diacritization, Lemmatization, Normalization, and Fine-Grained Morphological Tagging

Nasser Zalmout and Nizar Habash

[Long] Phonetic and Visual Priors for Decipherment of Informal Romanization

Maria Ryskina, Matthew R. Gormley and Taylor Berg-Kirkpatrick

[TACL] Phonotactic Complexity and Its Trade-offs

Tiago Pimentel, Brian Roark, Ryan D. Cotterell

[Long] The Paradigm Discovery Problem

Alexander Erdmann, Micha Elsner, Shijie Wu, Ryan Cotterell and Nizar Habash

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Supervised Grapheme-to-Phoneme Conversion of Orthographic Schwas in Hindi and Punjabi

Aryaman Arora, Luke Gessler and Nathan Schneider

17:00–18:00 Session 14A Semantics: Sentence Level-9

[Short] Active Learning for Coreference Resolution using Discrete Annotation

Belinda Z. Li, Gabriel Stanovsky and Luke Zettlemoyer

[Long] Beyond Possession Existence: Duration and Co-Possession

Dhivya Chinnappa, Srikala Murugan and Eduardo Blanco

[TACL] Decoding Brain Activity Associated with Literal and Metaphoric Sentence Comprehension using Distributional Semantic Models

Vesna G. Djokic, Jean Maillard, Luana Bulat, Ekaterina Shutova

[Long] Don't Stop Pretraining: Adapt Language Models to Domains and Tasks

Suchin Gururangan, Ana Marasović, Swabha Swayamdipta, Kyle Lo, Iz Beltagy, Doug Downey and Noah A. Smith

[Short] Estimating Mutual Information Between Dense Word Embeddings

Vitalii Zhelezniak, Aleksandar Savkov and Nils Hammerla

[Long] Exploring Unexplored Generalization Challenges for Cross-Database Semantic Parsing

Alane Suhr, Ming-Wei Chang, Peter Shaw and Kenton Lee

[Long] Predicting the Focus of Negation: Model and Error Analysis

Md Mosharaf Hossain, Kathleen Hamilton, Alexis Palmer and Eduardo Blanco

[Long] RAT-SQL: Relation-Aware Schema Encoding and Linking for Text-to-SQL Parsers

Bailin Wang, Richard Shin, Xiaodong Liu, Oleksandr Polozov and Matthew Richardson

[Long] Structured Tuning for Semantic Role Labeling

Tao Li, Parth Anand Jawale, Martha Palmer and Vivek Srikumar

[Long] TaBERT: Pretraining for Joint Understanding of Textual and Tabular Data

Pengcheng Yin, Graham Neubig, Wen-tau Yih and Sebastian Riedel

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Universal Compositional Semantic Parsing

Elias Stengel-Eskin, Aaron Steven White, Sheng Zhang and Benjamin Van Durme

[Long] Unsupervised Cross-lingual Representation Learning at Scale

Alexis Conneau, Kartikay Khandelwal, Naman Goyal, Vishrav Chaudhary, Guillaume Wenzek, Francisco Guzmán, Edouard Grave, Myle Ott, Luke Zettlemoyer and Veselin Stoyanov

17:00–18:00 Session 14A Student Research Workshop

[SRW] Topic Balancing with Additive Regularization of Topic Models

Eugeniia Veselova and Konstantin Vorontsov

[SRW] Combining Subword Representations into Word-level Representations in the Transformer Architecture

Noe Casas, Marta R. Costa-jussà and José A. R. Fonollosa

[SRW] Exploring Interpretability in Event Extraction: Multitask Learning of a Neural Event Classifier and an Explanation Decoder

Zheng Tang, Gus Hahn-Powell and Mihai Surdeanu

[SRW] Dominance as an Indicator of Rapport and Learning in Human-Agent Communication

Amanda Buddemeyer, Xiaoyi Tian and Erin Walker

17:45–18:30 Demo Session 4B

[Demo] Conversation Learner - A Machine Teaching Tool for Building Dialog Managers for Task-Oriented Dialog Systems

Swadheen Shukla, Lars Liden, Shahin Shayandeh, Eslam Kamal, Jinchao Li, Matt Mazzola, Thomas Park, Baolin Peng and Jianfeng Gao

[Demo] LEAN-LIFE: A Label-Efficient Annotation Framework Towards Learning from Explanation

Dong-Ho Lee, Rahul Khanna, Bill Yuchen Lin, Seyeon Lee, Qinyuan Ye, Elizabeth Boschee, Leonardo Neves and Xiang Ren

Wednesday, July 8, 2020 UTC+0 (continued)

18:00–19:00 Session 14B Information Extraction-10

[Long] A Generate-and-Rank Framework with Semantic Type Regularization for Biomedical Concept Normalization

Dongfang Xu, Zeyu Zhang and Steven Bethard

[Long] Hierarchical Entity Typing via Multi-level Learning to Rank

Tongfei Chen, Yunmo Chen and Benjamin Van Durme

[Long] Multi-Domain Named Entity Recognition with Genre-Aware and Agnostic Inference

Jing Wang, Mayank Kulkarni and Daniel Preotiuc-Pietro

[Long] TXtract: Taxonomy-Aware Knowledge Extraction for Thousands of Product Categories

Giannis Karamanolakis, Jun Ma and Xin Luna Dong

[Short] TriggerNER: Learning with Entity Triggers as Explanations for Named Entity Recognition

Bill Yuchen Lin, Dong-Ho Lee, Ming Shen, Ryan Moreno, Xiao Huang, Prashant Shiralkar and Xiang Ren

18:00–19:00 Session 14B Machine Learning for NLP-16

[Long] A Mixture of $h - 1$ Heads is Better than h Heads

Hao Peng, Roy Schwartz, Dianqi Li and Noah A. Smith

[Long] CamemBERT: a Tasty French Language Model

Louis Martin, Benjamin Muller, Pedro Javier Ortiz Suárez, Yoann Dupont, Laurent Romary, Éric de la Clergerie, Djamé Seddah and Benoît Sagot

[Short] Contrastive Self-Supervised Learning for Commonsense Reasoning

Tassilo Klein and Moin Nabi

[Short] Do Transformers Need Deep Long-Range Memory?

Jack Rae and Ali Razavi

[Long] Generalized Entropy Regularization or: There's Nothing Special about Label Smoothing

Clara Meister, Elizabeth Salesky and Ryan Cotterell

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Improving Disentangled Text Representation Learning with Information-Theoretic Guidance

Pengyu Cheng, Martin Renqiang Min, Dinghan Shen, Christopher Malon, Yizhe Zhang, Yitong Li and Lawrence Carin

[Long] The Right Tool for the Job: Matching Model and Instance Complexities

Roy Schwartz, Gabriel Stanovsky, Swabha Swayamdipta, Jesse Dodge and Noah A. Smith

18:00–19:00 Session 14B Machine Translation-16

[Long] Addressing Posterior Collapse with Mutual Information for Improved Variational Neural Machine Translation

Arya D. McCarthy, Xian Li, Jiatao Gu and Ning Dong

[Long] Balancing Training for Multilingual Neural Machine Translation

Xinyi Wang, Yulia Tsvetkov and Graham Neubig

[Short] Classification-Based Self-Learning for Weakly Supervised Bilingual Lexicon Induction

Mladen Karan, Ivan Vulić, Anna Korhonen and Goran Glavaš

[Short] Evaluating Robustness to Input Perturbations for Neural Machine Translation

Xing Niu, Prashant Mathur, Georgiana Dinu and Yaser Al-Onaizan

[Long] Gender in Danger? Evaluating Speech Translation Technology on the MuST-SHE Corpus

Luisa Bentivogli, Beatrice Savoldi, Matteo Negri, Mattia A. Di Gangi, Roldano Cattoni and Marco Turchi

[Long] In Neural Machine Translation, What Does Transfer Learning Transfer?

Alham Fikri Aji, Nikolay Bogoychev, Kenneth Heafield and Rico Sennrich

[Long] Parallel Corpus Filtering via Pre-trained Language Models

Boliang Zhang, Ajay Nagesh and Kevin Knight

[Long] Reducing Gender Bias in Neural Machine Translation as a Domain Adaptation Problem

Danielle Saunders and Bill Byrne

[Short] Regularized Context Gates on Transformer for Machine Translation

Xintong Li, Lema Liu, Rui Wang, Guoping Huang and Max Meng

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Unsupervised Domain Clusters in Pretrained Language Models

Roe Aharoni and Yoav Goldberg

[Short] Using Context in Neural Machine Translation Training Objectives

Danielle Saunders, Felix Stahlberg and Bill Byrne

[Short] Variational Neural Machine Translation with Normalizing Flows

Hendra Setiawan, Matthias Sperber, Udhyakumar Nallasamy and Matthias Paulik

18:00–19:00 Session 14B NLP Applications-11

[Short] A Multi-Perspective Architecture for Semantic Code Search

Rajarshi Haldar, Lingfei Wu, JinJun Xiong and Julia Hockenmaier

[Short] Automated Topical Component Extraction Using Neural Network Attention Scores from Source-based Essay Scoring

Haoran Zhang and Diane Litman

[Short] Clinical Concept Linking with Contextualized Neural Representations

Elliot Schumacher, Andriy Mulyar and Mark Dredze

[Long] DeSePtion: Dual Sequence Prediction and Adversarial Examples for Improved Fact-Checking

Christopher Hidey, Tuhin Chakrabarty, Tariq Alhindi, Siddharth Varia, Kriste Krstovski, Mona Diab and Smaranda Muresan

[Long] Estimating predictive uncertainty for rumour verification models

Elena Kochkina and Maria Liakata

[Short] Let Me Choose: From Verbal Context to Font Selection

Amirreza Shirani, Franck Deroncourt, Jose Echevarria, Paul Asente, Nedim Lipka and Tamar Solorio

[TACL] Machine Learning Driven Language Assessment

Burr Settles, Masato Hagiwara, Geoffrey T. LaFlair

[Long] Multi-Label and Multilingual News Framing Analysis

Afra Feyza Akyürek, Lei Guo, Randa Elanwar, Prakash Ishwar, Margrit Betke and Derry Tanti Wijaya

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Predicting Performance for Natural Language Processing Tasks

Mengzhou Xia, Antonios Anastasopoulos, Ruochen Xu, Yiming Yang and Graham Neubig

[Long] ScriptWriter: Narrative-Guided Script Generation

Yutao Zhu, Ruihua Song, Zhicheng Dou, Jian-Yun NIE and Jin Zhou

[Long] Should All Cross-Lingual Embeddings Speak English?

Antonios Anastasopoulos and Graham Neubig

[Short] Smart To-Do: Automatic Generation of To-Do Items from Emails

Sudipto Mukherjee, Subhabrata Mukherjee, Marcello Hasegawa, Ahmed Hassan Awadallah and Ryen White

[Short] Understanding Advertisements with BERT

Kanika Kalra, Bhargav Kurma, Silpa Vadakkeveetil Sreelatha, Manasi Patwardhan and Shirish Karande

18:00–19:00 Session 14B Semantics: Lexical-8

[CL] LESSLEX: Linking Multilingual Embeddings to SenSe Representations of Lexical Items

Davide Colla, Enrico Mensa, Daniele P. Radicioni

[Short] Non-Linear Instance-Based Cross-Lingual Mapping for Non-Isomorphic Embedding Spaces

Goran Glavaš and Ivan Vulić

Wednesday, July 8, 2020 UTC+0 (continued)

18:00–19:00 Session 14B Semantics: Textual Inference and Other Areas of Semantics-6

[Long] Are Natural Language Inference Models IMPPRESSive? Learning IMPLi-cature and PRESupposition

Paloma Jeretic, Alex Warstadt, Suvrat Bhooshan and Adina Williams

[Long] Benchmarking Multimodal Regex Synthesis with Complex Structures

Xi Ye, Qiaochu Chen, Isil Dillig and Greg Durrett

[Long] End-to-End Bias Mitigation by Modelling Biases in Corpora

Rabeeh Karimi Mahabadi, Yonatan Belinkov and James Henderson

[Long] Generating Fact Checking Explanations

Pepa Atanasova, Jakob Grue Simonsen, Christina Lioma and Isabelle Augenstein

[Long] Mind the Trade-off: Debiasing NLU Models without Degrading the In-distribution Performance

Prasetya Ajie Utama, Nafise Sadat Moosavi and Iryna Gurevych

[Long] NILE : Natural Language Inference with Faithful Natural Language Explanations

Sawan Kumar and Partha Talukdar

[Long] Neural Mixed Counting Models for Dispersed Topic Discovery

Jiemin Wu, Yanghui Rao, Zusheng Zhang, Haoran Xie, Qing Li, Fu Lee Wang and Ziyi Chen

[Long] QuASE: Question-Answer Driven Sentence Encoding

Hangfeng He, Qiang Ning and Dan Roth

[Long] Temporal Common Sense Acquisition with Minimal Supervision

Ben Zhou, Qiang Ning, Daniel Khashabi and Dan Roth

[Long] The Sensitivity of Language Models and Humans to Winograd Schema Per-turbations

Mostafa Abdou, Vinit Ravishankar, Maria Barrett, Yonatan Belinkov, Desmond El-liott and Anders Søgaard

[Long] Towards Robustifying NLI Models Against Lexical Dataset Biases

Xiang Zhou and Mohit Bansal

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Uncertain Natural Language Inference

Tongfei Chen, Zhengping Jiang, Adam Poliak, Keisuke Sakaguchi and Benjamin Van Durme

18:00–19:00 Session 14B Syntax: Tagging, Chunking and Parsing-5

[TACL] Deep Contextualized Self-training for Low Resource Dependency Parsing
Guy Rotman, Roi Reichart

[Long] Extracting Headless MWEs from Dependency Parse Trees: Parsing, Tagging, and Joint Modeling Approaches

Tianze Shi and Lillian Lee

[Short] Revisiting Higher-Order Dependency Parsers

Erick Fonseca and André F. T. Martins

[Long] SeqVAT: Virtual Adversarial Training for Semi-Supervised Sequence Labeling

Luoxin Chen, Weitong Ruan, Xinyue Liu and Jianhua Lu

[Short] Tetra-Tagging: Word-Synchronous Parsing with Linear-Time Inference

Nikita Kitaev and Dan Klein

[Short] Treebank Embedding Vectors for Out-of-domain Dependency Parsing

Joachim Wagner, James Barry and Jennifer Foster

Wednesday, July 8, 2020 UTC+0 (continued)

18:00–19:00 Session 14B Student Research Workshop

[SRW] Why is penguin more similar to polar bear than to sea gull? Analyzing conceptual knowledge in distributional models
Pia Sommerauer

[SRW] Pointwise Paraphrase Appraisal is Potentially Problematic
Hannah Chen, Yangfeng Ji and David Evans

[SRW] A Geometry-Inspired Attack for Generating Natural Language Adversarial Examples
Zhao Meng and Roger Wattenhofer

[SRW] Enhancing Word Embeddings with Knowledge Extracted from Lexical Resources
Magdalena Biesialska, Bardia Rafeian and Marta R. Costa-jussà

18:30–19:15 Demo Session 4C

[Demo] MMPE: A Multi-Modal Interface using Handwriting, Touch Reordering, and Speech Commands for Post-Editing Machine Translation
Nico Herbig, Santanu Pal, Tim Düwel, Kalliopi Meladaki, Mahsa Monshizadeh, Vladislav Hnatovskiy, Antonio Krüger and Josef van Genabith

[Demo] What's The Latest? A Question-driven News Chatbot
Philippe Laban, John Canny and Marti A. Hearst

20:00–20:45 Demo Session 5A

[Demo] MixingBoard: a Knowledgeable Stylized Integrated Text Generation Platform
Xiang Gao, Michel Galley and Bill Dolan

[Demo] DIALOGPT : Large-Scale Generative Pre-training for Conversational Response Generation
Yizhe Zhang, Siqi Sun, Michel Galley, Yen-Chun Chen, Chris Brockett, Xiang Gao, Jianfeng Gao, Jingjing Liu and Bill Dolan

[Demo] SUPPAI: Finding Evidence for Supplement-Drug Interactions
Lucy Wang, Oyvind Tafjord, Arman Cohan, Sarthak Jain, Sam Skjonsberg, Carissa Schoenick, Nick Botner and Waleed Ammar

Wednesday, July 8, 2020 UTC+0 (continued)

20:00–21:00 Session 15A Generation-14

[TACL] A Knowledge-Enhanced Pretraining Model for Commonsense Story Generation

Jian Guan, Fei Huang, Minlie Huang, Zhihao Zhao, Xiaoyan Zhu

[Long] BART: Denoising Sequence-to-Sequence Pre-training for Natural Language Generation, Translation, and Comprehension

Mike Lewis, Yinhan Liu, Naman Goyal, Marjan Ghazvininejad, Abdelrahman Mohamed, Omer Levy, Veselin Stoyanov and Luke Zettlemoyer

[Long] BLEURT: Learning Robust Metrics for Text Generation

Thibault Sellam, Dipanjan Das and Ankur Parikh

[Long] Distilling Knowledge Learned in BERT for Text Generation

Yen-Chun Chen, Zhe Gan, Yu Cheng, Jingzhou Liu and Jingjing Liu

[Long] Improving Image Captioning with Better Use of Caption

Zhan Shi, Xu Zhou, Xipeng Qiu and Xiaodan Zhu

[Long] Iterative Edit-Based Unsupervised Sentence Simplification

Dhruv Kumar, Lili Mou, Lukasz Golab and Olga Vechtomova

[Long] Neural CRF Model for Sentence Alignment in Text Simplification

Chao Jiang, Mounica Maddela, Wuwei Lan, Yang Zhong and Wei Xu

[Long] One Size Does Not Fit All: Generating and Evaluating Variable Number of Keyphrases

Xingdi Yuan, Tong Wang, Rui Meng, Khushboo Thaker, Peter Brusilovsky, Daqing He and Adam Trischler

Wednesday, July 8, 2020 UTC+0 (continued)

20:00–21:00 Session 15A Information Extraction-11

[Long] A Generate-and-Rank Framework with Semantic Type Regularization for Biomedical Concept Normalization

Dongfang Xu, Zeyu Zhang and Steven Bethard

[Long] A Joint Neural Model for Information Extraction with Global Features

Ying Lin, Heng Ji, Fei Huang and Lingfei Wu

[Short] A Two-Step Approach for Implicit Event Argument Detection

Zhisong Zhang, Xiang Kong, Zhengzhong Liu, Xuezhe Ma and Eduard Hovy

[Long] Document-Level Event Role Filler Extraction using Multi-Granularity Contextualized Encoding

Xinya Du and Claire Cardie

[Long] Learning Interpretable Relationships between Entities, Relations and Concepts via Bayesian Structure Learning on Open Domain Facts

Jingyuan Zhang, Mingming Sun, Yue Feng and Ping Li

[Long] Multi-Sentence Argument Linking

Seth Ebner, Patrick Xia, Ryan Culkin, Kyle Rawlins and Benjamin Van Durme

[Short] Revisiting Unsupervised Relation Extraction

Thy Thy Tran, Phong Le and Sophia Ananiadou

[Long] Temporally-Informed Analysis of Named Entity Recognition

Shruti Rijhwani and Daniel Preotiuc-Pietro

[Short] Towards Open Domain Event Trigger Identification using Adversarial Domain Adaptation

Aakanksha Naik and Carolyn Rose

[Long] ZeroShotCeres: Zero-Shot Relation Extraction from Semi-Structured Web-pages

Colin Lockard, Prashant Shiralkar, Xin Luna Dong and Hannaneh Hajishirzi

Wednesday, July 8, 2020 UTC+0 (continued)

20:00–21:00 Session 15A Information Retrieval and Text Mining-8

[Long] A Prioritization Model for Suicidality Risk Assessment

Han-Chin Shing, Philip Resnik and Douglas Oard

[Long] CluHTM - Semantic Hierarchical Topic Modeling based on CluWords

Felipe Viegas, Washington Cunha, Christian Gomes, Antônio Pereira, Leonardo Rocha and Marcos Goncalves

[Long] Empower Entity Set Expansion via Language Model Probing

Yunyi Zhang, Jiaming Shen, Jingbo Shang and Jiawei Han

[Long] Feature Projection for Improved Text Classification

Qi Qin, Wenpeng Hu and Bing Liu

[Short] Learning Robust Models for e-Commerce Product Search

Thanh Nguyen, Nikhil Rao and Karthik Subbian

20:00–21:00 Session 15A Language Grounding to Vision, Robotics and Beyond-9

[Short] A negative case analysis of visual grounding methods for VQA

Robik Shrestha, Kushal Kafle and Christopher Kanan

[Long] Cross-Modality Relevance for Reasoning on Language and Vision

Chen Zheng, Quan Guo and Parisa Kordjamshidi

[Long] History for Visual Dialog: Do we really need it?

Shubham Agarwal, Trung Bui, Joon-Young Lee, Ioannis Konstas and Verena Rieser

[Short] Knowledge Supports Visual Language Grounding: A Case Study on Colour Terms

Simeon Schüz and Sina Zarriß

[Long] Learning Web-based Procedures by Reasoning over Explanations and Demonstrations in Context

Shashank Srivastava, Oleksandr Polozov, Nebojsa Jojic and Christopher Meek

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] Mapping Natural Language Instructions to Mobile UI Action Sequences
Yang Li, Jiacong He, Xin Zhou, Yuan Zhang and Jason Baldridge

[Long] Refer360°: A Referring Expression Recognition Dataset in 360° Images
Volkan Cirik, Taylor Berg-Kirkpatrick and Louis-Philippe Morency

[Long] TVQA+: Spatio-Temporal Grounding for Video Question Answering
Jie Lei, Licheng Yu, Tamara Berg and Mohit Bansal

[Long] Unsupervised Multimodal Neural Machine Translation with Pseudo Visual Pivoting
Po-Yao Huang, Junjie Hu, Xiaojun Chang and Alexander Hauptmann

[Short] Words Aren't Enough, Their Order Matters: On the Robustness of Grounding Visual Referring Expressions
Arjun Akula, Spandana Gella, Yaser Al-Onaizan, Song-Chun Zhu and Siva Reddy

20:00–21:00 Session 15A Machine Translation-17

[Long] Addressing Posterior Collapse with Mutual Information for Improved Variational Neural Machine Translation
Arya D. McCarthy, Xian Li, Jiatao Gu and Ning Dong

[Short] Evaluating Robustness to Input Perturbations for Neural Machine Translation
Xing Niu, Prashant Mathur, Georgiana Dinu and Yaser Al-Onaizan

[Long] Hard-Coded Gaussian Attention for Neural Machine Translation
Weiqiu You, Simeng Sun and Mohit Iyyer

[Long] Learning a Multi-Domain Curriculum for Neural Machine Translation
Wei Wang, Ye Tian, Jiquan Ngiam, Yinfei Yang, Isaac Caswell and Zarana Parekh

[Short] Tagged Back-translation Revisited: Why Does It Really Work?
Benjamin Marie, Raphael Rubino and Atsushi Fujita

Wednesday, July 8, 2020 UTC+0 (continued)

20:00–21:00 Session 15A Semantics: Sentence Level-10

[Short] Active Learning for Coreference Resolution using Discrete Annotation

Belinda Z. Li, Gabriel Stanovsky and Luke Zettlemoyer

[TACL] Decoding Brain Activity Associated with Literal and Metaphoric Sentence Comprehension using Distributional Semantic Models

Vesna G. Djokic, Jean Maillard, Luana Bulat, Ekaterina Shutova

[Long] Emerging Cross-lingual Structure in Pretrained Language Models

Alexis Conneau, Shijie Wu, Haoran Li, Luke Zettlemoyer and Veselin Stoyanov

[Short] Estimating Mutual Information Between Dense Word Embeddings

Vitalii Zhelezniak, Aleksandar Savkov and Nils Hammerla

[Long] Exploring Unexplored Generalization Challenges for Cross-Database Semantic Parsing

Alane Suhr, Ming-Wei Chang, Peter Shaw and Kenton Lee

[Long] Good-Enough Compositional Data Augmentation

Jacob Andreas

[Short] Incorporating External Knowledge through Pre-training for Natural Language to Code Generation

Frank F. Xu, Zhengbao Jiang, Pengcheng Yin, Bogdan Vasilescu and Graham Neubig

[Long] Predicting the Focus of Negation: Model and Error Analysis

Md Mosharaf Hossain, Kathleen Hamilton, Alexis Palmer and Eduardo Blanco

[Long] TaBERT: Pretraining for Joint Understanding of Textual and Tabular Data

Pengcheng Yin, Graham Neubig, Wen-tau Yih and Sebastian Riedel

[Long] Unsupervised Cross-lingual Representation Learning at Scale

Alexis Conneau, Kartikay Khandelwal, Naman Goyal, Vishrav Chaudhary, Guillaume Wenzek, Francisco Guzmán, Edouard Grave, Myle Ott, Luke Zettlemoyer and Veselin Stoyanov

Wednesday, July 8, 2020 UTC+0 (continued)

20:00–21:00 Session 15A Semantics: Textual Inference and Other Areas of Semantics-7

[Long] Are Natural Language Inference Models IMPPRESSive? Learning IMPLi-cature and PRESupposition

Paloma Jeretic, Alex Warstadt, Suvrat Bhooshan and Adina Williams

[Long] End-to-End Bias Mitigation by Modelling Biases in Corpora

Rabeeh Karimi Mahabadi, Yonatan Belinkov and James Henderson

[Long] Mind the Trade-off: Debiasing NLU Models without Degrading the In-distribution Performance

Prasetya Ajie Utama, Nafise Sadat Moosavi and Iryna Gurevych

[Long] NILE : Natural Language Inference with Faithful Natural Language Explanations

Sawan Kumar and Partha Talukdar

[Long] QuASE: Question-Answer Driven Sentence Encoding

Hangfeng He, Qiang Ning and Dan Roth

[Long] Towards Robustifying NLI Models Against Lexical Dataset Biases

Xiang Zhou and Mohit Bansal

[Short] Uncertain Natural Language Inference

Tongfei Chen, Zhengping Jiang, Adam Poliak, Keisuke Sakaguchi and Benjamin Van Durme

Wednesday, July 8, 2020 UTC+0 (continued)

20:00–21:00 Session 15A Student Research Workshop

[SRW] Checkpoint Reranking: An Approach to Select Better Hypothesis for Neural Machine Translation Systems

Vinay Pandramish and Dipti Misra Sharma

[SRW] Story-level Text Style Transfer: A Proposal

Yusu Qian

[SRW] Non-Topical Coherence in Social Talk: A Call for Dialogue Model Enrichment

Alex Luu and Sophia A. Malamud

[SRW] Compositional Generalization by Factorizing Alignment and Translation

Jacob Russin, Jason Jo, Randall O'Reilly and Yoshua Bengio

20:45–21:30 Demo Session 5B

[Demo] NSTM: Real-Time Query-Driven News Overview Composition at Bloomberg

Joshua Bambrick, Minjie Xu, Andy Almonte, Igor Malioutov, Guim Perarnau, Vittorio Selo and Iat Chong Chan

[Demo] LEAN-LIFE: A Label-Efficient Annotation Framework Towards Learning from Explanation

Dong-Ho Lee, Rahul Khanna, Bill Yuchen Lin, Seyeon Lee, Qinyuan Ye, Elizabeth Boschee, Leonardo Neves and Xiang Ren

21:00–22:00 Session 15B Generation-15

[Long] ESPRIT: Explaining Solutions to Physical Reasoning Tasks

Nazneen Fatema Rajani, Rui Zhang, Yi Chern Tan, Stephan Zheng, Jeremy Weiss, Aadit Vyas, Abhijit Gupta, Caiming Xiong, Richard Socher and Dragomir Radev

[Long] Logical Natural Language Generation from Open-Domain Tables

Wenhu Chen, Jianshu Chen, Yu Su, Zhiyu Chen and William Yang Wang

[Long] R³: Reverse, Retrieve, and Rank for Sarcasm Generation with Commonsense Knowledge

Tuhin Chakrabarty, Debanjan Ghosh, Smaranda Muresan and Nanyun Peng

[Long] Structural Information Preserving for Graph-to-Text Generation

Linfeng Song, Ante Wang, Jinsong Su, Yue Zhang, Kun Xu, Yubin Ge and Dong Yu

Wednesday, July 8, 2020 UTC+0 (continued)

[Short] Toward Better Storylines with Sentence-Level Language Models
Daphne Ippolito, David Grangier, Douglas Eck and Chris Callison-Burch

21:00–22:00 Session 15B Information Extraction-12

[Long] Exploiting the Syntax-Model Consistency for Neural Relation Extraction
Amir Pouran Ben Veyseh, Franck Dernoncourt, Dejing Dou and Thien Huu Nguyen

[Long] From English to Code-Switching: Transfer Learning with Strong Morphological Clues
Gustavo Aguilar and Thamar Solorio

[Long] Hierarchical Entity Typing via Multi-level Learning to Rank
Tongfei Chen, Yunmo Chen and Benjamin Van Durme

[Long] Machine Reading of Historical Events
Or Honovich, Lucas Torroba Hennigen, Omri Abend and Shay B. Cohen

[Long] Multi-Domain Named Entity Recognition with Genre-Aware and Agnostic Inference
Jing Wang, Mayank Kulkarni and Daniel Preotiuc-Pietro

[Long] Rationalizing Medical Relation Prediction from Corpus-level Statistics
Zhen Wang, Jennifer Lee, Simon Lin and Huan Sun

[Long] Representation Learning for Information Extraction from Form-like Documents
Bodhisattwa Prasad Majumder, Navneet Potti, Sandeep Tata, James Bradley Wendt, Qi Zhao and Marc Najork

[Long] SciREX: A Challenge Dataset for Document-Level Information Extraction
Sarthak Jain, Madeleine van Zuylen, Hannaneh Hajishirzi and Iz Beltagy

[Short] Soft Gazetteers for Low-Resource Named Entity Recognition
Shruti Rijhwani, Shuyan Zhou, Graham Neubig and Jaime Carbonell

[Long] Sources of Transfer in Multilingual Named Entity Recognition
David Mueller, Nicholas Andrews and Mark Dredze

Wednesday, July 8, 2020 UTC+0 (continued)

[Long] TXtract: Taxonomy-Aware Knowledge Extraction for Thousands of Product Categories

Giannis Karamanolakis, Jun Ma and Xin Luna Dong

[Short] TriggerNER: Learning with Entity Triggers as Explanations for Named Entity Recognition

Bill Yuchen Lin, Dong-Ho Lee, Ming Shen, Ryan Moreno, Xiao Huang, Prashant Shiralkar and Xiang Ren

21:00–22:00 Session 15B Machine Translation-18

[Long] Balancing Training for Multilingual Neural Machine Translation

Xinyi Wang, Yulia Tsvetkov and Graham Neubig

[Long] HAT: Hardware-Aware Transformers for Efficient Natural Language Processing

Hanrui Wang, Zhanghao Wu, Zhijian Liu, Han Cai, Ligeng Zhu, Chuang Gan and Song Han

[Long] Parallel Corpus Filtering via Pre-trained Language Models

Boliang Zhang, Ajay Nagesh and Kevin Knight

[Short] Regularized Context Gates on Transformer for Machine Translation

Xintong Li, Lema Liu, Rui Wang, Guoping Huang and Max Meng

[Long] Translationese as a Language in "Multilingual" NMT

Parker Riley, Isaac Caswell, Markus Freitag and David Grangier

Wednesday, July 8, 2020 UTC+0 (continued)

21:00–22:00 Session 15B NLP Applications-12

[Short] A Multi-Perspective Architecture for Semantic Code Search

Rajarshi Haldar, Lingfei Wu, JinJun Xiong and Julia Hockenmaier

[Short] Automated Topical Component Extraction Using Neural Network Attention Scores from Source-based Essay Scoring

Haoran Zhang and Diane Litman

[Short] Clinical Concept Linking with Contextualized Neural Representations

Elliot Schumacher, Andriy Mulyar and Mark Dredze

[Long] DeSePtion: Dual Sequence Prediction and Adversarial Examples for Improved Fact-Checking

Christopher Hidey, Tuhin Chakrabarty, Tariq Alhindi, Siddharth Varia, Kriste Krstovski, Mona Diab and Smaranda Muresan

[Short] Let Me Choose: From Verbal Context to Font Selection

Amirreza Shirani, Franck Dernoncourt, Jose Echevarria, Paul Asente, Nedim Lipka and Thamar Solorio

[TACL] Machine Learning Driven Language Assessment

Burr Settles, Masato Hagiwara, Geoffrey T. LaFlair

[Long] Multi-Label and Multilingual News Framing Analysis

Afra Feyza Akyürek, Lei Guo, Randa Elanwar, Prakash Ishwar, Margrit Betke and Derry Tanti Wijaya

[Long] Predicting Performance for Natural Language Processing Tasks

Mengzhou Xia, Antonios Anastasopoulos, Ruochen Xu, Yiming Yang and Graham Neubig

[Long] ScriptWriter: Narrative-Guided Script Generation

Yutao Zhu, Ruihua Song, Zhicheng Dou, Jian-Yun NIE and Jin Zhou

[Long] Should All Cross-Lingual Embeddings Speak English?

Antonios Anastasopoulos and Graham Neubig

[Short] Smart To-Do: Automatic Generation of To-Do Items from Emails

Sudipto Mukherjee, Subhabrata Mukherjee, Marcello Hasegawa, Ahmed Hassan Awadallah and Ryen White

Wednesday, July 8, 2020 UTC+0 (continued)

21:00–22:00 Session 15B Phonology, Morphology and Word Segmentation-7

[Long] A Multitask Learning Approach for Diacritic Restoration

Sawsan Alqahtani, Ajay Mishra and Mona Diab

[Long] Frugal Paradigm Completion

Alexander Erdmann, Tom Kenter, Markus Becker and Christian Schallhart

[Long] Improving Chinese Word Segmentation with Wordhood Memory Networks

Yuanhe Tian, Yan Song, Fei Xia, Tong Zhang and Yonggang Wang

[Long] Joint Chinese Word Segmentation and Part-of-speech Tagging via Two-way Attentions of Auto-analyzed Knowledge

Yuanhe Tian, Yan Song, Xiang Ao, Fei Xia, Xiaojun Quan, Tong Zhang and Yonggang Wang

[Long] Joint Diacritization, Lemmatization, Normalization, and Fine-Grained Morphological Tagging

Nasser Zalmout and Nizar Habash

[Long] Phonetic and Visual Priors for Decipherment of Informal Romanization

Maria Ryskina, Matthew R. Gormley and Taylor Berg-Kirkpatrick

[Long] Unsupervised Morphological Paradigm Completion

Huiming Jin, Liwei Cai, Yihui Peng, Chen Xia, Arya McCarthy and Katharina Kann

Wednesday, July 8, 2020 UTC+0 (continued)

21:00–22:00 Session 15B Semantics: Sentence Level-11

[Long] Beyond Possession Existence: Duration and Co-Possession

Dhivya Chinnappa, Srikala Murugan and Eduardo Blanco

[Short] Controlled Crowdsourcing for High-Quality QA-SRL Annotation

Paul Roit, Ayal Klein, Daniela Stepanov, Jonathan Mamou, Julian Michael, Gabriel Stanovsky, Luke Zettlemoyer and Ido Dagan

[Long] Don't Stop Pretraining: Adapt Language Models to Domains and Tasks

Suchin Gururangan, Ana Marasović, Swabha Swayamdipta, Kyle Lo, Iz Beltagy, Doug Downey and Noah A. Smith

[Long] Structured Tuning for Semantic Role Labeling

Tao Li, Parth Anand Jawale, Martha Palmer and Vivek Srikumar

[Long] Universal Decompositional Semantic Parsing

Elias Stengel-Eskin, Aaron Steven White, Sheng Zhang and Benjamin Van Durme

21:00–22:00 Session 15B Syntax: Tagging, Chunking and Parsing-6

[TACL] Deep Contextualized Self-training for Low Resource Dependency Parsing

Guy Rotman, Roi Reichart

[Long] Extracting Headless MWEs from Dependency Parse Trees: Parsing, Tagging, and Joint Modeling Approaches

Tianze Shi and Lillian Lee

[Short] Revisiting Higher-Order Dependency Parsers

Erick Fonseca and André F. T. Martins

[Long] SeqVAT: Virtual Adversarial Training for Semi-Supervised Sequence Labeling

Luoxin Chen, Weitong Ruan, Xinyue Liu and Jianhua Lu

[Short] Treebank Embedding Vectors for Out-of-domain Dependency Parsing

Joachim Wagner, James Barry and Jennifer Foster

Wednesday, July 8, 2020 UTC+0 (continued)

21:00–22:00 Session 15B Theme-6

[Long] Automated Evaluation of Writing – 50 Years and Counting

Beata Beigman Klebanov and Nitin Madnani

[Short] Negated and Misprimed Probes for Pretrained Language Models: Birds Can Talk, But Cannot Fly

Nora Kassner and Hinrich Schütze

[Short] On Forgetting to Cite Older Papers: An Analysis of the ACL Anthology

Marcel Bollmann and Desmond Elliott

[Short] Returning the N to NLP: Towards Contextually Personalized Classification Models

Lucie Flek

[Long] The Unstoppable Rise of Computational Linguistics in Deep Learning

James Henderson

[Long] To Boldly Query What No One Has Annotated Before? The Frontiers of Corpus Querying

Markus Gärtner and Kerstin Jung

[Long] To Test Machine Comprehension, Start by Defining Comprehension

Jesse Dunietz, Greg Burnham, Akash Bharadwaj, Owen Rambow, Jennifer Chu-Carroll and Dave Ferrucci

[Long] Gender Gap in Natural Language Processing Research: Disparities in Authorship and Citations

Saif M. Mohammad

Wednesday, July 8, 2020 UTC+0 (continued)

21:00–22:00 Session 15B Student Research Workshop

[SRW] #NotAWhore! A Computational Linguistic Perspective of Rape Culture and Victimization on Social Media
Ashima Suvarna and Grusha Bhalla

[SRW] Crossing the Line: Where do Demographic Variables Fit into Humor Detection?
J. A. Meaney

[SRW] Effectively Aligning and Filtering Parallel Corpora under Sparse Data Conditions
Steinþór Steingrímsson, Hrafn Loftsson and Andy Way

[SRW] Exploring the Role of Context to Distinguish Rhetorical and Information-Seeking Questions
Yuan Zhuang and Ellen Riloff

21:30–22:15 Demo Session 5C

[Demo] What's The Latest? A Question-driven News Chatbot
Philippe Laban, John Canny and Marti A. Hearst

[Demo] Torch-Struct: Deep Structured Prediction Library
Alexander Rush