

On this page, you can choose the sessions (and individual papers/posters) of your choice *and* generate a PDF of your customized schedule! This page should work on modern browsers on all operating systems. On mobile devices, Safari on iOS and Chrome on Android are the only browsers known to work. For the best experience, use a non-mobile device with a resolution of at least 1920x1080 and a full-screen browser. For help, simply type "?" while on the page or click on the "Help" button.

Help

Collapse All Sessions ↑

Sunday, June 02, 2019

Breakfast

7:30 – 9:00

Greenway Promenade AJ

☰ Morning Tutorials

9:00 – 12:30

Deep Adversarial Learning for NLP. William Yang Wang, Sameer Singh and Jiwei Li.

Greenway DE/FG

Deep Learning for Natural Language Inference. Samuel Bowman and Xiaodan Zhu.

Greenway BC/HI

Measuring and Modeling Language Change. Jacob Eisenstein.

Greenway J

Morning Break

10:30 – 11:00

Nicollet Promenade

Lunch Break

12:30 – 14:00

☰ Afternoon Tutorials

14:00 – 17:30

Transfer Learning in Natural Language Processing. Sebastian Ruder, Matthew E. Peters, Swabha Swayamdipta and Thomas Wolf.

Greenway DE/FG

Language Learning and Processing in People and Machines. Aida Nematzadeh, Richard Futrell and Roger Levy.

Greenway BC/HI

Applications of Natural Language Processing in Clinical Research and Practice. Yanshan Wang, Ahmad Tafti, Sunghwan Sohn and Rui Zhang.

Greenway J

Afternoon Break

15:30 – 16:00

Nicollet Promenade

Welcome Reception

18:00 – 20:00


Nicollet Ballroom

Monday, June 03, 2019

Breakfast

7:30 – 9:00

Hyatt Exhibit Hall

Land Acknowledgment, Opening Remarks and Janyce Wiebe and Richard Kittredge Remembrances 

9:00 – 9:30

Nicollet Ballroom

☰ Keynote 1: "Data as a Mirror of Society: Lessons from the Emerging Science of Fairness in Machine Learning"

Arvind Narayanan (Princeton University) (<http://randomwalker.info>)

9:30 – 10:30

Nicollet Ballroom

Language corpora reflect human society, including cultural stereotypes, prejudices, and historical patterns. By default, statistical language models will absorb these stereotypes. As a result, NLP systems for word analogy generation, toxicity detection, and many other tasks have been found to reflect racial and gender biases. Based on this observation, I will discuss two emerging research directions. First, a deeper understanding of human culture can help identify possible harmful stereotypes in algorithmic systems. The second research direction is the converse of the first: if data is a mirror of society, machine learning can be used as a magnifying lens to study human culture.

Coffee Break

10:30 – 11:00

Hyatt Exhibit Hall

Long Orals / Long & Short Posters

☰ 1A: Cognitive

11:00 – 12:30

Nicollet B/C

Choose All Remove All

👤: Serguei Pakhomov; 🐦: [Sudipta Kar \(https://twitter.com/criptexcode\)](https://twitter.com/criptexcode)

11:00–
11:18 **Entity Recognition at First Sight: Improving NER with Eye Movement Information.** *Nora Hollenstein and Ce Zhang* 📄

11:18–
11:36 **The emergence of number and syntax units in LSTM language models.** *Yair Lakretz, Germán Kruszewski, Théo Desbordes, Dieuwke Hupkes, Stanislas Dehaene and Marco Baroni* 📄

11:36–
11:54 **Neural Self-Training through Spaced Repetition.** *Hadi Amiri* 📄

11:54–
12:12 **Neural language models as psycholinguistic subjects: Representations of syntactic state.** *Richard Futrell, Ethan Wilcox, Takashi Morita, Peng Qian, Miguel Ballesteros and Roger Levy* 📄

12:12–
12:30 **Understanding language-elicited EEG data by predicting it from a fine-tuned language model.** *Dan Schwartz and Tom Mitchell* 📄


☰ 1B: Speech

11:00 – 12:30

Nicollet A

Choose All Remove All

👤: Yang Liu; 🐦: [Nishant Prateek \(https://twitter.com/nisprateek\)](https://twitter.com/nisprateek)

11:00–
11:18 **Pre-training on high-resource speech recognition improves low-resource speech-to-text translation.** Sameer Bansal, Herman Kamper, Karen Livescu, Adam Lopez and Sharon Goldwater 

11:18–
11:36 **Measuring the perceptual availability of phonological features during language acquisition using unsupervised binary stochastic autoencoders.** Cory Shain and Micha Elsner 

11:36–
11:54 **Giving Attention to the Unexpected: Using Prosody Innovations in Disfluency Detection.** Vicky Zayats and Mari Ostendorf 

11:54–
12:12 **Massively Multilingual Adversarial Speech Recognition.** Oliver Adams, Matthew Wiesner, Shinji Watanabe and David Yarowsky 

12:12–
12:30 **Lost in Interpretation: Predicting Untranslated Terminology in Simultaneous Interpretation.** Nikolai Vogler, Craig Stewart and Graham Neubig 

☰ 1C: Generation


11:00 – 12:30

Northstar A

Choose All Remove All

👤: Wei Xu; 🐦: [Nazneen Rajani \(https://twitter.com/nazneenrajani\)](https://twitter.com/nazneenrajani)

11:00–
11:18 **AudioCaps: Generating Captions for Audios in The Wild.** Chris Dongjoo Kim, Byeongchang Kim, Hyunmin Lee and Gunhee Kim 

11:18–
11:36 **“President Vows to Cut <Taxes> Hair”: Dataset and Analysis of Creative Text Editing for Humorous Headlines.** Nabil Hossain, John Krumm and Michael Gamon 

11:36–
11:54 **Answer-based Adversarial Training for Generating Clarification Questions.** Sudha Rao and Hal Daumé III 

11:54–
12:12 **Improving Grammatical Error Correction via Pre-Training a Copy-Augmented Architecture with Unlabeled Data.** Wei Zhao, Liang Wang, Kewei Shen, Ruoyu Jia and Jingming Liu 

12:12–
12:30 **Topic-Guided Variational Auto-Encoder for Text Generation.** Wenlin Wang, Zhe Gan, Hongteng Xu, Ruiyi Zhang, Guoyin Wang, Dinghan Shen, Changyou Chen and Lawrence Carin 

☰ 1D: Syntax

11:00 – 12:30

Greenway


Choose All Remove All

👤: Roi Reichart

11:00–
11:18 **Implementation of a Chomsky-Schützenberger n-best parser for weighted multiple context-free grammars.** Thomas Ruprecht and Tobias Denkinger 

11:18–
11:36 **Phylogenetic Multi-Lingual Dependency Parsing.** Mathieu Dehouck and Pascal Denis 

11:36–
11:54 **Discontinuous Constituency Parsing with a Stack-Free Transition System and a Dynamic Oracle.** Maximin Coavoux and Shay B. Cohen 

11:54–
12:12 **How Bad are PoS Tagger in Cross-Corpora Settings? Evaluating Annotation Divergence in the UD Project..** Guillaume Wisniewski and François Yvon 

12:12–
12:30 **CCG Parsing Algorithm with Incremental Tree Rotation.** Miloš Stanojević and Mark Steedman 

☰ 1F: Question Answering, Sentiment, Machine Translation, Resources & Evaluation (Posters)

Question Answering

- #1: A Study of Incorrect Paraphrases in Crowdsourced User Utterances.** *Mohammad-Ali Yaghoub-Zadeh-Fard, Boualem Benatallah, Moshe Chai Barukh and Shayan Zamanirad* [📄](#)
- #2: ComQA: A Community-sourced Dataset for Complex Factoid Question Answering with Paraphrase Clusters.** *Abdalghani Abujabal, Rishiraj Saha Roy, Mohamed Yahya and Gerhard Weikum* [📄](#)
- #3: FreebaseQA: A New Factoid QA Data Set Matching Trivia-Style Question-Answer Pairs with Freebase.** *Kelvin Jiang, Dekun Wu and Hui Jiang* [📄](#)
- #4: Simple Question Answering with Subgraph Ranking and Joint-Scoring.** *Wenbo Zhao, Tagyoung Chung, Anuj Goyal and Angeliki Metallinou* [📄](#)
- #5: Learning to Attend On Essential Terms: An Enhanced Retriever-Reader Model for Open-domain Question Answering.** *Jianmo Ni, Chenguang Zhu, Weizhu Chen and Julian McAuley* [📄](#)
- #6: UHop: An Unrestricted-Hop Relation Extraction Framework for Knowledge-Based Question Answering.** *Zi-Yuan Chen, Chih-Hung Chang, Yi-Pei Chen, Jijnasa Nayak and Lun-Wei Ku* [📄](#)
- #7: BAG: Bi-directional Attention Entity Graph Convolutional Network for Multi-hop Reasoning Question Answering.** *Yu Cao, Meng Fang and Dacheng Tao* [📄](#)
- #8: [SRW] Is It Dish Washer Safe? Automatically Answering “Yes/No” Questions Using Customer Reviews.** *Daria Dziedzic, Carl Vogel and Jennifer Foster* [📄](#)

Sentiment

- #9: Vector of Locally-Aggregated Word Embeddings (VLAWE): A Novel Document-level Representation.** *Radu Tudor Ionescu and Andrei Butnaru* [📄](#)
- #10: Multi-task Learning for Multi-modal Emotion Recognition and Sentiment Analysis.** *Md Shad Akhtar, Dushyant Chauhan, Deepanway Ghosal, Soujanya Poria, Asif Ekbal and Pushpak Bhattacharyya* [📄](#)
- #11: Utilizing BERT for Aspect-Based Sentiment Analysis via Constructing Auxiliary Sentence.** *Chi Sun, Luyao Huang and Xipeng Qiu* [📄](#)
- #12: A Variational Approach to Weakly Supervised Document-Level Multi-Aspect Sentiment Classification.** *Ziqian Zeng, Wenxuan Zhou, Xin Liu and Yangqiu Song* [📄](#)
- #13: HiGRU: Hierarchical Gated Recurrent Units for Utterance-Level Emotion Recognition.** *Wenxiang Jiao, Haiqin Yang, Irwin King and Michael R. Lyu* [📄](#)
- #14: Learning Interpretable Negation Rules via Weak Supervision at Document Level: A Reinforcement Learning Approach.** *Nicolas Pröllochs, Stefan Feuerriegel and Dirk Neumann* [📄](#)
- #15: Simplified Neural Unsupervised Domain Adaptation.** *Timothy Miller* [📄](#)
- #16: Learning Bilingual Sentiment-Specific Word Embeddings without Cross-lingual Supervision.** *Yanlin Feng and Xiaojun Wan* [📄](#)

Machine Translation

- #17: ReWE: Regressing Word Embeddings for Regularization of Neural Machine Translation Systems.** *Inigo Jauregi Unanue, Ehsan Zare Borzeshi, Nazanin Esmaili and Massimo Piccardi* [📄](#)
- #18: Lost in Machine Translation: A Method to Reduce Meaning Loss.** *Reuben Cohn-Gordon and Noah Goodman* [📄](#)
- #19: Bi-Directional Differentiable Input Reconstruction for Low-Resource Neural Machine Translation.** *Xing Niu, Weijia Xu and Marine Carpuat* [📄](#)
- #20: Code-Switching for Enhancing NMT with Pre-Specified Translation.** *Kai Song, Yue Zhang, Heng Yu, Weihua Luo, Kun Wang and Min Zhang* [📄](#)
- #21: Aligning Vector-spaces with Noisy Supervised Lexicon.** *Noa Yehezkel Lubin, Jacob Goldberger and Yoav Goldberg* [📄](#)
- #22: Understanding and Improving Hidden Representations for Neural Machine Translation.** *Guanlin Li, Lemao Liu, Xintong Li, Conghui Zhu, Tiejun Zhao and Shuming Shi* [📄](#)

Resources and Evaluation

- #23: Content Differences in Syntactic and Semantic Representation.** *Daniel Hershcovich, Omri Abend and Ari Rappoport* [📄](#)

#24: **Attentive Mimicking: Better Word Embeddings by Attending to Informative Contexts.** *Timo Schick and Hinrich Schütze* 

#25: **Evaluating Style Transfer for Text.** *Remi Mir, Bjarke Felbo, Nick Obradovich and Iyad Rahwan* 

#26: **Big BiRD: A Large, Fine-Grained, Bigram Relatedness Dataset for Examining Semantic Composition.** *Shima Asaadi, Saif Mohammad and Svetlana Kiritchenko* 

#27: **Outlier Detection for Improved Data Quality and Diversity in Dialog Systems.** *Stefan Larson, Anish Mahendran, Andrew Lee, Jonathan K. Kummerfeld, Parker Hill, Michael A. Laurenzano, Johann Hauswald, Lingjia Tang and Jason Mars* 

#28: **Asking the Right Question: Inferring Advice-Seeking Intentions from Personal Narratives.** *Liye Fu, Jonathan P. Chang and Cristian Danescu-Niculescu-Mizil* 

#29: **Seeing Things from a Different Angle: Discovering Diverse Perspectives about Claims.** *Sihao Chen, Daniel Khashabi, Wenpeng Yin, Chris Callison-Burch and Dan Roth* 

Grab your lunch break

12:30 – 13:00

☰ Careers in NLP Panel

13:00 – 14:30

Nicollet Ballroom

The 2019 version of this panel recognizes the diversity of NLP careers today. Traditional career paths have typically led NLP researchers into academia, industrial labs, and government agencies. Today, we also see an increase in roles at startup companies and an emerging NLP practitioner role in industry that intersects with software, data, and product. The panel will discuss multiple topics including trends in NLP careers, emerging skills, prominent challenges and opportunities for cross-functional collaboration as an NLP professional in today's organizations. Panelists (<https://naacl2019.org/program/careerspanel#panelists>), include *Judith L. Klavans (Independent)*, *Yunyao Li (IBM Research)*, *Owen Rambow (Elemental Cognition)*, *Joel Tetreault (Grammarly)*. Moderated by *Philip Resnik (University of Maryland)*.

Coffee Break

14:30 – 15:00

Hyatt Exhibit Hall

Short Orals / Long & Short Posters / Demos

☰ 2A: Dialogue & Discourse

15:00 – 16:30

Northstar A

Choose All 

👤: Ellen Riloff; 🐦: [Asad Sayeed \(https://twitter.com/asayeed\)](https://twitter.com/asayeed)

- 15:00–
15:15 **IMHO Fine-Tuning Improves Claim Detection.** *Tuhin Chakrabarty, Christopher Hidey and Kathy McKeown* 📄
- 15:15–
15:30 **Joint Multiple Intent Detection and Slot Labeling for Goal-Oriented Dialog.** *Rashmi Gangadharaiah and Balakrishnan Narayanaswamy* 📄
- 15:30–
15:45 **CITE: A Corpus of Image-Text Discourse Relations.** *Malihe Alikhani, Sreyasi Nag Chowdhury, Gerard de Melo and Matthew Stone* 📄
- 15:45–
16:00 **Improving Dialogue State Tracking by Discerning the Relevant Context.** *Sanuj Sharma, Prafulla Kumar Choubey and Ruihong Huang* 📄
- 16:00–
16:15 **CLEVR-Dialog: A Diagnostic Dataset for Multi-Round Reasoning in Visual Dialog.** *Satwik Kottur, José M. F. Moura, Devi Parikh, Dhruv Batra and Marcus Rohrbach* 📄
- 16:15–
16:30 **Learning Outside the Box: Discourse-level Features Improve Metaphor Identification.** *Jesse Mu, Helen Yannakoudakis and Ekaterina Shutova* 📄

📄 2B: Ethics, Bias & Fairness

15:00 – 16:30

Nicollet B/C

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👤: Preslav Nakov; 🐦: [Emily M. Bender \(https://twitter.com/emilymbender\)](https://twitter.com/emilymbender)

- 15:00–
15:15 **Detection of Abusive Language: the Problem of Biased Datasets.** *Michael Wiegand, Josef Ruppenhofer and Thomas Kleinbauer* 📄
- 15:15–
15:30 **Lipstick on a Pig: Debiasing Methods Cover up Systematic Gender Biases in Word Embeddings But do not Remove Them.** *Hila Gonen and Yoav Goldberg* 📄
- 15:30–
15:45 **Black is to Criminal as Caucasian is to Police: Detecting and Removing Multiclass Bias in Word Embeddings.** *Thomas Manzini, Lim Yao Chong, Alan W. Black and Yulia Tsvetkov* 📄
- 15:45–
16:00 **On Measuring Social Biases in Sentence Encoders.** *Chandler May, Alex Wang, Shikha Bordia, Samuel R. Bowman and Rachel Rudinger* 📄
- 16:00–
16:15 **Gender Bias in Contextualized Word Embeddings.** *Jieyu Zhao, Tianlu Wang, Mark Yatskar, Ryan Cotterell, Vicente Ordonez and Kai-Wei Chang* 📄
- 16:15–
16:30 **[SRW] Identifying and Reducing Gender Bias in Word-Level Language Models.** *Shikha Bordia and Samuel R. Bowman* 📄

📄 2C: Style & Sentiment

15:00 – 16:30

Nicollet D


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👤: Diyi Yang

15:00–
15:15 **Combining Sentiment Lexica with a Multi-View Variational Autoencoder.** *Alexander Miserlis Hoyle, Lawrence Wolf-Sonkin, Hanna Wallach, Ryan Cotterell and Isabelle Augenstein* 

15:15–
15:30 **Enhancing Opinion Role Labeling with Semantic-Aware Word Representations from Semantic Role Labeling.** *Meishan Zhang, Peili Liang and Guohong Fu* 

15:30–
15:45 **Frowning Frodo, Wincing Leia, and a Seriously Great Friendship: Learning to Classify Emotional Relationships of Fictional Characters.** *Evgeny Kim and Roman Klinger* 

15:45–
16:00 **Generalizing Unmasking for Short Texts.** *Janek Bevendorff, Benno Stein, Matthias Hagen and Martin Potthast* 

16:00–
16:15 **Adversarial Training for Satire Detection: Controlling for Confounding Variables.** *Robert McHardy, Heike Adel and Roman Klinger* 

16:15–
16:30 **[SRW] Emotion Impacts Speech Recognition Performance.** *Rushab Munot and Ani Nenkova* 

☰ 2D: Summarization & IR


15:00 – 16:30


Nicollet A

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👤: Michael J. Paul

15:00–
15:15 **Keyphrase Generation: A Text Summarization Struggle.** *Erion Çano and Ondřej Bojar* 

15:15–
15:30 **SEQ³: Differentiable Sequence-to-Sequence-to-Sequence Autoencoder for Unsupervised Abstractive Sentence Compression.** *Christos Baziotis, Ion Androutsopoulos, Ioannis Konstas and Alexandros Potamianos* 

15:30–
15:45 **Crowdsourcing Lightweight Pyramids for Manual Summary Evaluation.** *Ori Shapira, David Gabay, Yang Gao, Hadar Ronen, Ramakanth Pasunuru, Mohit Bansal, Yael Amsterdamer and Ido Dagan* 

15:45–
16:00 **Serial Recall Effects in Neural Language Modeling.** *Hassan Hajjipoor, Hadi Amiri, Maseud Rahgozar and Farhad Oroumchian* 

16:00–
16:15 **Fast Concept Mention Grouping for Concept Map-based Multi-Document Summarization.** *Tobias Falke and Iryna Gurevych* 







16:15–
16:30 **[SRW] The Strength of the Weakest Supervision: Topic Classification Using Class Labels.** *Jiatong Li, Kai Zheng, Hua Xu, Qiaozhu Mei and Yue Wang* 

☰ 2E: Syntax

15:00 – 16:30

Greenway

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- 15:00–15:15 **Syntax-aware Neural Semantic Role Labeling with Supertags.** *Jungo Kasai, Dan Friedman, Robert Frank, Dragomir Radev and Owen Rambow* 
- 15:15–15:30 **Left-to-Right Dependency Parsing with Pointer Networks.** *Daniel Fernández-González and Carlos Gómez-Rodríguez* 
- 15:30–15:45 **Viable Dependency Parsing as Sequence Labeling.** *Michalina Strzyz, David Vilares and Carlos Gómez-Rodríguez* 
- 15:45–16:00 **Pooled Contextualized Embeddings for Named Entity Recognition.** *Alan Akbik, Tanja Bergmann and Roland Vollgraf* 
- 16:00–16:15 **Better Modeling of Incomplete Annotations for Named Entity Recognition.** *Zhanming Jie, Pengjun Xie, Wei Lu, Ruixue Ding and Linlin Li* 
- 16:15–16:30 **[SRW] Handling Noisy Labels for Robustly Learning from Self-Training Data for Low-Resource Sequence Labeling.** *Debjit Paul, Mittul Singh, Michael A. Hedderich and Dietrich Klakow* 

☰ 2F: Information Extraction, Generation & Semantics (Posters & Demos)






15:00 – 16:30

Hyatt Exhibit Hall

Information Extraction

- #1: **Event Detection without Triggers.** *Shulin Liu, Yang Li, Feng Zhang, Tao Yang and Xinpeng Zhou* 
- #2: **Sub-event detection from twitter streams as a sequence labeling problem.** *Giannis Bekoulis, Johannes Deleu, Thomas Demeester and Chris Develder* 
- #3: **GraphIE: A Graph-Based Framework for Information Extraction.** *Yujie Qian, Enrico Santus, Zhijing Jin, Jiang Guo and Regina Barzilay* 
- #4: **OpenKI: Integrating Open Information Extraction and Knowledge Bases with Relation Inference.** *Dongxu Zhang, Subhabrata Mukherjee, Colin Lockard, Luna Dong and Andrew McCallum* 
- #5: **Imposing Label-Relational Inductive Bias for Extremely Fine-Grained Entity Typing.** *Wenhan Xiong, Jiawei Wu, Deren Lei, Mo Yu, Shiyu Chang, Xiaoxiao Guo and William Yang Wang* 
- #6: **Improving Event Coreference Resolution by Learning Argument Compatibility from Unlabeled Data.** *Yin Jou Huang, Jing Lu, Sadao Kurohashi and Vincent Ng* 
- #7: **Sentence Embedding Alignment for Lifelong Relation Extraction.** *Hong Wang, Wenhan Xiong, Mo Yu, Xiaoxiao Guo, Shiyu Chang and William Yang Wang* 
- #8: **Description-Based Zero-shot Fine-Grained Entity Typing.** *Rasha Obeidat, Xiaoli Fern, Hamed Shahbazi and Prasad Tadepalli* 
- #9: **[SRW] Opinion Mining with Deep Contextualized Embeddings.** *Wen-Bin Han and Noriko Kando* 
- #10: **[SRW] A Bag-of-concepts Model Improves Relation Extraction in a Narrow Knowledge Domain with Limited Data.** *Jiyu Chen, Karin Verspoor and Zenan Zhai* 

Generation

- #11: **Adversarial Decomposition of Text Representation.** *Alexey Romanov, Anna Rumshisky, Anna Rogers and David Donahue* 
- #12: **PoMo: Generating Entity-Specific Post-Modifiers in Context.** *Jun Seok Kang, Robert Logan, Zewei Chu, Yang Chen, Dheeru Dua, Kevin Gimpel, Sameer Singh and Niranjan Balasubramanian* 
- #13: **Improved Lexically Constrained Decoding for Translation and Monolingual Rewriting.** *J. Edward Hu, Huda Khayrallah, Ryan Culkin, Patrick Xia, Tongfei Chen, Matt Post and Benjamin Van Durme* 
- #14: **Courteously Yours: Inducing courteous behavior in Customer Care responses using Reinforced Pointer Generator Network.** *Hitesh Golchha, Mauajama Firdaus, Asif Ekbal and Pushpak Bhattacharyya* 
- #15: **How to Avoid Sentences Spelling Boring? Towards a Neural Approach to Unsupervised Metaphor Generation.** *Zhiwei Yu and Xiaojun Wan* 

#16: [SRW] Generating Text through Adversarial Training Using Skip-Thought Vectors. Afroz Ahamad 


#17: [SRW] A Partially Rule-Based Approach to AMR Generation. Emma Manning 


Semantics

#18: Incorporating Context and External Knowledge for Pronoun Coreference Resolution. Hongming Zhang, Yan Song and Yangqiu Song 

#19: Unsupervised Deep Structured Semantic Models for Commonsense Reasoning. Shuohang Wang, Sheng Zhang, Yelong Shen, Xiaodong Liu, Jingjing Liu, Jianfeng Gao and Jing Jiang 

#20: Recovering dropped pronouns in Chinese conversations via modeling their referents. Jingxuan Yang, Jianzhuo Tong, Si Li, Sheng Gao, Jun Guo and Nianwen Xue 


#21: The problem with probabilistic DAG automata for semantic graphs. Ieva Vasiljeva, Sorcha Gilroy and Adam Lopez 

#22: A Systematic Study of Leveraging Subword Information for Learning Word Representations. Yi Zhu, Ivan Vulić and Anna Korhonen 


#23: Better Word Embeddings by Disentangling Contextual n-Gram Information. Prakhar Gupta, Matteo Pagliardini and Martin Jaggi 

#24: Integration of Knowledge Graph Embedding Into Topic Modeling with Hierarchical Dirichlet Process. Dingcheng Li, Siamak Zamani, Jingyuan Zhang and Ping Li 

#25: Correlation Coefficients and Semantic Textual Similarity. Vitalii Zhelezniak, Aleksandar Savkov, April Shen and Nils Hammerla 


#26: Generating Token-Level Explanations for Natural Language Inference. James Thorne, Andreas Vlachos, Christos Christodoulopoulos and Arpit Mittal 


#27: Strong Baselines for Complex Word Identification across Multiple Languages. Pierre Finamore, Elisabeth Fritzsche, Daniel King, Alison Sneyd, Aneeq Ur Rehman, Fernando Alva-Manchego and Andreas Vlachos 


#28: [SRW] Computational Investigations of Pragmatic Effects in Natural Language. Jad Kabbara 

Demos


Abbreviation Explorer - an interactive system for pre-evaluation of Unsupervised Abbreviation Disambiguation. Manuel Ciosici and Ira Assent 

ADIDA: Automatic Dialect Identification for Arabic. Ossama Obeid, Mohammad Salameh, Houda Bouamor and Nizar Habash 

Enabling Search and Collaborative Assembly of Causal Interactions Extracted from Multilingual and Multi-domain Free Text. George C. G. Barbosa, Zechy Wong, Gus Hahn-Powell, Dane Bell, Rebecca Sharp, Marco A. Valenzuela-Escárcega and Mihai Surdeanu 

INS: An Interactive Chinese News Synthesis System. Hui Liu, Wentao Qin and Xiaojun Wan 

Learning to Respond to Mixed-code Queries using Bilingual Word Embeddings. Chia-Fang Ho, Jason Chang, Jih-Jie Chen and Chingyu Yang 

Train, Sort, Explain: Learning to Diagnose Translation Models. Robert Schwarzenberg, David Harbecke, Vivien Macketanz, Eleftherios Avramidis and Sebastian Möller 

Coffee Break

16:30 – 17:00

Hyatt Exhibit Hall

Long Orals / Long & Short Posters / Demos






3A: IE & IR

17:00 – 18:30

Nicollet A

Choose All Remove All

👤 Gerard de Melo

- 17:00–
17:18 **Adaptive Convolution for Multi-Relational Learning.** *Xiaotian Jiang, Quan Wang and Bin Wang* 
- 17:18–
17:36 **Graph Pattern Entity Ranking Model for Knowledge Graph Completion.** *Takuma Ebisu and Ryutaro Ichise* 
- 17:36–
17:54 **Adversarial Training for Weakly Supervised Event Detection.** *Xiaozhi Wang, Xu Han, Zhiyuan Liu, Maosong Sun and Peng Li* 
- 17:54–
18:12 **A Submodular Feature-Aware Framework for Label Subset Selection in Extreme Classification Problems.** *Elham J. Barezi, Ian D. Wood, Pascale Fung and Hamid R. Rabiee* 
- 18:12–
18:30 **Relation Extraction with Temporal Reasoning Based on Memory Augmented Distant Supervision.** *Jianhao Yan, Lin He, Ruqin Huang, Jian Li and Ying Liu* 






☰ 3B: Semantics

17:00 – 18:30

Nicollet D

Choose All Remove All

👤 Kevin Gimpel

- 17:00–
17:18 **Integrating Semantic Knowledge to Tackle Zero-shot Text Classification.** *Jingqing Zhang, Piyawat Lertvittayakumjorn and Yike Guo* 
- 17:18–
17:36 **Word-Node2Vec: Improving Word Embedding with Document-Level Non-Local Word Co-occurrences.** *Procheta Sen, Debasis Ganguly and Gareth Jones* 
- 17:36–
17:54 **Cross-Topic Distributional Semantic Representations Via Unsupervised Mappings.** *Eleftheria Briakou, Nikos Athanasiou and Alexandros Potamianos* 
- 17:54–
18:12 **What just happened? Evaluating retrofitted distributional word vectors.** *Dmetri Hayes* 
- 18:12–
18:30 **Linguistic Knowledge and Transferability of Contextual Representations.** *Nelson F. Liu, Matt Gardner, Yonatan Belinkov, Matthew E. Peters and Noah A. Smith* 






☰ 3C: Parsing

17:00 – 18:30

Greenway

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👤 Kai-Wei Chang

- 17:00–
17:18 **Mutual Information Maximization for Simple and Accurate Part-Of-Speech Induction.** *Karl Stratos* 
- 17:18–
17:36 **Unsupervised Recurrent Neural Network Grammars.** *Yoon Kim, Alexander Rush, Lei Yu, Adhiguna Kuncoro, Chris Dyer and Gábor Melis* 
- 17:36–
17:54 **Cooperative Learning of Disjoint Syntax and Semantics.** *Serhii Havrylov, Germán Kruszewski and Armand Joulin* 
- 17:54–
18:12 **Unsupervised Latent Tree Induction with Deep Inside-Outside Recursive Auto-Encoders.** *Andrew Drozdov, Patrick Verga, Mohit Yadav, Mohit Iyyer and Andrew McCallum* 
- 18:12–
18:30 **Knowledge-Augmented Language Model and Its Application to Unsupervised Named-Entity Recognition.** *Angli Liu, Jingfei Du and Veselin Stoyanov* 


3D: Machine Translation

17:00 – 18:30

Nicollet B/C

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👤: Marine Carpuat; 🐦: [Bashar Alhafni](https://twitter.com/BAlhafni) (<https://twitter.com/BAlhafni>)

- 17:00–
17:18 **Syntax-Enhanced Neural Machine Translation with Syntax-Aware Word Representations.** *Meishan Zhang, Zhenghua Li, Guohong Fu and Min Zhang* 
- 17:18–
17:36 **Competence-based Curriculum Learning for Neural Machine Translation.** *Emmanouil Antonios Platanios, Otilia Stretcu, Graham Neubig, Barnabas Poczos and Tom Mitchell* 
- 17:36–
17:54 **Extract and Edit: An Alternative to Back-Translation for Unsupervised Neural Machine Translation.** *Jiawei Wu, Xin Wang and William Yang Wang* 
- 17:54–
18:12 **Consistency by Agreement in Zero-Shot Neural Machine Translation.** *Maruan Al-Shedivat and Ankur Parikh* 
- 18:12–
18:30 **Modeling Recurrence for Transformer.** *Jie Hao, Xing Wang, Baosong Yang, Longyue Wang, Jinfeng Zhang and Zhaopeng Tu* 





3E: Dialogue

17:00 – 18:30

Northstar A

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👤: Sujith Ravi; 🐦: [Nazneen Rajani](https://twitter.com/nazneenrajani) (<https://twitter.com/nazneenrajani>)

- 17:00–
17:18 **Rethinking Action Spaces for Reinforcement Learning in End-to-end Dialog Agents with Latent Variable Models.** *Tiancheng Zhao, Kaige Xie and Maxine Eskenazi* 
- 17:18–
17:36 **Skeleton-to-Response: Dialogue Generation Guided by Retrieval Memory.** *Deng Cai, Yan Wang, Wei Bi, Zhaopeng Tu, Xiaojiang Liu, Wai Lam and Shuming Shi* 
- 17:36–
17:54 **Jointly Optimizing Diversity and Relevance in Neural Response Generation.** *Xiang Gao, Sungjin Lee, Yizhe Zhang, Chris Brockett, Michel Galley, Jianfeng Gao and Bill Dolan* 
- 17:54–
18:12 **Disentangling Language and Knowledge in Task-Oriented Dialogs.** *Dinesh Raghu, Nikhil Gupta and Mausam* 
- 18:12–
18:30 **[TACL] DREAM: A Challenge Dataset and Models for Dialogue-Based Reading Comprehension.** *Kai Sun, Dian Yu, Jianshu Chen, Dong Yu, Yejin Choi and Claire Cardie*

Tuesday, June 04, 2019

Breakfast

7:30 – 9:00

Hyatt Exhibit Hall

Long Orals / Long & Short Posters

☰ 4A: Phonology & Morphology

9:00 – 10:30

Nicollet A

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👤: Greg Kondrak; 🐦: [Parminder Bhatia \(https://twitter.com/ParryBhatia243\)](https://twitter.com/ParryBhatia243)

9:00–
9:18 **Improving Lemmatization of Non-Standard Languages with Joint Learning.** *Enrique Manjavacas, Ákos Kádár and Mike Kestemont* 📄

9:18–
9:36 **One Size Does Not Fit All: Comparing NMT Representations of Different Granularities.** *Nadir Durrani, Fahim Dalvi, Hassan Sajjad, Yonatan Belinkov and Preslav Nakov* 📄

9:36–
9:54 **A Simple Joint Model for Improved Contextual Neural Lemmatization.** *Chaitanya Malaviya, Shijie Wu and Ryan Cotterell* 📄

9:54–
10:12 **A Probabilistic Generative Model of Linguistic Typology.** *Johannes Bjerva, Yova Kementchedjieva, Ryan Cotterell and Isabelle Augenstein* 📄

10:12–
10:30 **Quantifying the morphosyntactic content of Brown Clusters.** *Manuel Ciosici, Leon Derczynski and Ira Assent* 📄

☰ 4B: Multilingual NLP

9:00 – 10:30

Nicollet D[Choose All](#) [Remove All](#)

👤: Ekaterina Shutova; 🐦: [Hadi Amiri \(https://twitter.com/amirieb\)](https://twitter.com/amirieb)

- 9:00–
9:18 **Analyzing Bayesian Crosslingual Transfer in Topic Models.** *Shudong Hao and Michael J. Paul* 📄
- 9:18–
9:36 **Recursive Subtree Composition in LSTM-Based Dependency Parsing.** *Miryam de Lhoneux, Miguel Ballesteros and Joakim Nivre* 📄
- 9:36–
9:54 **Cross-lingual CCG Induction.** *Kilian Evang* 📄
- 9:54–
10:12 **Density Matching for Bilingual Word Embedding.** *Chunting Zhou, Xuezhe Ma, Di Wang and Graham Neubig* 📄
- 10:12–
10:30 **Cross-Lingual Alignment of Contextual Word Embeddings, with Applications to Zero-shot Dependency Parsing.** *Tal Schuster, Ori Ram, Regina Barzilay and Amir Globerson* 📄

☰ 4C: Social Media

9:00 – 10:30

Nicollet B/C[Choose All](#) [Remove All](#)

👤: Xiaodan Zhu; 🐦: [Yuval Pinter \(https://twitter.com/yuvalpi\)](https://twitter.com/yuvalpi)

- 9:00–
9:18 **Early Rumour Detection.** *Kaimin Zhou, Chang Shu, Binyang Li and Jey Han Lau* 📄
- 9:18–
9:36 **Microblog Hashtag Generation via Encoding Conversation Contexts.** *Yue Wang, Jing Li, Irwin King, Michael R. Lyu and Shuming Shi* 📄
- 9:36–
9:54 **Text Processing Like Humans Do: Visually Attacking and Shielding NLP Systems.** *Steffen Eger, Gözde Gül Şahin, Andreas Rücklé, Ji-Ung Lee, Claudia Schulz, Mohsen Mesgar, Krishnkant Swarnkar, Edwin Simpson and Iryna Gurevych* 📄
- 9:54–
10:12 **Something's Brewing! Early Prediction of Controversy-causing Posts from Discussion Features.** *Jack Hessel and Lillian Lee* 📄
- 10:12–
10:30 **No Permanent Friends or Enemies: Tracking Relationships between Nations from News.** *Xiaochuang Han, Eunsol Choi and Chenhao Tan* 📄

☰ 4D: Generation

9:00 – 10:30

Northstar A[Choose All](#) [Remove All](#)

👤: Ion Androutsopoulos; 🐦: [Sudipta Kar \(https://twitter.com/cryptexcode\)](https://twitter.com/cryptexcode)

9:00–9:18 **Improving Human Text Comprehension through Semi-Markov CRF-based Neural Section Title Generation.** *Sebastian Gehrmann, Steven Layne and Franck Dernoncourt* 📄

9:18–9:36 **Unifying Human and Statistical Evaluation for Natural Language Generation.** *Tatsunori Hashimoto, Hugh Zhang and Percy Liang* 📄

9:36–9:54 **What makes a good conversation? How controllable attributes affect human judgments.** *Abigail See, Stephen Roller, Douwe Kiela and Jason Weston* 📄

9:54–10:12 **An Empirical Investigation of Global and Local Normalization for Recurrent Neural Sequence Models Using a Continuous Relaxation to Beam Search.** *Kartik Goyal, Chris Dyer and Taylor Berg-Kirkpatrick* 📄

10:12–10:30 **Pun Generation with Surprise.** *He He, Nanyun Peng and Percy Liang* 📄

📅 4E: Industry: Real World Challenges

9:00 – 10:30

Greenway

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👤: Nizar Habash; 🐦: [Nishant Prateek \(https://twitter.com/nisprateek\)](https://twitter.com/nisprateek)

09:00–09:18 **Enabling Real-time Neural IME with Incremental Vocabulary Selection.** *Jiali Yao, Raphael Shu, Xinjian Li, Katsutoshi Ohtsuki and Hideki Nakayama* 📄

09:18–09:36 **Locale-agnostic Universal Domain Classification Model in Spoken Language Understanding.** *Jihwan Lee, Ruhi Sarikaya and Young-Bum Kim* 📄

09:36–09:54 **Practical Semantic Parsing for Spoken Language Understanding.** *Marco Damonte, Rahul Goel and Tagyoung Chung* 📄

09:54–10:12 **Fast Prototyping a Dialogue Comprehension System for Nurse-Patient Conversations on Symptom Monitoring.** *Zhengyuan Liu, Hazel Lim, Nur Farah Ain Suhaimi, Shao Chuen Tong, Sharon Ong, Angela Ng, Sheldon Lee, Michael R. Macdonald, Savitha Ramasamy, Pavitra Krishnaswamy, Wai Leng Chow and Nancy F. Chen* 📄

10:12–10:30 **Graph Convolution for Multimodal Information Extraction from Visually Rich Documents.** *Xiaojing Liu, Feiyu Gao, Qiong Zhang and Huasha Zhao* 📄

📅 4F: Discourse, Information Retrieval, Machine Translation, Vision & Robotics (Posters)

9:00 – 10:30

Hyatt Exhibit Hall

Discourse

#1: **Single Document Summarization as Tree Induction.** *Yang Liu, Ivan Titov and Mirella Lapata* 📄

#2: **Fixed That for You: Generating Contrastive Claims with Semantic Edits.** *Christopher Hidey and Kathy McKeown* 📄

#3: **Box of Lies: Multimodal Deception Detection in Dialogues.** *Felix Soldner, Verónica Pérez-Rosas and Rada Mihalcea* 📄

#4: **A Crowdsourced Corpus of Multiple Judgments and Disagreement on Anaphoric Interpretation.** *Massimo Poesio, Jon Chamberlain, Silviu Paun, Juntao Yu, Alexandra Uma and Udo Kruschwitz* 📄

#5: **A Streamlined Method for Sourcing Discourse-level Argumentation Annotations from the Crowd.** *Tristan Miller, Maria Sukhareva and Iryna Gurevych* 📄


#6: **Unsupervised Dialog Structure Learning.** *Weiyang Shi, Tiancheng Zhao and Zhou Yu* 📄

#7: **Modeling Document-level Causal Structures for Event Causal Relation Identification.** *Lei Gao, Prafulla Kumar Choubey and Ruihong Huang* 📄


#8: **[TACL] Planning, Inference, and Pragmatics in Sequential Language Games.** *Fereshte Khani, Noah D. Goodman and Percy Liang*


Information Retrieval

Information Retrieval


#9: Hierarchical User and Item Representation with Three-Tier Attention for Recommendation. *Chuhan Wu, Fangzhao Wu, Junxin Liu and Yongfeng Huang* 

#10: Text Similarity Estimation Based on Word Embeddings and Matrix Norms for Targeted Marketing. *Tim vor der Brück and Marc Pouly* 

#11: Glocal: Incorporating Global Information in Local Convolution for Keyphrase Extraction. *Animesh Prasad and Min-Yen Kan* 

#12: A Study of Latent Structured Prediction Approaches to Passage Reranking. *Iryna Haponchyk and Alessandro Moschitti* 


#13: Combining Distant and Direct Supervision for Neural Relation Extraction. *Iz Beltagy, Kyle Lo and Waleed Ammar* 

#14: Tweet Stance Detection Using an Attention based Neural Ensemble Model. *Umme Aymun Siddiqua, Abu Nowshed Chy and Masaki Aono* 

Machine Translation

#15: Word Embedding-Based Automatic MT Evaluation Metric using Word Position Information. *Hiroshi Echizen'ya, Kenji Araki and Eduard Hovy* 

#16: Learning to Stop in Structured Prediction for Neural Machine Translation. *Mingbo Ma, Renjie Zheng and Liang Huang* 

#17: Learning Unsupervised Multilingual Word Embeddings with Incremental Multilingual Hubs. *Geert Heyman, Bregt Verreet, Ivan Vulić and Marie-Francine Moens* 

#18: Curriculum Learning for Domain Adaptation in Neural Machine Translation. *Xuan Zhang, Pamela Shapiro, Gaurav Kumar, Paul McNamee, Marine Carpuat and Kevin Duh* 

#19: Improving Robustness of Machine Translation with Synthetic Noise. *Vaibhav Vaibhav, Sumeet Singh, Craig Stewart and Graham Neubig* 

#20: Non-Parametric Adaptation for Neural Machine Translation. *Ankur Bapna and Orhan Firat* 

#21: Online Distilling from Checkpoints for Neural Machine Translation. *Hao-Ran Wei, Shujian Huang, Ran Wang, Xin-Yu Dai and Jiajun Chen* 


Vision & Robotics

#22: Value-based Search in Execution Space for Mapping Instructions to Programs. *Dor Muhlgay, Jonathan Herzig and Jonathan Berant* 

#23: VQD: Visual Query Detection In Natural Scenes. *Manoj Acharya, Karan Jariwala and Christopher Kanan* 

#24: Improving Natural Language Interaction with Robots Using Advice. *Nikhil Mehta and Dan Goldwasser* 

#25: Generating Knowledge Graph Paths from Textual Definitions using Sequence-to-Sequence Models. *Victor Prokhorov, Mohammad Taher Pilehvar and Nigel Collier* 

#26: Shifting the Baseline: Single Modality Performance on Visual Navigation QA. *Jesse Thomason, Daniel Gordon and Yonatan Bisk* 

#27: ExCL: Extractive Clip Localization Using Natural Language Descriptions. *Soham Ghosh, Anuva Agarwal, Zarana Parekh and Alexander Hauptmann* 

Coffee Break

10:30 – 11:00

Hyatt Exhibit Hall

Short Orals / Long & Short Posters / Demos

☰ 5A: Multilingual NLP

11:00 – 12:30

Nicollet D

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👤: Anna Feldman; 🐦: [Stephen Mayhew \(https://twitter.com/mayhewsw\)](https://twitter.com/mayhewsw)

- 11:00–
11:15 **Detecting dementia in Mandarin Chinese using transfer learning from a parallel corpus.** *Bai Li, Yi-Te Hsu and Frank Rudzicz* 📄
- 11:15–
11:30 **Cross-lingual Visual Verb Sense Disambiguation.** *Spandana Gella, Desmond Elliott and Frank Keller* 📄
- 11:30–
11:45 **Subword-Level Language Identification for Intra-Word Code-Switching.** *Manuel Mager, Özlem Çetinoğlu and Katharina Kann* 📄
- 11:45–
12:00 **MuST-C: a Multilingual Speech Translation Corpus.** *Mattia A. Di Gangi, Roldano Cattoni, Luisa Bentivogli, Matteo Negri and Marco Turchi* 📄
- 12:00–
12:15 **Contextualization of Morphological Inflection.** *Ekaterina Vylomova, Ryan Cotterell, Trevor Cohn, Timothy Baldwin and Jason Eisner* 📄
- 12:15–
12:30 **A Robust Abstractive System for Cross-Lingual Summarization.** *Jessica Ouyang, Boya Song and Kathy McKeown* 📄

📄 5B: Machine Translation

11:00 – 12:30

Nicollet B/C

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👤: Daisuke Kawahara; 🐦: [Mahmoud Mohammadi \(https://twitter.com/xmah_mood\)](https://twitter.com/xmah_mood)

- 11:00–
11:15 **Improving Neural Machine Translation with Neural Syntactic Distance.** *Chunpeng Ma, Akihiro Tamura, Masao Utiyama, Eiichiro Sumita and Tiejun Zhao* 📄
- 11:15–
11:30 **Measuring Immediate Adaptation Performance for Neural Machine Translation.** *Patrick Simianer, Joern Wuebker and John DeNero* 📄
- 11:30–
11:45 **Differentiable Sampling with Flexible Reference Word Order for Neural Machine Translation.** *Weijia Xu, Xing Niu and Marine Carpuat* 📄
- 11:45–
12:00 **Reinforcement Learning based Curriculum Optimization for Neural Machine Translation.** *Gaurav Kumar, George Foster, Colin Cherry and Maxim Krikun* 📄
- 12:00–
12:15 **Overcoming Catastrophic Forgetting During Domain Adaptation of Neural Machine Translation.** *Brian Thompson, Jeremy Gwinnup, Huda Khayrallah, Kevin Duh and Philipp Koehn* 📄
- 12:15–
12:30 **[SRW] Multimodal Machine Translation with Embedding Prediction.** *Tosho Hirasawa, Hayahide Yamagishi, Yukio Matsumura and Mamoru Komachi* 📄

📄 5C: Social Media

11:00 – 12:30

Greenway

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👤: Chenhao Tan; 🐦: [Tuhin Chakrabarty \(https://twitter.com/Tuhin66978276\)](https://twitter.com/Tuhin66978276)

11:00–
11:15 **Short-Term Meaning Shift: A Distributional Exploration.** *Marco Del Tredici, Raquel Fernández and Gemma Boleda* 📄

11:15–
11:30 **Detecting Derogatory Compounds – An Unsupervised Approach.** *Michael Wiegand, Maximilian Wolf and Josef Ruppenhofer* 📄

11:30–
11:45 **Personalized Neural Embeddings for Collaborative Filtering with Text.** *Guangneng Hu* 📄

11:45–
12:00 **An Embarrassingly Simple Approach for Transfer Learning from Pretrained Language Models.** *Alexandra Chronopoulou, Christos Baziotis and Alexandros Potamianos* 📄

12:00–
12:15 **Incorporating Emoji Descriptions Improves Tweet Classification.** *Abhishek Singh, Eduardo Blanco and Wei Jin* 📄

12:15–
12:30 **Modeling Personal Biases in Language Use by Inducing Personalized Word Embeddings.** *Daisuke Oba, Naoki Yoshinaga, Shoetsu Sato, Satoshi Akasaki and Masashi Toyoda* 📄

📅 5D: Text Analysis

11:00 – 12:30

Northstar A

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👤: Saif Mohammad; 🐦: [Avinesh P.V.S. \(https://twitter.com/avineshpvs\)](https://twitter.com/avineshpvs)

11:00–
11:15 **Multi-Task Ordinal Regression for Jointly Predicting the Trustworthiness and the Leading Political Ideology of News Media.** *Ramy Baly, Georgi Karadzhov, Abdelrhman Saleh, James Glass and Preslav Nakov* 📄

11:15–
11:30 **Joint Detection and Location of English Puns.** *Yanyan Zou and Wei Lu* 📄

11:30–
11:45 **Harry Potter and the Action Prediction Challenge from Natural Language.** *David Vilares and Carlos Gómez-Rodríguez* 📄

11:45–
12:00 **Argument Mining for Understanding Peer Reviews.** *Xinyu Hua, Mitko Nikolov, Nikhil Badugu and Lu Wang* 📄

12:00–
12:15 **An annotated dataset of literary entities.** *David Bamman, Sejal Popat and Sheng Shen* 📄

12:15–
12:30 **Abusive Language Detection with Graph Convolutional Networks.** *Pushkar Mishra, Marco Del Tredici, Helen Yannakoudakis and Ekaterina Shutova* 📄

📅 5E: Semantics

11:00 – 12:30

Nicollet A

Choose All Remove All

- 11:00–11:15 **On the Importance of Distinguishing Word Meaning Representations: A Case Study on Reverse Dictionary Mapping.** *Mohammad Taher Pilehvar*
- 11:15–11:30 **Factorising AMR generation through syntax.** *Kris Cao and Stephen Clark*
- 11:30–11:45 **A Crowdsourced Frame Disambiguation Corpus with Ambiguity.** *Anca Dumitrache, Lora Aroyo and Chris Welty*
- 11:45–12:00 **Inoculation by Fine-Tuning: A Method for Analyzing Challenge Datasets.** *Nelson F. Liu, Roy Schwartz and Noah A. Smith*
- 12:00–12:15 **[SRW] Word Polysemy Aware Document Vector Estimation.** *Vivek Gupta, Ankit Saw, Harshit Gupta, Pegah Nokhiz and Partha Talukdar*
- 12:15–12:30 **[SRW] EQUATE : A Benchmark Evaluation Framework for Quantitative Reasoning in Natural Language Inference.** *Abhilasha Ravichander, Aakanksha Naik, Carolyn Rose and Eduard Hovy*

5F: Information Retrieval, Generation, Question Answering & Syntax (Posters & Demos)

11:00 – 12:30

Hyatt Exhibit Hall

Information Retrieval

- #1: A Capsule Network-based Embedding Model for Knowledge Graph Completion and Search Personalization.** *Dai Quoc Nguyen, Thanh Vu, Tu Dinh Nguyen, Dat Quoc Nguyen and Dinh Phung*
- #2: Partial Or Complete, That's The Question.** *Qiang Ning, Hangfeng He, Chuchu Fan and Dan Roth*
- #3: Sequential Attention with Keyword Mask Model for Community-based Question Answering.** *Jianxin Yang, Wenge Rong, Libin Shi and Zhang Xiong*
- #4: Simple Attention-Based Representation Learning for Ranking Short Social Media Posts.** *Peng Shi, Jinfeng Rao and Jimmy Lin*
- #5: AttentiveChecker: A Bi-Directional Attention Flow Mechanism for Fact Verification.** *Santosh Tokala, Vishal G, Avirup Saha and Niloy Ganguly*
- #6: Practical, Efficient, and Customizable Active Learning for Named Entity Recognition in the Digital Humanities.** *Alexander Erdmann, David Joseph Wrisley, Benjamin Allen, Christopher Brown, Sophie Cohen-Bodénès, Micha Elsner, Yukun Feng, Brian Joseph, Béatrice Joyeux-Prunel and Marie-Catherine de Marneffe*
- #7: Doc2hash: Learning Discrete Latent variables for Documents Retrieval.** *Yifei Zhang and Hao Zhu*

Generation

- #8: Evaluating Text GANs as Language Models.** *Guy Tevet, Gavriel Habib, Vered Shwartz and Jonathan Berant*
- #9: Latent Code and Text-based Generative Adversarial Networks for Soft-text Generation.** *Md Akmal Haidar, Mehdi Rezagholizadeh, Alan Do Omri and Ahmad Rashid*
- #10: Neural Text Generation from Rich Semantic Representations.** *Valerie Hajdik, Jan Buys, Michael Wayne Goodman and Emily M. Bender*
- #11: Step-by-Step: Separating Planning from Realization in Neural Data-to-Text Generation.** *Amit Moryossef, Yoav Goldberg and Ido Dagan*
- #12: Evaluating Rewards for Question Generation Models.** *Tom Hosking and Sebastian Riedel*
- #13: Text Generation from Knowledge Graphs with Graph Transformers.** *Rik Koncel-Kedziorski, Dhanush Bekal, Yi Luan, Mirella Lapata and Hannaneh Hajishirzi*

Question Answering

- #14: Open Information Extraction from Question-Answer Pairs.** *Nikita Bhutani, Yoshihiko Suhara, Wang-Chiew Tan, Alon Halevy and H. V. Jagadish*
- #15: Question Answering by Reasoning Across Documents with Graph Convolutional Networks.** *Nicola De Cao, Wilker Aziz and Ivan Titov*

#16: A Qualitative Comparison of CoQA, SQuAD 2.0 and QuAC. *Mark Yatskar* [📄](#)

#17: BERT Post-Training for Review Reading Comprehension and Aspect-based Sentiment Analysis. *Hu Xu, Bing Liu, Lei Shu and Philip Yu* [📄](#)

#18: Old is Gold: Linguistic Driven Approach for Entity and Relation Linking of Short Text. *Ahmad Sakor, Isaiah Onando Mulang', Kuldeep Singh, Saeedeh Shekarpour, Maria Esther Vidal, Jens Lehmann and Sören Auer* [📄](#)

#19: Be Consistent! Improving Procedural Text Comprehension using Label Consistency. *Xinya Du, Bhavana Dalvi, Niket Tandon, Antoine Bosselut, Wen-tau Yih, Peter Clark and Claire Cardie* [📄](#)

#20: MathQA: Towards Interpretable Math Word Problem Solving with Operation-Based Formalisms. *Aida Amini, Saadia Gabriel, Shanchuan Lin, Rik Koncel-Kedziorski, Yejin Choi and Hannaneh Hajishirzi* [📄](#)

#21: DROP: A Reading Comprehension Benchmark Requiring Discrete Reasoning Over Paragraphs. *Dheeru Dua, Yizhong Wang, Pradeep Dasigi, Gabriel Stanovsky, Sameer Singh and Matt Gardner* [📄](#)

Syntax

#22: An Encoding Strategy Based Word-Character LSTM for Chinese NER. *Wei Liu, Tongge Xu, Qinghua Xu, Jiayu Song and Yueran Zu* [📄](#)

#23: Highly Effective Arabic Diacritization using Sequence to Sequence Modeling. *Hamdy Mubarak, Ahmed Abdelali, Hassan Sajjad, Younes Samih and Kareem Darwish* [📄](#)

#24: SC-LSTM: Learning Task-Specific Representations in Multi-Task Learning for Sequence Labeling. *Peng Lu, Ting Bai and Philippe Langlais* [📄](#)

#25: Learning to Denoise Distantly-Labeled Data for Entity Typing. *Yasumasa Onoe and Greg Durrett* [📄](#)

#26: A Simple and Robust Approach to Detecting Subject-Verb Agreement Errors. *Simon Flachs, Ophélie Lacroix, Marek Rei, Helen Yannakoudakis and Anders Søgaard* [📄](#)

#27: A Grounded Unsupervised Universal Part-of-Speech Tagger for Low-Resource Languages. *Ronald Cardenas, Ying Lin, Heng Ji and Jonathan May* [📄](#)

#28: On Difficulties of Cross-Lingual Transfer with Order Differences: A Case Study on Dependency Parsing. *Wasi Ahmad, Zhisong Zhang, Xuezhe Ma, Eduard Hovy, Kai-Wei Chang and Nanyun Peng* [📄](#)

#29: A Multi-Task Approach for Disentangling Syntax and Semantics in Sentence Representations. *Mingda Chen, Qingming Tang, Sam Wiseman and Kevin Gimpel* [📄](#)

Demos

End-to-End Open-Domain Question Answering with BERTserini. *Wei Yang, Yuqing Xie, Aileen Lin, Xingyu Li, Luchen Tan, Kun Xiong, Ming Li and Jimmy Lin* [📄](#)

FAKTA: An Automatic End-to-End Fact Checking System. *Moin Nadeem, Wei Fang, Brian Xu, Mitra Mohtarami and James Glass* [📄](#)

iComposer: An Automatic Songwriting System for Chinese Popular Music. *Hsin-Pei Lee, Jhih-Sheng Fang and Wei-Yun Ma* [📄](#)

Plan, Write, and Revise: an Interactive System for Open-Domain Story Generation. *Seraphina Goldfarb-Tarrant, Haining Feng and Nanyun Peng* [📄](#)

LT Expertfinder: An Evaluation Framework for Expert Finding Methods. *Tim Fischer, Steffen Remus and Chris Biemann* [📄](#)

SkillBot: Towards Automatic Skill Development via User Demonstration. *Yilin Shen, Avik Ray, Hongxia Jin and Sandeep Nama* [📄](#)

Lunch Break

12:30 – 14:00

☰ Keynote 2: "When the Computers Spot the Lie (and People Don't)"

Rada Mihalcea (University of Michigan) (<https://web.eecs.umich.edu/~mihalcea/>)

14:00 – 15:00

Nicollet Ballroom

Whether we like it or not, deception occurs everyday and everywhere: thousands of trials take place daily around the world; little white lies: "I'm busy that day!" even if your calendar is blank; news "with a twist" (a.k.a. fake news) meant to attract the readers attention or influence people in their future undertakings; misinformation in health social media posts; portrayed identities, on dating sites and elsewhere. Can a computer automatically detect deception in written accounts or in video recordings? In this talk, I will overview a decade of research in building linguistic and multimodal resources and algorithms for deception detection, targeting deceptive statements, trial videos, fake news, identity deception, and health misinformation. I will also show how these algorithms can provide insights into what makes a good lie - and thus teach us how we can spot a liar. As it turns out, computers can be trained to identify lies in many different contexts, and they can often do it better than humans do.

Coffee Break

15:00 – 15:30

Hyatt Exhibit Hall

Long Orals / Long & Short Posters / Demos


☰ 6A: Sentiment Analysis

15:30 – 17:00

Northstar A

Choose All Remove All

👤: Sara Rosenthal; 🐦: Hadi Amiri (<https://twitter.com/amirieb>)

15:30–15:48 **Self-Discriminative Learning for Unsupervised Document Embedding.** *Hong-You Chen, Chin-Hua Hu, Leila Wehbe and Shou-de Lin* 

15:48–16:06 **Adaptive Convolution for Text Classification.** *Byung-Ju Choi, Jun-Hyung Park and SangKeun Lee* 

16:06–16:24 **Zero-Shot Cross-Lingual Opinion Target Extraction.** *Soufian Jebbara and Philipp Cimiano* 

16:24–16:42 **Adversarial Category Alignment Network for Cross-domain Sentiment Classification.** *Xiaoye Qu, Zhikang Zou, Yu Cheng, Yang Yang and Pan Zhou* 

16:42–17:00 **Target-oriented Opinion Words Extraction with Target-fused Neural Sequence Labeling.** *Zhifang Fan, Zhen Wu, Xin-Yu Dai, Shujian Huang and Jiajun Chen* 

☰ 6B: Summarization

15:30 – 17:00

Greenway

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👤: Ani Nenkova; 🐦: [Mahmoud Mohammadi \(https://twitter.com/xmah_mood\)](https://twitter.com/xmah_mood)

- 15:30–
15:48 **Abstractive Summarization of Reddit Posts with Multi-level Memory Networks.** *Byeongchang Kim, Hyunwoo Kim and Gunhee Kim* 📄
- 15:48–
16:06 **Automatic learner summary assessment for reading comprehension.** *Menglin Xia, Ekaterina Kochmar and Ted Briscoe* 📄
- 16:06–
16:24 **Data-efficient Neural Text Compression with Interactive Learning.** *Avinesh P.V.S and Christian M. Meyer* 📄
- 16:24–
16:42 **Text Generation with Exemplar-based Adaptive Decoding.** *Hao Peng, Ankur Parikh, Manaal Faruqui, Bhuwan Dhingra and Dipanjan Das* 📄
- 16:42–
17:00 **Guiding Extractive Summarization with Question-Answering Rewards.** *Kristjan Arumae and Fei Liu* 📄

📄 6C: Vision

15:30 – 17:00

Nicollet A

Choose All Remove All

👤: William Yang Wang

- 15:30–
15:48 **Beyond task success: A closer look at jointly learning to see, ask, and GuessWhat.** *Ravi Shekhar, Aashish Venkatesh, Tim Baumgärtner, Elia Bruni, Barbara Plank, Raffaella Bernardi and Raquel Fernández* 📄
- 15:48–
16:06 **The World in My Mind: Visual Dialog with Adversarial Multi-modal Feature Encoding.** *Yiqun Yao, Jiaming Xu and Bo Xu* 📄
- 16:06–
16:24 **Strong and Simple Baselines for Multimodal Utterance Embeddings.** *Paul Pu Liang, Yao Chong Lim, Yao-Hung Hubert Tsai, Ruslan Salakhutdinov and Louis-Philippe Morency* 📄
- 16:24–
16:42 **Learning to Navigate Unseen Environments: Back Translation with Environmental Dropout.** *Hao Tan, Licheng Yu and Mohit Bansal* 📄
- 16:42–
17:00 **Towards Content Transfer through Grounded Text Generation.** *Shrimai Prabhumoye, Chris Quirk and Michel Galley* 📄

📄 6D: Question Answering

15:30 – 17:00

Nicollet B/C

Choose All Remove All

👤: Eduardo Blanco

- 15:30–
15:48 **Improving Machine Reading Comprehension with General Reading Strategies.** *Kai Sun, Dian Yu, Dong Yu and Claire Cardie* 📄
- 15:48–
16:06 **Multi-task Learning with Sample Re-weighting for Machine Reading Comprehension.** *Yichong Xu, Xiaodong Liu, Yelong Shen, Jingjing Liu and Jianfeng Gao* 📄
- 16:06–
16:24 **Semantically-Aligned Equation Generation for Solving and Reasoning Math Word Problems.** *Ting-Rui Chiang and Yun-Nung Chen* 📄
- 16:24–
16:42 **Iterative Search for Weakly Supervised Semantic Parsing.** *Pradeep Dasigi, Matt Gardner, Shikhar Murty, Luke Zettlemoyer and Eduard Hovy* 📄
- 16:42–
17:00 **Alignment over Heterogeneous Embeddings for Question Answering.** *Vikas Yadav, Steven Bethard and Mihai Surdeanu* 📄

📄 6F: Phonology & Morphology, Speech and Text Mining (Posters & Demos)

Phonology & Morphology


- #1: Bridging the Gap: Attending to Discontinuity in Identification of Multiword Expressions.** *Omid Rohanian, Shiva Taslimipoor, Samaneh Kouchaki, Le An Ha and Ruslan Mitkov* [📄](#)
- #2: Incorporating Word Attention into Character-Based Word Segmentation.** *Shohei Higashiyama, Masao Utiyama, Eiichiro Sumita, Masao Ideuchi, Yoshiaki Oida, Yohei Sakamoto and Isaac Okada* [📄](#)
- #3: VCWE: Visual Character-Enhanced Word Embeddings.** *Chi Sun, Xipeng Qiu and Xuanjing Huang* [📄](#)
- #4: Subword Encoding in Lattice LSTM for Chinese Word Segmentation.** *Jie Yang, Yue Zhang and Shuailong Liang* [📄](#)
- #5: Improving Cross-Domain Chinese Word Segmentation with Word Embeddings.** *Yuxiao Ye, Weikang Li, Yue Zhang, Likun Qiu and Jian Sun* [📄](#)
- #6: Neural Semi-Markov Conditional Random Fields for Robust Character-Based Part-of-Speech Tagging.** *Apostolos Kemos, Heike Adel and Hinrich Schütze* [📄](#)
- #7: Shrinking Japanese Morphological Analyzers With Neural Networks and Semi-supervised Learning.** *Arseny Tolmachev, Daisuke Kawahara and Sadao Kurohashi* [📄](#)
- #8: [TACL] Grammar Error Correction in Morphologically-Rich Languages: The Case of Russian.** *Alla Rozovskaya and Dan Roth*
- #9: [SRW] Deep Learning and Sociophonetics: Automatic Coding of Rhoticity Using Neural Networks.** *Sarah Gupta and Anthony DiPadova* [📄](#)
- #10: [SRW] Learn Languages First and Then Convert: towards Effective Simplified to Traditional Chinese Conversion.** *Pranav A, S.F. Hui, I-Tsun Cheng, Ishaan Batra and Chiu Yik Hei*


Speech

- #11: Neural Constituency Parsing of Speech Transcripts.** *Paria Jamshid Lou, Yufei Wang and Mark Johnson* [📄](#)
- #12: Acoustic-to-Word Models with Conversational Context Information.** *Suyoun Kim and Florian Metze* [📄](#)
- #13: A Dynamic Speaker Model for Conversational Interactions.** *Hao Cheng, Hao Fang and Mari Ostendorf* [📄](#)
- #14: Fluent Translations from Disfluent Speech in End-to-End Speech Translation.** *Elizabeth Salesky, Matthias Sperber and Alexander Waibel* [📄](#)
- #15: [SRW] Data Augmentation by Data Noising for Open-vocabulary Slots in Spoken Language Understanding.** *Hwa-Yeon Kim, Yoon-Hyung Roh and Young-Kil Kim* [📄](#)
- #16: [SRW] Expectation and Locality Effects in the Prediction of Disfluent Fillers and Repairs in English Speech.** *Samvit Dammalapati, Rajakrishnan Rajkumar and Sumeet Agarwal* [📄](#)

Text Mining

- #17: Relation Classification Using Segment-Level Attention-based CNN and Dependency-based RNN.** *Van-Hien Tran, Van-Thuy Phi, Hiroyuki Shindo and Yuji Matsumoto* [📄](#)
- #18: Document-Level Event Factuality Identification via Adversarial Neural Network.** *Zhong Qian, Peifeng Li, Qiaoming Zhu and Guodong Zhou* [📄](#)
- #19: Distant Supervision Relation Extraction with Intra-Bag and Inter-Bag Attentions.** *Zhi-Xiu Ye and Zhen-Hua Ling* [📄](#)
- #20: Ranking-Based Autoencoder for Extreme Multi-label Classification.** *Bingyu Wang, Li Chen, Wei Sun, Kechen Qin, Kefeng Li and Hui Zhou* [📄](#)
- #21: Posterior-regularized REINFORCE for Instance Selection in Distant Supervision.** *Qi Zhang, Siliang Tang, Xiang Ren, Fei Wu, Shiliang Pu and Yueting Zhuang* [📄](#)
- #22: Scalable Collapsed Inference for High-Dimensional Topic Models.** *Rashidul Islam and James Foulds* [📄](#)
- #23: An Integrated Approach for Keyphrase Generation via Exploring the Power of Retrieval and Extraction.** *Wang Chen, Hou Pong Chan, Piji Li, Lidong Bing and Irwin King* [📄](#)
- #24: Predicting Malware Attributes from Cybersecurity Texts.** *Arpita Roy, Youngja Park and Shimei Pan* [📄](#)
- #25: Improving Distantly-supervised Entity Typing with Compact Latent Space Clustering.** *Bo Chen, Xiaotao Gu, Yufeng Hu, Siliang Tang, Guoping Hu, Yueting Zhuang and Xiang Ren* [📄](#)


#26: Modelling Instance-Level Annotator Reliability for Natural Language Labelling Tasks. *Maolin Li, Arvid Fahlström Myrman, Tingting Mu and Sophia Ananiadou* 

#27: Review-Driven Multi-Label Music Style Classification by Exploiting Style Correlations. *Guangxiang Zhao, Jingjing Xu, Qi Zeng, Xuancheng Ren and Xu Sun* 


#28: Fact Discovery from Knowledge Base via Facet Decomposition. *Zihao Fu, Yankai Lin, Zhiyuan Liu and Wai Lam* 

#29: A Richer-but-Smarter Shortest Dependency Path with Attentive Augmentation for Relation Extraction. *Duy-Cat Can, Hoang-Quynh Le, Quang-Thuy Ha and Nigel Collier* 

Demos


Multilingual Entity, Relation, Event and Human Value Extraction. *Manling Li, Ying Lin, Joseph Hoover, Spencer Whitehead, Clare Voss, Morteza Deghani and Heng Ji* 

Litigation Analytics: Extracting and querying motions and orders from US federal courts. *Thomas Vacek, Dezha Song, Hugo Molina-Salgado, Ronald Teo, Conner Cowling and Frank Schilder* 

Community lexical access for an endangered polysynthetic language: An electronic dictionary for St. Lawrence Island Yupik. *Benjamin Hunt, Emily Chen, Sylvia L.R. Schreiner and Lane Schwartz* 

Visualizing Inferred Morphotactic Systems. *Haley Lepp, Olga Zamaraeva and Emily M. Bender* 

A Research Platform for Multi-Robot Dialogue with Humans. *Matthew Marge, Stephen Nogar, Cory J. Hayes, Stephanie M. Lukin, Jesse Bloecker, Eric Holder and Clare Voss* 

Chat-crowd: A Dialog-based Platform for Visual Layout Composition. *Paola Cascante-Bonilla, Xuwang Yin, Vicente Ordonez and Song Feng* 

☰ Social Event

19:00 – 22:00

Minneapolis Institute of Art

Join us for a cultural event at the Minneapolis Institute of Art. Inspiring wonder through the power of art. The Minneapolis Institute of Art enriches the community by collecting, preserving, and making accessible outstanding works of art from the world's diverse cultures.

Wednesday, June 05, 2019

Breakfast

7:30 – 9:00

Hyatt Exhibit Hall

☰ Keynote 3: "Leaving the Lab: Building NLP Applications that Real People can Use"

Kieran Snyder (Textio) (<https://textio.com/team/>)

9:00 – 10:00

Nicollet Ballroom

There is a chasm between an NLP technology that works well in the research lab and something that works for applications that real people use. Research conditions are often theoretical or idealized. The first time they contribute to industry projects, many theoretical researchers are surprised to discover how much goes into building outside the lab, and how hard it is to build data products for real people ethically and transparently. This talk explores my NLP journey in three stages: working as an academic NLP researcher, learning to be a practical creator of NLP products in industry, and becoming the founding CEO of an NLP business. While each role has used my background in computational linguistics in essential ways, every step has also required me to learn and unlearn new things along the way. The further I have gone in my industry career, the more critical it has become to define and work within a well-established set of principles for data ethics. This talk is for academic researchers considering industry careers or collaborations, for people in industry who started out in academia, and for anyone on either side of the divide who wants to make NLP products that real people can use.

Coffee Break

10:00 – 10:30

Hyatt Exhibit Hall

Long Orals / Long & Short Posters

☰ 7A: Question Answering


10:30 – 12:00


Greenway

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👤 Alessandro Moschitti

10:30–10:48 **Bidirectional Attentive Memory Networks for Question Answering over Knowledge Bases.** *Yu Chen, Lingfei Wu and Mohammed J Zaki* 

10:48–11:06 **BoolQ: Exploring the Surprising Difficulty of Natural Yes/No Questions.** *Christopher Clark, Kenton Lee, Ming-Wei Chang, Tom Kwiatkowski, Michael Collins and Kristina Toutanova* 

11:06–11:24 **Enhancing Key-Value Memory Neural Networks for Knowledge Based Question Answering.** *Kun Xu, Yuxuan Lai, Yansong Feng and Zhiguo Wang* 

11:24–11:42 **Repurposing Entailment for Multi-Hop Question Answering Tasks.** *Harsh Trivedi, Heeyoung Kwon, Tushar Khot, Ashish Sabharwal and Niranjan Balasubramanian* 

11:42–12:00 **[TACL] CoQA: A Conversational Question Answering Challenge.** *Siva Reddy, Danqi Chen and Christopher D. Manning*

☰ 7B: Ethics, Bias & Fairness

10:30 – 12:00


Nicollet A

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👤: Emily Prud'hommeaux; 🐦: [Ian Stewart \(https://twitter.com/alethioguy\)](https://twitter.com/alethioguy).

10:30–10:48 **[TACL] Mind the GAP: A Balanced Corpus of Gendered Ambiguous Pronouns.** *Kellie Webster, Marta Recasens, Vera Axelrod and Jason Baldridge*

10:48–11:06 **GenderQuant: Quantifying Mention-Level Genderedness.** *Ananya, Nitya Parthasarathi and Sameer Singh* 

11:06–11:24 **Analyzing Polarization in Social Media: Method and Application to Tweets on 21 Mass Shootings.** *Dorottya Demszky, Nikhil Garg, Rob Voigt, James Zou, Jesse Shapiro, Matthew Gentzkow and Dan Jurafsky* 

11:24–11:42 **Learning to Decipher Hate Symbols.** *Jing Qian, Mai ElSherief, Elizabeth Belding and William Yang Wang* 

11:42–12:00 **[TACL] Data Statements for Natural Language Processing: Toward Mitigating System Bias and Enabling Better Science.** *Emily M. Bender and Batya Friedman*

📅 7C: Information Extraction

10:30 – 12:00

Nicollet D

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👤: Heng Ji; 🐦: [Stephen Mayhew \(https://twitter.com/mayhewsw\)](https://twitter.com/mayhewsw).

10:30–10:48 **Long-tail Relation Extraction via Knowledge Graph Embeddings and Graph Convolution Networks.** *Ningyu Zhang, Shumin Deng, Zhanlin Sun, Guanying Wang, Xi Chen, Wei Zhang and Huajun Chen* 

10:48–11:06 **GAN Driven Semi-distant Supervision for Relation Extraction.** *Pengshuai Li, Xinsong Zhang, Weijia Jia and Hai Zhao* 

11:06–11:24 **A general framework for information extraction using dynamic span graphs.** *Yi Luan, Dave Wadden, Luheng He, Amy Shah, Mari Ostendorf and Hannaneh Hajishirzi* 

11:24–11:42 **OpenCeres: When Open Information Extraction Meets the Semi-Structured Web.** *Colin Lockard, Prashant Shiralkar and Xin Luna Dong* 

11:42–12:00 **Structured Minimally Supervised Learning for Neural Relation Extraction.** *Fan Bai and Alan Ritter* 

📅 7D: Machine Translation

10:30 – 12:00

Northstar A

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👤: Colin Cherry; 🐦: [Bashar Alhafni \(https://twitter.com/BAlhafni\)](https://twitter.com/BAlhafni).

10:30–10:48 **Neural Machine Translation of Text from Non-Native Speakers.** *Antonios Anastasopoulos, Alison Lui, Toan Q. Nguyen and David Chiang* 

10:48–11:06 **Improving Domain Adaptation Translation with Domain Invariant and Specific Information.** *Shuhao Gu, Yang Feng and Qun Liu* 




















11:06–11:24 **Selective Attention for Context-aware Neural Machine Translation.** *Sameen Maruf, André F. T. Martins and Gholamreza Haffari* 

11:24–11:42 **On Evaluation of Adversarial Perturbations for Sequence-to-Sequence Models.** *Paul Michel, Xian Li, Graham Neubig and Juan Pino* 






11:42–12:00 **Accelerated Reinforcement Learning for Sentence Generation by Vocabulary Prediction.** *Kazuma Hashimoto and Yoshimasa Tsuruoka* 

📅 7F: Machine Learning, Tagging, Chunking, Syntax & Parsing (Posters)

Machine Learning

- #1: Adapting RNN Sequence Prediction Model to Multi-label Set Prediction.** *Kechen Qin, Cheng Li, Virgil Pavlu and Javed Aslam* 
- #2: Customizing Grapheme-to-Phoneme System for Non-Trivial Transcription Problems in Bangla Language.** *Sudipta Saha Shubha, Nafis Sadeq, Shafayat Ahmed, Md. Nahidul Islam, Muhammad Abdullah Adnan, Md. Yasin Ali Khan and Mohammad Zuberul Islam* 
- #3: Connecting Language and Knowledge with Heterogeneous Representations for Neural Relation Extraction.** *Peng Xu and Denilson Barbosa* 
- #4: Segmentation-free compositional n-gram embedding.** *Geewook Kim, Kazuki Fukui and Hidetoshi Shimodaira* 
- #5: Exploiting Noisy Data in Distant Supervision Relation Classification.** *Kaijia Yang, Liang He, Xin-Yu Dai, Shujian Huang and Jiajun Chen* 
- #6: Misspelling Oblivious Word Embeddings.** *Aleksandra Piktus, Necati Bora Edizel, Piotr Bojanowski, Edouard Grave, Rui Ferreira and Fabrizio Silvestri* 
- #7: Learning Relational Representations by Analogy using Hierarchical Siamese Networks.** *Gaetano Rossiello, Alfio Gliozzo, Robert Farrell, Nicolas Fauceglia and Michael Glass* 
- #8: An Effective Label Noise Model for DNN Text Classification.** *Ishan Jindal, Daniel Pressel, Brian Lester and Matthew Nokleby* 
- #9: Understanding Learning Dynamics Of Language Models with SVCCA.** *Naomi Saphra and Adam Lopez* 
- #10: Using Large Corpus N-gram Statistics to Improve Recurrent Neural Language Models.** *Yiben Yang, Ji-Ping Wang and Doug Downey* 
- #11: Continual Learning for Sentence Representations Using Conceptors.** *Tianlin Liu, Lyle Ungar and Joao Sedoc* 
- #12: Relation Discovery with Out-of-Relation Knowledge Base as Supervision.** *Yan Liang, Xin Liu, Jianwen Zhang and Yangqiu Song* 
- #13: Corpora Generation for Grammatical Error Correction.** *Jared Lichtarge, Chris Alberti, Shankar Kumar, Noam Shazeer, Niki Parmar and Simon Tong* 
- #14: Structural Supervision Improves Learning of Non-Local Grammatical Dependencies.** *Ethan Wilcox, Peng Qian, Richard Futrell, Miguel Ballesteros and Roger Levy* 
- #15: Benchmarking Approximate Inference Methods for Neural Structured Prediction.** *Lifu Tu and Kevin Gimpel* 
- #16: Evaluating and Enhancing the Robustness of Dialogue Systems: A Case Study on a Negotiation Agent.** *Minhao Cheng, Wei Wei and Cho-Jui Hsieh* 
- #17: Investigating Robustness and Interpretability of Link Prediction via Adversarial Modifications.** *Pouya Pezeshkpour, Yifan Tian and Sameer Singh* 
- #18: [TAACL] Analysis Methods in Neural Language Processing: A Survey.** *Yonatan Belinkov and James Glass*
- #19: [TAACL] Attentive Convolution: Equipping CNNs with RNN-style Attention Mechanisms.** *Wenpeng Yin and Hinrich Schütze*
- #20: [TAACL] Rotational Unit of Memory: A Novel Representation Unit for RNNs with Scalable Applications.** *Rumen Dangovski, Li Jing, Preslav Nakov, Mićo Tatalović and Marin Soljačić*
- #21: Transferable Neural Projection Representations.** *Chinnadhurai Sankar, Sujith Ravi and Zornitsa Kozareva* 
- #22: [SRW] Gating Mechanisms for Combining Character and Word-level Word Representations: an Empirical Study.** *Jorge Balazs and Yutaka Matsuo* 

Tagging, Chunking, Syntax & Parsing

- #23: Semantic Role Labeling with Associated Memory Network.** *Chaoyu Guan, Yuhao Cheng and Hai Zhao* 
- #24: Better, Faster, Stronger Sequence Tagging Constituent Parsers.** *David Vilares, Mostafa Abdou and Anders Søgaard* 
- #25: CAN-NER: Convolutional Attention Network for Chinese Named Entity Recognition.** *Yuying Zhu and Guoxin Wang* 
- #26: Decomposed Local Models for Coordinate Structure Parsing.** *Hiroki Teranishi, Hiroyuki Shindo and Yuji Matsumoto* 
- #27: Multi-Task Learning for Japanese Predicate Argument Structure Analysis.** *Hikaru Omori and Mamoru Komachi* 

#28: Domain adaptation for part-of-speech tagging of noisy user-generated text. *Luisa März, Dietrich Trautmann and Benjamin Roth*

#29: Neural Chinese Address Parsing. *Hao Li, Wei Lu, Pengjun Xie and Linlin Li*

#30: [SRW] A Pregroup Representation of Word Order Alternation Using Hindi Syntax. *Alok Debnath and Manish Shrivastava*

#31: Neural Text Normalization with Subword Units. *Courtney Mansfield, Ming Sun, Yuzong Liu, Ankur Gandhe and Bjorn Hoffmeister*

Grab your lunch break

12:00 – 12:30

☰ NAACL Business Meeting

12:30 – 13:30

Nicollet B/C

All attendees are encouraged to participate in the business meeting.

Long Orals / Long & Short Posters

☰ 8A: Discourse

13:30 – 15:00

Northstar A

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👤 Vincent Ng

13:30–
13:48 **Learning Hierarchical Discourse-level Structure for Fake News Detection.** *Hamid Karimi and Jiliang Tang*

13:48–
14:06 **DiscoFuse: A Large-Scale Dataset for Discourse-Based Sentence Fusion.** *Mor Geva, Eric Malmi, Idan Szpektor and Jonathan Berant*

14:06–
14:24 **Linguistically-Informed Specificity and Semantic Plausibility for Dialogue Generation.** *Wei-Jen Ko, Greg Durrett and Junyi Jessy Li*

14:24–
14:42 **Learning to Describe Unknown Phrases with Local and Global Contexts.** *Shonosuke Ishiwatari, Hiroaki Hayashi, Naoki Yoshinaga, Graham Neubig, Shoetsu Sato, Masashi Toyoda and Masaru Kitsuregawa*

14:42–
15:00 **Mining Discourse Markers for Unsupervised Sentence Representation Learning.** *Damien Sileo, Tim Van de Cruys, Camille Pradel and Philippe Muller*

☰ 8B: Machine Learning

13:30 – 15:00

Nicollet B/C

Choose All Remove All

👤: Anna Rumshisky; 🐦: [Sebastian Ruder](https://twitter.com/seb_ruder) (https://twitter.com/seb_ruder).

13:30–13:48 **How Large a Vocabulary Does Text Classification Need? A Variational Approach to Vocabulary Selection.** *Wenhu Chen, Yu Su, Yilin Shen, Zhiyu Chen, Xifeng Yan and William Yang Wang*

13:48–14:06 **Subword-based Compact Reconstruction of Word Embeddings.** *Shota Sasaki, Jun Suzuki and Kentaro Inui*

14:06–14:24 **Bayesian Learning for Neural Dependency Parsing.** *Ehsan Shareghi, Yingzhen Li, Yi Zhu, Roi Reichart and Anna Korhonen*

14:24–14:42 **AutoSeM: Automatic Task Selection and Mixing in Multi-Task Learning.** *Han Guo, Ramakanth Pasunuru and Mohit Bansal*

14:42–15:00 **Studying the Inductive Biases of RNNs with Synthetic Variations of Natural Languages.** *Shauli Ravfogel, Yoav Goldberg and Tal Linzen*

📅 8C: Applications

13:30 – 15:00

Nicollet A

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👤: T. J. Hazen; 🐦: [Sarthak Anand](https://twitter.com/isarth23) (<https://twitter.com/isarth23>).

13:30–13:48 **Attention is not Explanation.** *Sarthak Jain and Byron C. Wallace*

13:48–14:06 **Playing Text-Adventure Games with Graph-Based Deep Reinforcement Learning.** *Prithviraj Ammanabrolu and Mark Riedl*

14:06–14:24 **Information Aggregation for Multi-Head Attention with Routing-by-Agreement.** *Jian Li, Baosong Yang, Zi-Yi Dou, Xing Wang, Michael R. Lyu and Zhaopeng Tu*

14:24–14:42 **Context Dependent Semantic Parsing over Temporally Structured Data.** *Charles Chen and Razvan Bunescu*

14:42–15:00 **Structural Scaffolds for Citation Intent Classification in Scientific Publications.** *Arman Cohan, Waleed Ammar, Madeleine van Zuylen and Field Cady*

📅 8D: Semantics

13:30 – 15:00

Greenway

Choose All Remove All

👤: Matt Gardner; 🐦: [Nelson Liu](https://twitter.com/nelsonfliu) (<https://twitter.com/nelsonfliu>).

13:30–13:48 **pair2vec: Compositional Word-Pair Embeddings for Cross-Sentence Inference.** *Mandar Joshi, Eunsol Choi, Omer Levy, Daniel Weld and Luke Zettlemoyer*

13:48–14:06 **Submodular Optimization-based Diverse Paraphrasing and its Effectiveness in Data Augmentation.** *Ashutosh Kumar, Satwik Bhattamishra, Manik Bhandari and Partha Talukdar*

14:06–14:24 **Let's Make Your Request More Persuasive: Modeling Persuasive Strategies via Semi-Supervised Neural Nets on Crowdfunding Platforms.** *Diyi Yang, Jiaao Chen, Zichao Yang, Dan Jurafsky and Eduard Hovy*

14:24–14:42 **Recursive Routing Networks: Learning to Compose Modules for Language Understanding.** *Ignacio Cases, Clemens Rosenbaum, Matthew Riemer, Atticus Geiger, Tim Klinger, Alex Tamkin, Olivia Li, Sandhini Agarwal, Joshua D. Greene, Dan Jurafsky, Christopher Potts and Lauri Karttunen*

14:42–15:00 **Structural Neural Encoders for AMR-to-text Generation.** *Marco Damonte and Shay B. Cohen*

Dialogue

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- #1: Decay-Function-Free Time-Aware Attention to Context and Speaker Indicator for Spoken Language Understanding.** *Jonggu Kim and Jong-Hyeok Lee* [📄](#)
- #2: Dialogue Act Classification with Context-Aware Self-Attention.** *Vipul Raheja and Joel Tetreault* [📄](#)
- #3: Affect-Driven Dialog Generation.** *Pierre Colombo, Wojciech Witon, Ashutosh Modi, James Kennedy and Mubbasir Kapadia* [📄](#)
- #4: Multi-Level Memory for Task Oriented Dialogs.** *Revanth Gangi Reddy, Danish Contractor, Dinesh Raghu and Sachindra Joshi* [📄](#)
- #5: Topic Spotting using Hierarchical Networks with Self Attention.** *Pooja Chitkara, Ashutosh Modi, Pravalika Avvaru, Sepehr Janghorbani and Mubbasir Kapadia* [📄](#)
- #6: Top-Down Structurally-Constrained Neural Response Generation with Lexicalized Probabilistic Context-Free Grammar.** *Wenchao Du and Alan W. Black* [📄](#)
- #7: What do Entity-Centric Models Learn? Insights from Entity Linking in Multi-Party Dialogue.** *Laura Aina, Carina Silberer, Ionut-Teodor Sorodoc, Matthijs Westera and Gemma Boleda* [📄](#)
- #8: Continuous Learning for Large-scale Personalized Domain Classification.** *Han Li, Jihwan Lee, Sidharth Mudgal, Ruhi Sarikaya and Young-Bum Kim* [📄](#)
- #9: Cross-lingual Transfer Learning for Multilingual Task Oriented Dialog.** *Sebastian Schuster, Sonal Gupta, Rushin Shah and Mike Lewis* [📄](#)
- #10: Evaluating Coherence in Dialogue Systems using Entailment.** *Nouha Dziri, Ehsan Kamaloo, Kory Mathewson and Osmar Zaiane* [📄](#)
- #11: On Knowledge distillation from complex networks for response prediction.** *Siddhartha Arora, Mitesh M. Khapra and Harish G. Ramaswamy* [📄](#)


Multilingual NLP

- #12: Cross-lingual Multi-Level Adversarial Transfer to Enhance Low-Resource Name Tagging.** *Lifu Huang, Heng Ji and Jonathan May* [📄](#)
- #13: Unsupervised Extraction of Partial Translations for Neural Machine Translation.** *Benjamin Marie and Atsushi Fujita* [📄](#)
- #14: Low-Resource Syntactic Transfer with Unsupervised Source Reordering.** *Mohammad Sadegh Rasooli and Michael Collins* [📄](#)
- #15: Revisiting Adversarial Autoencoder for Unsupervised Word Translation with Cycle Consistency and Improved Training.** *Tasnim Mohiuddin and Shafiq Joty* [📄](#)
- #16: Addressing word-order Divergence in Multilingual Neural Machine Translation for extremely Low Resource Languages.** *Rudra Murthy, Anoop Kunchukuttan and Pushpak Bhattacharyya* [📄](#)
- #17: Massively Multilingual Neural Machine Translation.** *Roei Aharoni, Melvin Johnson and Orhan Firat* [📄](#)
- #18: A Large-Scale Comparison of Historical Text Normalization Systems.** *Marcel Bollmann* [📄](#)
- #19: Combining Discourse Markers and Cross-lingual Embeddings for Synonym–Antonym Classification.** *Michael Roth and Shyam Upadhyay* [📄](#)
- #20: Context-Aware Cross-Lingual Mapping.** *Hanan Aldarmaki and Mona Diab* [📄](#)
- #21: Polyglot Contextual Representations Improve Crosslingual Transfer.** *Phoebe Mulcaire, Jungo Kasai and Noah A. Smith* [📄](#)
- #22: Typological Features for Multilingual Delexicalised Dependency Parsing.** *Manon Scholivet, Franck Dary, Alexis Nasr, Benoit Favre and Carlos Ramisch* [📄](#)


Summarization

- #23: Recommendations for Datasets for Source Code Summarization.** *Alexander LeClair and Collin McMillan* [📄](#)
- #24: Question Answering as an Automatic Evaluation Metric for News Article Summarization.** *Matan Eyal, Tal Baumel and Michael Elhadad* [📄](#)
- #25: Understanding the Behaviour of Neural Abstractive Summarizers using Contrastive Examples.** *Krtin Kumar and Jackie Chi Kit Cheung* [📄](#)
- #26: Jointly Extracting and Compressing Documents with Summary State Representations.** *Afonso Mendes, Shashi Narayan, Sebastião Miranda, Zita Marinho, André F. T. Martins and Shay B. Cohen* [📄](#)

#27: News Article Teaser Tweets and How to Generate Them. Sanjeev Kumar Karn, Mark Buckley, Ulli Waltinger and Hinrich Schütze 

#28: Cross-referencing Using Fine-grained Topic Modeling. Jeffrey Lund, Piper Armstrong, Wilson Fearn, Stephen Cowley, Emily Hales and Kevin Seppi 

#29: Conversation Initiation by Diverse News Contents Introduction. Satoshi Akasaki and Nobuhiro Kaji 

#30: Positional Encoding to Control Output Sequence Length. Sho Takase and Naoaki Okazaki 

Coffee Break

15:00 – 15:30

Hyatt Exhibit Hall

Short Orals / Industry Posters

☰ 9A: Question Answering


15:30 – 16:30

Greenway

Choose All Remove All

👤: Mo Yu

15:30–
15:45 **The Lower The Simpler: Simplifying Hierarchical Recurrent Models.** Chao Wang and Hui Jiang 

15:45–
16:00 **Using Natural Language Relations between Answer Choices for Machine Comprehension.** Rajkumar Pujari and Dan Goldwasser 

16:00–
16:15 **Saliency Learning: Teaching the Model Where to Pay Attention.** Reza Ghaeini, Xiaoli Fern, Hamed Shahbazi and Prasad Tadepalli 

16:15–
16:30 **Understanding Dataset Design Choices for Multi-hop Reasoning.** Jifan Chen and Greg Durrett 

☰ 9B: Applications

15:30 – 16:30

Nicollet A


Choose All Remove All

👤: Zornitsa Kozareva

15:30–
15:45 **Neural Grammatical Error Correction with Finite State Transducers.** Felix Stahlberg, Christopher Bryant and Bill Byrne 

15:45–
16:00 **Convolutional Self-Attention Networks.** Baosong Yang, Longyue Wang, Derek F. Wong, Lidia S. Chao and Zhaopeng Tu 

16:00–
16:15 **Rethinking Complex Neural Network Architectures for Document Classification.** Ashutosh Adhikari, Achyudh Ram, Raphael Tang and Jimmy Lin 

16:15–
16:30 **[SRW] Speak up, Fight Back! Detection of Social Media Disclosures of Sexual Harassment.** Arijit Ghosh Chowdhury, Ramit Sawhney, Puneet Mathur, Debanjan Mahata and Rajiv Ratn Shah 

☰ 9C: Generation

15:30 – 16:30

Northstar A

Choose All Remove All

👤: Fei Liu; 🐦: [Tuhin Chakrabarty_\(https://twitter.com/Tuhin66978276\)](https://twitter.com/Tuhin66978276)

15:30–
15:45 **Pre-trained language model representations for language generation.** *Sergey Edunov, Alexei Baevski and Michael Auli* 📄

15:45–
16:00 **Pragmatically Informative Text Generation.** *Sheng Shen, Daniel Fried, Jacob Andreas and Dan Klein* 📄

16:00–
16:15 **Stochastic Wasserstein Autoencoder for Probabilistic Sentence Generation.** *Hareesh Bahuleyan, Lili Mou, Hao Zhou and Olga Vechtomova* 📄

16:15–
16:30 **Benchmarking Hierarchical Script Knowledge.** *Yonatan Bisk, Jan Buys, Karl Pichotta and Yejin Choi* 📄

9D: Cognitive & Psycholinguistics

15:30 – 16:30

Nicollet D

Choose All Remove All

👤: Bridget McInnes; 🐦: [Asad Sayeed_\(https://twitter.com/asayeed\)](https://twitter.com/asayeed)

15:30–
15:45 **[SRW] SNAP-BATNET: Cascading Author Profiling and Social Network Graphs for Suicide Ideation Detection on Social Media.** *Rohan Mishra, Pradyumn Prakhar Sinha, Ramit Sawhney, Debanjan Mahata, Puneet Mathur and Rajiv Ratn Shah* 📄

15:45–
16:00 **A large-scale study of the effects of word frequency and predictability in naturalistic reading.** *Cory Shain* 📄

16:00–
16:15 **Augmenting word2vec with latent Dirichlet allocation within a clinical application.** *Akshay Budhkar and Frank Rudzicz* 📄

16:15–
16:30 **On the Idiosyncrasies of the Mandarin Chinese Classifier System.** *Shijia Liu, Hongyuan Mei, Adina Williams and Ryan Cotterell* 📄

9E: Machine Learning

15:30 – 16:30

Nicollet B/C

Choose All Remove All

👤: Byron C. Wallace; 🐦: [Moin Nadeem_\(https://twitter.com/moinnadeem\)](https://twitter.com/moinnadeem)

15:30–
15:45 **Joint Learning of Pre-Trained and Random Units for Domain Adaptation in Part-of-Speech Tagging.** *Sara Meftah, Youssef Tamaazousti, Nasredine Semmar, Hassane Essafi and Fatiha Sadat* 📄

15:45–
16:00 **Show Some Love to Your n-grams: A Bit of Progress and Stronger n-gram Language Modeling Baselines.** *Ehsan Shareghi, Daniela Gerz, Ivan Vulić and Anna Korhonen* 📄












16:00–
16:15 **Training Data Augmentation for Context-Sensitive Neural Lemmatizer Using Inflection Tables and Raw Text.** *Toms Bergmanis and Sharon Goldwater* 📄

16:15–
16:30 **A Structural Probe for Finding Syntax in Word Representations.** *John Hewitt and Christopher D. Manning* 📄

☰ 9F: Industry (posters)

15:30 – 16:30

Hyatt Exhibit Hall

- #1: Neural Lexicons for Slot Tagging in Spoken Language Understanding.** *Kyle Williams* 
- #2: Active Learning for New Domains in Natural Language Understanding.** *Stanislav Peshterliev, John Kearney, Abhyuday Jagannatha, Imre Kiss and Spyros Matsoukas* 
- #3: Scaling Multi-Domain Dialogue State Tracking via Query Reformulation.** *Pushpendre Rastogi, Arpit Gupta, Tongfei Chen and Mathias Lambert* 
- #4: Are the Tools up to the Task? an Evaluation of Commercial Dialog Tools in Developing Conversational Enterprise-grade Dialog Systems.** *Marie Meteer, Meghan Hickey, Carmi Rothberg, David Nahamoo and Ellen Eide Kisla* 
- #5: Development and Deployment of a Large-Scale Dialog-based Intelligent Tutoring System.** *Shazia Afza, Tejas Dhamecha, Nirmal Mukhi, Renuka Sindhgatta, Smit Marvaniya, Matthew Ventura and Jessica Yarbro* 
- #6: Learning When Not to Answer: a Ternary Reward Structure for Reinforcement Learning Based Question Answering.** *Frédéric Godin, Anjishnu Kumar and Arpit Mittal* 
- #7: Extraction of Message Sequence Charts from Software Use-Case Descriptions.** *Girish Palshikar, Nitin Ramrakhiani, Sangameshwar Patil, Sachin Pawar, Swapnil Hingmire, Vasudeva Varma and Pushpak Bhattacharyya* 
- #8: Improving Knowledge Base Construction from Robust Infobox Extraction.** *Boya Peng, Yejin Huh, Xiao Ling and Michele Banko* 
- #9: A k-Nearest Neighbor Approach towards Multi-level Sequence Labeling.** *Yue Chen and John Chen* 
- #10: Train One Get One Free: Partially Supervised Neural Network for Bug Report Duplicate Detection and Clustering.** *Lahari Poddar, Leonardo Neves, William Brendel, Luis Marujo, Sergey Tulyakov and Pradeep Karuturi* 
- #11: Robust Semantic Parsing with Adversarial Learning for Domain Generalization.** *Gabriel Marzinotto, Geraldine Damnati, Frederic Bechet and Benoit Favre* 
- #12: TOI-CNN: a Solution of Information Extraction on Chinese Insurance Policy.** *Lin Sun, Kai Zhang, Fule Ji and Zhenhua Yang* 
- #13: Cross-lingual Transfer Learning for Japanese Named Entity Recognition.** *Andrew Johnson, Penny Karanasou, Judith Gaspers and Dietrich Klakow* 
- #14: Audio De-identification - a New Entity Recognition Task.** *Ido Cohn, Itay Laish, Genady Beryozkin, Gang Li, Izhak Shafran, Idan Szpektor, Tzvika Hartman, Avinatan Hassidim and Yossi Matias* 
- #15: In Other News: a Bi-style Text-to-speech Model for Synthesizing Newscaster Voice with Limited Data.** *Nishant Prateek, Mateusz Łajszczak, Roberto Barra-Chicote, Thomas Drugman, Jaime Lorenzo-Trueba, Thomas Merritt, Srikanth Ronanki and Trevor Wood* 
- #16: Generate, Filter, and Rank: Grammaticality Classification for Production-Ready NLG Systems.** *Ashwini Challa, Kartikeya Upasani, Anusha Balakrishnan and Rajen Subba* 
- #17: Content-based Dwell Time Engagement Prediction Model for News Articles.** *Heidar Davoudi, Aijun An and Gordon Edall* 


Short Break

16:30 – 16:45

☰ Best Paper Session

16:45 – 18:15

Nicollet Ballroom

16:45–
17:03 **CNM: An Interpretable Complex-valued Network for Matching.** *Qiuchi Li, Benyou Wang and Massimo Melucci* 

17:03–
17:21 **CommonsenseQA: A Question Answering Challenge Targeting Commonsense Knowledge.** *Alon Talmor, Jonathan Herzig, Nicholas Lourie and Jonathan Berant* 

17:21–
17:39 **Probing the Need for Visual Context in Multimodal Machine Translation.** *Ozan Caglayan, Pranava Madhyastha, Lucia Specia and Loïc Barrault* 

17:39–
17:57 **BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding.** *Jacob Devlin, Ming-Wei Chang, Kenton Lee and Kristina Toutanova* 

17:57–
18:15 **What's in a Name? Reducing Bias in Bios without Access to Protected Attributes.** *Alexey Romanov, Maria De-Arteaga, Hanna Wallach, Jennifer Chayes, Christian Borgs, Alexandra Chouldechova, Sahin Geyik, Krishnaram Kenthapadi, Anna Rumshisky and Adam Kalai* 

Closing Remarks

18:15 – 18:30

[Nicollet Ballroom](#)

Include plenary sessions in schedule

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