

ACL 2018

**The 56th Annual Meeting of the
Association for Computational Linguistics**

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Message from the General Chair

It is an honor to write the initial words of this proceedings as General Chair of the 56th Annual Meeting of the Association for Computational Linguistics! This is only the second time that an ACL conference has been held in Australia — the first time was for the joint COLING/ACL conference in June of 2006 in Sydney, and I was one of its Program Chairs. For ACL 2018 we have tried to maintain the welcoming and intimate spirit and the relaxed and genial character of the much smaller ACL conferences of the past in spite of the ever-growing number of researchers in the field and participants in our conferences.

It is my pleasure here to express gratitude to all those without whom this conference would not exist. My biggest thanks go to the Program Chairs Iryna Gurevych and Yusuke Miyao, as well as to Local Chairs Tim Baldwin, Trevor Cohn and Karin Verspoor. They have done a tremendous job to manage the submission and review process, and the local arrangement details, respectively.

I also want to thank all of the other chairs for their very hard work: Workshops Chairs Brendan O'Connor and Eva Maria Vecchi; Tutorials Chairs Yoav Artzi and Jacob Eisenstein; Demo Chairs Fei Liu and Tamar Solorio; Student Research Workshop Organizers Vered Shwartz, Jeniya Tabassum and Rob Voigt; Faculty Advisors to the Student Research Workshop Marie-Catherine de Marneffe, Wanxiang Che and Malvina Nissim; Publications Chairs Shay Cohen, Kevin Gimpel and Wei Lu; Exhibits Coordinator Karin Vespoor; Student Volunteer Coordinator Karin Vespoor; Conference Handbook Chairs Jey Han Lau and Trevor Cohn; Publicity Chair Sarvnaz Karimi; Local Sponsorship Chair Cecile Paris; Webmaster Andrew MacKinlay; and Priscilla Rasmussen, giver of advice and wisdom to all of us as ACL Business Manager.

I also warmly thank the ACL Executive Committee for its guidance and advice on many important issues and concerns as they arose.

I am also extremely grateful to all the sponsors for their great support to the conference.

Many thanks to the area chairs, the reviewers, the invited speakers, the authors of the various papers, posters and presentations.

And, finally, many many thanks to all the participants who will put the final touches on making ACL 2018 an exciting, stimulating and inspiring event!

Claire Cardie
ACL 2018 General Chair
July 2018

Message from the Program Committee Co-Chairs

Welcome to the 56th Annual Meeting of the Association for Computational Linguistics 2018 – or ACL 2018 for short.

In September 2017, Program Committee Co-Chairs (PCs) posted the call for nominations of Area Chairs (AC), Reviewers and Invited Speakers. We received 752 responses in total. Overall, out of 388 valid nominations for area chairs, 299 unique persons were suggested; 110 persons were self-nominations. About 70% of the 56 selected area chairs (later expanded to 61 area chairs due to the high number of submissions) were nominated by the community. For the reviewers, we collected 936 valid nominations. At the PhD level, 139 persons were self-nominations and 129 were nominated by others. At the Postdoc/Ass.Prof. level, 160 were self-nominated, 112 nominated by others. At the Prof. level, 221 persons were self-nominated, 175 nominated by others.

We received 138 unique nominations for invited speakers, from which two invited speakers of the conference were selected:

- Carolyn Penstein Rosé, Language Technologies Institute at Carnegie Mellon University, USA
- Anton van den Hengel, Australian Centre for Visual Technologies at University of Adelaide, Australia

Our community is steadily growing: in total, 1621 submissions were received right after the submission deadline: 1045 long, 576 short papers. 13 erroneous submissions were deleted or withdrawn in the preliminary checks by PCs. 25 papers were rejected without review (16 long, 9 short); the reasons are the violation of the ACL 2018 style and dual submission guidelines. 32 papers were withdrawn before the review period started; the main reason was that the papers have been accepted as the short papers at NAACL HLT 2018. In total, 1551 papers went into the reviewing phase: 1021 long, 530 short papers. 1610 reviewers (1473 primary and 137 secondary reviewers) were involved in the reviewing process; each reviewer has reviewed about 3 papers on average. 3 long and 4 short papers were withdrawn during the reviewing period, and finally 1018 long and 526 short papers were considered during the acceptance decision phase.

The assignment of papers to areas and reviewers has been done in multiple rounds. First round: Initial assignments of papers to areas were determined automatically with the help of the authors' input, while PCs went through all submissions and moved papers to other areas, considering COI and the topical fit. PCs assigned one AC as a meta-reviewer to each paper using Toronto Paper Matching System (TPMS) scores. Second round: ACs looked into the papers in their area, and adjusted meta-reviewer assignments. ACs sent a report to PCs if they found any problems. Third round: PCs made the final decision, considering the workload balance, possible COIs and the topical fit. Fourth round: ACs decided which reviewers would review each paper, based on AC's knowledge about the reviewers, TPMS scores, reviewers' bids, and COI.

We have introduced several innovations to the reviewing process. One of them is an argument-based review form. The reviewers were asked to provide arguments for and against the paper. This has been tremendously helpful for ACs and PCs to analyze the reviews and come up with final recommendations. The authors were asked to respond to the con arguments during the rebuttal. In coordination with the NAACL HLT 2018 PCs, we plan to do some analytics on anonymized reviews and rebuttal statements, with the consent of the reviewers and authors. Our purpose is to improve the quality of the review process. The data will be compiled into a unique corpus for NLP, and will be made available to the research community after appropriate anonymization checks, at the earliest in 2 years after ACL 2018.

We hope to provide data on *how to review* to younger researchers, and to improve the transparency of the reviewing process in general.

The ACL 2018 conference is super-competitive: We accepted 256 out of 1018 submitted long papers and 125 out of 526 short papers, with an overall acceptance rate of 24.7%. The details of the review process are available at the conference homepage. Criteria of acceptance were mainly:

- strengths/weaknesses raised by reviewers and their significance;
- the result of discussions and author responses;
- contribution to CL as the science of language: whether the paper advances (or contributes to) our understanding of language in any way;
- diversity: we do not want to fill ACL with similar papers like achieving 1% improvement on a well-known task.

We also considered the balance of paper types, topics and contributions and re-considered the acceptance when reviewers reported any problem in preliminary checks (*Appropriateness to Handling of Human Participants*).

Continuing the tradition, ACL 2018 will feature 20 papers which were accepted for publication in the Transactions of the Association for Computational Linguistics (TACL). The TACL papers were split into 10 oral presentations and 10 poster presentations.

There are many people to thank for who have worked diligently to make ACL 2018 possible. All names are listed in the Program Committee section of the Front Matter.

Since the conference size continues to grow and the organizational complexity increases, we have introduced the role of Program Committee Co-Chair Assistants. In total, 5 senior researchers have supported the PCs during most intensive work phases to handle the communication in a timely manner, draft various documents and effectively prepare decisions.

Thanks to our area chairs for their hard work on recruiting reviewers, managing reviews, leading discussions, and making recommendations.

This program certainly would not be possible without the help of the 1610 reviewers. In particular, 192 reviewers from this list were recognized by the area chairs as outstanding reviewers who have turned in exceptionally well-written and constructive reviews and who have actively engaged themselves in the post-rebuttal discussions.

We are also deeply indebted to the best paper selection committee which consists of 22 members. They had to additionally review 6-8 papers according to the best paper criteria on short notice. Their time and effort in recommending the best paper awards is much appreciated.

We also would like to thank many colleagues for generously sharing their experience in organizing prior ACL conferences and for their advice. We are grateful for the guidance and the support of the ACL presidents Joakim Nivre and Marti Hearst, and the ACL board. We also would like to thank the publication co-chairs Shay Cohen, Kevin Gimpel and Wei Lu (Advisory) and the handbook chair Jey Han Lau for putting together the proceedings and the conference handbook; and Rich Gerber from Softconf for always being responsive to our requests. We would like to thank the ACL Business Manager Priscilla Rasmussen for helping us to sort important things out. Finally, this conference could not have happened without the efforts of the general chair, Claire Cardie. We thank her for the leadership and advice, especially when matters got complicated.

We hope you will enjoy ACL 2018 and contribute to the future success of our community!

ACL 2018 Program Committee Co-Chairs

Iryna Gurevych, TU Darmstadt, Germany

Yusuke Miyao, National Institute of Informatics, Japan

The process for selecting best papers and honourable mentions

The Program Committee Co-Chairs (PCs) have defined a multi-step process. Area Chairs (ACs) were asked to select a number of top papers in their areas satisfying as many as possible of the following criteria:

- high quality
- nominated for the award by at least one primary reviewer
- bringing disruptive ground-breaking innovation as compared to the current mainstream

ACs re-read their finalists and discussed among themselves the merits of the nominee's work with the help of the primary reviews. ACs then submitted the papers to the PCs along with their selection decisions. PCs balanced ACs' nominations for diversity and representativeness among areas and the review consistency. They prepared the papers in Softconf for best-paper reviewing and selection. There were 52 best paper candidates.

In parallel, PCs formed the best paper selection committee (BPC) from 22 experts in the field with a mix of expertise and backgrounds and at a good seniority level. In case of COIs, the BPC member was excluded from the further evaluation process. BPC members reviewed 6-8 papers each and provided a short review with respect to the best paper criteria.

Based on BPC recommendations, there were about 20 papers left in the pool. PCs then re-read those papers and discussed their particular merits. Finally, 6 long papers and 2 short papers were selected as honourable mentions. For the best papers, 3 long papers and 2 short papers were selected for presentation in the closing conference session.

The selected honourable mentions and best papers emphasize the diversity of the ACL in terms of research questions, methods, and interdisciplinarity.

Best Long Papers

- *Finding syntax in human encephalography with beam search.* John Hale, Chris Dyer, Adhiguna Kuncoro and Jonathan Brennan.
- *Learning to Ask Good Questions: Ranking Clarification Questions using Neural Expected Value of Perfect Information.* Sudha Rao and Hal Daumé III.
- *Let's do it "again": A First Computational Approach to Detecting Adverbial Presupposition Triggers.* Andre Cianflone, Yulan Feng, Jad Kabbara and Jackie Chi Kit Cheung.

Best Short Papers

- *Know What You Don't Know: Unanswerable Questions for SQuAD.* Pranav Rajpurkar, Robin Jia and Percy Liang.
- *'Lighter' Can Still Be Dark: Modeling Comparative Color Descriptions.* Olivia Winn and Smaranda Muresan.

Invited Talk: Deep Neural Networks, and what they're not very good at

Anton van den Hengel

Professor, School of Computer Science, University of Adelaide

Abstract: Deep Neural Networks have had an incredible impact in a variety of areas within machine learning, including computer vision and natural language processing. Deep Neural Networks use implicit representations that are very high-dimensional, however, and are thus particularly well suited to problems that can be solved by associative recall of previous solutions. They are ill-suited to problems that require human-interpretable representations, explicit manipulation of symbols, or reasoning. The dependency of Deep Neural Networks on large volumes of training data, also means that they are typically only applicable when the problem itself, and the nature of the test data, are predictable long in advance.

The application of Deep Neural Networks to Visual Question Answering has achieved results that would have been thought impossible only a few years ago. It has also thrown a spotlight on the shortcomings of current Deep Nets in solving problems that require explicit reasoning, the use of a knowledge base, or the ability to learn on the fly. In this talk I will illustrate some of the steps being taken to address these problems, and a new learning-to-learn approach that we hope will combine the power of Deep Learning with the significant benefits of explicit-reasoning-based methods.

Bio: Anton van den Hengel is a Professor in the School of Computer Science at the University of Adelaide, the Director of the Australian Institute for Machine Learning, and a Chief Investigator of the Australian Centre for Robotic Vision. Prof. van den Hengel has been a CI on over \$60m in external research funding from sources including Google, Canon, BHP Billiton and the ARC, and has won a number of awards, including the Pearcey Foundation Entrepreneur Award, the SA Science Excellence Award for Research Collaboration, and the CVPR Best Paper prize in 2010. He has authored over 300 publications, had 8 patents commercialised, formed 2 start-ups, and has recently had a medical technology achieve first-in-class FDA approval. Current research interests include Deep Learning, vision and language problems, interactive image-based modelling, large-scale video surveillance, and learning from large image databases.

Invited Talk: Who is the Bridge Between the What and the How

Carolyn Penstein Rosé

Professor, School of Computer Science, Carnegie Mellon University

Abstract: This talk reports on over a decade of research where theoretical foundations motivate computational models that produce real world impact in online spaces. Both the earliest philosophers of language and the most recent researchers in computational approaches to social media analysis have acknowledged the distinction between the what of language, namely its propositional content, and the how of language, or its form, style, or framing. What bridges between these realms are social processes that motivate the linguistic choices that result in specific realizations of propositional content situated within social interactions, designed to achieve social goals. These insights allow researchers to make sense of the connection between discussion processes and outcomes from those discussions. These findings motivate on the one hand design of computational approaches to real time monitoring of discussion processes and on the other hand the design of interventions that support interactions in online spaces with the goal of increasing desired outcomes, including learning, health, and wellbeing.

As an example, in this talk we probe into a specific quality of discussion referred to as Transactivity. Transactivity is the extent to which a contribution articulates the reasoning of the speaker, that of an interlocutor, and the relation between them. In different contexts, and within very distinct theoretical frameworks, this construct has been associated with solidarity, influence, expertise transfer, and learning. Within the construct of Transactivity, the cognitive and social underpinnings are inextricably linked such that modeling the who enables prediction of the connection between the what and the how.

Bio: Dr. Carolyn Rosé is a Professor of Language Technologies and Human-Computer Interaction in the School of Computer Science at Carnegie Mellon University. Her research program is focused on better understanding the social and pragmatic nature of conversation, and using this understanding to build computational systems that can improve the efficacy of conversation between people, and between people and computers. In order to pursue these goals, she invokes approaches from computational discourse analysis and text mining, conversational agents, and computer supported collaborative learning. Her research group's highly interdisciplinary work, published in 200 peer reviewed publications, is represented in the top venues in 5 fields: namely, Language Technologies, Learning Sciences, Cognitive Science, Educational Technology, and Human-Computer Interaction, with awards in 3 of these fields. She serves as Past President and Inaugural Fellow of the International Society of the Learning Sciences, Chair of the International Alliance to Advance Learning in the Digital Era, and Executive Editor of the International Journal of Computer-Supported Collaborative Learning.

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Conference Program

Monday, July 16, 2018

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10:00–10:30 *Coffee Break*

12:30–14:00 *Poster Session IA: Machine Learning*

Continuous Learning in a Hierarchical Multiscale Neural Network

Thomas Wolf, Julien Chaumond and Clement Delangue

Restricted Recurrent Neural Tensor Networks: Exploiting Word Frequency and Compositionality

Alexandre Salle and Aline Villavicencio

Deep RNNs Encode Soft Hierarchical Syntax

Terra Blevins, Omer Levy and Luke Zettlemoyer

Word Error Rate Estimation for Speech Recognition: e-WER

Ahmed Ali and Steve Renals

Towards Robust and Privacy-preserving Text Representations

Yitong Li, Timothy Baldwin and Trevor Cohn

HotFlip: White-Box Adversarial Examples for Text Classification

Javid Ebrahimi, Anyi Rao, Daniel Lowd and Dejing Dou

Domain Adapted Word Embeddings for Improved Sentiment Classification

Prathusha K Sarma, Yingyu Liang and Bill Sethares

12:30–14:00 *Poster Session IB: Semantics*

Active learning for deep semantic parsing

Long Duong, Hadi Afshar, Dominique Estival, Glen Pink, Philip Cohen and Mark Johnson

Monday, July 16, 2018 (continued)

Learning Thematic Similarity Metric from Article Sections Using Triplet Networks

Liat Ein Dor, Yosi Mass, Alon Halfon, Elad Venezian, Ilya Shnayderman, Ranit Aharonov and Noam Slonim

Unsupervised Semantic Frame Induction using Triclustering

Dmitry Ustalov, Alexander Panchenko, Andrey Kutuzov, Chris Biemann and Simone Paolo Ponzetto

12:30–14:00 *Poster Session 1C: Information Extraction, Text Mining*

Identification of Alias Links among Participants in Narratives

Sangameshwar Patil, Sachin Pawar, Swapnil Hingmire, Girish Palshikar, Vasudeva Varma and Pushpak Bhattacharyya

Named Entity Recognition With Parallel Recurrent Neural Networks

Andrej Zukov Gregoric, Yoram Bachrach and Sam Coope

Type-Sensitive Knowledge Base Inference Without Explicit Type Supervision

Prachi Jain, Pankaj Kumar, Mausam - and Soumen Chakrabarti

A Walk-based Model on Entity Graphs for Relation Extraction

Fenia Christopoulou, Makoto Miwa and Sophia Ananiadou

Ranking-Based Automatic Seed Selection and Noise Reduction for Weakly Supervised Relation Extraction

Van-Thuy Phi, Joan Santoso, Masashi Shimbo and Yuji Matsumoto

Automatic Extraction of Commonsense Located Near Knowledge

Frank F. Xu, Bill Yuchen Lin and Kenny Zhu

12:30–14:00 *Poster Session 1D: Discourse, Linguistics, Cognitive Modeling*

Neural Coreference Resolution with Deep Biaffine Attention by Joint Mention Detection and Mention Clustering

Rui Zhang, Cicero Nogueira dos Santos, Michihiro Yasunaga, Bing Xiang and Dragomir Radev

Fully Statistical Neural Belief Tracking

Nikola Mrkšić and Ivan Vulić

Monday, July 16, 2018 (continued)

Some of Them Can be Guessed! Exploring the Effect of Linguistic Context in Predicting Quantifiers

Sandro Pezzelle, Shane Steinert-Threlkeld, Raffaella Bernardi and Jakub Szymanik

12:30–14:00 *Poster Session 1E: Resources and Evaluation*

A Named Entity Recognition Shootout for German

Martin Riedl and Sebastian Padó

A dataset for identifying actionable feedback in collaborative software development

Benjamin S Meyers, Nuthan Munaiah, Emily Prud'hommeaux, Andrew Meneely, Josephine Wolff, Cecilia Ovesdotter Alm and Pradeep Murukannaiah

SNAG: Spoken Narratives and Gaze Dataset

Preethi Vaidyanathan, Emily T. Prud'hommeaux, Jeff B. Pelz and Cecilia O. Alm

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Automatic Article Commenting: the Task and Dataset

Lianhui Qin, Lemao Liu, Wei Bi, Yan Wang, Xiaojiang Liu, Zhiting Hu, Hai Zhao and Shuming Shi

Improved Evaluation Framework for Complex Plagiarism Detection

Anton Belyy, Marina Dubova and Dmitry Nekrasov

12:30–14:00 *Poster Session 1F: Summarization, Social Media*

Global Encoding for Abstractive Summarization

Junyang Lin, Xu SUN, Shuming Ma and Qi Su

A Language Model based Evaluator for Sentence Compression

Yang Zhao, Zhiyuan Luo and Akiko Aizawa

Monday, July 16, 2018 (continued)

Identifying and Understanding User Reactions to Deceptive and Trusted Social News Sources

Maria Glenski, Tim Weninger and Svitlana Volkova

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Fighting Offensive Language on Social Media with Unsupervised Text Style Transfer

Cicero Nogueira dos Santos, Igor Melnyk and Inkit Padhi

Diachronic degradation of language models: Insights from social media

Kokil Jaidka, Niyati Chhaya and Lyle Ungar

Tuesday, July 17, 2018

9:00–10:00 *Invited Talk 1: Carolyn Penstein Rosé*

10:00–10:30 *Coffee Break*

12:30–14:00 *Poster Session 2B: Dialog and Interactive Systems, Multilinguality*

Task-oriented Dialogue System for Automatic Diagnosis

Zhongyu Wei, Qianlong Liu, Baolin Peng, Huaixiao Tou, Ting Chen, Xuanjing Huang, Kam-Fai Wong and Xiangying Dai

Transfer Learning for Context-Aware Question Matching in Information-seeking Conversations in E-commerce

Minghui Qiu, Liu Yang, Feng Ji, Wei Zhou, Jun Huang, Haiqing Chen, Bruce Croft and Wei Lin

A Multi-task Approach to Learning Multilingual Representations

Karan Singla, Dogan Can and Shrikanth Narayanan

Characterizing Departures from Linearity in Word Translation

Ndapa Nakashole and Raphael Flauger

Filtering and Mining Parallel Data in a Joint Multilingual Space

Holger Schwenk

Tuesday, July 17, 2018 (continued)

12:30–14:00 *Poster Session 2C: Information Extraction, Text Mining*

Hybrid semi-Markov CRF for Neural Sequence Labeling

Zhixiu Ye and Zhen-Hua Ling

A Study of the Importance of External Knowledge in the Named Entity Recognition Task

Dominic Seyler, Tatiana Dembelova, Luciano Del Corro, Johannes Hoffart and Gerhard Weikum

Improving Topic Quality by Promoting Named Entities in Topic Modeling

Katsiaryna Krasnashchok and Salim Jouili

Obligation and Prohibition Extraction Using Hierarchical RNNs

Ilias Chalkidis, Ion Androutsopoulos and Achilleas Michos

12:30–14:00 *Poster Session 2D: Generation*

Paper Abstract Writing through Editing Mechanism

Qingyun Wang, Zhihao Zhou, Lifu Huang, Spencer Whitehead, Boliang Zhang, Heng Ji and Kevin Knight

Conditional Generators of Words Definitions

Artyom Gadetsky, Ilya Yakubovskiy and Dmitry Vetrov

12:30–14:00 *Poster Session 2E: Question Answering*

CNN for Text-Based Multiple Choice Question Answering

Akshay Chaturvedi, Onkar Pandit and Utpal Garain

Narrative Modeling with Memory Chains and Semantic Supervision

Fei Liu, Trevor Cohn and Timothy Baldwin

Injecting Relational Structural Representation in Neural Networks for Question Similarity

Antonio Uva, Daniele Bonadiman and Alessandro Moschitti

Tuesday, July 17, 2018 (continued)

12:30–14:00 *Poster Session 2F: Machine Translation*

A Simple and Effective Approach to Coverage-Aware Neural Machine Translation

Yanyang Li, Tong Xiao, Yinqiao Li, Qiang Wang, Changming Xu and Jingbo Zhu

Dynamic Sentence Sampling for Efficient Training of Neural Machine Translation

Rui Wang, Masao Utiyama and Eiichiro Sumita

Compositional Representation of Morphologically-Rich Input for Neural Machine Translation

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Extreme Adaptation for Personalized Neural Machine Translation

Paul Michel and Graham Neubig

Multi-representation ensembles and delayed SGD updates improve syntax-based NMT

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Learning from Chunk-based Feedback in Neural Machine Translation

Pavel Petrushkov, Shahram Khadivi and Evgeny Matusov

Bag-of-Words as Target for Neural Machine Translation

Shuming Ma, Xu SUN, Yizhong Wang and Junyang Lin

Improving Beam Search by Removing Monotonic Constraint for Neural Machine Translation

Raphael Shu and Hideki Nakayama

Tuesday, July 17, 2018 (continued)

Session 5A: Semantics 1 (Short)

- 14:00–14:15 *Leveraging distributed representations and lexico-syntactic fixedness for token-level prediction of the idiomaticity of English verb-noun combinations*
Milton King and Paul Cook
- 14:15–14:30 *Using pseudo-senses for improving the extraction of synonyms from word embeddings*
Olivier Ferret
- 14:30–14:45 *Hearst Patterns Revisited: Automatic Hypernym Detection from Large Text Corpora*
Stephen Roller, Douwe Kiela and Maximilian Nickel
- 14:45–15:00 *Jointly Predicting Predicates and Arguments in Neural Semantic Role Labeling*
Luheng He, Kenton Lee, Omer Levy and Luke Zettlemoyer

Session 5B: Machine Translation, Multilinguality 1 (Short)

- 14:00–14:15 *Sparse and Constrained Attention for Neural Machine Translation*
Chaitanya Malaviya, Pedro Ferreira and André F. T. Martins
- 14:15–14:30 *Neural Hidden Markov Model for Machine Translation*
Weiyue Wang, Derui Zhu, Tamer Alkhouli, Zixuan Gan and Hermann Ney
- 14:30–14:45 *Bleaching Text: Abstract Features for Cross-lingual Gender Prediction*
Rob van der Goot, Nikola Ljubešić, Ian Matroos, Malvina Nissim and Barbara Plank
- 14:45–15:00 *Orthographic Features for Bilingual Lexicon Induction*
Parker Riley and Daniel Gildea

Tuesday, July 17, 2018 (continued)

Session 5C: Information Extraction 1 (Short)

- 14:00–14:15 *Neural Cross-Lingual Coreference Resolution And Its Application To Entity Linking*
Gourab Kundu, Avi Sil, Radu Florian and Wael Hamza
- 14:15–14:30 *Judicious Selection of Training Data in Assisting Language for Multilingual Neural NER*
Rudra Murthy, Anoop Kunchukuttan and Pushpak Bhattacharyya
- 14:30–14:45 *Neural Open Information Extraction*
Lei Cui, Furu Wei and Ming Zhou
- 14:45–15:00 *Document Embedding Enhanced Event Detection with Hierarchical and Supervised Attention*
Yue Zhao, Xiaolong Jin, Yuanzhuo Wang and Xueqi Cheng

Session 5D: Dialog System, Discourse (Short)

- 14:00–14:15 *Learning Matching Models with Weak Supervision for Response Selection in Retrieval-based Chatbots*
Yu Wu, wei wu, Zhoujun Li and Ming Zhou
- 14:15–14:30 *Improving Slot Filling in Spoken Language Understanding with Joint Pointer and Attention*
Lin Zhao and Zhe Feng
- 14:30–14:45 *Large-Scale Multi-Domain Belief Tracking with Knowledge Sharing*
Osman Ramadan, Paweł Budzianowski and Milica Gasic
- 14:45–15:00 *Modeling discourse cohesion for discourse parsing via memory network*
Yanyan Jia, Yuan Ye, Yansong Feng, Yuxuan Lai, Rui Yan and Dongyan Zhao

Tuesday, July 17, 2018 (continued)

Session 5E: Vision, Linguistics, Resource and Evaluation (Short)

- 14:00–14:15 *SciDTB: Discourse Dependency TreeBank for Scientific Abstracts*
An Yang and Sujian Li
- 14:15–14:30 *Predicting accuracy on large datasets from smaller pilot data*
Mark Johnson, Peter Anderson, Mark Dras and Mark Steedman
- 14:30–14:45 *The Influence of Context on Sentence Acceptability Judgements*
Jean-Philippe Bernardy, Shalom Lappin and Jey Han Lau
- 14:45–15:00 *Do Neural Network Cross-Modal Mappings Really Bridge Modalities?*
Guillem Collell and Marie-Francine Moens

Session 5F: Parsing, Morphology (Short)

- 14:00–14:15 *Policy Gradient as a Proxy for Dynamic Oracles in Constituency Parsing*
Daniel Fried and Dan Klein
- 14:15–14:30 *Linear-time Constituency Parsing with RNNs and Dynamic Programming*
Juneki Hong and Liang Huang
- 14:30–14:45 *Simpler but More Accurate Semantic Dependency Parsing*
Timothy Dozat and Christopher D. Manning
- 14:45–15:00 *Simplified Abugidas*
Chenchen Ding, Masao Utiyama and Eiichiro Sumita

15:00–15:30 *Coffee Break*

17:20–18:50 *ACL Business Meeting*

Tuesday, July 17, 2018 (continued)

19:30–22:30 *Social Event*

Wednesday, July 18, 2018

9:00–10:00 *Invited Talk 2: Anton van den Hengel*

10:00–10:30 *Coffee Break*

12:30–14:00 *Poster Session 3A: Student Research Workshop*

12:30–14:00 *Poster Session 3B: Document Analysis*

Automatic Academic Paper Rating Based on Modularized Hierarchical Convolutional Neural Network

Pengcheng Yang, Xu SUN, Wei Li and Shuming Ma

Automated essay scoring with string kernels and word embeddings

Madalina Cozma, Andrei Butnaru and Radu Tudor Ionescu

Party Matters: Enhancing Legislative Embeddings with Author Attributes for Vote Prediction

Anastassia Kornilova, Daniel Argyle and Vladimir Eidelman

Dynamic and Static Topic Model for Analyzing Time-Series Document Collections

Rem Hida, Naoya Takeishi, Takehisa Yairi and Koichi Hori

PhraseCTM: Correlated Topic Modeling on Phrases within Markov Random Fields

Weijing Huang

A Document Descriptor using Covariance of Word Vectors

Marwan Torki

12:30–14:00 *Poster Session 3C: Semantics*

Wednesday, July 18, 2018 (continued)

Learning with Structured Representations for Negation Scope Extraction

Hao Li and Wei Lu

End-Task Oriented Textual Entailment via Deep Explorations of Inter-Sentence Interactions

Wenpeng Yin, Dan Roth and Hinrich Schütze

Sense-Aware Neural Models for Pun Location in Texts

Yitao Cai, Yin Li and Xiaojun Wan

A Rank-Based Similarity Metric for Word Embeddings

Enrico Santus, Hongmin Wang, Emmanuele Chersoni and Yue Zhang

Addressing Noise in Multidialectal Word Embeddings

Alexander Erdmann, Nasser Zalmout and Nizar Habash

GNEG: Graph-Based Negative Sampling for word2vec

Zheng Zhang and Pierre Zweigenbaum

Unsupervised Learning of Style-sensitive Word Vectors

Reina Akama, Kento Watanabe, Sho Yokoi, Sosuke Kobayashi and Kentaro Inui

12:30–14:00 *Poster Session 3D: Sentiment Analysis and Argument Mining*

Exploiting Document Knowledge for Aspect-level Sentiment Classification

Ruidan He, Wee Sun Lee, Hwee Tou Ng and Daniel Dahlmeier

Modeling Sentiment Association in Discourse for Humor Recognition

Lizhen Liu, Donghai Zhang and Wei Song

Double Embeddings and CNN-based Sequence Labeling for Aspect Extraction

Hu Xu, Bing Liu, Lei Shu and Philip S. Yu

Will it Blend? Blending Weak and Strong Labeled Data in a Neural Network for Argumentation Mining

Eyal Shnarch, Carlos Alzate, Lena Dankin, Martin Gleize, Yufang Hou, Leshem Choshen, Ranit Aharonov and Noam Slonim

Wednesday, July 18, 2018 (continued)

12:30–14:00 *Poster Session 3E: Vision, Multimodal, Grounding, Speech*

Investigating Audio, Video, and Text Fusion Methods for End-to-End Automatic Personality Prediction

Onno Kampman, Elham J. Barezi, Dario Bertero and Pascale Fung

12:30–14:00 *Poster Session 3F: Morphology, Tagging, Parsing*

An Empirical Study of Building a Strong Baseline for Constituency Parsing

Jun Suzuki, Sho Takase, Hidetaka Kamigaito, Makoto Morishita and Masaaki Nagata

Parser Training with Heterogeneous Treebanks

Sara Stymne, Miryam de Lhoneux, Aaron Smith and Joakim Nivre

Generalized chart constraints for efficient PCFG and TAG parsing

Stefan Grünewald, Sophie Henning and Alexander Koller

Session 8A: Semantics 2 (Short)

14:00–14:15 *Exploring Semantic Properties of Sentence Embeddings*

Xunjie Zhu, Tingfeng Li and Gerard de Melo

14:15–14:30 *Scoring Lexical Entailment with a Supervised Directional Similarity Network*

Marek Rei, Daniela Gerz and Ivan Vulić

14:30–14:45 *Extracting Commonsense Properties from Embeddings with Limited Human Guidance*

Yiben Yang, Larry Birnbaum, Ji-Ping Wang and Doug Downey

14:45–15:00 *Breaking NLI Systems with Sentences that Require Simple Lexical Inferences*

Max Glockner, Vered Shwartz and Yoav Goldberg

Wednesday, July 18, 2018 (continued)

Session 8B: Machine Translation, Multilinguality 2 (Short)

- 14:00–14:15 *Adaptive Knowledge Sharing in Multi-Task Learning: Improving Low-Resource Neural Machine Translation*
Poorya Zaremoondi, Wray Buntine and Gholamreza Haffari
- 14:15–14:30 *Automatic Estimation of Simultaneous Interpreter Performance*
Craig Stewart, Nikolai Vogler, Junjie Hu, Jordan Boyd-Graber and Graham Neubig
- 14:30–14:45 *Polyglot Semantic Role Labeling*
Phoebe Mulcaire, Swabha Swayamdipta and Noah A. Smith
- 14:45–15:00 *Learning Cross-lingual Distributed Logical Representations for Semantic Parsing*
Yanyan Zou and Wei Lu

Session 8C: Information Extraction 2 (Short)

- 14:00–14:15 *Enhancing Drug-Drug Interaction Extraction from Texts by Molecular Structure Information*
Masaki Asada, Makoto Miwa and Yutaka Sasaki
- 14:15–14:30 *diaNED: Time-Aware Named Entity Disambiguation for Diachronic Corpora*
Prabal Agarwal, Jannik Strötgen, Luciano Del Corro, Johannes Hoffart and Gerhard Weikum
- 14:30–14:45 *Examining Temporality in Document Classification*
Xiaolei Huang and Michael J. Paul
- 14:45–15:00 *Personalized Language Model for Query Auto-Completion*
Aaron Jaech and Mari Ostendorf

Wednesday, July 18, 2018 (continued)

Session 8D: Generation, Summarization (Short)

- 14:00–14:15 *Personalized Review Generation By Expanding Phrases and Attending on Aspect-Aware Representations*
Jianmo Ni and Julian McAuley
- 14:15–14:30 *Learning Simplifications for Specific Target Audiences*
Carolina Scarton and Lucia Specia
- 14:30–14:45 *Split and Rephrase: Better Evaluation and Stronger Baselines*
Roe Aharoni and Yoav Goldberg
- 14:45–15:00 *Autoencoder as Assistant Supervisor: Improving Text Representation for Chinese Social Media Text Summarization*
Shuming Ma, Xu SUN, Junyang Lin and Houfeng WANG

Session 8E: Machine Learning, Question Answering (Short)

- 14:00–14:15 *Long Short-Term Memory as a Dynamically Computed Element-wise Weighted Sum*
Omer Levy, Kenton Lee, Nicholas FitzGerald and Luke Zettlemoyer
- 14:15–14:30 *On the Practical Computational Power of Finite Precision RNNs for Language Recognition*
Gail Weiss, Yoav Goldberg and Eran Yahav
- 14:30–14:45 *A Co-Matching Model for Multi-choice Reading Comprehension*
Shuohang Wang, Mo Yu, Jing Jiang and Shiyu Chang
- 14:45–15:00 *Tackling the Story Ending Biases in The Story Cloze Test*
Rishi Sharma, James Allen, Omid Bakhshandeh and Nasrin Mostafazadeh

Wednesday, July 18, 2018 (continued)

Session 8F: Sentiment (Short)

- 14:00–14:15 *A Multi-sentiment-resource Enhanced Attention Network for Sentiment Classification*
Zeyang Lei, Yujiu Yang, Min Yang and Yi Liu
- 14:15–14:30 *Pretraining Sentiment Classifiers with Unlabeled Dialog Data*
Toru Shimizu, Nobuyuki Shimizu and Hayato Kobayashi
- 14:30–14:45 *Disambiguating False-Alarm Hashtag Usages in Tweets for Irony Detection*
Hen-Hsen Huang, Chiao-Chen Chen and Hsin-Hsi Chen
- 14:45–15:00 *Cross-Target Stance Classification with Self-Attention Networks*
Chang Xu, Cecile Paris, Surya Nepal and Ross Sparks

15:00–15:30 *Coffee Break*

Session 9A: Best Paper Session

- 15:30–15:45 *Know What You Don't Know: Unanswerable Questions for SQuAD*
Pranav Rajpurkar, Robin Jia and Percy Liang
- 15:45–16:00 *'Lighter' Can Still Be Dark: Modeling Comparative Color Descriptions*
Olivia Winn and Smaranda Muresan

17:15–17:30 *Short Break*

17:30–18:30 *Lifetime Achievement Award*

18:30–18:45 *Closing Session*

