AACL-IJCNLP 2022

The 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing

Proceedings of the Conference (Volume 1: Long Papers)

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Preface by the General Chair

Welcome to AACL-IJCNLP 2022, the 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 12th International Joint Conference on Natural Language Processing! The conference will be held online on November 20-23, 2022.

AACL-IJCNLP 2022 was originally scheduled to take place in Taipei, Taiwan. We had a discussion with AACL executive board early this year whether to hold the conference entirely in the virtual mode due to the strict COVID quarantine rule imposed by the Taiwan government. We later decided to wait until the mid of June to re-evaluate the situation. In early June, the Central Epidemic Command Center in Taiwan announced that starting from 15 June 2022, the mandatory quarantine period for international arrivals in Taiwan would be reduced from 7 to 3 days. After a discussion with both the Program Chairs and the Local Organization Chair, we decided to wait further until August to see if we could have a hybrid conference in the hope that Taiwan will open its border fully in November. But we eventually made a difficult decision to hold the conference entirely online at mid of August as the quarantine rule and the travel ban imposed on foreign nationals were still in place in Taiwan. This was rather disappointed. Nevertheless, our Program Chairs have put together a very interesting conference program. I hope to see many of you joining our conference online.

AACL-IJCNLP 2022 adopted a dual paper submission system that authors can choose to submit their papers to the "ACL Rolling Review (ARR)" or submit to the softconf submission site in a conventional way. For the latter, authors had a chance to respond to reviewers' comments. One innovation our Program Chairs introduced is to allow authors to run additional experiments and upload revised papers during the rebuttal period to address reviewers' comments. This required additional efforts from our reviewers, area chairs and senior area chairs to check the revised submissions. But it gave authors better opportunities to address reviewers' criticism. Another innovation is to introduce poster lightning talks in the main conference. We hope these efforts will be followed in future conferences.

AACL-IJCNLP 2022 would not be possible without the contribution from a large number of volunteers who are willing to spend tremendous time and effort. These include the members of our organisation committee and various people from the ACL community. In particular, I would like to thank:

- the three Program Co-Chairs, Heng Ji, Sujian Li, and Yang Liu, who managed the whole conference paper submission and review process, and assembled the conference program with new initiatives such as a debate on "Is there more to NLP than Deep Learning?" and the "7 NLP Dissertation Topics for Next 7 Years";
- the Local Organisation Chair, Chia-Hui Chang, who was in charge of venue booking when we initially planned for a hybrid conference and coordinated the setup of a registration site. She was supported by a great local organisation team, including the Financial Chair, Lun-Wei Ku, the Local Arrangement Chair, Kuan-Yu (Menphis) Chen, the Online Conference Coordinator, Richard Tzong-Han Tsai, and the Registration Chair, Hsiu-Min Chuang;
- the Publication Co-Chairs, Min-Yuh Day, Hen-Hsen Huang, and Jheng-Long Wu, who prepared the instruction for proceedings compilation and coordinated with our workshop/tutorial/demo/student research workshop chairs to assemble all papers into our conference proceedings;
- the Workshop Co-chairs, Soujanya Poria and Chenghua Lin, who selected 5 workshops for the conference and ensured all the workshops could successfully run virtually;
- the Tutorial Co-Chairs, Miguel A. Alonso and Zhongyu Wei, who selected 6 tutorials to be presented at the conference and prepared the tutorial abstract proceedings;

- the Demonstration Co-Chairs, Wray Buntine and Maria Liakata, who manged the demo paper submission and review process:
- the Special Theme Co-Chairs, Monab Diab and Isabelle Augenstein, who handled paper submissions to the Special Theme on Fairness in Natural Language Processing;
- the Student Research Workshop (SRW) Co-Chairs, Hanqi Yan and Zonghan Yang, who organised the student workshop under the guidance our our SRW Faculty Co-Advisors, Sebastian Ruder and Xiaojun Wan;
- the Publicity Co-chairs, Pengfei Liu, Gabriele Pergola, and Ruifeng Xu, who communicated the information about the conference to the community using various social media channels;
- the Website Chair, Miguel Arana Catania and Yung-Chun Chang, who ensured that the AACL-IJCNLP 2022 website contains all up-to-date information;
- the Diversity & Inclusion (D&I) Chairs, Ruihong Huang and Jing Li, who have worked tirelessly to make AACL-IJCNLP 2022 as welcoming and inclusive as possible for all participants. They were supported by the D&I committee members, Yuji Zhang, Yuanyuan Lei, and Ayesha Qamar;
- the Sponsorship Coordinators, Hiroya Takamura, Wen-Hsiang Lu, and Deyi Xiong, who reached out institutions and corporations to collect funds to support our conference;
- the Communication Chairs, Zheng Fang, Jiazheng Li, and Xingwei Tan, who stepped in with a short notice to help Program Co-Chairs deal with a large number of email enquires;
- Priscilla Rasmussen, who stayed as a consultant for ACL, and Jennifer Rachford, the ACL Business Manager, for helping with various conference matters;
- the Chair of the AACL, Keh-Yih Su, and all the AACL executive board members, that have provided guidance regarding various decisions;
- the ACL executive board including the President, Tim Baldwin, for linking us with the right support; the ACL Sponsorship Director, Chris Callison-Burch, for providing guidance to our Sponsorship Chairs; and the ACL Treasurer, David Yarowsky, who negotiated a contract with Underline for supporting our virtual conference;
- Rich Gerber from Softconf, who set up the AACL-IJCNLP conference submission site, has always been responsive to our queries.

I would also like to express gratitude to our sponsors, whose generous support has been invaluable in building up AACL-IJCNLP to what it is now. These include our Diamond-level sponsors - GTCOM, LivePerson, Tourism Bureau, the Ministry of Science and Technology, the Ministry of Education and National Central University in Taiwan; our Platinum-level sponsor - Baidu; our Gold-level sponsors - Bloomberg; and our Bronze-level sponsors - Adobe.

Finally, I would like to thank all authors, senior area chairs, area chairs, reviewers, invited speakers and panelists, the volunteers organizing and chairing various sessions in the conference, and all attendees, for making this hopefully another successful NLP conference!

Hope you all enjoy AACL-IJCNLP 2022!

AACL-IJCNLP 2022 General Chair *Yulan He*, King's College London, UK

Preface by the Program Committee Co-Chairs

We welcome you to AACL-IJCNLP 2022, the 2nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (AACL) and the 12th International Joint Conference on Natural Language Processing (IJCNLP)! Due to the strict COVID quarantine rule imposed by the local government, AACL-IJCNLP 2022 has to be held fully virtual. However, conference organizers have worked very hard to simulate an in-person meeting setting, thanks to the relatively mature virtual conference infrastructures that have been built by our community.

AACL-IJCNLP 2022 has utilized two submission platforms SoftConf and ACL Rolling Review (ARR)-OpenReview, and received 554 submissions in total (518 from SoftConf and 36 from ARR) for the main conference. We have accepted 147 papers (87 long and 60 short) for the main conference and 44 papers for the Findings. The submissions came from all over the world. Among the 191 accepted papers, according to the information of the main contact, 84 were from the Asia-Pacific region (23 from China mainland, 18 from India, 16 from Japan, 7 from South Korea, 5 from Australia, 3 from Singapore, 3 from Taiwan, 3 from Bangladesh, 2 from New Zealand, 1 from Sri Lanka, 1 from Nepal, 1 from Malaysia, and 1 from HongKong), 42 were from the America (36 from the USA, 5 from Canada, 1 from Chile), and 65 from Europe and the Middle East (18 from the UK, 12 from Germany, 9 from France, 5 from Netherlands, 4 from Switzerland, 4 from Italy, 3 from Norway, 2 from Egypt, 2 from Spain, 1 from Estonia, 1 from Denmark, 1 from Finland, 1 from Iron, 1 from Bulgaria and 1 from Czech).

We have developed the following new attempts this year for paper submission:

- We created a new special theme "Fairness in Natural Language Processing".
- We added a new function during paper rebuttal to allow authors to upload their revised papers so that some responses can be more clearly presented and elaborated.

AACL-IJCNLP2022 does have a great program, thanks to all of you! We have put up a very exciting program with many new plenary sessions:

- We have invited four wonderful keynote speakers this year: Chris Callison-Burch (University of Pennsylvania), Eduard Hovy (University of Melbourne and Carnegie Mellon University), Juanzi Li (Tsinghua University), and Prem Natarajan (Amazon Alexa AI).
- A promised-to-be-heated debate: "Is there more to NLP than Deep Learning?" between "Yes" team: Eduard Hovy (Team Lead), Kathleen McKeown, Dan Roth, Eric Xing and "No" team: Kyunghyun Cho (Team Lead), Danqi Chen, Manling Li, Graham Neubig, to be moderated by Rada Mihalcea.
- "7 NLP Dissertation Topics for Next 7 Years" by Kevin Duh, Fei Huang, Smaranda Muresan, Preslav Nakov, Nanyun Peng, Joel Tetreault and Lu Wang.
- A panel on the special theme "Fairness in Natural Language Processing", moderated by our special theme chairs Mona Diab and Isabelle Augenstein.
- A Global Women in NLP session "Finding Your Purpose, Findign Your Voice Professional Growth in the Age of Deep AI" led by Pascale Fung.

We are very grateful for all of these speakers and panelists on accepting our invitations! We will also have a special best paper award session and a lighting talk session for posters, following the successes of previous ACL and NAACL conferences. The excellence of the overall AACL-IJCNLP2022 program is

thanks to all the chairs and organizers. We especially thank the 47 Senior Area Chairs, 84 Area Chairs and reviewers for their hard work. We are grateful to Amanda Stent, Goran Glavaš, Graham Neubig, and Harold Rubio for their invaluable support in the commitment of papers reviewed by ARR to AACL-IJCNLP 2022. We appreciate Rich Gerber's prompt responses and support whenever we request any fix or adding new functions. It has been an enormous privilege for us to see the scientific advances that will be presented at this conference. Congratulations to all authors!

We hope you will enjoy AACL-IJCNLP 2022, and look forward to seeing many of you online!

AACL-IJCNLP 2020 Program Committee Co-Chairs Heng Ji (University of Illinois Urbana-Champaign and Amazon Scholar) Yang Liu (Tsinghua University) Sujian Li (Peking University)

Preface by the Local Chair

Since winning the bid for organising AACL-IJCNLP 2022 conference in Taiwan, the local team has worked hard to get subsidies from Ministry of Science and Technology, Ministry of Education, Bureau of Foreign Trade, and National Central University, Taiwan. We also planned to co-host AACL-IJCNLP 2022 with ROCLING 2022, the annual meeting of the Association for Computational Linguistics of Chinese Language Processing in Taiwan. We, Yung-Chun Chang, Kuan-Yu (Menphis) Chen and I, envisioned that even if only half the registrants can come to Taiwan due to COVID-19, the conference will still be lively with ROCLING participants.

Even at the end of June, we remained optimistic that a hybrid conference would be possible. However, Taiwan's border control were not lifted and passengers entering Taiwan still needed to be quarantined for three plus four days after August, which will deter most international participants. Thus, we had to adopt a purely online mode at last.

It was a great experience to co-host the AACL-IJCNLP 2022 conference with the international team. On behalf of the local organising team: Yung-Chun Chang, Kuan-Yu (Menphis) Chen, Hsiu-Min Chuang, Min-Yuh Day, Hen-Hsen Huang, Lun-Wei Ku, Wen-Hsiang Lu, Tzong-Han Tsai, and Jheng-Long Wu, we would like to thank our general chair, Yulan He, program co-chairs, Heng Ji, Yang Liu, Sujian Li, and the international team. Yulan's leadership and the international team made the conference go smoothly. Without you, it would be impossible to accomplish so many tasks. I also learned a lot from it. Hope we can meet physically in the near future.

AACL-IJCNLP 2022 Local Chair *Chia-Hui Chang* (National Central University)

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Masaaki Nagata, Tetsuji Nakagawa, Preslav Nakov, Mahdi Namazifar, Courtney Napoles, Diane Napolitano, Vincent Ng, Axel-Cyrille Ngonga Ngomo, Kiet Nguyen, Nhung Nguyen, Jian Ni, Eric Nichols, Irina Nikishina, Qiang Ning, Takashi Ninomiya, Masaaki Nishino, Sergiu Nisioi, Tong Niu, Joakim Nivre, Pierre Nugues

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Deepak P, Avinesh P.V.S, Ankur Padia, Chester Palen-Michel, Alexis Palmer, Alessio Palmero Aprosio, Youcheng Pan, Yi-Cheng Pan, Nikos Papasarantopoulos, Ivandré Paraboni, Kunwoo Park, Lucy Park, Marius Pasca, Vaishnavi Patil, Siddharth Patwardhan, Sarah Payne, Hengzhi Pei, Wei Peng, Nanyun Peng, Hao Peng, Gerald Penn, Gabriele Pergola, Scott Piao, Flammie Pirinen, Barbara Plank, Andrei Popescu-Belis, Fred Popowich, Christopher Potts, Morteza Pourreza Shahri, Animesh Prasad, Emily Prud'hommeaux

Chen Qian, Lianhui Qin, Xinying Qiu, Long Qiu, Xipeng Qiu, Chen Qu

Alexandre Rademaker, Sunny Rai, Taraka Rama, Lakshmi Ramachandran, Shihao Ran, Surangika Ranathunga, Peter A. Rankel, Sudha Rao, Ari Rappoport, Traian Rebedea, Hanumant Redkar, Navid Rekabsaz, Yuqi Ren, Corentin Ribeyre, Tharathorn Rimchala, Annette Rios, Anthony Rios, Paul Rodrigues, Lina M. Rojas Barahona, Andrew Rosenberg, Sophie Rosset, Bryan Routledge, Irene Russo

Fatiha Sadat, Sylvie Saget, Monjoy Saha, Saurav Sahay, Sunil Kumar Sahu, Hassan Sajjad, Sakriani Sakti, Elizabeth Salesky, Jonne Saleva, Avneesh Saluja, Germán Sanchis-Trilles, Hugo Sanjurjo-González, Ananth Sankar, Diana Santos, Bishal Santra, Soumya Sanyal, Naomi Saphra, Kamal Sarkar, Anoop Sarkar, Shota Sasaki, Felix Sasaki, Ryohei Sasano, Asad Sayeed, Shigehiko Schamoni, Helmut Schmid, William Schuler, Lane Schwartz, Nasredine Semmar, Gregory Senay, Minjoon Seo, Lei Sha, Swair Shah, Cory Shain, Mingyue Shang, Yunfan Shao, Soumya Sharma, Ravi Shekhar, Tianxiao Shen, Bowen Shen, Tianhao Shen, Yuming Shen, Aili Shen, Michael Sheng, Tian Shi, Yangyang Shi, xiaodong shi, Tomohide Shibata, Yutaro Shigeto, Takahiro Shinozaki, Raphael Shu, Chenglei Si, Maryam Siahbani, Avi Sil, Carina Silberer, Diego Silva, Stefano Silvestri, Patrick Simianer, Dan Simonson, Edwin Simpson, Keshav Singh, Sahib Singh, Amando Jr. Singun, Olivier Siohan, Kevin Small, Luca Soldaini, Saleh Soltan, Xingyi Song, Yan Song, Dongjin Song, Siqi Song, Yan Song, Anna Sotnikova, Marlo Souza, Felix Stahlberg, Efstathios Stamatatos, Shane Steinert-Threlkeld, Pontus Stenetorp, Kristina Striegnitz, Keh-Yih Su, Aparna Subramanian, Katsuhito Sudoh, Yoshi Suhara, Derwin Suhartono, Ming Sun, Shichao Sun, Kai Sun

Zeerak Talat, George Tambouratzis, Akihiro Tamura, Fei Tan, Bowen Tan, Chenhao Tan, Yuka Tateisi, Marta Tatu, Tatiane Tavares, Selma Tekir, Irina Temnikova, Zhiyang Teng, Joel Tetreault, Krishnaprasad Thirunarayan, Yufei Tian, Erik Tjong Kim Sang, Takenobu Tokunaga, Marwan Torki, Samia Touileb, Trang Tran, Aashka Trivedi, Yuen-Hsien Tseng, Kewei Tu

Kiyotaka Uchimoto, L. Alfonso Ureña-López, Masao Utiyama

Rob van der Goot, Oskar van der Wal, Clara Vania, Shikhar Vashishth, Rakesh Verma, Karin Verspoor, David Vilar, Jesús Vilares, Martin Villalba, Serena Villata, Esau Villatoro-Tello, Elena Voita, Thuy Vu, Henning Wachsmuth

Xinhao Wang, Han Wang, Junfeng Wang, Haoyu Wang, Hongfei Wang, Qian Wang, Xin Wang, Yanshan Wang, Ping Wang, Hsin-Min Wang, Lei Wang, zili Wang, Rui Wang, Hao Wang, Tong Wang, Weiyue Wang, Wei Wang, Wei Wang, Jin Wang, Xintong Wang, Yufei Wang, Zhaowei Wang, Xiaojie WANG, Guangtao Wang, Jianzong Wang, Xuezhi Wang, Hao Wang, Wenqi Wang, William Yang Wang, Shuai Wang, Yi-Chia Wang, Yi-Chia Wang, Xiang Wang, Xin Wang, Boxin Wang, Mingxuan Wang, Shuo Wang, Xiting Wang, Koichiro Watanabe, Taro Watanabe, Shinji Watanabe, Roger Wattenhofer, Kellie Webster, Feng Wei, Xiangpeng Wei, Charles Welch, Simon Wells, Derry Tanti Wijaya, Gijs Wijnholds, Rodrigo Wilkens, Adina Williams, Jennifer Williams, Tak-sum Wong, Kam-Fai Wong, Alina Wróblewska, Zhiyong Wu, Xianchao Wu, Chien-Sheng Wu, Fangzhao Wu, Stephen Wu, Ji Wu, Mengyue Wu, Wenhao Wu

Heming Xia, Rui Xia, Ruicheng Xian, Min Xiao, Yuqing Xie, Yiqing Xie, Jun Xie, Yujie Xing, Zhenchang Xing, Chao Xiong, Deyi Xiong, Chejian Xu, Benfeng Xu, Yueshen Xu, Song Xu, Canwen Xu, Qiongkai Xu, Hongfei Xu, Ruifeng Xu, Dongkuan Xu, Tong Xu

Shuntaro Yada, Ming Yan, Xu Yan, Muqiao Yang, Longfei Yang, Haiqin Yang, Eugene Yang, Wei Yang, Ze Yang, Erguang Yang, Ziqing Yang, Zichao Yang, Roman Yangarber, Tae Yano, Wenlin Yao, Kaisheng Yao, Wen-tau Yih, Lang Yin, Seunghyun Yoon, Masaharu Yoshioka, Liang-Chih Yu, Heng Yu, Dian Yu, Mo Yu, Zhaoquan Yuan, Ruifeng Yuan, Chuan Yue, Frances Yung

Fadi Zaraket, Zhiyuan Zeng, Xingshan Zeng, Qingcheng Zeng, Torsten Zesch, Deniz Zeyrek, Shuang (Sophie) Zhai, Yuxiang Zhang, Zeyu Zhang, Zizheng Zhang, Xiaohan Zhang, Chengzhi Zhang, Jingsen Zhang, Ningyu Zhang, Guangwei Zhang, Dongyu Zhang, Zhuosheng Zhang, Ke Zhang, Biao Zhang, Jinnian Zhang, Chenwei Zhang, Shuai Zhang, Jiajun Zhang, Wei-Nan Zhang, Meishan Zhang, Hanwang Zhang, tianzhu zhang, Hai Zhao, Chao Zhao, Jieyu Zhao, Xiaobing Zhao, Dongyan Zhao, Lin Zhao, Sendong Zhao, Han Zhao, Rui Zheng, Xiaoqing Zheng, Wenxuan Zhou, Qiang Zhou, Jingbo Zhou, Lina Zhou, Su Zhu, Junnan Zhu, Shaolin Zhu, Chenguang Zhu, Caleb Ziems, Michael Zock, Bowei Zou, Vilém Zouhar, Arkaitz Zubiaga, Ingrid Zukerman

Table of Contents

Chasing the Tail with Domain Generalization: A Case Study on Frequency-Enriched Datasets Manoj Kumar, Anna Rumshisky and Rahul Gupta1
Double Trouble: How to not Explain a Text Classifier's Decisions Using Counterfactuals Synthesized by Masked Language Models? Thang Pham, Trung Bui, Long Mai and Anh Nguyen
An Empirical Study on Cross-X Transfer for Legal Judgment Prediction Joel Niklaus, Matthias Stürmer and Ilias Chalkidis
CNN for Modeling Sanskrit Originated Bengali and Hindi Language Chowdhury Rahman, MD. Hasibur Rahman, Mohammad Rafsan, Mohammed Eunus Ali, Samiha Zakir and Rafsanjani Muhammod
Leveraging Key Information Modeling to Improve Less-Data Constrained News Headline Generation via Duality Fine-Tuning Zhuoxuan Jiang, Lingfeng Qiao, di yin, Shanshan Feng and Bo Ren
Systematic Evaluation of Predictive Fairness Xudong Han, Aili Shen, Trevor Cohn, Timothy Baldwin and Lea Frermann
Graph-augmented Learning to Rank for Querying Large-scale Knowledge Graph Hanning Gao, Lingfei Wu, Po Hu, Zhihua Wei, Fangli Xu and Bo Long
An Embarrassingly Simple Approach for Intellectual Property Rights Protection on Recurrent Neural Networks Zhi Qin Tan, Hao Shan Wong and Chee Seng Chan
WAX: A New Dataset for Word Association eXplanations Chunhua Liu, Trevor Cohn, Simon De Deyne and Lea Frermann
Missing Modality meets Meta Sampling (M3S): An Efficient Universal Approach for Multimodal Sentiment Analysis with Missing Modality Haozhe Chi, Minghua Yang, Junhao Zhu, Guanhong Wang and Gaoang Wang
SPARQL-to-Text Question Generation for Knowledge-Based Conversational Applications Gwénolé Lecorvé, Morgan Veyret, Quentin Brabant and Lina M. Rojas Barahona
S+PAGE: A Speaker and Position-Aware Graph Neural Network Model for Emotion Recognition in Conversation CHEN LIANG, JING XU, YANGKUN LIN, CHONG YANG and YONGLIANG WANG 148
Grammatical Error Correction Systems for Automated Assessment: Are They Susceptible to Universal Adversarial Attacks? Vyas Raina, Yiting Lu and Mark Gales
This Patient Looks Like That Patient: Prototypical Networks for Interpretable Diagnosis Prediction from Clinical Text Betty van Aken, Jens-Michalis Papaioannou, Marcel Naik, Georgios Eleftheriadis, Wolfgang Nejdl, Felix Gers and Alexander Loeser

Cross-lingual Similarity of Multilingual Representations Revisited Maksym Del and Mark Fishel
Arabic Dialect Identification with a Few Labeled Examples Using Generative Adversarial Networks Mahmoud Yusuf, Marwan Torki and Nagwa El-Makky
Semantic Shift Stability: Efficient Way to Detect Performance Degradation of Word Embeddings and Pre-trained Language Models
Shotaro Ishihara, Hiromu Takahashi and Hono Shirai
AGRank: Augmented Graph-based Unsupervised Keyphrase Extraction Haoran Ding and Xiao Luo
Towards Unified Representations of Knowledge Graph and Expert Rules for Machine Learning and Reasoning Zhepei Wei, Yue Wang, Jinnan Li, Zhining Liu, Erxin Yu, Yuan Tian, Xin Wang and Yi Chang 240
Who did what to Whom? Language models and humans respond diversely to features affecting argument
hierarchy construction Xiaonan Xu and Haoshuo Chen
CrowdChecked: Detecting Previously Fact-Checked Claims in Social Media Momchil Hardalov, Anton Chernyavskiy, Ivan Koychev, Dmitry Ilvovsky and Preslav Nakov266
Hate Speech and Offensive Language Detection in Bengali Mithun Das, Somnath Banerjee, Punyajoy Saha and Animesh Mukherjee
Learning Interpretable Latent Dialogue Actions With Less Supervision Vojtěch Hudeček and Ondřej Dušek
Named Entity Recognition in Twitter: A Dataset and Analysis on Short-Term Temporal Shifts Asahi Ushio, Francesco Barbieri, Vitor Sousa, Leonardo Neves and Jose Camacho-Collados 309
PInKS: Preconditioned Commonsense Inference with Minimal Supervision Ehsan Qasemi, Piyush Khanna, Qiang Ning and Muhao Chen
Cross-Lingual Open-Domain Question Answering with Answer Sentence Generation Benjamin Muller, Luca Soldaini, Rik Koncel-Kedziorski, Eric Lind and Alessandro Moschitti. 337
Discourse Parsing Enhanced by Discourse Dependence Perception Yuqing Xing, Longyin Zhang, Fang Kong and Guodong Zhou
Prediction of People's Emotional Response towards Multi-modal News Ge Gao, Sejin Paik, Carley Reardon, Yanling Zhao, Lei Guo, Prakash Ishwar, Margrit Betke and Derry Tanti Wijaya
AugCSE: Contrastive Sentence Embedding with Diverse Augmentations Zilu Tang, Muhammed Yusuf Kocyigit and Derry Tanti Wijaya
Seamlessly Integrating Factual Information and Social Content with Persuasive Dialogue Maximillian Chen, Weiyan Shi, Feifan Yan, Ryan Hou, Jingwen Zhang, Saurav Sahay and Zhou Yu 399

Dual-Encoder Transformers with Cross-modal Alignment for Multimodal Aspect-based Sentiment Analysis Zhewen Yu, Jin Wang, Liang-Chih Yu and Xuejie Zhang
AVAST: Attentive Variational State Tracker in a Reinforced Navigator Je-Wei Jang, Mahdin Rohmatillah and Jen-Tzung Chien
Phylogeny-Inspired Adaptation of Multilingual Models to New Languages Fahim Faisal and Antonios Anastasopoulos
Transferring Knowledge via Neighborhood-Aware Optimal Transport for Low-Resource Hate Speec Detection Tulika Bose, Irina Illina and Dominique Fohr
Bag-of-Vectors Autoencoders for Unsupervised Conditional Text Generation Florian Mai and James Henderson
RecInDial: A Unified Framework for Conversational Recommendation with Pretrained Language Models
Lingzhi Wang, Huang Hu, Lei Sha, Can Xu, Daxin Jiang and Kam-Fai Wong48
SummVD: An efficient approach for unsupervised topic-based text summarization Gabriel Shenouda, Aurélien Bossard, Oussama Ayoub and Christophe Rodrigues50
Director: Generator-Classifiers For Supervised Language Modeling Kushal Arora, Kurt Shuster, Sainbayar Sukhbaatar and Jason Weston
VLStereoSet: A Study of Stereotypical Bias in Pre-trained Vision-Language Models Kankan Zhou, Eason Lai and Jing Jiang
Dynamic Context Extraction for Citation Classification Suchetha Nambanoor Kunnath, David Pride and Petr Knoth
Affective Retrofitted Word Embeddings Sapan Shah, Sreedhar Reddy and Pushpak Bhattacharyya55
Is Encoder-Decoder Redundant for Neural Machine Translation? Yingbo Gao, Christian Herold, Zijian Yang and Hermann Ney
SAPGraph: Structure-aware Extractive Summarization for Scientific Papers with Heterogeneous Graph Siya Qi, Lei Li, Yiyang Li, Jin Jiang, Dingxin Hu, Yuze Li, Yingqi Zhu, Yanquan Zhou, Marin Litvak and Natalia Vanetik
Toward Implicit Reference in Dialog: A Survey of Methods and Data Lindsey Vanderlyn, Talita Anthonio, Daniel Ortega, Michael Roth and Ngoc Thang Vu
A Decade of Knowledge Graphs in Natural Language Processing: A Survey Phillip Schneider, Tim Schopf, Juraj Vladika, Mikhail Galkin, Elena Simperl and Florian Matthe
Multimodal Generation of Radiology Reports using Knowledge-Grounded Extraction of Entities an Relations
Francesco Dalla Serra, William Clackett, Hamish MacKinnon, Chaoyang Wang, Fani Deligiann

SBERT studies Meaning Representations: Decomposing Sentence Embeddings into Explainable Seman tic Features
Juri Opitz and Anette Frank62:
The Lifecycle of "Facts": A Survey of Social Bias in Knowledge Graphs Angelie Kraft and Ricardo Usbeck
Food Knowledge Representation Learning with Adversarial Substitution Diya Li and Mohammed J Zaki
Construction Repetition Reduces Information Rate in Dialogue Mario Giulianelli, Arabella Sinclair and Raquel Fernandez
Analogy-Guided Evolutionary Pretraining of Binary Word Embeddings R. Alexander Knipper, Md. Mahadi Hassan, Mehdi Sadi and Shubhra Kanti Karmaker Santu683
Contrastive Video-Language Learning with Fine-grained Frame Sampling Zixu Wang, Yujie Zhong, Yishu Miao, Lin Ma and Lucia Specia
Enhancing Tabular Reasoning with Pattern Exploiting Training Abhilash Shankarampeta, Vivek Gupta and Shuo Zhang
Re-contextualizing Fairness in NLP: The Case of India Shaily Bhatt, Sunipa Dev, Partha Talukdar, Shachi Dave and Vinodkumar Prabhakaran
Low-Resource Multilingual and Zero-Shot Multispeaker TTS Florian Lux, Julia Koch and Ngoc Thang Vu
Unsupervised Domain Adaptation for Sparse Retrieval by Filling Vocabulary and Word Frequency Gaptiers Hiroki Iida and Naoaki Okazaki
KESA: A Knowledge Enhanced Approach To Sentiment Analysis Qinghua Zhao, Shuai Ma and Shuo Ren
Cross-lingual Few-Shot Learning on Unseen Languages Genta Winata, Shijie Wu, Mayank Kulkarni, Thamar Solorio and Daniel Preotiuc-Pietro
Domain-aware Self-supervised Pre-training for Label-Efficient Meme Analysis Shivam Sharma, Mohd Khizir Siddiqui, Md. Shad Akhtar and Tanmoy Chakraborty792
A Prompt Array Keeps the Bias Away: Debiasing Vision-Language Models with Adversarial Learning Hugo Berg, Siobhan Hall, Yash Bhalgat, Hannah Kirk, Aleksandar Shtedritski and Max Bain . 800
Some Languages are More Equal than Others: Probing Deeper into the Linguistic Disparity in the NLI World
Surangika Ranathunga and Nisansa de Silva82.
Neural Readability Pairwise Ranking for Sentences in Italian Administrative Language Martina Miliani, Serena Auriemma, Fernando Alva-Manchego and Alessandro Lenci
Delivering Fairness in Human Resources AI: Mutual Information to the Rescue Leo Hemamou and William Coleman
Not another Negation Benchmark: The NaN-NLI Test Suite for Sub-clausal Negation Thinh Hung Truong, Yulia Otmakhova, Timothy Baldwin, Trevor Cohn, Jey Han Lau and Karin Verspoor
XX 4 51 0 0 0 1

HaRiM ⁺ : Evaluating Summary Quality with Hallucination Risk Seonil (Simon) Son, Junsoo Park, Jeong-in Hwang, Junghwa Lee, Hyungjong Noh and Yeonso Lee
The lack of theory is painful: Modeling Harshness in Peer Review Comments Rajeev Verma, Rajarshi Roychoudhury and Tirthankar Ghosal
Dual Mechanism Priming Effects in Hindi Word Order Sidharth Ranjan, Marten van Schijndel, Sumeet Agarwal and Rajakrishnan Rajkumar93
Unsupervised Single Document Abstractive Summarization using Semantic Units Jhen-Yi Wu, Ying-Jia Lin and Hung-Yu Kao
Detecting Incongruent News Articles Using Multi-head Attention Dual Summarization Sujit Kumar, Gaurav Kumar and Sanasam Ranbir Singh
Meta-Learning based Deferred Optimisation for Sentiment and Emotion aware Multi-modal Dialogu Act Classification Tulika Saha, Aditya Prakash Patra, Sriparna Saha and Pushpak Bhattacharyya
Enhancing Financial Table and Text Question Answering with Tabular Graph and Numerical Reasonin Rungsiman Nararatwong, Natthawut Kertkeidkachorn and Ryutaro Ichise
Fine-grained Contrastive Learning for Definition Generation Hengyuan Zhang, Dawei Li, Shiping Yang and Yanran Li
Hengam: An Adversarially Trained Transformer for Persian Temporal Tagging Sajad Mirzababaei, Amir Hossein Kargaran, Hinrich Schütze and Ehsaneddin Asgari 101
What's Different between Visual Question Answering for Machine "Understanding" Versus for Access bility?
Yang Trista Cao, Kyle Seelman, Kyungjun Lee and Hal Daumé III
Persona or Context? Towards Building Context adaptive Personalized Persuasive Virtual Sales Assistan Abhisek Tiwari, Sriparna Saha, Shubhashis Sengupta, Anutosh Maitra, Roshni Ramnani and Push pak Bhattacharyya
Legal Case Document Summarization: Extractive and Abstractive Methods and their Evaluation Abhay Shukla, Paheli Bhattacharya, Soham Poddar, Rajdeep Mukherjee, Kripabandhu Ghosl Pawan Goyal and Saptarshi Ghosh
FPC: Fine-tuning with Prompt Curriculum for Relation Extraction Sicheng Yang and Dandan Song
Dead or Murdered? Predicting Responsibility Perception in Femicide News Reports Gosse Minnema, Sara Gemelli, Chiara Zanchi, Tommaso Caselli and Malvina Nissim107
PESE: Event Structure Extraction using Pointer Network based Encoder-Decoder Architecture Alapan Kuila and Sudeshna Sarkar
How do we get there? Evaluating transformer neural networks as cognitive models for English partense inflection Xiaomeng Ma and Lingyu Gao
Characterizing and addressing the issue of oversmoothing in neural autoregressive sequence modeling

identifying weaknesses in Machine Translation Metrics Through Minimum Bayes Risk Decoding: A Cas Start Conference
Study for COMET
Chantal Amrhein and Rico Sennrich
Whodunit? Learning to Contrast for Authorship Attribution
Bo Ai, Yuchen Wang, Yugin Tan and Samson Tan
Higher-Order Dependency Parsing for Arc-Polynomial Score Functions via Gradient-Based Method and Genetic Algorithm
xudong zhang, Joseph Le Roux and Thierry Charnois
Underspecification in Scene Description-to-Depiction Tasks
Ben Hutchinson, Jason Baldridge and Vinodkumar Prabhakaran
COFAR: Commonsense and Factual Reasoning in Image Search
Prajwal Gatti, Abhirama Subramanyam Penamakuri, Revant Teotia, Anand Mishra, Shubhashi
Sengupta and Roshni Ramnani