

# Conference Program

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

**Monday, July 6, 2020 UTC+0**

## **05:00–05:45 Demo Session 1A**

*[Demo] Xiaomingbot: A Multilingual Robot News Reporter*

Runxin Xu, Jun Cao, Mingxuan Wang, Jiaze Chen, Hao Zhou, Ying Zeng, Yuping Wang, Li Chen, Xiang Yin, Xijin Zhang, Songcheng Jiang, Yuxuan Wang and Lei Li

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

*[TACL] How Furiously Can Colourless Green Ideas Sleep? Sentence Acceptability in Context*

Jey Han Lau, Carlos Santos Armendariz, Matthew Purver, Chang Shu, Shalom Lap-pin

*[Short] Learning to Understand Child-directed and Adult-directed Speech*

Lieke Gelderloos, Grzegorz Chrupala and Afra Alishahi

*[Long] Predicting Depression in Screening Interviews from Latent Categorization of Interview Prompts*

Alex Rinaldi, Jean Fox Tree and Snigdha Chaturvedi

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

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

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

*[Short] Designing Precise and Robust Dialogue Response Evaluators*

Tianyu Zhao, Divesh Lala and Tatsuya Kawahara

*[Short] Dialogue State Tracking with Explicit Slot Connection Modeling*

Yawen Ouyang, Moxin Chen, Xinyu Dai, Yinggong Zhao, Shujian Huang and Jia-jun CHEN

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

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

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

*[Long] Guiding Variational Response Generator to Exploit Persona*

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

*[Long] Large Scale Multi-Actor Generative Dialog Modeling*

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

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

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

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

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

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

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

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

Giovanni Campagna, Agata Foryciarz, Mehrad Moradshahi and Monica Lam

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

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

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

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

Ruifang He, Jian Wang, Fengyu Guo and Yugui Han

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

**05:00–06:00 Session 1A Generation-1**

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

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

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

Ashish V. Thapliyal and Radu Soricut

*[Long] Fact-based Text Editing*

Hayate Iso, Chao Qiao and Hang Li

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

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

*[Long] Fluent Response Generation for Conversational Question Answering*

Ashutosh Baheti, Alan Ritter and Kevin Small

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

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

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

Zi Chai and Xiaojun Wan

*[Long] Neural Syntactic Preordering for Controlled Paraphrase Generation*

Tanya Goyal and Greg Durrett

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

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

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

Yi Liao, Xin Jiang and Qun Liu

*[Short] Reverse Engineering Configurations of Neural Text Generation Models*

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

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

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

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

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

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

*[Long] Unsupervised Paraphrasing by Simulated Annealing*

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

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

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

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

*[Long] Contextualized Weak Supervision for Text Classification*

Dheeraj Mekala and Jingbo Shang

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

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

*[Long] Neural Topic Modeling with Bidirectional Adversarial Training*

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

*[Short] Text Classification with Negative Supervision*

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

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

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

*[Short] Content Word Aware Neural Machine Translation*

Kehai Chen, Rui Wang, Masao Utiyama and Eiichiro Sumita

*[Long] Evaluating Explanation Methods for Neural Machine Translation*

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

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

Junliang Guo, Linli Xu and Enhong Chen

*[Long] Learning Source Phrase Representations for Neural Machine Translation*

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

*[Short] Lipschitz Constrained Parameter Initialization for Deep Transformers*

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

*[Long] Location Attention for Extrapolation to Longer Sequences*

Yann Dubois, Gautier Dagan, Dieuwke Hupkes and Elia Bruni

*[Long] Multiscale Collaborative Deep Models for Neural Machine Translation*

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

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

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

*[Short] Opportunistic Decoding with Timely Correction for Simultaneous Translation*

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

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

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

*[Long] A Formal Hierarchy of RNN Architectures*

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

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

Chenchen Ding, Masao Utiyama and Eiichiro Sumita

*[Long] Dice Loss for Data-imbalanced NLP Tasks*

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

*[Long] Emergence of Syntax Needs Minimal Supervision*

Raphaël Bailly and Kata Gábor

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

Tatsuki Kuribayashi, Takumi Ito, Jun Suzuki and Kentaro Inui

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

Michael Hahn

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

*[SRW] Adaptive Transformers for Learning Multimodal Representations*

Prajwal Bhargava

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

Yusu Qian

*[SRW] Unsupervised Paraphasia Classification in Aphasic Speech*

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

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

Miaomiao Yu, Yujiu Yang and Chenhui Li

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

**05:45–06:30 Demo Session 1B**

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

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

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

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

Yi-Ju Lu and Cheng-Te Li

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

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

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

Peter Stefanov, Kareem Darwish, Atanas Atanasov and Preslav Nakov

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

Hila Gonen, Ganesh Jawahar, Djamé Seddah and Yoav Goldberg

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

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

Lei Shen and Yang Feng

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

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

*[Long] Efficient Dialogue State Tracking by Selectively Overwriting Memory*

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

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

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

*[Short] Evaluating Dialogue Generation Systems via Response Selection*

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

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

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

Yefei Zha, Ruobing Li and Hui Lin

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

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

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

Keqing He, Yuanmeng Yan and Weiran XU

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

Ryuichi Takanobu, Runze Liang and Minlie Huang

*[Long] Paraphrase Augmented Task-Oriented Dialog Generation*

Silin Gao, Yichi Zhang, Zhijian Ou and Zhou Yu

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

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

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

Xinting Huang, Jianzhong Qi, Yu Sun and Rui Zhang

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

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

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

Shikib Mehri and Maxine Eskenazi



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

**06:00–07:00 Session 1B Generation-2**

*[Long] Explicit Semantic Decomposition for Definition Generation*

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

*[Long] Improved Natural Language Generation via Loss Truncation*

Daniel Kang and Tatsunori Hashimoto

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

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

*[Long] Rigid Formats Controlled Text Generation*

Piji Li, Haisong Zhang, Xiaojiang Liu and Shuming Shi

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

Kaustubh Dhole and Christopher D. Manning

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

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

Jay Kumar, Junming Shao, Salah Uddin and Wazir Ali

*[Long] Generative Semantic Hashing Enhanced via Boltzmann Machines*

Lin Zheng, Qinliang Su, Dinghan Shen and Changyou Chen

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

Ryosuke Kohita, Issei Yoshida, Hiroshi Kanayama and Tetsuya Nasukawa

*[Short] Tree-Structured Neural Topic Model*

Masaru Isonuma, Junichiro Mori, Danushka Bollegala and Ichiro Sakata

*[Short] Unsupervised FAQ Retrieval with Question Generation and BERT*

Yosi Mass, Boaz Carmeli, Haggai Roitman and David Konopnicki

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

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

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

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

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

Joongbo Shin, Yoonhyung Lee, Seunghyun Yoon and Kyomin Jung

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

Heyuan Wang, Fangzhao Wu, Zheng Liu and Xing Xie

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

Fan Zhou, Shengming Zhang and Yi Yang

*[Short] Interpreting Twitter User Geolocation*

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

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

Grandee Lee and Haizhou Li

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

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

*[Long] Spelling Error Correction with Soft-Masked BERT*

Shaohua Zhang, Haoran Huang, Jicong Liu and Hang Li

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

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

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

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

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

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

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

Jinhyuk Lee, Minjoon Seo, Hannaneh Hajishirzi and Jaewoo Kang

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

Ananth Gottumukkala, Dheeru Dua, Sameer Singh and Matt Gardner

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

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

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

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

*[Long] Injecting Numerical Reasoning Skills into Language Models*

Mor Geva, Ankit Gupta and Jonathan Berant

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

Souvik Kundu, Qian Lin and Hwee Tou Ng

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

Yunshi Lan and Jing Jiang

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

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

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

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

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

Yanzhi Yi, Hangyu Deng and Jinglu Hu

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

Ryokan Ri and Yoshimasa Tsuruoka

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

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

Terra Blevins and Luke Zettlemoyer

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

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

Yujin Takahashi, Satoru Katsumata and Mamoru Komachi

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

Arda Akdemir

*[SRW] RPD: A Distance Function Between Word Embeddings*

Xuhui Zhou, Shujian Huang and Zaixiang Zheng

*[SRW] Reflection-based Word Attribute Transfer*

Yoichi Ishibashi, Katsuhito Sudoh, Koichiro Yoshino and Satoshi Nakamura

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

**06:30–07:15 Demo Session 1C**

*[Demo] Syntactic Search by Example*

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

**08:00–08:45 Demo Session 2A**

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

Timothée Bernard

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

Tiancheng Zhao and Kyusong Lee

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

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

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

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

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

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

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

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

Peter Stefanov, Kareem Darwish, Atanas Atanasov and Preslav Nakov

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

Hila Gonen, Ganesh Jawahar, Djamé Seddah and Yoav Goldberg

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

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

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

Lei Shen and Yang Feng

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

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

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

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

*[Long] Towards Conversational Recommendation over Multi-Type Dialogs*

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

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

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

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

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

**08:00–09:00 Session 2A Generation-3**

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

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

*[Long] Fact-based Text Editing*

Hayate Iso, Chao Qiao and Hang Li

*[Long] Fluent Response Generation for Conversational Question Answering*

Ashutosh Baheti, Alan Ritter and Kevin Small

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

Zi Chai and Xiaojun Wan

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

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

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

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

Yi Liao, Xin Jiang and Qun Liu

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

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

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

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

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

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

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

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

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

*[Long] Exclusive Hierarchical Decoding for Deep Keyphrase Generation*

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

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

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

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

Ryosuke Kohita, Issei Yoshida, Hiroshi Kanayama and Tetsuya Nasukawa

*[Short] Keyphrase Generation for Scientific Document Retrieval*

Florian Boudin, Ygor Gallina and Akiko Aizawa

*[Long] Neural Topic Modeling with Bidirectional Adversarial Training*

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

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

*[Short] Text Classification with Negative Supervision*

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

*[Short] Tree-Structured Neural Topic Model*

Masaru Isonuma, Junichiro Mori, Danushka Bollegala and Ichiro Sakata

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

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

Valentin Hofmann, Hinrich Schütze and Janet Pierrehumbert

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

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

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

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

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

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

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

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

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

*[Long] Injecting Numerical Reasoning Skills into Language Models*

Mor Geva, Ankit Gupta and Jonathan Berant

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

Souvik Kundu, Qian Lin and Hwee Tou Ng

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

Yunshi Lan and Jing Jiang



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

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

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

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

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

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

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

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

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

Serra Sinem Tekiroğlu, Yi-Ling Chung and Marco Guerini

*[Long] KLEJ: Comprehensive Benchmark for Polish Language Understanding*

Piotr Rybak, Robert Mroczkowski, Janusz Tracz and Ireneusz Gawlik

*[Long] Learning and Evaluating Emotion Lexicons for 91 Languages*

Sven Buechel, Susanna Rücker and Udo Hahn

*[Long] Multi-Hypothesis Machine Translation Evaluation*

Marina Fomicheva, Lucia Specia and Francisco Guzmán

*[Short] Multimodal Quality Estimation for Machine Translation*

Shu Okabe, Frédéric Blain and Lucia Specia

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

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

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

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

*[Long] The TechQA Dataset*

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

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

*[Long] iSarcasm: A Dataset of Intended Sarcasm*

Silviu Oprea and Walid Magdy

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

*[Long] AMR Parsing via Graph-Sequence Iterative Inference*

Deng Cai and Wai Lam

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

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

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

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

Junnan Zhu, Yu Zhou, Jiajun Zhang and Chengqing Zong

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

Demian Gholipour Ghalandari and Georgiana Ifrim

*[Long] Improving Truthfulness of Headline Generation*

Kazuki Matsumaru, Sho Takase and Naoaki Okazaki

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

Yang Gao, Wei Zhao and Steffen Eger

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

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

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

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

*[SRW] Topic Balancing with Additive Regularization of Topic Models*

Eugeniia Veselova and Konstantin Vorontsov

*[SRW] Combining Subword Representations into Word-level Representations in the Transformer Architecture*

Noe Casas, Marta R. Costa-jussà and José A. R. Fonollosa

*[SRW] Zero-shot North Korean to English Neural Machine Translation by Character Tokenization and Phoneme Decomposition*

Hwichan Kim, Tosho Hirasawa and Mamoru Komachi

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

Felix Hamborg

**08:45–09:30 Demo Session 2B**

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

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

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

*[TACL] How Furiously Can Colourless Green Ideas Sleep? Sentence Acceptability in Context*

Jey Han Lau, Carlos Santos Armendariz, Matthew Purver, Chang Shu, Shalom Lap-pin

*[Long] Predicting Depression in Screening Interviews from Latent Categorization of Interview Prompts*

Alex Rinaldi, Jean Fox Tree and Snigdha Chaturvedi

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

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

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

Weixin Liang, James Zou and Zhou Yu

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

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

*[Short] Designing Precise and Robust Dialogue Response Evaluators*

Tianyu Zhao, Divesh Lala and Tatsuya Kawahara

*[Short] Evaluating Dialogue Generation Systems via Response Selection*

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

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

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

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

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

*[Long] Guiding Variational Response Generator to Exploit Persona*

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

*[Long] Learning Dialog Policies from Weak Demonstrations*

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

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

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

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

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

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

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

*[Long] Bridging Anaphora Resolution as Question Answering*

Yufang Hou

*[Long] Dialogue Coherence Assessment Without Explicit Dialogue Act Labels*

Mohsen Mesgar, Sebastian Bückner and Iryna Gurevych

**09:00–10:00 Session 2B Generation-4**

*[Long] Explicit Semantic Decomposition for Definition Generation*

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

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

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

*[Long] Semantic Graphs for Generating Deep Questions*

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

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

Kaustubh Dhole and Christopher D. Manning

*[Long] Unsupervised Paraphrasing by Simulated Annealing*

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

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

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

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

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

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

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

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

Marcin Namysl, Sven Behnke and Joachim Köhler

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

Pierre Lison, Jeremy Barnes, Aliaksandr Hubin and Samia Touileb

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

Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig

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

Guoshun Nan, Zhijiang Guo, Ivan Sekulic and Wei Lu

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

Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig

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

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

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

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

*[Long] Boosting Neural Machine Translation with Similar Translations*

Jitao XU, Josep Crego and Jean Senellart

*[Short] Character-Level Translation with Self-attention*

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

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

Thomas Zenkel, Joern Wuebker and John DeNero

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

Emanuele Bugliarello and Naoaki Okazaki

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

Biao Zhang, Philip Williams, Ivan Titov and Rico Sennrich

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

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

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

Changfeng Zhu, Heng Yu, Shanbo Cheng and Weihua Luo

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

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

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

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

*[Short] Parallel Sentence Mining by Constrained Decoding*

Pinzhen Chen, Nikolay Bogoychev, Kenneth Heafield and Faheem Kirefu

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

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

Liang Ding, Longyue Wang and Dacheng Tao

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

Dirk Hovy, Federico Bianchi and Tommaso Fornaciari

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

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

Joongbo Shin, Yoonhyung Lee, Seunghyun Yoon and Kyomin Jung

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

Heyuan Wang, Fangzhao Wu, Zheng Liu and Xing Xie

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

Fan Zhou, Shengming Zhang and Yi Yang

*[Short] Interpreting Twitter User Geolocation*

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

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

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

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

Grandee Lee and Haizhou Li

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

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

*[Long] Spelling Error Correction with Soft-Masked BERT*

Shaohua Zhang, Haoran Huang, Jicong Liu and Hang Li



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

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

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

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

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

Pedro Javier Ortiz Suárez, Laurent Romary and Benoît Sagot

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

Yanzhi Yi, Hangyu Deng and Jinglu Hu

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

Ryokan Ri and Yoshimasa Tsuruoka

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

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

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

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

Chenchen Ding, Masao Utiyama and Eiichiro Sumita

*[Long] Dice Loss for Data-imbalanced NLP Tasks*

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

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

Tatsuki Kuribayashi, Takumi Ito, Jun Suzuki and Kentaro Inui

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

Michael Hahn

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

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

*[SRW] SCAR: Sentence Compression using Autoencoders for Reconstruction*

Chanakya Malireddy, Tirth Maniar and Manish Shrivastava

*[SRW] Feature Difference Makes Sense: A medical image captioning model exploiting feature difference and tag information*

Hyeryun Park, Kyungmo Kim, Jooyoung Yoon, Seongkeun Park and Jinwook Choi

*[SRW] Multi-Task Neural Model for Agglutinative Language Translation*

Yirong Pan, Xiao Li, Yating Yang and Rui Dong

*[SRW] Considering Likelihood in NLP Classification Explanations with Occlusion and Language Modeling*

David Harbecke and Christoph Alt

**09:30–10:15    Demo Session 2C**

*[Demo] pyBART: Evidence-based Syntactic Transformations for IE*

Aryeh Tiktinsky, Yoav Goldberg and Reut Tsarfaty

**12:00–12:45    Demo Session 3A**

*[Demo] EVIDENCEMINER: Textual Evidence Discovery for Life Sciences*

Xuan Wang, Yingjun Guan, Weili Liu, Aabhas Chauhan, Enyi Jiang, Qi Li, David Liem, Dibakar Sigdel, John Caufield, Peipei Ping and Jiawei Han

*[Demo] Trialstreamer: Mapping and Browsing Medical Evidence in Real-Time*

Benjamin Nye, Ani Nenkova, Iain Marshall and Byron C. Wallace

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

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

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

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

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

Kate McCurdy, Sharon Goldwater and Adam Lopez

*[Short] Overestimation of Syntactic Representation in Neural Language Models*

Jordan Kodner and Nitish Gupta

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

David Wilmot and Frank Keller

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

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

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

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

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

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

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

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

Yi-Ju Lu and Cheng-Te Li

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

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

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

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

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

Weixin Liang, James Zou and Zhou Yu

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

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

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

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

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

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

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

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

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

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

*[Long] Paraphrase Augmented Task-Oriented Dialog Generation*

Silin Gao, Yichi Zhang, Zhijian Ou and Zhou Yu

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

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

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

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

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

**12:00–13:00 Session 3A Generation-5**

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

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

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

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

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

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

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

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

*[Long] Rigid Formats Controlled Text Generation*

Piji Li, Haisong Zhang, Xiaojiang Liu and Shuming Shi

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

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

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

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

Jay Kumar, Junming Shao, Salah Uddin and Wazir Ali

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

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

*[Long] Exclusive Hierarchical Decoding for Deep Keyphrase Generation*

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

*[Long] Generative Semantic Hashing Enhanced via Boltzmann Machines*

Lin Zheng, Qinliang Su, Dinghan Shen and Changyou Chen

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

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

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

*[Short] Keyphrase Generation for Scientific Document Retrieval*

Florian Boudin, Ygor Gallina and Akiko Aizawa

*[Short] Unsupervised FAQ Retrieval with Question Generation and BERT*

Yosi Mass, Boaz Carmeli, Haggai Roitman and David Konopnicki

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

*[Long] Boosting Neural Machine Translation with Similar Translations*

Jitao XU, Josep Crego and Jean Senellart

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

Thomas Zenkel, Joern Wuebker and John DeNero

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

Emanuele Bugliarello and Naoaki Okazaki

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

Biao Zhang, Philip Williams, Ivan Titov and Rico Sennrich

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

Junliang Guo, Linli Xu and Enhong Chen

*[Long] Learning Source Phrase Representations for Neural Machine Translation*

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

*[Short] Lipschitz Constrained Parameter Initialization for Deep Transformers*

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

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

Haoming Jiang, Chen Liang, Chong Wang and Tuo Zhao

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

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

Liang Ding, Longyue Wang and Dacheng Tao

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

Dirk Hovy, Federico Bianchi and Tommaso Fornaciari

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

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

Pedro Javier Ortiz Suárez, Laurent Romary and Benoît Sagot

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

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

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

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

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

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

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

Serra Sinem Tekiroğlu, Yi-Ling Chung and Marco Guerini

*[Long] KLEJ: Comprehensive Benchmark for Polish Language Understanding*

Piotr Rybak, Robert Mroczkowski, Janusz Tracz and Ireneusz Gawlik

*[Long] Learning and Evaluating Emotion Lexicons for 91 Languages*

Sven Buechel, Susanna Rücker and Udo Hahn

*[Long] Multi-Hypothesis Machine Translation Evaluation*

Marina Fomicheva, Lucia Specia and Francisco Guzmán

*[Short] Multimodal Quality Estimation for Machine Translation*

Shu Okabe, Frédéric Blain and Lucia Specia

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

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

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

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

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

*[Long] The TechQA Dataset*

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

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

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

*[Long] iSarcasm: A Dataset of Intended Sarcasm*

Silviu Oprea and Walid Magdy

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

*[Long] AMR Parsing via Graph-Sequence Iterative Inference*

Deng Cai and Wai Lam

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

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

Alex Luu and Sophia A. Malamud

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

Amanda Buddemeyer, Xiaoyi Tian and Erin Walker

*[SRW] SCAR: Sentence Compression using Autoencoders for Reconstruction*

Chanakya Malireddy, Tirth Maniar and Manish Shrivastava

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

Pia Sommerauer



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

**12:45–13:30 Demo Session 3B**

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

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

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

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

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

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

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

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

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

*[Short] Dialogue State Tracking with Explicit Slot Connection Modeling*

Yawen Ouyang, Moxin Chen, Xinyu Dai, Yinggong Zhao, Shujian Huang and Jia-jun CHEN

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

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

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

Yefei Zha, Ruobing Li and Hui Lin

*[Long] Learning Dialog Policies from Weak Demonstrations*

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

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

Keqing He, Yuanmeng Yan and Weiran XU

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

Ryuichi Takanobu, Runze Liang and Minlie Huang

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

Xinting Huang, Jianzhong Qi, Yu Sun and Rui Zhang

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

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

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

*[Long] Towards Conversational Recommendation over Multi-Type Dialogs*

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

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

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

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

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

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

*[Long] Bridging Anaphora Resolution as Question Answering*

Yufang Hou

*[Long] Dialogue Coherence Assessment Without Explicit Dialogue Act Labels*

Mohsen Mesgar, Sebastian Bückner and Iryna Gurevych

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

Ruifang He, Jian Wang, Fengyu Guo and Yugui Han

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

**13:00–14:00 Session 3B Generation-6**

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

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

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

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

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

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

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

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

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

Sascha Rothe, Shashi Narayan and Aliaksei Severyn

*[Long] Politeness Transfer: A Tag and Generate Approach*

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

*[Long] Semantic Graphs for Generating Deep Questions*

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

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

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

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

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

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

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

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

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

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

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

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

Marcin Namysl, Sven Behnke and Joachim Köhler

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

Pierre Lison, Jeremy Barnes, Aliaksandr Hubin and Samia Touileb

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

Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig

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

Guoshun Nan, Zhijiang Guo, Ivan Sekulic and Wei Lu

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

Christoph Alt, Aleksandra Gabryszak and Leonhard Hennig

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

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

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

Ivan Provilkov, Dmitrii Emelianenko and Elena Voita

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

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

*[Short] Character-Level Translation with Self-attention*

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

*[Short] Content Word Aware Neural Machine Translation*

Kehai Chen, Rui Wang, Masao Utiyama and Eiichiro Sumita

*[Long] Evaluating Explanation Methods for Neural Machine Translation*

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

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

Jiawei Zhou and Phillip Keung

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

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

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

Changfeng Zhu, Heng Yu, Shanbo Cheng and Weihua Luo

*[Long] Multiscale Collaborative Deep Models for Neural Machine Translation*

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

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

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

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

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

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

*[Short] Parallel Sentence Mining by Constrained Decoding*

Pinzhen Chen, Nikolay Bogoychev, Kenneth Heafield and Faheem Kirefu

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

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

Valentin Hofmann, Hinrich Schütze and Janet Pierrehumbert

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

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

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

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

Sajad Sotudeh Gharebagh, Nazli Goharian and Ross Filice

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

Junnan Zhu, Yu Zhou, Jiajun Zhang and Chengqing Zong

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

Demian Gholipour Ghalandari and Georgiana Ifrim

*[Long] Improving Truthfulness of Headline Generation*

Kazuki Matsumaru, Sho Takase and Naoaki Okazaki

*[Long] On Faithfulness and Factuality in Abstractive Summarization*

Joshua Maynez, Shashi Narayan, Bernd Bohnet and Ryan McDonald

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

Yang Gao, Wei Zhao and Steffen Eger

*[Long] Screenplay Summarization Using Latent Narrative Structure*

Pinelopi Papalampidi, Frank Keller, Lea Frermann and Mirella Lapata

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

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

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

*[Long] Unsupervised Opinion Summarization with Noising and Denoising*

Reinald Kim Amplayo and Mirella Lapata

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

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

Abrehalei Frezghi Tela, Abraham Woubie Zewoudie and Ville Hautamäki

*[SRW] A Simple and Effective Dependency Parser for Telugu*

Sneha Nallani, Manish Shrivastava and Dipti Sharma

*[SRW] Pointwise Paraphrase Appraisal is Potentially Problematic*

Hannah Chen, Yangfeng Ji and David Evans

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

Hang Zhang, Dayiheng Liu, Jiancheng Lv and Luo Cheng

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

Vikrant Goyal, Sourav Kumar and Dipti Misra Sharma

**13:30–14:15 Demo Session 3C**

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

Timothée Bernard

*[Demo] Syntactic Search by Example*

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

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

**14:00–16:15 Plenary**

14:00–14:15 *Opening Remarks*

14:15–14:30 *Presidential Address*

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

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

15:45–16:15 *Business Meeting Q&A*

**17:00–17:45 Demo Session 4A**

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

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

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

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

*[Demo] Multilingual Universal Sentence Encoder for Semantic Retrieval*

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



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

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

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

Trevor Cohen and Serguei Pakhomov

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

Kate McCurdy, Sharon Goldwater and Adam Lopez

*[Long] Probing Linguistic Systematicity*

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

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

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

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

Forrest Davis and Marten van Schijndel

*[Long] Speakers enhance contextually confusable words*

Eric Meinhardt, Eric Bakovic and Leon Bergen

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

Richard Futrell, William Dyer and Greg Scontras

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

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

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

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

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

Yulan Feng, Shikib Mehri, Maxine Eskenazi and Tiancheng Zhao

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

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

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

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

*[Long] Efficient Dialogue State Tracking by Selectively Overwriting Memory*

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

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

Houyu Zhang, Zhenghao Liu, Chenyan Xiong and Zhiyuan Liu

*[Long] Negative Training for Neural Dialogue Response Generation*

Tianxing He and James Glass

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

Rashmi Gangadharaiah and Balakrishnan Narayanaswamy

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

Ahmed Elgohary, saghar Hosseini and Ahmed Hassan Awadallah

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

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

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

Shikib Mehri and Maxine Eskenazi

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

Giovanni Campagna, Agata Foryciarz, Mehrad Moradshahi and Monica Lam

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

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

*[Long] Calibrating Structured Output Predictors for Natural Language Processing*

Abhyuday Jagannatha and hong yu

*[Long] Active Imitation Learning with Noisy Guidance*

Kianté Brantley, Hal Daumé III and Amr Sharaf

*[Short] ExpBERT: Representation Engineering with Natural Language Explanations*

Shikhar Murty, Pang Wei Koh and Percy Liang

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

Danilo Croce, Giuseppe Castellucci and Roberto Basili

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

Zhengbao Jiang, Wei Xu, Jun Araki and Graham Neubig

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

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

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

Jiaao Chen, Zichao Yang and Diyi Yang

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

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

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

Robert L Logan IV, Matt Gardner and Sameer Singh

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

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

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

David Demeter, Gregory Kimmel and Doug Downey

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

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

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

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

Sinong Wang, Madian Khabisa and Hao Ma

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

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

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

Subhabrata Mukherjee and Ahmed Hassan Awadallah

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

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

Asad Mahmood, Zubair Shafiq and Padmini Srinivasan

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

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

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

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

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

Hannah Craighead, Andrew Caines, Paula Buttery and Helen Yannakoudakis

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

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

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

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

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

Ruiqi Zhong, Mitchell Stern and Dan Klein

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

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

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

Jinhyuk Lee, Minjoon Seo, Hannaneh Hajishirzi and Jaewoo Kang

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

Ananth Gottumukkala, Dheeru Dua, Sameer Singh and Matt Gardner

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

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

Samuel Broscheit, Kiril Gashtevski, Yanjie Wang and Rainer Gemulla

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

Venkata Subrahmanyam Govindarajan, Benjamin Van Durme, Aaron Steven White

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

Vivek Gupta, Maitrey Mehta, Pegah Nokhiz and Vivek Srikumar

*[TACL] Inherent Disagreements in Human Textual Inferences*

Ellie Pavlick, Tom Kwiatkowski

*[Long] Interactive Machine Comprehension with Information Seeking Agents*

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

*[Short] Syntactic Data Augmentation Increases Robustness to Inference Heuristics*

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

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

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

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

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

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

Yu-An Chung and James Glass

*[Long] Integrating Multimodal Information in Large Pretrained Transformers*

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

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

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

*[Short] Multimodal and Multiresolution Speech Recognition with Transformers*

Georgios Paraskevopoulos, Srinivas Parthasarathy, Aparna Khare and Shiva Sundaram

*[Long] Phone Features Improve Speech Translation*

Elizabeth Salesky and Alan W Black

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

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

Felix Hamborg

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

Zheng Tang, Gus Hahn-Powell and Mihai Surdeanu

*[SRW] Research Replication Prediction Using Weakly Supervised Learning*

Tianyi Luo, Xingyu Li, Hainan Wang and Yang Liu

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

J. A. Meaney

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

**17:45–18:30 Demo Session 4B**

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

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

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

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

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

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

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

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

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

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

**18:00–19:00    Session 4B Generation-7**

*[Long] Automatic Poetry Generation from Prosaic Text*

Tim Van de Cruys

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

Chao Zhao, Marilyn Walker and Snigdha Chaturvedi

*[Short] Enabling Language Models to Fill in the Blanks*

Chris Donahue, Mina Lee and Percy Liang

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

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

*[Long] INSET: Sentence Infilling with INter-SEntential Transformer*

Yichen Huang, Yizhe Zhang, Oussama Elachqar and Yu Cheng

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

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

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

Sascha Rothe, Shashi Narayan and Aliaksei Severyn

*[Long] Neural Syntactic Preordering for Controlled Paraphrase Generation*

Tanya Goyal and Greg Durrett

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

Nabil Hossain, Marjan Ghazvininejad and Luke Zettlemoyer



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

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

*[Long] BabyWalk: Going Farther in Vision-and-Language Navigation by Taking Baby Steps*

Wang Zhu, Hexiang Hu, Jiacheng Chen, Zhiwei Deng, Vihan Jain, Eugene Ie and Fei Sha

*[Long] Cross-media Structured Common Space for Multimedia Event Extraction*

Manling Li, Alireza Zareian, Qi Zeng, Spencer Whitehead, Di Lu, Heng Ji and Shih-Fu Chang

*[Long] Learning to Segment Actions from Observation and Narration*

Daniel Fried, Jean-Baptiste Alayrac, Phil Blunsom, Chris Dyer, Stephen Clark and Aida Nematzadeh

*[Long] Learning to execute instructions in a Minecraft dialogue*

Prashant Jayannavar, Anjali Narayan-Chen and Julia Hockenmaier

*[Long] MART: Memory-Augmented Recurrent Transformer for Coherent Video Paragraph Captioning*

Jie Lei, Liwei Wang, Yelong Shen, Dong Yu, Tamara Berg and Mohit Bansal

*[Short] What is Learned in Visually Grounded Neural Syntax Acquisition*

Noriyuki Kojima, Hadar Averbuch-Elor, Alexander Rush and Yoav Artzi

**18:00–19:00 Session 4B Machine Learning for NLP-2**

*[Long] A Batch Normalized Inference Network Keeps the KL Vanishing Away*

Qile Zhu, Wei Bi, Xiaojiang Liu, Xiyao Ma, Xiaolin Li and Dapeng Wu

*[Short] Contextual Embeddings: When Are They Worth It?*

Simran Arora, Avner May, Jian Zhang and Christopher Ré

*[TACL] Efficient Contextual Representation Learning With Continuous Outputs*

Liunian Harold Li, Patrick H. Chen, Cho-Jui Hsieh, Kai-Wei Chang

*[Long] Interactive Classification by Asking Informative Questions*

Lili Yu, Howard Chen, Sida I. Wang, Tao Lei and Yoav Artzi

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

*[Long] Knowledge Graph Embedding Compression*

Mrinmaya Sachan

*[Short] Low Resource Sequence Tagging using Sentence Reconstruction*

Tal Perl, Sriram Chaudhury and Raja Giryes

*[Long] Masked Language Model Scoring*

Julian Salazar, Davis Liang, Toan Q. Nguyen and Katrin Kirchhoff

*[Long] Orthogonal Relation Transforms with Graph Context Modeling for Knowledge Graph Embedding*

Yun Tang, Jing Huang, Guangtao Wang, Xiaodong He and Bowen Zhou

*[TACL] Perturbation Based Learning for Structured NLP tasks with Application to Dependency Parsing*

Amichay Doitch, Ram Yazdi, Tamir Hazan, Roi Reichart

*[Short] Posterior Calibrated Training on Sentence Classification Tasks*

Taehee Jung, Dongyeop Kang, Hua Cheng, Lucas Mentch and Thomas Schaaf

*[Long] Posterior Control of Blackbox Generation*

Xiang Lisa Li and Alexander Rush

*[Short] Pretrained Transformers Improve Out-of-Distribution Robustness*

Dan Hendrycks, Xiaoyuan Liu, Eric Wallace, Adam Dziedziec, Rishabh Krishnan and Dawn Song

*[Long] Robust Encodings: A Framework for Combating Adversarial Typos*

Erik Jones, Robin Jia, Aditi Raghunathan and Percy Liang

*[Short] Showing Your Work Doesn't Always Work*

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

*[Long] Span Selection Pre-training for Question Answering*

Michael Glass, Alfio Gliozzo, Rishav Chakravarti, Anthony Ferritto, Lin Pan, G P Shrivatsa Bhargav, Dinesh Garg and Avi Sil

*[Short] Topological Sort for Sentence Ordering*

Shrimai Prabhumoye, Ruslan Salakhutdinov and Alan W Black

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

*[Long] Weight Poisoning Attacks on Pretrained Models*

Keita Kurita, Paul Michel and Graham Neubig

*[Long] schuBERT: Optimizing Elements of BERT*

Ashish Khetan and Zohar Karnin

**18:00–19:00 Session 4B Machine Translation-5**

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

Ivan Provilkov, Dmitrii Emelianenko and Elena Voita

*[Short] ENGINE: Energy-Based Inference Networks for Non-Autoregressive Machine Translation*

Lifu Tu, Richard Yuanzhe Pang, Sam Wiseman and Kevin Gimpel

*[Short] Leveraging Monolingual Data with Self-Supervision for Multilingual Neural Machine Translation*

Aditya Siddhant, Ankur Bapna, Yuan Cao, Orhan Firat, Mia Chen, Sneha Kudugunta, Naveen Arivazhagan and Yonghui Wu

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

Haoming Jiang, Chen Liang, Chong Wang and Tuo Zhao

*[Long] On The Evaluation of Machine Translation Systems Trained With Back-Translation*

Sergey Edunov, Myle Ott, Marc’Aurelio Ranzato and Michael Auli

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

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

*[Short] Simultaneous Translation Policies: From Fixed to Adaptive*

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

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

**18:00–19:00    Session 4B Semantics: Lexical-2**

*[Long] Breaking Through the 80% Glass Ceiling: Raising the State of the Art in Word Sense Disambiguation by Incorporating Knowledge Graph Information*

Michele Bevilacqua and Roberto Navigli

*[Short] Glyph2Vec: Learning Chinese Out-of-Vocabulary Word Embedding from Glyphs*

Hong-You Chen, SZ-HAN YU and Shou-de Lin

*[TACL] Learning Lexical Subspaces in a Distributional Vector Space*

Kushal Arora, Aishik Chakraborty, Jackie Chi Kit Cheung

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

Terra Blevins and Luke Zettlemoyer

*[Long] Multidirectional Associative Optimization of Function-Specific Word Representations*

Daniela Gerz, Ivan Vulić, Marek Rei, Roi Reichart and Anna Korhonen

*[Short] Predicting Degrees of Technicality in Automatic Terminology Extraction*

Anna Hättö, Dominik Schlechtweg, Michael Dorna and Sabine Schulte im Walde

*[Short] Verbal Multiword Expressions for Identification of Metaphor*

Omid Rohanian, Marek Rei, Shiva Taslimipour and Le An Ha

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

**18:00–19:00 Session 4B Summarization-3**

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

Sajad Sotudeh Gharebagh, Nazli Goharian and Ross Filice

*[Long] On Faithfulness and Factuality in Abstractive Summarization*

Joshua Maynez, Shashi Narayan, Bernd Bohnet and Ryan McDonald

*[Long] Screenplay Summarization Using Latent Narrative Structure*

Pinelopi Papalampidi, Frank Keller, Lea Frermann and Mirella Lapata

*[Long] Unsupervised Opinion Summarization with Noising and Denoising*

Reinald Kim Amplayo and Mirella Lapata

**18:00–19:00 Session 4B Student Research Workshop**

*[SRW] A Geometry-Inspired Attack for Generating Natural Language Adversarial Examples*

Zhao Meng and Roger Wattenhofer

*[SRW] Effectively Aligning and Filtering Parallel Corpora under Sparse Data Conditions*

Steinþór Steingrímsson, Hrafn Loftsson and Andy Way

*[SRW] Understanding Points of Correspondence between Sentences for Abstractive Summarization*

Logan Lebanoff, John Muchovej, Franck Dernoncourt, Doo Soon Kim, Lidan Wang, Walter Chang and Fei Liu

*[SRW] Noise-Based Augmentation Techniques for Emotion Datasets: What do we Recommend?*

Mimansa Jaiswal and Emily Mower Provost

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

**18:30–19:15 Demo Session 4C**

*[Demo] Xiaomingbot: A Multilingual Robot News Reporter*

Runxin Xu, Jun Cao, Mingxuan Wang, Jiaze Chen, Hao Zhou, Ying Zeng, Yuping Wang, Li Chen, Xiang Yin, Xijin Zhang, Songcheng Jiang, Yuxuan Wang and Lei Li

*[Demo] jiant: A Software Toolkit for Research on General-Purpose Text Understanding Models*

Yada Pruksachatkun, Phil Yeres, Haokun Liu, Jason Phang, Phu Mon Htut, Alex Wang, Ian Tenney and Samuel R. Bowman

*[Demo] The Microsoft Toolkit of Multi-Task Deep Neural Networks for Natural Language Understanding*

Xiaodong Liu, Yu Wang, Jianshu Ji, Hao Cheng, Xueyun Zhu, Emmanuel Awa, Pengcheng He, Weizhu Chen, Hoifung Poon, Guihong Cao and Jianfeng Gao

**20:00–20:45 Demo Session 5A**

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

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

*[Demo] Trialstreamer: Mapping and Browsing Medical Evidence in Real-Time*

Benjamin Nye, Ani Nenkova, Iain Marshall and Byron C. Wallace

*[Demo] pyBART: Evidence-based Syntactic Transformations for IE*

Aryeh Tiktinsky, Yoav Goldberg and Reut Tsarfaty

**20:00–21:00 Session 5A Dialogue and Interactive Systems-9**

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

Houyu Zhang, Zhenghao Liu, Chenyan Xiong and Zhiyuan Liu

*[Short] Learning an Unreferenced Metric for Online Dialogue Evaluation*

Koustuv Sinha, Prasanna Parthasarathi, Jasmine Wang, Ryan Lowe, William L. Hamilton and Joelle Pineau

*[Long] Negative Training for Neural Dialogue Response Generation*

Tianxing He and James Glass

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

Rashmi Gangadharaiah and Balakrishnan Narayanaswamy

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

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

Ahmed Elgohary, saghar Hosseini and Ahmed Hassan Awadallah

**20:00–21:00 Session 5A Generation-8**

*[Long] Automatic Detection of Generated Text is Easiest when Humans are Fooled*  
Daphne Ippolito, Daniel Duckworth, Chris Callison-Burch and Douglas Eck

*[Long] Automatic Poetry Generation from Prosaic Text*  
Tim Van de Cruys

*[Long] Bridging the Structural Gap Between Encoding and Decoding for Data-To-Text Generation*  
Chao Zhao, Marilyn Walker and Snigdha Chaturvedi

*[Long] Cross-modal Language Generation using Pivot Stabilization for Web-scale Language Coverage*  
Ashish V. Thapliyal and Radu Soricut

*[Short] Enabling Language Models to Fill in the Blanks*  
Chris Donahue, Mina Lee and Percy Liang

*[Short] Few-Shot NLG with Pre-Trained Language Model*  
Zhiyu Chen, Harini Eavani, Wenhua Chen, Yinyin Liu and William Yang Wang

*[Long] INSET: Sentence Infilling with INter-SENTential Transformer*  
Yichen Huang, Yizhe Zhang, Oussama Elachqar and Yu Cheng

*[Long] Improved Natural Language Generation via Loss Truncation*  
Daniel Kang and Tatsunori Hashimoto

*[Long] Improving Adversarial Text Generation by Modeling the Distant Future*  
Ruiyi Zhang, Changyou Chen, Zhe Gan, Wenlin Wang, Dinghan Shen, Guoyin Wang, Zheng Wen and Lawrence Carin

*[Long] Learning to Update Natural Language Comments Based on Code Changes*  
Sheena Panthaplackel, Pengyu Nie, Milos Gligoric, Junyi Jessy Li and Raymond Mooney

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

*[Long] Politeness Transfer: A Tag and Generate Approach*

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

*[Short] Reverse Engineering Configurations of Neural Text Generation Models*

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

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

Nabil Hossain, Marjan Ghazvininejad and Luke Zettlemoyer

**20:00–21:00 Session 5A Information Retrieval and Text Mining-5**

*[Long] Contextualized Weak Supervision for Text Classification*

Dheeraj Mekala and Jingbo Shang

**20:00–21:00 Session 5A Machine Learning for NLP-3**

*[Long] Calibrating Structured Output Predictors for Natural Language Processing*

Abhyuday Jagannatha and hong yu

*[Long] Active Imitation Learning with Noisy Guidance*

Kianté Brantley, Hal Daumé III and Amr Sharaf

*[Short] ExpBERT: Representation Engineering with Natural Language Explanations*

Shikhar Murty, Pang Wei Koh and Percy Liang

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

Danilo Croce, Giuseppe Castellucci and Roberto Basili

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

Zhengbao Jiang, Wei Xu, Jun Araki and Graham Neubig

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

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



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

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

Jiaao Chen, Zichao Yang and Diyi Yang

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

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

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

Robert L Logan IV, Matt Gardner and Sameer Singh

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

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

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

David Demeter, Gregory Kimmel and Doug Downey

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

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

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

Sinong Wang, Madian Khabsa and Hao Ma

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

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

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

Subhabrata Mukherjee and Ahmed Hassan Awadallah

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

**20:00–21:00 Session 5A Machine Translation-6**

*[Short] ENGINE: Energy-Based Inference Networks for Non-Autoregressive Machine Translation*

Lifu Tu, Richard Yuanzhe Pang, Sam Wiseman and Kevin Gimpel

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

Jiawei Zhou and Phillip Keung

*[Short] Leveraging Monolingual Data with Self-Supervision for Multilingual Neural Machine Translation*

Aditya Siddhant, Ankur Bapna, Yuan Cao, Orhan Firat, Mia Chen, Sneha Kudugunta, Naveen Arivazhagan and Yonghui Wu

*[Long] Location Attention for Extrapolation to Longer Sequences*

Yann Dubois, Gautier Dagan, Dieuwke Hupkes and Elia Bruni

*[Long] On The Evaluation of Machine Translation Systems Trained With Back-Translation*

Sergey Edunov, Myle Ott, Marc’Aurelio Ranzato and Michael Auli

*[Short] Opportunistic Decoding with Timely Correction for Simultaneous Translation*

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

*[Short] Simultaneous Translation Policies: From Fixed to Adaptive*

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

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

**20:00–21:00 Session 5A Semantics: Textual Inference and Other Areas of Semantics-2**

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

Samuel Broscheit, Kiril Gashteovski, Yanjie Wang and Rainer Gemulla

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

Venkata Subrahmanyam Govindarajan, Benjamin Van Durme, Aaron Steven White

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

Vivek Gupta, Maitrey Mehta, Pegah Nokhiz and Vivek Srikumar

*[TACL] Inherent Disagreements in Human Textual Inferences*

Ellie Pavlick, Tom Kwiatkowski

*[Long] Interactive Machine Comprehension with Information Seeking Agents*

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

*[Short] Syntactic Data Augmentation Increases Robustness to Inference Heuristics*

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

**20:00–21:00 Session 5A Speech and Multimodality-2**

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

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

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

Yu-An Chung and James Glass

*[Long] Integrating Multimodal Information in Large Pretrained Transformers*

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

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

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

*[Short] Multimodal and Multiresolution Speech Recognition with Transformers*

Georgios Paraskevopoulos, Srinivas Parthasarathy, Aparna Khare and Shiva Sundaram

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

*[Long] Phone Features Improve Speech Translation*

Elizabeth Salesky and Alan W Black

**20:00–21:00 Session 5A Theory and Formalism in NLP (Linguistic and Mathematical)-3**

*[Long] A Formal Hierarchy of RNN Architectures*

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

*[Long] Emergence of Syntax Needs Minimal Supervision*

Raphaël Bailly and Kata Gábor

**20:45–21:30 Demo Session 5B**

*[Demo] Multilingual Universal Sentence Encoder for Semantic Retrieval*

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

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

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

**21:00–22:00 Session 5B Cognitive Modeling and Psycholinguistics-5**

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

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

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

Trevor Cohen and Serguei Pakhomov

*[Short] Learning to Understand Child-directed and Adult-directed Speech*

Lieke Gelderloos, Grzegorz Chrupała and Afra Alishahi

*[Short] Overestimation of Syntactic Representation in Neural Language Models*

Jordan Kodner and Nitish Gupta

*[Long] Probing Linguistic Systematicity*

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

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

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

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

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

Forrest Davis and Marten van Schijndel

*[Long] Speakers enhance contextually confusable words*

Eric Meinhardt, Eric Bakovic and Leon Bergen

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

David Wilmot and Frank Keller

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

Richard Futrell, William Dyer and Greg Scontras

**21:00–22:00 Session 5B Dialogue and Interactive Systems-10**

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

Yulan Feng, Shikib Mehri, Maxine Eskenazi and Tiancheng Zhao

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

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

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

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

*[Long] Grounding Conversations with Improvised Dialogues*

Hyundong Cho and Jonathan May

*[Long] Image-Chat: Engaging Grounded Conversations*

Kurt Shuster, Samuel Humeau, Antoine Bordes and Jason Weston

*[Long] Large Scale Multi-Actor Generative Dialog Modeling*

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

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

*[Long] Neural Generation of Dialogue Response Timings*

Matthew Roddy and Naomi Harte

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

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

*[Long] The Dialogue Dodecathlon: Open-Domain Knowledge and Image Grounded Conversational Agents*

Kurt Shuster, Da JU, Stephen Roller, Emily Dinan, Y-Lan Boureau and Jason Weston

**21:00–22:00 Session 5B Language Grounding to Vision, Robotics and Beyond-2**

*[Long] BabyWalk: Going Farther in Vision-and-Language Navigation by Taking Baby Steps*

Wang Zhu, Hexiang Hu, Jiacheng Chen, Zhiwei Deng, Vihan Jain, Eugene Ie and Fei Sha

*[Long] Cross-media Structured Common Space for Multimedia Event Extraction*

Manling Li, Alireza Zareian, Qi Zeng, Spencer Whitehead, Di Lu, Heng Ji and Shih-Fu Chang

*[Long] Learning to Segment Actions from Observation and Narration*

Daniel Fried, Jean-Baptiste Alayrac, Phil Blunsom, Chris Dyer, Stephen Clark and Aida Nematzadeh

*[Long] Learning to execute instructions in a Minecraft dialogue*

Prashant Jayannavar, Anjali Narayan-Chen and Julia Hockenmaier

*[Long] MART: Memory-Augmented Recurrent Transformer for Coherent Video Paragraph Captioning*

Jie Lei, Liwei Wang, Yelong Shen, Dong Yu, Tamara Berg and Mohit Bansal

*[Short] What is Learned in Visually Grounded Neural Syntax Acquisition*

Noriyuki Kojima, Hadar Averbuch-Elor, Alexander Rush and Yoav Artzi

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

**21:00–22:00 Session 5B Machine Learning for NLP-4**

*[Long] A Batch Normalized Inference Network Keeps the KL Vanishing Away*

Qile Zhu, Wei Bi, Xiaojiang Liu, Xiyao Ma, Xiaolin Li and Dapeng Wu

*[Short] Contextual Embeddings: When Are They Worth It?*

Simran Arora, Avner May, Jian Zhang and Christopher Ré

*[TACL] Efficient Contextual Representation Learning With Continuous Outputs*

Liunian Harold Li, Patrick H. Chen, Cho-Jui Hsieh, Kai-Wei Chang

*[Long] Interactive Classification by Asking Informative Questions*

Lili Yu, Howard Chen, Sida I. Wang, Tao Lei and Yoav Artzi

*[Long] Knowledge Graph Embedding Compression*

Mrinmaya Sachan

*[Short] Low Resource Sequence Tagging using Sentence Reconstruction*

Tal Perl, Sriram Chaudhury and Raja Giryes

*[Long] Masked Language Model Scoring*

Julian Salazar, Davis Liang, Toan Q. Nguyen and Katrin Kirchhoff

*[Long] Orthogonal Relation Transforms with Graph Context Modeling for Knowledge Graph Embedding*

Yun Tang, Jing Huang, Guangtao Wang, Xiaodong He and Bowen Zhou

*[TACL] Perturbation Based Learning for Structured NLP tasks with Application to Dependency Parsing*

Amichay Doitch, Ram Yazdi, Tamir Hazan, Roi Reichart

*[Short] Posterior Calibrated Training on Sentence Classification Tasks*

Taehee Jung, Dongyeop Kang, Hua Cheng, Lucas Mentch and Thomas Schaaf

*[Long] Posterior Control of Blackbox Generation*

Xiang Lisa Li and Alexander Rush

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

*[Short] Pretrained Transformers Improve Out-of-Distribution Robustness*

Dan Hendrycks, Xiaoyuan Liu, Eric Wallace, Adam Dziedziec, Rishabh Krishnan and Dawn Song

*[Long] Robust Encodings: A Framework for Combating Adversarial Typos*

Erik Jones, Robin Jia, Aditi Raghunathan and Percy Liang

*[Short] Showing Your Work Doesn't Always Work*

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

*[Long] Span Selection Pre-training for Question Answering*

Michael Glass, Alfio Gliozzo, Rishav Chakravarti, Anthony Ferritto, Lin Pan, G P Shrivatsa Bhargav, Dinesh Garg and Avi Sil

*[Short] Topological Sort for Sentence Ordering*

Shrimai Prabhumoye, Ruslan Salakhutdinov and Alan W Black

*[Long] Weight Poisoning Attacks on Pretrained Models*

Keita Kurita, Paul Michel and Graham Neubig

*[Long] schuBERT: Optimizing Elements of BERT*

Ashish Khetan and Zohar Karnin

**21:00–22:00 Session 5B NLP Applications-4**

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

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

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

Asad Mahmood, Zubair Shafiq and Padmini Srinivasan

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

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

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

Kervy Rivas Rojas, Gina Bustamante, Arturo Oncevay and Marco Antonio Sobre-villa Cabezudo



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

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

Hannah Craighead, Andrew Caines, Paula Buttery and Helen Yannakoudakis

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

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

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

Ruiqi Zhong, Mitchell Stern and Dan Klein

**21:00–22:00 Session 5B Semantics: Lexical-3**

*[Long] Breaking Through the 80% Glass Ceiling: Raising the State of the Art in Word Sense Disambiguation by Incorporating Knowledge Graph Information*

Michele Bevilacqua and Roberto Navigli

*[Short] Glyph2Vec: Learning Chinese Out-of-Vocabulary Word Embedding from Glyphs*

Hong-You Chen, SZ-HAN YU and Shou-de Lin

*[TACL] Learning Lexical Subspaces in a Distributional Vector Space*

Kushal Arora, Aishik Chakraborty, Jackie Chi Kit Cheung

*[Long] Multidirectional Associative Optimization of Function-Specific Word Representations*

Daniela Gerz, Ivan Vulić, Marek Rei, Roi Reichart and Anna Korhonen

*[Short] Predicting Degrees of Technicality in Automatic Terminology Extraction*

Anna Hättö, Dominik Schlechtweg, Michael Dorna and Sabine Schulte im Walde

*[Short] Verbal Multiword Expressions for Identification of Metaphor*

Omid Rohanian, Marek Rei, Shiva Taslimipour and Le An Ha

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

**21:30–22:15 Demo Session 5C**

*[Demo] jiant: A Software Toolkit for Research on General-Purpose Text Understanding Models*

Yada Pruksachatkun, Phil Yeres, Haokun Liu, Jason Phang, Phu Mon Htut, Alex Wang, Ian Tenney and Samuel R. Bowman

*[Demo] The Microsoft Toolkit of Multi-Task Deep Neural Networks for Natural Language Understanding*

Xiaodong Liu, Yu Wang, Jianshu Ji, Hao Cheng, Xueyun Zhu, Emmanuel Awa, Pengcheng He, Weizhu Chen, Hoifung Poon, Guihong Cao and Jianfeng Gao

*[Demo] Stanza: A Python Natural Language Processing Toolkit for Many Human Languages*

Peng Qi, Yuhao Zhang, Yuhui Zhang, Jason Bolton and Christopher D. Manning

**Tuesday, July 7, 2020 UTC+0**

**05:00–05:45 Demo Session 1A**

*[Demo] LinggleWrite: a Coaching System for Essay Writing*

Chung-Ting Tsai, Jhih-Jie Chen, Ching-Yu Yang and Jason S. Chang

**05:00–06:00 Session 6A Ethics and NLP-1**

*[Long] Gender Bias in Multilingual Embeddings and Cross-Lingual Transfer*

Jieyu Zhao, Subhabrata Mukherjee, saghar Hosseini, Kai-Wei Chang and Ahmed Hassan Awadallah

*[Short] Give Me Convenience and Give Her Death: Who Should Decide What Uses of NLP are Appropriate, and on What Basis?*

kobi leins, Jey Han Lau and Timothy Baldwin

*[Short] Is Your Classifier Actually Biased? Measuring Fairness under Uncertainty with Bernstein Bounds*

Kawin Ethayarajh

*[Long] It's Morphin' Time! Combating Linguistic Discrimination with Inflectional Perturbations*

Samson Tan, Shafiq Joty, Min-Yen Kan and Richard Socher

*[Short] Mitigating Gender Bias Amplification in Distribution by Posterior Regularization*

Shengyu Jia, Tao Meng, Jieyu Zhao and Kai-Wei Chang

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Towards Understanding Gender Bias in Relation Extraction*

Andrew Gaut, Tony Sun, Shirlyn Tang, Yuxin Huang, Jing Qian, Mai ElSherief, Jieyu Zhao, Diba Mirza, Elizabeth Belding, Kai-Wei Chang and William Yang Wang

**05:00–06:00 Session 6A Machine Learning for NLP-5**

*[Short] A Probabilistic Generative Model for Typographical Analysis of Early Modern Printing*

Kartik Goyal, Chris Dyer, Christopher Warren, Maxwell G'Sell and Taylor Berg-Kirkpatrick

*[Long] Attentive Pooling with Learnable Norms for Text Representation*

Chuhan Wu, Fangzhao Wu, Tao Qi, Xiaohui Cui and Yongfeng Huang

*[Long] Estimating the influence of auxiliary tasks for multi-task learning of sequence tagging tasks*

Fynn Schröder and Chris Biemann

*[Long] How Does Selective Mechanism Improve Self-Attention Networks?*

Xinwei Geng, Longyue Wang, Xing Wang, Bing Qin, Ting Liu and Zhaopeng Tu

*[Long] Improving Transformer Models by Reordering their Sublayers*

Ofir Press, Noah A. Smith and Omer Levy

*[Short] Single Model Ensemble using Pseudo-Tags and Distinct Vectors*

Ryosuke Kuwabara, Jun Suzuki and Hideki Nakayama

*[Long] Zero-shot Text Classification via Reinforced Self-training*

Zhiquan Ye, Yuxia Geng, Jiaoyan Chen, Jingmin Chen, Xiaoxiao Xu, SuHang Zheng, Feng Wang, Jun Zhang and Huajun Chen

Tuesday, July 7, 2020 UTC+0 (continued)

**05:00–06:00 Session 6A Machine Translation-7**

*[Long] A Novel Graph-based Multi-modal Fusion Encoder for Neural Machine Translation*

Yongjing Yin, Fandong Meng, Jinsong Su, Chulun Zhou, Zhengyuan Yang, Jie Zhou and Jiebo Luo

*[Short] A Relaxed Matching Procedure for Unsupervised BLI*

Xu Zhao, Zihao Wang, Yong Zhang and Hao Wu

*[Long] Dynamic Programming Encoding for Subword Segmentation in Neural Machine Translation*

Xuanli He, Gholamreza Haffari and Mohammad Norouzi

*[Short] Geometry-aware domain adaptation for unsupervised alignment of word embeddings*

Pratik Jawanpuria, Mayank Meghwanshi and Bamdev Mishra

*[Long] Learning to Recover from Multi-Modality Errors for Non-Autoregressive Neural Machine Translation*

Qiu Ran, Yankai Lin, Peng Li and Jie Zhou

*[Long] On the Inference Calibration of Neural Machine Translation*

Shuo Wang, Zhaopeng Tu, Shuming Shi and Yang Liu

*[CL] Unsupervised Word Translation with Adversarial Autoencoder*

Tasnim Mohiuddin, Shafiq Joty

Tuesday, July 7, 2020 UTC+0 (continued)

**05:00–06:00 Session 6A NLP Applications-5**

*[Short] Camouflaged Chinese Spam Content Detection with Semi-supervised Generative Active Learning*

Zhuoren Jiang, Zhe Gao, Yu Duan, Yangyang Kang, Changlong Sun, Qiong Zhang and Xiaozhong Liu

*[Long] Distinguish Confusing Law Articles for Legal Judgment Prediction*

Nuo Xu, Pinghui Wang, Long Chen, Li Pan, Xiaoyan Wang and Junzhou Zhao

*[Long] Hiring Now: A Skill-Aware Multi-Attention Model for Job Posting Generation*

Liting Liu, Jie Liu, Wenzheng Zhang, Ziming Chi, Wenxuan Shi and Yalou Huang

*[Long] HyperCore: Hyperbolic and Co-graph Representation for Automatic ICD Coding*

Pengfei Cao, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong

*[Long] Hyperbolic Capsule Networks for Multi-Label Classification*

Boli Chen, Xin Huang, Lin Xiao and Liping Jing

*[Long] Improving Segmentation for Technical Support Problems*

Kushal Chauhan and Abhirut Gupta

*[Short] MOOCCube: A Large-scale Data Repository for NLP Applications in MOOCs*

Jifan Yu, Gan Luo, Tong Xiao, Qingyang Zhong, Yuquan Wang, wenzheng feng, Junyi Luo, Chenyu Wang, Lei Hou, Juanzi Li, Zhiyuan Liu and Jie Tang

*[Long] Towards Interpretable Clinical Diagnosis with Bayesian Network Ensembles Stacked on Entity-Aware CNNs*

Jun Chen, Xiaoya Dai, Quan Yuan, Chao Lu and Haifeng Huang

Tuesday, July 7, 2020 UTC+0 (continued)

**05:00–06:00 Session 6A Sentiment Analysis, Stylistic Analysis, and Argument Mining-1**

*[Short] Analyzing the Persuasive Effect of Style in News Editorial Argumentation*

Roxanne El Baff, Henning Wachsmuth, Khalid Al Khatib and Benno Stein

*[Long] ECPE-2D: Emotion-Cause Pair Extraction based on Joint Two-Dimensional Representation, Interaction and Prediction*

Zixiang Ding, Rui Xia and Jianfei Yu

*[Long] Effective Inter-Clause Modeling for End-to-End Emotion-Cause Pair Extraction*

Penghui Wei, Jiahao Zhao and Wenji Mao

*[Short] Embarrassingly Simple Unsupervised Aspect Extraction*

Stéphan Tulkens and Andreas van Cranenburgh

*[Long] Enhancing Cross-target Stance Detection with Transferable Semantic-Emotion Knowledge*

Bowen Zhang, Min Yang, Xutao Li, Yunming Ye, Xiaofei Xu and Kuai Dai

*[Long] KinGDOM: Knowledge-Guided DOMAIN Adaptation for Sentiment Analysis*

Deepanway Ghosal, Devamanyu Hazarika, Abhinaba Roy, Navonil Majumder, Rada Mihalcea and Soujanya Poria

*[Long] Modelling Context and Syntactical Features for Aspect-based Sentiment Analysis*

Minh Hieu Phan and Philip O. Ogunbona

*[Short] Parallel Data Augmentation for Formality Style Transfer*

Yi Zhang, Tao Ge and Xu SUN

*[Long] Relational Graph Attention Network for Aspect-based Sentiment Analysis*

Kai Wang, Weizhou Shen, Yunyi Yang, Xiaojun Quan and Rui Wang

*[Long] SpanMlt: A Span-based Multi-Task Learning Framework for Pair-wise Aspect and Opinion Terms Extraction*

He Zhao, Longtao Huang, Rong Zhang, Quan Lu and hui xue

*[Long] Syntax-Aware Opinion Role Labeling with Dependency Graph Convolutional Networks*

Bo Zhang, Yue Zhang, Rui Wang, Zhenghua Li and Min Zhang

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[TACL] Target-Guided Structured Attention Network for Target-dependent Sentiment Analysis*

Ji Zhang, Chengyao Chen, Pengfei Liu, Chao He, Cane Wing-Ki Leung

*[Short] Towards Better Non-Tree Argument Mining: Proposition-Level Biaffine Parsing with Task-Specific Parameterization*

Gaku Morio, Hiroaki Ozaki, Terufumi Morishita, Yuta Koreeda and Kohsuke Yanai

**05:00–06:00 Session 6A Syntax: Tagging, Chunking and Parsing-1**

*[TACL] A Graph-based Model for Joint Chinese Word Segmentation and Dependency Parsing*

Hang Yan, Xipeng Qiu, Xuanjing Huang

*[Long] A Span-based Linearization for Constituent Trees*

Yang Wei, Yuanbin Wu and Man Lan

*[Short] An Empirical Comparison of Unsupervised Constituency Parsing Methods*

Jun Li, Yifan Cao, Jiong Cai, Yong Jiang and Kewei Tu

*[Long] Efficient Constituency Parsing by Pointing*

Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li

*[Long] Efficient Second-Order TreeCRF for Neural Dependency Parsing*

Yu Zhang, Zhenghua Li and Min Zhang

*[Short] Representations of Syntax [MASK] Useful: Effects of Constituency and Dependency Structure in Recursive LSTMs*

Michael Lepori, Tal Linzen and R. Thomas McCoy

*[Long] Structure-Level Knowledge Distillation For Multilingual Sequence Labeling*

Xinyu Wang, Yong Jiang, Nguyen Bach, Tao Wang, Fei Huang and Kewei Tu

**Tuesday, July 7, 2020 UTC+0 (continued)**

**05:00–06:00 Session 6A Student Research Workshop**

*[SRW] uBLEU: Uncertainty-Aware Automatic Evaluation Method for Open-Domain Dialogue Systems*

Tsuta Yuma, Naoki Yoshinaga and Masashi Toyoda

*[SRW] To compress or not to compress? A Finite-State approach to Noun verbal morphology*

Saliha Muradoglu, Nicholas Evans and Hanna Suominen

*[SRW] AraDIC: Arabic Document Classification Using Image-Based Character Embeddings and Class-Balanced Loss*

Mahmoud Daif, Shunsuke Kitada and Hitoshi Iyatomi

*[SRW] Self-Attention is Not Only a Weight: Analyzing BERT with Vector Norms*

Goro Kobayashi, Tatsuki Kuribayashi, Sho Yokoi and Kentaro Inui

**05:45–06:30 Demo Session 1B**

*[Demo] CLIReval: Evaluating Machine Translation as a Cross-Lingual Information Retrieval Task*

Shuo Sun, Suzanna Sia and Kevin Duh

**06:00–07:00 Session 6B Computational Social Science and Social Media-4**

*[Long] Dynamic Online Conversation Recommendation*

Xingshan Zeng, Jing Li, Lu Wang, Zhiming Mao and Kam-Fai Wong

*[Long] Improving Multimodal Named Entity Recognition via Entity Span Detection with Unified Multimodal Transformer*

Jianfei Yu, Jing Jiang, Li Yang and Rui Xia

*[Long] Stock Embeddings Acquired from News Articles and Price History, and an Application to Portfolio Optimization*

Xin Du and Kumiko Tanaka-Ishii

*[Long] What Was Written vs. Who Read It: News Media Profiling Using Text Analysis and Social Media Context*

Ramy Baly, Georgi Karadzhov, Jisun An, Haewoon Kwak, Yoan Dinkov, Ahmed Ali, James Glass and Preslav Nakov



**Tuesday, July 7, 2020 UTC+0 (continued)**

**06:00–07:00 Session 6B Interpretability and Analysis of Models for NLP-1**

*[Long] An Analysis of the Utility of Explicit Negative Examples to Improve the Syntactic Abilities of Neural Language Models*

Hiroshi Noji and Hiroya Takamura

*[TACL] Membership Inference Attacks on Sequence-to-Sequence Models: Is My Data In Your Machine Translation System?*

Sorami Hisamoto, Matt Post, Kevin Duh

*[Long] On the Robustness of Language Encoders against Grammatical Errors*

Fan Yin, Quanyu Long, Tao Meng and Kai-Wei Chang

*[Long] Roles and Utilization of Attention Heads in Transformer-based Neural Language Models*

Jae-young Jo and Sung-Hyon Myaeng

*[TACL] Tabula nearly rasa: Probing the linguistic knowledge of character-level neural language models trained on unsegmented text*

Michael Hahn, Marco Baroni

*[Long] Understanding Attention for Text Classification*

Xiaobing Sun and Wei Lu

**06:00–07:00 Session 6B Machine Learning for NLP-6**

*[Short] A Relational Memory-based Embedding Model for Triple Classification and Search Personalization*

Dai Quoc Nguyen, Tu Nguyen and Dinh Phung

*[Short] Do you have the right scissors? Tailoring Pre-trained Language Models via Monte-Carlo Methods*

Ning Miao, Yuxuan Song, Hao Zhou and Lei Li

*[Short] Enhancing Pre-trained Chinese Character Representation with Word-aligned Attention*

Yanzeng Li, Bowen Yu, Xue Mengge and Tingwen Liu

*[Long] On the Encoder-Decoder Incompatibility in Variational Text Modeling and Beyond*

Chen Wu, Prince Zizhuang Wang and William Yang Wang

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Short] SAFER: A Structure-free Approach for Certified Robustness to Adversarial Word Substitutions*

Mao Ye, Chengyue Gong and Qiang Liu

**06:00–07:00 Session 6B Machine Translation-8**

*[Long] A Graph-based Coarse-to-fine Method for Unsupervised Bilingual Lexicon Induction*

Shuo Ren, Shujie Liu, Ming Zhou and Shuai Ma

*[Long] A Reinforced Generation of Adversarial Examples for Neural Machine Translation*

wei zou, Shujian Huang, Jun Xie, Xinyu Dai and Jiajun CHEN

*[Short] A Retrieve-and-Rewrite Initialization Method for Unsupervised Machine Translation*

Shuo Ren, Yu Wu, Shujie Liu, Ming Zhou and Shuai Ma

*[Short] A Simple and Effective Unified Encoder for Document-Level Machine Translation*

Shuming Ma, Dongdong Zhang and Ming Zhou

*[Short] Does Multi-Encoder Help? A Case Study on Context-Aware Neural Machine Translation*

Bei Li, Hui Liu, Ziyang Wang, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li

*[Short] Dynamically Adjusting Transformer Batch Size by Monitoring Gradient Direction Change*

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

*[Long] Knowledge Distillation for Multilingual Unsupervised Neural Machine Translation*

Haipeng Sun, Rui Wang, Kehai Chen, Masao Utiyama, Eiichiro Sumita and Tiejun Zhao

*[Short] Lexically Constrained Neural Machine Translation with Levenshtein Transformer*

Raymond Hendy Susanto, Shamil Chollampatt and Liling Tan

*[Short] On Exposure Bias, Hallucination and Domain Shift in Neural Machine Translation*

Chaojun Wang and Rico Sennrich

Tuesday, July 7, 2020 UTC+0 (continued)

**06:00–07:00 Session 6B Resources and Evaluation-5**

*[Short] Automatic Machine Translation Evaluation using Source Language Inputs and Cross-lingual Language Model*

Kosuke Takahashi, Katsuhito Sudoh and Satoshi Nakamura

*[Long] ChartDialogs: Plotting from Natural Language Instructions*

Yutong Shao and Ndapa Nakashole

*[Long] GLUECoS: An Evaluation Benchmark for Code-Switched NLP*

Simran Khanuja, Sandipan Dandapat, Anirudh Srinivasan, Sunayana Sitaram and Monojit Choudhury

*[Long] MATINF: A Jointly Labeled Large-Scale Dataset for Classification, Question Answering and Summarization*

Canwen Xu, Jiaxin Pei, Hongtao Wu, Yiyu Liu and Chenliang Li

*[Long] MIND: A Large-scale Dataset for News Recommendation*

Fangzhao Wu, Ying Qiao, Jiun-Hung Chen, Chuhan Wu, Tao Qi, Jianxun Lian, Danyang Liu, Xing Xie, Jianfeng Gao, Winnie Wu and Ming Zhou

*[Long] That is a Known Lie: Detecting Previously Fact-Checked Claims*

Shaden Shaar, Nikolay Babulkov, Giovanni Da San Martino and Preslav Nakov

*[Long] Towards Holistic and Automatic Evaluation of Open-Domain Dialogue Generation*

Bo Pang, Erik Nijkamp, Wenjuan Han, Linqi Zhou, Yixian Liu and Kewei Tu

**Tuesday, July 7, 2020 UTC+0 (continued)**

**06:00–07:00 Session 6B Semantics: Lexical-4**

*[Long] BiRRE: Learning Bidirectional Residual Relation Embeddings for Supervised Hypernymy Detection*

Chengyu Wang and XIAOFENG HE

*[Long] Biomedical Entity Representations with Synonym Marginalization*

Mujeen Sung, Hwisang Jeon, Jinhyuk Lee and Jaewoo Kang

*[Short] Hypernymy Detection for Low-Resource Languages via Meta Learning*

Changlong Yu, Jialong Han, Haisong Zhang and Wilfred Ng

*[Long] Investigating Word-Class Distributions in Word Vector Spaces*

Ryohei Sasano and Anna Korhonen

**06:00–07:00 Session 6B Sentiment Analysis, Stylistic Analysis, and Argument Mining-2**

*[Long] Aspect Sentiment Classification with Document-level Sentiment Preference Modeling*

Xiao Chen, Changlong Sun, Jingjing Wang, Shoushan Li, Luo Si, Min Zhang and Guodong Zhou

*[Short] Don't Eclipse Your Arts Due to Small Discrepancies: Boundary Repositioning with a Pointer Network for Aspect Extraction*

Zhenkai Wei, Yu Hong, Bowei Zou, Meng Cheng and Jianmin YAO

*[Long] Relation-Aware Collaborative Learning for Unified Aspect-Based Sentiment Analysis*

Zhuang Chen and Tiejun Qian

*[Long] SentiBERT: A Transferable Transformer-Based Architecture for Compositional Sentiment Semantics*

Da Yin, Tao Meng and Kai-Wei Chang

*[Long] Transition-based Directed Graph Construction for Emotion-Cause Pair Extraction*

Chuang Fan, Chaofa Yuan, Jiachen Du, Lin Gui, Min Yang and Ruifeng Xu

Tuesday, July 7, 2020 UTC+0 (continued)

**06:00–07:00 Session 6B Speech and Multimodality-3**

*[Long] CH-SIMS: A Chinese Multimodal Sentiment Analysis Dataset with Fine-grained Annotation of Modality*

Wenmeng Yu, Hua Xu, Fanyang Meng, Yilin Zhu, Yixiao Ma, Jiele Wu, Jiyun Zou and Kaicheng Yang

*[Long] Curriculum Pre-training for End-to-End Speech Translation*

Chengyi Wang, Yu Wu, Shujie Liu, Ming Zhou and Zhenglu Yang

*[Long] How Accents Confound: Probing for Accent Information in End-to-End Speech Recognition Systems*

Archiki Prasad and Preethi Jyothi

*[Long] Improving Disfluency Detection by Self-Training a Self-Attentive Model*

Paria Jamshid Lou and Mark Johnson

*[Short] Learning Spoken Language Representations with Neural Lattice Language Modeling*

Chao-Wei Huang and Yun-Nung Chen

*[Short] Meta-Transfer Learning for Code-Switched Speech Recognition*

Genta Indra Winata, Samuel Cahyawijaya, Zhaojiang Lin, Zihan Liu, Peng Xu and Pascale Fung

*[Long] Reasoning with Multimodal Sarcastic Tweets via Modeling Cross-Modality Contrast and Semantic Association*

Nan Xu, Zhixiong Zeng and Wenji Mao

*[Long] SimulSpeech: End-to-End Simultaneous Speech to Text Translation*

Yi Ren, Jinglin Liu, Xu Tan, Chen Zhang, Tao QIN, Zhou Zhao and Tie-Yan Liu

*[Short] Towards end-2-end learning for predicting behavior codes from spoken utterances in psychotherapy conversations*

Karan Singla, Zhuohao Chen, David Atkins and Shrikanth Narayanan

**Tuesday, July 7, 2020 UTC+0 (continued)**

**06:00–07:00 Session 6B Student Research Workshop**

*[SRW] Embeddings of Label Components for Sequence Labeling: A Case Study of Fine-grained Named Entity Recognition*

Takuma Kato, Kaori Abe, Hiroki Ouchi, Shumpei Miyawaki, Jun Suzuki and Kentaro Inui

*[SRW] Building a Japanese Typo Dataset from Wikipedia's Revision History*

Yu Tanaka, Yugo Murawaki, Daisuke Kawahara and Sadao Kurohashi

*[SRW] Preventing Critical Scoring Errors in Short Answer Scoring with Confidence Estimation*

Hiroaki Funayama, Shota Sasaki, Yuichiroh Matsubayashi, Tomoya Mizumoto, Jun Suzuki, Masato Mita and Kentaro Inui

**06:30–07:15 Demo Session 1C**

*[Demo] ConvLab-2: An Open-Source Toolkit for Building, Evaluating, and Diagnosing Dialogue Systems*

Qi Zhu, Zheng Zhang, Yan Fang, Xiang Li, Ryuichi Takanobu, Jinchao Li, Baolin Peng, Jianfeng Gao, Xiaoyan Zhu and Minlie Huang

**08:00–08:45 Demo Session 2A**

*[Demo] OpusFilter: A Configurable Parallel Corpus Filtering Toolbox*

Mikko Aulamo, Sami Virpioja and Jörg Tiedemann

**08:00–09:00 Session 7A Computational Social Science and Social Media-5**

*[Long] Dynamic Online Conversation Recommendation*

Xingshan Zeng, Jing Li, Lu Wang, Zhiming Mao and Kam-Fai Wong

*[Short] Neural Temporal Opinion Modelling for Opinion Prediction on Twitter*

Lixing Zhu, Yulan He and Deyu Zhou

*[Long] Stock Embeddings Acquired from News Articles and Price History, and an Application to Portfolio Optimization*

Xin Du and Kumiko Tanaka-Ishii

*[Long] What Was Written vs. Who Read It: News Media Profiling Using Text Analysis and Social Media Context*

Ramy Baly, Georgi Karadzhov, Jisun An, Haewoon Kwak, Yoan Dinkov, Ahmed Ali, James Glass and Preslav Nakov

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] It Takes Two to Lie: One to Lie, and One to Listen*

Denis Peskov, Benny Cheng, Ahmed Elgohary, Joe Barrow, Cristian Danescu-Niculescu-Mizil and Jordan Boyd-Graber

**08:00–09:00 Session 7A Generation-9**

*[Short] Learning Implicit Text Generation via Feature Matching*

Inkit Padhi, Pierre Dognin, Ke Bai, Cícero Nogueira dos Santos, Vijil Chenthamakshan, Youssef Mroueh and Payel Das

*[Short] Two Birds, One Stone: A Simple, Unified Model for Text Generation from Structured and Unstructured Data*

Hamidreza Shahidi, Ming Li and Jimmy Lin

**08:00–09:00 Session 7A Machine Learning for NLP-7**

*[Short] Bayesian Hierarchical Words Representation Learning*

Oren Barkan, Idan Rejwan, Avi Caciularu and Noam Koenigstein

*[Long] How Does Selective Mechanism Improve Self-Attention Networks?*

Xinwei Geng, Longyue Wang, Xing Wang, Bing Qin, Ting Liu and Zhaopeng Tu

*[Long] Pre-training Is (Almost) All You Need: An Application to Commonsense Reasoning*

Alexandre Tamborrino, Nicola Pellicanò, Baptiste Pannier, Pascal Voitot and Louise Naudin

*[Long] SEEK: Segmented Embedding of Knowledge Graphs*

Wentao Xu, Shun Zheng, Liang He, Bin Shao, Jian Yin and Tie-Yan Liu

*[Long] Zero-shot Text Classification via Reinforced Self-training*

Zhiquan Ye, Yuxia Geng, Jiaoyan Chen, Jingmin Chen, Xiaoxiao Xu, SuHang Zheng, Feng Wang, Jun Zhang and Huajun Chen

**Tuesday, July 7, 2020 UTC+0 (continued)**

**08:00–09:00 Session 7A Machine Translation-9**

*[Long] A Novel Graph-based Multi-modal Fusion Encoder for Neural Machine Translation*

Yongjing Yin, Fandong Meng, Jinsong Su, Chulun Zhou, Zhengyuan Yang, Jie Zhou and Jiebo Luo

*[CL] A Systematic Study of Inner-Attention-Based Sentence Representations in Multilingual Neural Machine Translation*

Raúl Vázquez, Alessandro Raganato, Mathias Creutz, Jörg Tiedemann

*[TACL] Better Document-level Machine Translation with Bayes' Rule*

Lei Yu, Laurent Sartran, Wojciech Stokowiec, Wang Ling, Lingpeng Kong, Phil Blunsom, Chris Dyer

*[Long] Dynamic Programming Encoding for Subword Segmentation in Neural Machine Translation*

Xuanli He, Gholamreza Haffari and Mohammad Norouzi

*[Long] On the Inference Calibration of Neural Machine Translation*

Shuo Wang, Zhaopeng Tu, Shuming Shi and Yang Liu

*[Long] Selecting Backtranslated Data from Multiple Sources for Improved Neural Machine Translation*

Xabier Soto, Dimitar Shterionov, Alberto Poncelas and Andy Way

*[Short] Successfully Applying the Stabilized Lottery Ticket Hypothesis to the Transformer Architecture*

Christopher Brix, Parnia Bahar and Hermann Ney

**08:00–09:00 Session 7A Question Answering-4**

*[Long] A Self-Training Method for Machine Reading Comprehension with Soft Evidence Extraction*

Yilin Niu, Fangkai Jiao, Mantong Zhou, Ting Yao, jingfang xu and Minlie Huang

*[Long] Graph-to-Tree Learning for Solving Math Word Problems*

Jipeng Zhang, Lei Wang, Roy Ka-Wei Lee, Yi Bin, Yan Wang, Jie Shao and Ee-Peng Lim



**Tuesday, July 7, 2020 UTC+0 (continued)**

**08:00–09:00 Session 7A Resources and Evaluation-6**

*[Long] An Effectiveness Metric for Ordinal Classification: Formal Properties and Experimental Results*

Enrique Amigo, Julio Gonzalo, Stefano Mizzaro and Jorge Carrillo-de-Albornoz

*[Long] GLUECoS: An Evaluation Benchmark for Code-Switched NLP*

Simran Khanuja, Sandipan Dandapat, Anirudh Srinivasan, Sunayana Sitaram and Monojit Choudhury

**08:00–09:00 Session 7A Semantics: Lexical-5**

*[Long] Adaptive Compression of Word Embeddings*

Yeachen Kim, Kang-Min Kim and SangKeun Lee

*[Long] Analysing Lexical Semantic Change with Contextualised Word Representations*

Mario Giulianelli, Marco Del Tredici and Raquel Fernández

*[Short] Autoencoding Keyword Correlation Graph for Document Clustering*

Billy Chiu, Sunil Kumar Sahu, Derek Thomas, Neha Sengupta and Mohammady Mahdy

*[Long] Autoencoding Pixies: Amortised Variational Inference with Graph Convolutions for Functional Distributional Semantics*

Guy Emerson

*[Long] BERTRAM: Improved Word Embeddings Have Big Impact on Contextualized Model Performance*

Timo Schick and Hinrich Schütze

*[Long] BiRRE: Learning Bidirectional Residual Relation Embeddings for Supervised Hypernymy Detection*

Chengyu Wang and XIAOFENG HE

*[Long] Biomedical Entity Representations with Synonym Marginalization*

Mujeen Sung, Hwisang Jeon, Jinhyuk Lee and Jaewoo Kang

*[Long] CluBERT: A Cluster-Based Approach for Learning Sense Distributions in Multiple Languages*

Tommaso Pasini, Federico Scozzafava and Bianca Scarlini

Tuesday, July 7, 2020 UTC+0 (continued)

**08:00–09:00 Session 7A Sentiment Analysis, Stylistic Analysis, and Argument Mining-3**

*[Long] Adversarial and Domain-Aware BERT for Cross-Domain Sentiment Analysis*

Chunning Du, Haifeng Sun, Jingyu Wang, Qi Qi and Jianxin Liao

*[Short] Analyzing the Persuasive Effect of Style in News Editorial Argumentation*

Roxanne El Baff, Henning Wachsmuth, Khalid Al Khatib and Benno Stein

*[Long] Effective Inter-Clause Modeling for End-to-End Emotion-Cause Pair Extraction*

Penghui Wei, Jiahao Zhao and Wenji Mao

*[Long] Enhancing Cross-target Stance Detection with Transferable Semantic-Emotion Knowledge*

Bowen Zhang, Min Yang, Xutao Li, Yunming Ye, Xiaofei Xu and Kuai Dai

*[Long] From Arguments to Key Points: Towards Automatic Argument Summarization*

Roy Bar-Haim, Lilach Eden, Roni Friedman, Yoav Kantor, Dan Lahav and Noam Slonim

*[Long] GoEmotions: A Dataset of Fine-Grained Emotions*

Dorottya Demszky, Dana Movshovitz-Attias, Jeongwoo Ko, Alan Cowen, Gaurav Nemade and Sujith Ravi

*[Long] He said "who's gonna take care of your children when you are at ACL?": Reported Sexist Acts are Not Sexist*

Patricia Chiril, Véronique MORICEAU, Farah Benamara, Alda Mari, Gloria Origgi and Marlène Coulomb-Gully

*[Long] KinGDOM: Knowledge-Guided DOMain Adaptation for Sentiment Analysis*

Deepanway Ghosal, Devamanyu Hazarika, Abhinaba Roy, Navonil Majumder, Rada Mihalcea and Soujanya Poria

*[Long] Modelling Context and Syntactical Features for Aspect-based Sentiment Analysis*

Minh Hieu Phan and Philip O. Ogunbona

*[Short] Parallel Data Augmentation for Formality Style Transfer*

Yi Zhang, Tao Ge and Xu SUN

*[Long] SKEP: Sentiment Knowledge Enhanced Pre-training for Sentiment Analysis*

Hao Tian, Can Gao, Xinyan Xiao, Hao Liu, Bolei He, Hua Wu, Haifeng Wang and feng wu

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] SpanMlt: A Span-based Multi-Task Learning Framework for Pair-wise Aspect and Opinion Terms Extraction*

He Zhao, Longtao Huang, Rong Zhang, Quan Lu and hui xue

*[TACL] Target-Guided Structured Attention Network for Target-dependent Sentiment Analysis*

Ji Zhang, Chengyao Chen, Pengfei Liu, Chao He, Cane Wing-Ki Leung

*[Short] Towards Better Non-Tree Argument Mining: Proposition-Level Biaffine Parsing with Task-Specific Parameterization*

Gaku Morio, Hiroaki Ozaki, Terufumi Morishita, Yuta Koreeda and Kohsuke Yanai

**08:00–09:00 Session 7A Syntax: Tagging, Chunking and Parsing-2**

*[TACL] A Graph-based Model for Joint Chinese Word Segmentation and Dependency Parsing*

Hang Yan, Xipeng Qiu, Xuanjing Huang

*[CL] Abstract Syntax as Interlingua: Scaling Up the Grammatical Framework from Controlled Languages to Robust Pipelines*

Aarne Ranta, Krasimir Angelov, Normunds Gruzitis, Prasanth Kolachina

*[Short] An Empirical Comparison of Unsupervised Constituency Parsing Methods*

Jun Li, Yifan Cao, Jiong Cai, Yong Jiang and Kewei Tu

*[Long] Do Neural Language Models Show Preferences for Syntactic Formalisms?*

Artur Kulmizev, Vinit Ravishankar, Mostafa Abdou and Joakim Nivre

*[Long] Efficient Constituency Parsing by Pointing*

Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li

*[Long] Efficient Second-Order TreeCRF for Neural Dependency Parsing*

Yu Zhang, Zhenghua Li and Min Zhang

*[Short] Enriched In-Order Linearization for Faster Sequence-to-Sequence Constituent Parsing*

Daniel Fernández-González and Carlos Gómez-Rodríguez

*[Long] Exact yet Efficient Graph Parsing, Bi-directional Locality and the Constructivist Hypothesis*

Yajie Ye and Weiwei Sun

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Max-Margin Incremental CCG Parsing*

Miloš Stanojević and Mark Steedman

*[Long] Neural Reranking for Dependency Parsing: An Evaluation*

Bich-Ngoc Do and Ines Rehbein

*[Short] Representations of Syntax [MASK] Useful: Effects of Constituency and Dependency Structure in Recursive LSTMs*

Michael Lepori, Tal Linzen and R. Thomas McCoy

*[Long] Structure-Level Knowledge Distillation For Multilingual Sequence Labeling*

Xinyu Wang, Yong Jiang, Nguyen Bach, Tao Wang, Fei Huang and Kewei Tu

**08:00–09:00 Session 7A Student Research Workshop**

*[SRW] Unsupervised Paraphasia Classification in Aphasic Speech*

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

*[SRW] Reflection-based Word Attribute Transfer*

Yoichi Ishibashi, Katsuhito Sudoh, Koichiro Yoshino and Satoshi Nakamura

*[SRW] To compress or not to compress? A Finite-State approach to Noun verbal morphology*

Saliha Muradoglu, Nicholas Evans and Hanna Suominen

*[SRW] Embeddings of Label Components for Sequence Labeling: A Case Study of Fine-grained Named Entity Recognition*

Takuma Kato, Kaori Abe, Hiroki Ouchi, Shumpei Miyawaki, Jun Suzuki and Kentaro Inui

**Tuesday, July 7, 2020 UTC+0 (continued)**

**08:45–09:30 Demo Session 2B**

*[Demo] LinggleWrite: a Coaching System for Essay Writing*

Chung-Ting Tsai, Jhih-Jie Chen, Ching-Yu Yang and Jason S. Chang

**09:00–10:00 Session 7B Ethics and NLP-2**

*[Long] Demographics Should Not Be the Reason of Toxicity: Mitigating Discrimination in Text Classifications with Instance Weighting*

Guanhua Zhang, Bing Bai, Junqi Zhang, Kun Bai, Conghui Zhu and Tiejun Zhao

*[Short] Give Me Convenience and Give Her Death: Who Should Decide What Uses of NLP are Appropriate, and on What Basis?*

kobi leins, Jey Han Lau and Timothy Baldwin

*[Short] Is Your Classifier Actually Biased? Measuring Fairness under Uncertainty with Bernstein Bounds*

Kawin Ethayarajh

*[Long] Towards Understanding Gender Bias in Relation Extraction*

Andrew Gaut, Tony Sun, Shirlyn Tang, Yuxin Huang, Jing Qian, Mai ElSherief, Jieyu Zhao, Diba Mirza, Elizabeth Belding, Kai-Wei Chang and William Yang Wang

**09:00–10:00 Session 7B Interpretability and Analysis of Models for NLP-2**

*[Long] An Analysis of the Utility of Explicit Negative Examples to Improve the Syntactic Abilities of Neural Language Models*

Hiroshi Noji and Hiroya Takamura

*[Long] Analyzing analytical methods: The case of phonology in neural models of spoken language*

Grzegorz Chrupała, Bertrand Higy and Afra Alishahi

*[Short] Make Up Your Mind! Adversarial Generation of Inconsistent Natural Language Explanations*

Oana-Maria Camburu, Brendan Shillingford, Pasquale Minervini, Thomas Lukasiewicz and Phil Blunsom

*[Long] Perturbed Masking: Parameter-free Probing for Analyzing and Interpreting BERT*

Zhiyong Wu, Yun Chen, Ben Kao and Qun Liu

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Probing for Referential Information in Language Models*

Ionut-Teodor Sorodoc, Kristina Gulordava and Gemma Boleda

*[Short] Quantifying Attention Flow in Transformers*

Samira Abnar and Willem Zuidema

*[Short] Towards Faithfully Interpretable NLP Systems: How Should We Define and Evaluate Faithfulness?*

Alon Jacovi and Yoav Goldberg

*[Long] Towards Transparent and Explainable Attention Models*

Akash Kumar Mohankumar, Preksha Nema, Sharan Narasimhan, Mitesh M. Khapra, Balaji Vasan Srinivasan and Balaraman Ravindran

**09:00–10:00 Session 7B Machine Learning for NLP-8**

*[Short] A Relational Memory-based Embedding Model for Triple Classification and Search Personalization*

Dai Quoc Nguyen, Tu Nguyen and Dinh Phung

*[Short] Do you have the right scissors? Tailoring Pre-trained Language Models via Monte-Carlo Methods*

Ning Miao, Yuxuan Song, Hao Zhou and Lei Li

*[Short] Enhancing Pre-trained Chinese Character Representation with Word-aligned Attention*

Yanzeng Li, Bowen Yu, Xue Mengge and Tingwen Liu

*[Long] Estimating the influence of auxiliary tasks for multi-task learning of sequence tagging tasks*

Fynn Schröder and Chris Biemann

*[Long] Tchebycheff Procedure for Multi-task Text Classification*

Yuren Mao, Shuang Yun, Weiwei Liu and Bo Du

Tuesday, July 7, 2020 UTC+0 (continued)

**09:00–10:00 Session 7B Machine Translation-10**

*[Long] A Graph-based Coarse-to-fine Method for Unsupervised Bilingual Lexicon Induction*

Shuo Ren, Shujie Liu, Ming Zhou and Shuai Ma

*[Long] A Reinforced Generation of Adversarial Examples for Neural Machine Translation*

wei zou, Shujian Huang, Jun Xie, Xinyu Dai and Jiajun CHEN

*[Short] A Retrieve-and-Rewrite Initialization Method for Unsupervised Machine Translation*

Shuo Ren, Yu Wu, Shujie Liu, Ming Zhou and Shuai Ma

*[Short] A Simple and Effective Unified Encoder for Document-Level Machine Translation*

Shuming Ma, Dongdong Zhang and Ming Zhou

*[Short] Does Multi-Encoder Help? A Case Study on Context-Aware Neural Machine Translation*

Bei Li, Hui Liu, Ziyang Wang, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li

*[Long] Knowledge Distillation for Multilingual Unsupervised Neural Machine Translation*

Haipeng Sun, Rui Wang, Kehai Chen, Masao Utiyama, Eiichiro Sumita and Tiejun Zhao

*[Long] Learning to Recover from Multi-Modality Errors for Non-Autoregressive Neural Machine Translation*

Qiu Ran, Yankai Lin, Peng Li and Jie Zhou

*[Short] Lexically Constrained Neural Machine Translation with Levenshtein Transformer*

Raymond Hendy Susanto, Shamil Chollampatt and Liling Tan

*[Short] Modeling Word Formation in English–German Neural Machine Translation*

Marion Weller-Di Marco and Alexander Fraser

Tuesday, July 7, 2020 UTC+0 (continued)

**09:00–10:00 Session 7B NLP Applications-6**

*[Short] Camouflaged Chinese Spam Content Detection with Semi-supervised Generative Active Learning*

Zhuoren Jiang, Zhe Gao, Yu Duan, Yangyang Kang, Changlong Sun, Qiong Zhang and Xiaozhong Liu

*[Long] Distinguish Confusing Law Articles for Legal Judgment Prediction*

Nuo Xu, Pinghui Wang, Long Chen, Li Pan, Xiaoyan Wang and Junzhou Zhao

*[Long] Empowering Active Learning to Jointly Optimize System and User Demands*

Ji-Ung Lee, Christian M. Meyer and Iryna Gurevych

*[Short] Encoder-Decoder Models Can Benefit from Pre-trained Masked Language Models in Grammatical Error Correction*

Masahiro Kaneko, Masato Mita, Shun Kiyono, Jun Suzuki and Kentaro Inui

*[Long] Graph Neural News Recommendation with Unsupervised Preference Disentanglement*

Linmei Hu, Siyong Xu, Chen Li, Cheng Yang, Chuan Shi, Nan Duan, Xing Xie and Ming Zhou

*[Long] HyperCore: Hyperbolic and Co-graph Representation for Automatic ICD Coding*

Pengfei Cao, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong

*[Long] Hyperbolic Capsule Networks for Multi-Label Classification*

Boli Chen, Xin Huang, Lin Xiao and Liping Jing

*[Short] Identifying Principals and Accessories in a Complex Case based on the Comprehension of Fact Description*

Yakun Hu, Zhunchen Luo and Wenhan Chao

*[Long] Improving Segmentation for Technical Support Problems*

Kushal Chauhan and Abhirut Gupta

*[Long] Joint Modelling of Emotion and Abusive Language Detection*

Santhosh Rajamanickam, Pushkar Mishra, Helen Yannakoudakis and Ekaterina Shutova

*[Short] MOOCCube: A Large-scale Data Repository for NLP Applications in MOOCs*

Jifan Yu, Gan Luo, Tong Xiao, Qingyang Zhong, Yuquan Wang, wenzheng feng, Junyi Luo, Chenyu Wang, Lei Hou, Juanzi Li, Zhiyuan Liu and Jie Tang



**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Programming in Natural Language with fuSE: Synthesizing Methods from Spoken Utterances Using Deep Natural Language Understanding*

Sebastian Weigelt, Vanessa Steurer, Tobias Hey and Walter F. Tichy

*[Long] Towards Interpretable Clinical Diagnosis with Bayesian Network Ensembles Stacked on Entity-Aware CNNs*

Jun Chen, Xiaoya Dai, Quan Yuan, Chao Lu and Haifeng Huang

*[Long] Toxicity Detection: Does Context Really Matter?*

John Pavlopoulos, Jeffrey Sorensen, Lucas Dixon, Nithum Thain and Ion Androutsopoulos

**09:00–10:00 Session 7B Semantics: Sentence Level-3**

*[Long] AMR Parsing with Latent Structural Information*

Qiji Zhou, Yue Zhang, Donghong Ji and Hao Tang

*[Long] TaPas: Weakly Supervised Table Parsing via Pre-training*

Jonathan Herzig, Pawel Krzysztof Nowak, Thomas Müller, Francesco Piccinno and Julian Eisenschlos

**09:00–10:00 Session 7B Sentiment Analysis, Stylistic Analysis, and Argument Mining-4**

*[Short] Embarrassingly Simple Unsupervised Aspect Extraction*

Stéphan Tulkens and Andreas van Cranenburgh

*[Long] Relation-Aware Collaborative Learning for Unified Aspect-Based Sentiment Analysis*

Zhuang Chen and Tiejun Qian

*[Long] Syntax-Aware Opinion Role Labeling with Dependency Graph Convolutional Networks*

Bo Zhang, Yue Zhang, Rui Wang, Zhenghua Li and Min Zhang

*[Long] Target Inference in Argument Conclusion Generation*

Milad Alshomary, Shahbaz Syed, Martin Potthast and Henning Wachsmuth

*[Long] Transition-based Directed Graph Construction for Emotion-Cause Pair Extraction*

Chuang Fan, Chaofa Yuan, Jiachen Du, Lin Gui, Min Yang and Ruifeng Xu

**Tuesday, July 7, 2020 UTC+0 (continued)**

**09:00–10:00 Session 7B Speech and Multimodality-4**

*[Long] CH-SIMS: A Chinese Multimodal Sentiment Analysis Dataset with Fine-grained Annotation of Modality*

Wenmeng Yu, Hua Xu, Fanyang Meng, Yilin Zhu, Yixiao Ma, Jiele Wu, Jiyun Zou and Kaicheng Yang

*[Long] Curriculum Pre-training for End-to-End Speech Translation*

Chengyi Wang, Yu Wu, Shujie Liu, Ming Zhou and Zhenglu Yang

*[Long] Improving Disfluency Detection by Self-Training a Self-Attentive Model*

Paria Jamshid Lou and Mark Johnson

*[Short] Multimodal Transformer for Multimodal Machine Translation*

Shaowei Yao and Xiaojun Wan

*[Long] Reasoning with Multimodal Sarcastic Tweets via Modeling Cross-Modality Contrast and Semantic Association*

Nan Xu, Zhixiong Zeng and Wenji Mao

*[Long] Sentiment and Emotion help Sarcasm? A Multi-task Learning Framework for Multi-Modal Sarcasm, Sentiment and Emotion Analysis*

Dushyant Singh Chauhan, Dhanush S R, Asif Ektbal and Pushpak Bhattacharyya

*[Long] Towards Emotion-aided Multi-modal Dialogue Act Classification*

Tulika Saha, Aditya Patra, Sriparna Saha and Pushpak Bhattacharyya

**Tuesday, July 7, 2020 UTC+0 (continued)**

**09:00–10:00 Session 7B Student Research Workshop**

*[SRW] Building a Japanese Typo Dataset from Wikipedia’s Revision History*

Yu Tanaka, Yugo Murawaki, Daisuke Kawahara and Sadao Kurohashi

*[SRW] How much complexity does an RNN architecture need to learn syntax-sensitive dependencies?*

Gantavya Bhatt, Hritik Bansal, Rishubh Singh and Sumeet Agarwal

*[SRW] Unsupervised Multilingual Sentence Embeddings for Parallel Corpus Mining*

Ivana Kvapilíková, Mikel Artetxe, Gorka Labaka, Eneko Agirre and Ondřej Bojar

**12:00–12:45 Demo Session 3A**

*[Demo] EVIDENCEMINER: Textual Evidence Discovery for Life Sciences*

Xuan Wang, Yingjun Guan, Weili Liu, Aabhas Chauhan, Enyi Jiang, Qi Li, David Liem, Dibakar Sigdel, John Caufield, Peipei Ping and Jiawei Han

*[Demo] ConvLab-2: An Open-Source Toolkit for Building, Evaluating, and Diagnosing Dialogue Systems*

Qi Zhu, Zheng Zhang, Yan Fang, Xiang Li, Ryuichi Takanobu, Jinchao Li, Baolin Peng, Jianfeng Gao, Xiaoyan Zhu and Minlie Huang

**12:00–13:00 Session 8A Computational Social Science and Social Media-6**

*[Long] Analyzing Political Parody in Social Media*

Antonios Maronikolakis, Danae Sánchez Villegas, Daniel Preotiuc-Pietro and Nikolaos Aletras

*[Long] Improving Multimodal Named Entity Recognition via Entity Span Detection with Unified Multimodal Transformer*

Jianfei Yu, Jing Jiang, Li Yang and Rui Xia

*[Short] Masking Actor Information Leads to Fairer Political Claims Detection*

Erenay Dayanik and Sebastian Padó

*[Short] Neural Temporal Opinion Modelling for Opinion Prediction on Twitter*

Lixing Zhu, Yulan He and Deyu Zhou

*[Long] When do Word Embeddings Accurately Reflect Surveys on our Beliefs About People?*

Kenneth Joseph and Jonathan Morgan

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] “Who said it, and Why?” Provenance for Natural Language Claims*

Yi Zhang, Zachary Ives and Dan Roth

*[Long] It Takes Two to Lie: One to Lie, and One to Listen*

Denis Peskov, Benny Cheng, Ahmed Elgohary, Joe Barrow, Cristian Danescu-Niculescu-Mizil and Jordan Boyd-Graber

**12:00–13:00 Session 8A Interpretability and Analysis of Models for NLP-3**

*[Long] Analyzing analytical methods: The case of phonology in neural models of spoken language*

Grzegorz Chrupała, Bertrand Higy and Afra Alishahi

*[Long] Compositionality and Generalization In Emergent Languages*

Rahma Chaabouni, Eugene Kharitonov, Diane Bouchacourt, Emmanuel Dupoux and Marco Baroni

*[Long] ERASER: A Benchmark to Evaluate Rationalized NLP Models*

Jay DeYoung, Sarthak Jain, Nazneen Fatema Rajani, Eric Lehman, Caiming Xiong, Richard Socher and Byron C. Wallace

*[Long] Learning to Faithfully Rationalize by Construction*

Sarthak Jain, Sarah Wiegreffe, Yuval Pinter and Byron C. Wallace

*[Short] Make Up Your Mind! Adversarial Generation of Inconsistent Natural Language Explanations*

Oana-Maria Camburu, Brendan Shillingford, Pasquale Minervini, Thomas Lukasiewicz and Phil Blunsom

*[Long] On the Robustness of Language Encoders against Grammatical Errors*

Fan Yin, Quanyu Long, Tao Meng and Kai-Wei Chang

*[Long] Probing for Referential Information in Language Models*

Ionut-Teodor Sorodoc, Kristina Gulordava and Gemma Boleda

*[Long] Roles and Utilization of Attention Heads in Transformer-based Neural Language Models*

Jae-young Jo and Sung-Hyon Myaeng

*[Long] Towards Transparent and Explainable Attention Models*

Akash Kumar Mohankumar, Preksha Nema, Sharan Narasimhan, Mitesh M. Khapra, Balaji Vasanth Srinivasan and Balaraman Ravindran

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Understanding Attention for Text Classification*

Xiaobing Sun and Wei Lu

**12:00–13:00 Session 8A Machine Translation-11**

*[Short] Dynamically Adjusting Transformer Batch Size by Monitoring Gradient Direction Change*

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

*[Short] Geometry-aware domain adaptation for unsupervised alignment of word embeddings*

Pratik Jawanpuria, Mayank Meghwanshi and Bamdev Mishra

*[Short] Modeling Word Formation in English–German Neural Machine Translation*

Marion Weller-Di Marco and Alexander Fraser

*[Short] On Exposure Bias, Hallucination and Domain Shift in Neural Machine Translation*

Chaojun Wang and Rico Sennrich

*[Short] Successfully Applying the Stabilized Lottery Ticket Hypothesis to the Transformer Architecture*

Christopher Brix, Parnia Bahar and Hermann Ney

**12:00–13:00 Session 8A Question Answering-5**

*[Long] A Self-Training Method for Machine Reading Comprehension with Soft Evidence Extraction*

Yilin Niu, Fangkai Jiao, Mantong Zhou, Ting Yao, jingfang xu and Minlie Huang

*[TACL] Break It Down: A Question Understanding Benchmark*

Tomer Wolfson, Mor Geva, Ankit Gupta, Yoav Goldberg, Matt Gardner, Daniel Deutch, Jonathan Berant

*[Long] Clinical Reading Comprehension: A Thorough Analysis of the emrQA Dataset*

Xiang Yue, Bernal Jimenez Gutierrez and Huan Sun

*[Long] DeFormer: Decomposing Pre-trained Transformers for Faster Question Answering*

Qingqing Cao, Harsh Trivedi, Aruna Balasubramanian and Niranjan Balasubramanian

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Graph-to-Tree Learning for Solving Math Word Problems*

Jipeng Zhang, Lei Wang, Roy Ka-Wei Lee, Yi Bin, Yan Wang, Jie Shao and Ee-Peng Lim

*[Long] Improving Multi-hop Question Answering over Knowledge Graphs using Knowledge Base Embeddings*

Apoorv Saxena, Aditay Tripathi and Partha Talukdar

*[Short] Template-Based Question Generation from Retrieved Sentences for Improved Unsupervised Question Answering*

Alexander Fabbri, Patrick Ng, Zhiguo Wang, Ramesh Nallapati and Bing Xiang

*[Long] Unsupervised Alignment-based Iterative Evidence Retrieval for Multi-hop Question Answering*

Vikas Yadav, Steven Bethard and Mihai Surdeanu

**12:00–13:00 Session 8A Resources and Evaluation-7**

*[Long] A Corpus for Large-Scale Phonetic Typology*

Elizabeth Salesky, Eleanor Chodroff, Tiago Pimentel, Matthew Wiesner, Ryan Cotterell, Alan W Black and Jason Eisner

*[Short] Dscorer: A Fast Evaluation Metric for Discourse Representation Structure Parsing*

Jiangming Liu, Shay B. Cohen and Mirella Lapata

*[Long] MATINF: A Jointly Labeled Large-Scale Dataset for Classification, Question Answering and Summarization*

Canwen Xu, Jiaxin Pei, Hongtao Wu, Yiyu Liu and Chenliang Li

*[Long] MIND: A Large-scale Dataset for News Recommendation*

Fangzhao Wu, Ying Qiao, Jiun-Hung Chen, Chuhan Wu, Tao Qi, Jianxun Lian, Danyang Liu, Xing Xie, Jianfeng Gao, Winnie Wu and Ming Zhou

*[Long] ParaCrawl: Web-Scale Acquisition of Parallel Corpora*

Marta Bañón, Pinzhen Chen, Barry Haddow, Kenneth Heafield, Hieu Hoang, Miquel Esplà-Gomis, Mikel L. Forcada, Amir Kamran, Faheem Kirefu, Philipp Koehn, Sergio Ortiz Rojas, Leopoldo Pla Sempere, Gema Ramírez-Sánchez, Elsa Sarriás, Marek Strelec, Brian Thompson, William Waites, Dion Wiggins and Jaume Zaragoza

Tuesday, July 7, 2020 UTC+0 (continued)

**12:00–13:00 Session 8A Semantics: Lexical-6**

*[Long] Adaptive Compression of Word Embeddings*

Yeachen Kim, Kang-Min Kim and SangKeun Lee

*[Long] Analysing Lexical Semantic Change with Contextualised Word Representations*

Mario Giulianelli, Marco Del Tredici and Raquel Fernández

*[Short] Autoencoding Keyword Correlation Graph for Document Clustering*

Billy Chiu, Sunil Kumar Sahu, Derek Thomas, Neha Sengupta and Mohammady Mahdy

*[Long] Autoencoding Pixies: Amortised Variational Inference with Graph Convolutions for Functional Distributional Semantics*

Guy Emerson

*[Long] BERTRAM: Improved Word Embeddings Have Big Impact on Contextualized Model Performance*

Timo Schick and Hinrich Schütze

*[Long] CluBERT: A Cluster-Based Approach for Learning Sense Distributions in Multiple Languages*

Tommaso Pasini, Federico Scozzafava and Bianca Scarlini

*[Short] Hypernymy Detection for Low-Resource Languages via Meta Learning*

Changlong Yu, Jialong Han, Haisong Zhang and Wilfred Ng

*[Long] Investigating Word-Class Distributions in Word Vector Spaces*

Ryohei Sasano and Anna Korhonen

**Tuesday, July 7, 2020 UTC+0 (continued)**

**12:00–13:00 Session 8A Semantics: Sentence Level-4**

*[Long] AMR Parsing with Latent Structural Information*

Qiji Zhou, Yue Zhang, Donghong Ji and Hao Tang

*[Long] TaPas: Weakly Supervised Table Parsing via Pre-training*

Jonathan Herzig, Pawel Krzysztof Nowak, Thomas Müller, Francesco Piccinno and Julian Eisenschlos

**12:00–13:00 Session 8A Sentiment Analysis, Stylistic Analysis, and Argument Mining-5**

*[Long] Adversarial and Domain-Aware BERT for Cross-Domain Sentiment Analysis*

Chunning Du, Haifeng Sun, Jingyu Wang, Qi Qi and Jianxin Liao

*[Short] Don't Eclipse Your Arts Due to Small Discrepancies: Boundary Repositioning with a Pointer Network for Aspect Extraction*

Zhenkai Wei, Yu Hong, Bowei Zou, Meng Cheng and Jianmin YAO

*[Long] Relational Graph Attention Network for Aspect-based Sentiment Analysis*

Kai Wang, Weizhou Shen, Yunyi Yang, Xiaojun Quan and Rui Wang

*[Long] SentiBERT: A Transferable Transformer-Based Architecture for Compositional Sentiment Semantics*

Da Yin, Tao Meng and Kai-Wei Chang

*[Long] Target Inference in Argument Conclusion Generation*

Milad Alshomary, Shahbaz Syed, Martin Potthast and Henning Wachsmuth



Tuesday, July 7, 2020 UTC+0 (continued)

**12:00–13:00 Session 8A Syntax: Tagging, Chunking and Parsing-3**

*[Long] A Span-based Linearization for Constituent Trees*

Yang Wei, Yuanbin Wu and Man Lan

*[CL] Abstract Syntax as Interlingua: Scaling Up the Grammatical Framework from Controlled Languages to Robust Pipelines*

Aarne Ranta, Krasimir Angelov, Normunds Gruzitis, Prasanth Kolachina

*[Long] Do Neural Language Models Show Preferences for Syntactic Formalisms?*

Artur Kulmizev, Vinit Ravishankar, Mostafa Abdou and Joakim Nivre

*[Short] Enriched In-Order Linearization for Faster Sequence-to-Sequence Constituent Parsing*

Daniel Fernández-González and Carlos Gómez-Rodríguez

*[Long] Exact yet Efficient Graph Parsing, Bi-directional Locality and the Constructivist Hypothesis*

Yajie Ye and Weiwei Sun

*[Long] Max-Margin Incremental CCG Parsing*

Miloš Stanojević and Mark Steedman

*[Long] Neural Reranking for Dependency Parsing: An Evaluation*

Bich-Ngoc Do and Ines Rehbein

**Tuesday, July 7, 2020 UTC+0 (continued)**

**12:00–13:00 Session 8A Student Research Workshop**

*[SRW] How much complexity does an RNN architecture need to learn syntax-sensitive dependencies?*

Gantavya Bhatt, Hritik Bansal, Rishubh Singh and Sumeet Agarwal

*[SRW] Logical Inferences with Comparatives and Generalized Quantifiers*

Izumi Haruta, Koji Mineshima and Daisuke Bekki

*[SRW] Unsupervised Multilingual Sentence Embeddings for Parallel Corpus Mining*

Ivana Kvapilíková, Mikel Artetxe, Gorka Labaka, Eneko Agirre and Ondřej Bojar

*[SRW] Enhancing Word Embeddings with Knowledge Extracted from Lexical Resources*

Magdalena Biesialska, Bardia Rafieian and Marta R. Costa-jussà

**12:45–13:30 Demo Session 3B**

*[Demo] CLIReval: Evaluating Machine Translation as a Cross-Lingual Information Retrieval Task*

Shuo Sun, Suzanna Sia and Kevin Duh

*[Demo] Label Noise in Context*

Michael Desmond, Catherine Finegan-Dollak, Jeff Boston and Matt Arnold

**13:00–14:00 Session 8B Ethics and NLP-3**

*[Long] Demographics Should Not Be the Reason of Toxicity: Mitigating Discrimination in Text Classifications with Instance Weighting*

Guanhua Zhang, Bing Bai, Junqi Zhang, Kun Bai, Conghui Zhu and Tiejun Zhao

*[Long] It's Morphin' Time! Combating Linguistic Discrimination with Inflectional Perturbations*

Samson Tan, Shafiq Joty, Min-Yen Kan and Richard Socher

*[Long] Toward Gender-Inclusive Coreference Resolution*

Yang Trista Cao and Hal Daumé III

**Tuesday, July 7, 2020 UTC+0 (continued)**

**13:00–14:00 Session 8B Generation-10**

*[Short] Learning Implicit Text Generation via Feature Matching*

Inkit Padhi, Pierre Dognin, Ke Bai, Cícero Nogueira dos Santos, Vijil Chenthamarakshan, Youssef Mroueh and Payel Das

*[Short] Two Birds, One Stone: A Simple, Unified Model for Text Generation from Structured and Unstructured Data*

Hamidreza Shahidi, Ming Li and Jimmy Lin

**13:00–14:00 Session 8B Interpretability and Analysis of Models for NLP-4**

*[TACL] Does Syntax Need to Grow on Trees? Sources of Hierarchical Inductive Bias in Sequence-to-Sequence Networks*

R. Thomas McCoy, Robert Frank, Tal Linzen

*[Long] Human Attention Maps for Text Classification: Do Humans and Neural Networks Focus on the Same Words?*

Cansu Sen, Thomas Hartvigsen, Biao Yin, Xiangnan Kong and Elke Rundensteiner

*[Long] Information-Theoretic Probing for Linguistic Structure*

Tiago Pimentel, Josef Valvoda, Rowan Hall Maudslay, Ran Zmigrod, Adina Williams and Ryan Cotterell

*[TACL] Membership Inference Attacks on Sequence-to-Sequence Models: Is My Data In Your Machine Translation System?*

Sorami Hisamoto, Matt Post, Kevin Duh

*[Long] On the Cross-lingual Transferability of Monolingual Representations*

Mikel Artetxe, Sebastian Ruder and Dani Yogatama

*[Long] Perturbed Masking: Parameter-free Probing for Analyzing and Interpreting BERT*

Zhiyong Wu, Yun Chen, Ben Kao and Qun Liu

*[Short] Quantifying Attention Flow in Transformers*

Samira Abnar and Willem Zuidema

*[Long] Similarity Analysis of Contextual Word Representation Models*

John Wu, Yonatan Belinkov, Hassan Sajjad, Nadir Durrani, Fahim Dalvi and James Glass

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[TACL] Tabula nearly rasa: Probing the linguistic knowledge of character-level neural language models trained on unsegmented text*

Michael Hahn, Marco Baroni

*[Short] Towards Faithfully Interpretable NLP Systems: How Should We Define and Evaluate Faithfulness?*

Alon Jacovi and Yoav Goldberg

*[TACL] What BERT Is Not: Lessons from a New Suite of Psycholinguistic Diagnostics for Language Models*

Allyson Ettinger

**13:00–14:00 Session 8B Machine Learning for NLP-9**

*[Long] Attentive Pooling with Learnable Norms for Text Representation*

Chuhan Wu, Fangzhao Wu, Tao Qi, Xiaohui Cui and Yongfeng Huang

*[Short] Bayesian Hierarchical Words Representation Learning*

Oren Barkan, Idan Rejwan, Avi Caciularu and Noam Koenigstein

*[Long] On the Encoder-Decoder Incompatibility in Variational Text Modeling and Beyond*

Chen Wu, Prince Zizhuang Wang and William Yang Wang

*[Long] Pre-training Is (Almost) All You Need: An Application to Commonsense Reasoning*

Alexandre Tamborrino, Nicola Pellicanò, Baptiste Pannier, Pascal Voitot and Louise Naudin

*[Long] SEEK: Segmented Embedding of Knowledge Graphs*

Wentao Xu, Shun Zheng, Liang He, Bin Shao, Jian Yin and Tie-Yan Liu

*[Long] SenseBERT: Driving Some Sense into BERT*

Yoav Levine, Barak Lenz, Or Dagan, Ori Ram, Dan Padnos, Or Sharir, Shai Shalev-Shwartz, Amnon Shashua and Yoav Shoham

*[Short] Single Model Ensemble using Pseudo-Tags and Distinct Vectors*

Ryosuke Kuwabara, Jun Suzuki and Hideki Nakayama

*[Long] Tchebycheff Procedure for Multi-task Text Classification*

Yuren Mao, Shuang Yun, Weiwei Liu and Bo Du

Tuesday, July 7, 2020 UTC+0 (continued)

**13:00–14:00 Session 8B Machine Translation-12**

*[Short] A Relaxed Matching Procedure for Unsupervised BLI*

Xu Zhao, Zihao Wang, Yong Zhang and Hao Wu

*[CL] A Systematic Study of Inner-Attention-Based Sentence Representations in Multilingual Neural Machine Translation*

Raúl Vázquez, Alessandro Raganato, Mathias Creutz, Jörg Tiedemann

*[TACL] Better Document-level Machine Translation with Bayes' Rule*

Lei Yu, Laurent Sartran, Wojciech Stokowiec, Wang Ling, Lingpeng Kong, Phil Blunsom, Chris Dyer

*[Long] Selecting Backtranslated Data from Multiple Sources for Improved Neural Machine Translation*

Xabier Soto, Dimitar Shterionov, Alberto Poncelas and Andy Way

*[CL] Unsupervised Word Translation with Adversarial Autoencoder*

Tasnim Mohiuddin, Shafiq Joty

**13:00–14:00 Session 8B NLP Applications-7**

*[Long] Empowering Active Learning to Jointly Optimize System and User Demands*

Ji-Ung Lee, Christian M. Meyer and Iryna Gurevych

*[Short] Encoder-Decoder Models Can Benefit from Pre-trained Masked Language Models in Grammatical Error Correction*

Masahiro Kaneko, Masato Mita, Shun Kiyono, Jun Suzuki and Kentaro Inui

*[Long] Graph Neural News Recommendation with Unsupervised Preference Disentanglement*

Linmei Hu, Siyong Xu, Chen Li, Cheng Yang, Chuan Shi, Nan Duan, Xing Xie and Ming Zhou

*[Long] Hiring Now: A Skill-Aware Multi-Attention Model for Job Posting Generation*

Liting Liu, Jie Liu, Wenzheng Zhang, Ziming Chi, Wenxuan Shi and Yalou Huang

*[Short] Identifying Principals and Accessories in a Complex Case based on the Comprehension of Fact Description*

Yakun Hu, Zhunchen Luo and Wenhan Chao

*[Long] Joint Modelling of Emotion and Abusive Language Detection*

Santhosh Rajamanickam, Pushkar Mishra, Helen Yannakoudakis and Ekaterina Shutova

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Programming in Natural Language with fuSE: Synthesizing Methods from Spoken Utterances Using Deep Natural Language Understanding*

Sebastian Weigelt, Vanessa Steurer, Tobias Hey and Walter F. Tichy

*[Long] Toxicity Detection: Does Context Really Matter?*

John Pavlopoulos, Jeffrey Sorensen, Lucas Dixon, Nithum Thain and Ion Androutsopoulos

**13:00–14:00 Session 8B Resources and Evaluation-8**

*[Long] ASSET: A Dataset for Tuning and Evaluation of Sentence Simplification Models with Multiple Rewriting Transformations*

Fernando Alva-Manchego, Louis Martin, Antoine Bordes, Carolina Scarton, Benoît Sagot and Lucia Specia

*[Short] Automatic Machine Translation Evaluation using Source Language Inputs and Cross-lingual Language Model*

Kosuke Takahashi, Katsuhito Sudoh and Satoshi Nakamura

*[Short] Fatality Killed the Cat or: BabelPic, a Multimodal Dataset for Non-Concrete Concepts*

Agostina Calabrese, Michele Bevilacqua and Roberto Navigli

*[TACL] Paraphrase-Sense-Tagged Sentences*

Anne Cocos, Chris Callison-Burch

*[Long] That is a Known Lie: Detecting Previously Fact-Checked Claims*

Shaden Shaar, Nikolay Babulkov, Giovanni Da San Martino and Preslav Nakov

Tuesday, July 7, 2020 UTC+0 (continued)

**13:00–14:00 Session 8B Sentiment Analysis, Stylistic Analysis, and Argument Mining-6**

*[Long] Aspect Sentiment Classification with Document-level Sentiment Preference Modeling*

Xiao Chen, Changlong Sun, Jingjing Wang, Shoushan Li, Luo Si, Min Zhang and Guodong Zhou

*[Long] ECPE-2D: Emotion-Cause Pair Extraction based on Joint Two-Dimensional Representation, Interaction and Prediction*

Zixiang Ding, Rui Xia and Jianfei Yu

*[Long] From Arguments to Key Points: Towards Automatic Argument Summarization*

Roy Bar-Haim, Lilach Eden, Roni Friedman, Yoav Kantor, Dan Lahav and Noam Slonim

*[Long] He said "who's gonna take care of your children when you are at ACL?": Reported Sexist Acts are Not Sexist*

Patricia Chiril, Véronique MORICEAU, Farah Benamara, Alda Mari, Gloria Origgi and Marlène Coulomb-Gully

*[Short] Modeling Label Semantics for Predicting Emotional Reactions*

Radhika Gaonkar, Heeyoung Kwon, Mohaddeseh Bastan, Niranjana Balasubramanian and Nathanael Chambers

*[Long] SKEP: Sentiment Knowledge Enhanced Pre-training for Sentiment Analysis*

Hao Tian, Can Gao, Xinyan Xiao, Hao Liu, Bolei He, Hua Wu, Haifeng Wang and feng wu

**13:00–14:00 Session 8B Speech and Multimodality-5**

*[Long] How Accents Confound: Probing for Accent Information in End-to-End Speech Recognition Systems*

Archiki Prasad and Preethi Jyothi

*[Short] Learning Spoken Language Representations with Neural Lattice Language Modeling*

Chao-Wei Huang and Yun-Nung Chen

*[Short] Meta-Transfer Learning for Code-Switched Speech Recognition*

Genta Indra Winata, Samuel Cahyawijaya, Zhaojiang Lin, Zihan Liu, Peng Xu and Pascale Fung

*[Short] Multimodal Transformer for Multimodal Machine Translation*

Shaowei Yao and Xiaojun Wan

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Sentiment and Emotion help Sarcasm? A Multi-task Learning Framework for Multi-Modal Sarcasm, Sentiment and Emotion Analysis*

Dushyant Singh Chauhan, Dhanush S R, Asif Ekbal and Pushpak Bhattacharyya

*[Long] SimulSpeech: End-to-End Simultaneous Speech to Text Translation*

Yi Ren, Jinglin Liu, Xu Tan, Chen Zhang, Tao QIN, Zhou Zhao and Tie-Yan Liu

*[Long] Towards Emotion-aided Multi-modal Dialogue Act Classification*

Tulika Saha, Aditya Patra, Sriparna Saha and Pushpak Bhattacharyya

**13:00–14:00 Session 8B Student Research Workshop**

*[SRW] Pre-training via Leveraging Assisting Languages for Neural Machine Translation*

Haiyue Song, Raj Dabre, Zhuoyuan Mao, Fei Cheng, Sadao Kurohashi and Eiichiro Sumita

*[SRW] Preventing Critical Scoring Errors in Short Answer Scoring with Confidence Estimation*

Hiroaki Funayama, Shota Sasaki, Yuichiroh Matsubayashi, Tomoya Mizumoto, Jun Suzuki, Masato Mita and Kentaro Inui

**13:30–14:15 Demo Session 3C**

*[Demo] exBERT: A Visual Analysis Tool to Explore Learned Representations in Transformer Models*

Benjamin Hoover, Hendrik Strobelt and Sebastian Gehrmann

**14:00–16:00 Plenary**

14:00–14:30 *Lifetime Achievement Award Video Livestream*

14:30–14:45 *Lifetime Achievement Award Live Q&A*

14:45–15:15 *Distinguished Service Award, Test-of-Time Award Video and Q&A*

15:15–16:00 *Reviewing Meeting Q&A*



**Tuesday, July 7, 2020 UTC+0 (continued)**

**17:00–17:45 Demo Session 4A**

*[Demo] Nakdan: Professional Hebrew Diacritizer*

Avi Shmidman, Shaltiel Shmidman, Moshe Koppel and Yoav Goldberg

*[Demo] Photon: A Robust Cross-Domain Text-to-SQL System*

Jichuan Zeng, Xi Victoria Lin, Steven C.H. Hoi, Richard Socher, Caiming Xiong, Michael Lyu and Irwin King

*[Demo] OpusFilter: A Configurable Parallel Corpus Filtering Toolbox*

Mikko Aulamo, Sami Virpioja and Jörg Tiedemann

**17:00–18:00 Session 9A Dialogue and Interactive Systems-11**

*[Long] CraftAssist Instruction Parsing: Semantic Parsing for a Voxel-World Assistant*

Kavya Srinet, Yacine Jernite, Jonathan Gray and arthur szlam

*[Long] Don't Say That! Making Inconsistent Dialogue Unlikely with Unlikelihood Training*

Margaret Li, Stephen Roller, Ilya Kulikov, Sean Welleck, Y-Lan Boureau, Kyunghyun Cho and Jason Weston

**17:00–18:00 Session 9A Interpretability and Analysis of Models for NLP-5**

*[Long] Compositionality and Generalization In Emergent Languages*

Rahma Chaabouni, Eugene Kharitonov, Diane Bouchacourt, Emmanuel Dupoux and Marco Baroni

*[Long] How does BERT's attention change when you fine-tune? An analysis methodology and a case study in negation scope*

Yiyun Zhao and Steven Bethard

*[Long] Human Attention Maps for Text Classification: Do Humans and Neural Networks Focus on the Same Words?*

Cansu Sen, Thomas Hartvigsen, Biao Yin, Xiangnan Kong and Elke Rundensteiner

*[Long] Influence Paths for Characterizing Subject-Verb Number Agreement in LSTM Language Models*

Kaiji Lu, Piotr Mardziel, Klas Leino, Matt Fredrikson and Anupam Datta

*[Long] Information-Theoretic Probing for Linguistic Structure*

Tiago Pimentel, Josef Valvoda, Rowan Hall Maudslay, Ran Zmigrod, Adina Williams and Ryan Cotterell

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Interpreting Pretrained Contextualized Representations via Reductions to Static Embeddings*

Rishi Bommasani, Kelly Davis and Claire Cardie

*[Long] Learning to Deceive with Attention-Based Explanations*

Danish Pruthi, Mansi Gupta, Bhuwan Dhingra, Graham Neubig and Zachary C. Lipton

*[Short] On the Spontaneous Emergence of Discrete and Compositional Signals*

Nur Geffen Lan, Emmanuel Chemla and Shane Steinert-Threlkeld

*[Long] Similarity Analysis of Contextual Word Representation Models*

John Wu, Yonatan Belinkov, Hassan Sajjad, Nadir Durrani, Fahim Dalvi and James Glass

*[Long] Spying on Your Neighbors: Fine-grained Probing of Contextual Embeddings for Information about Surrounding Words*

Josef Klafka and Allyson Ettinger

**17:00–18:00    Session 9A Language Grounding to Vision, Robotics and Beyond-3**

*[Long] Dense-Caption Matching and Frame-Selection Gating for Temporal Localization in VideoQA*

Hyounghun Kim, Zineng Tang and Mohit Bansal

*[Short] Shaping Visual Representations with Language for Few-Shot Classification*

Jesse Mu, Percy Liang and Noah Goodman

**Tuesday, July 7, 2020 UTC+0 (continued)**

**17:00–18:00 Session 9A Machine Learning for NLP-10**

*[Short] A Probabilistic Generative Model for Typographical Analysis of Early Modern Printing*

Kartik Goyal, Chris Dyer, Christopher Warren, Maxwell G'Sell and Taylor Berg-Kirkpatrick

*[Long] Discrete Latent Variable Representations for Low-Resource Text Classification*

Shuning Jin, Sam Wiseman, Karl Stratos and Karen Livescu

*[Long] Learning Constraints for Structured Prediction Using Rectifier Networks*

Xingyuan Pan, Maitrey Mehta and Vivek Srikumar

*[Long] Pretraining with Contrastive Sentence Objectives Improves Discourse Performance of Language Models*

Dan Iter, Kelvin Guu, Larry Lansing and Dan Jurafsky

*[Long] SenseBERT: Driving Some Sense into BERT*

Yoav Levine, Barak Lenz, Or Dagan, Ori Ram, Dan Padnos, Or Sharir, Shai Shalev-Shwartz, Amnon Shashua and Yoav Shoham

*[TACL] SpanBERT: Improving Pre-training by Representing and Predicting Spans*

Mandar Joshi, Danqi Chen, Yinhan Liu, Daniel S. Weld, Luke Zettlemoyer, Omer Levy

**17:00–18:00 Session 9A Resources and Evaluation-9**

*[Long] A Recipe for Creating Multimodal Aligned Datasets for Sequential Tasks*

Angela Lin, Sudha Rao, Asli Celikyilmaz, Elnaz Nouri, Chris Brockett, Debadepta Dey and Bill Dolan

*[Long] ASSET: A Dataset for Tuning and Evaluation of Sentence Simplification Models with Multiple Rewriting Transformations*

Fernando Alva-Manchego, Louis Martin, Antoine Bordes, Carolina Scarton, Benoît Sagot and Lucia Specia

*[Long] Adversarial NLI: A New Benchmark for Natural Language Understanding*

Yixin Nie, Adina Williams, Emily Dinan, Mohit Bansal, Jason Weston and Douwe Kiela

*[Long] Beyond Accuracy: Behavioral Testing of NLP Models with CheckList*

Marco Tulio Ribeiro, Tongshuang Wu, Carlos Guestrin and Sameer Singh

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] ChartDialogs: Plotting from Natural Language Instructions*

Yutong Shao and Ndapa Nakashole

*[Long] Code and Named Entity Recognition in StackOverflow*

Jeniya Tabassum, Mounica Maddela, Wei Xu and Alan Ritter

*[Long] Dialogue-Based Relation Extraction*

Dian Yu, Kai Sun, Claire Cardie and Dong Yu

*[Long] Facet-Aware Evaluation for Extractive Summarization*

Yuning Mao, Liyuan Liu, Qi Zhu, Xiang Ren and Jiawei Han

*[Short] Fatality Killed the Cat or: BabelPic, a Multimodal Dataset for Non-Concrete Concepts*

Agostina Calabrese, Michele Bevilacqua and Roberto Navigli

*[CL] LINSPECTOR: Multilingual Probing Tasks for Word Representations*

Gözde Gül Sahin, Clara Vania, Ilia Kuznetsov, Iryna Gurevych

*[Long] More Diverse Dialogue Datasets via Diversity-Informed Data Collection*

Katherine Stasaski, Grace Hui Yang and Marti A. Hearst

*[Long] ParaCrawl: Web-Scale Acquisition of Parallel Corpora*

Marta Bañón, Pinzhen Chen, Barry Haddow, Kenneth Heafield, Hieu Hoang, Miquel Esplà-Gomis, Mikel L. Forcada, Amir Kamran, Faheem Kirefu, Philipp Koehn, Sergio Ortiz Rojas, Leopoldo Pla Sempere, Gema Ramírez-Sánchez, Elsa Sarrias, Marek Strelec, Brian Thompson, William Waites, Dion Wiggins and Jaume Zaragoza

*[Long] S2ORC: The Semantic Scholar Open Research Corpus*

Kyle Lo, Lucy Lu Wang, Mark Neumann, Rodney Kinney and Daniel Weld

*[Long] Tangled up in BLEU: Reevaluating the Evaluation of Automatic Machine Translation Evaluation Metrics*

Nitika Mathur, Timothy Baldwin and Trevor Cohn

Tuesday, July 7, 2020 UTC+0 (continued)

**17:00–18:00 Session 9A Summarization-4**

*[Short] A Transformer-based Approach for Source Code Summarization*

Wasi Ahmad, Saikat Chakraborty, Baishakhi Ray and Kai-Wei Chang

*[Long] Asking and Answering Questions to Evaluate the Factual Consistency of Summaries*

Alex Wang, Kyunghyun Cho and Mike Lewis

*[Long] Discourse-Aware Neural Extractive Text Summarization*

Jiacheng Xu, Zhe Gan, Yu Cheng and Jingjing Liu

*[Long] Discrete Optimization for Unsupervised Sentence Summarization with Word-Level Extraction*

Raphael Schumann, Lili Mou, Yao Lu, Olga Vechtomova and Katja Markert

*[Short] Exploring Content Selection in Summarization of Novel Chapters*

Faisal Ladhak, Bryan Li, Yaser Al-Onaizan and Kathleen McKeown

*[Long] FEQA: A Question Answering Evaluation Framework for Faithfulness Assessment in Abstractive Summarization*

Esin Durmus, He He and Mona Diab

*[Short] Fact-based Content Weighting for Evaluating Abstractive Summarisation*

Xinnuo Xu, Ondřej Dušek, Jingyi Li, Verena Rieser and Ioannis Konstas

*[Long] Hooks in the Headline: Learning to Generate Headlines with Controlled Styles*

Di Jin, Zhijing Jin, Joey Tianyi Zhou, Lisa Orri and Peter Szolovits

*[Long] Knowledge Graph-Augmented Abstractive Summarization with Semantic-Driven Cloze Reward*

Luyang Huang, Lingfei Wu and Lu Wang

*[Long] Optimizing the Factual Correctness of a Summary: A Study of Summarizing Radiology Reports*

Yuhao Zhang, Derek Merck, Emily Tsai, Christopher D. Manning and Curtis Langlotz

*[Long] Storytelling with Dialogue: A Critical Role Dungeons and Dragons Dataset*

Revanth Rameshkumar and Peter Bailey

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] The Summary Loop: Learning to Write Abstractive Summaries Without Examples*

Philippe Laban, Andrew Hsi, John Canny and Marti A. Hearst

*[Long] Unsupervised Opinion Summarization as Copycat-Review Generation*

Arthur Bražinskas, Mirella Lapata and Ivan Titov

**17:00–18:00 Session 9A Theme-1**

*[Long] (Re)construing Meaning in NLP*

Sean Trott, Tiago Timponi Torrent, Nancy Chang and Nathan Schneider

*[Long] Climbing towards NLU: On Meaning, Form, and Understanding in the Age of Data*

Emily M. Bender and Alexander Koller

*[Long] Examining Citations of Natural Language Processing Literature*

Saif M. Mohammad

*[Short] How Can We Accelerate Progress Towards Human-like Linguistic Generalization?*

Tal Linzen

*[Long] How Does NLP Benefit Legal System: A Summary of Legal Artificial Intelligence*

Haoxi Zhong, Chaojun Xiao, Cunchao Tu, Tianyang Zhang, Zhiyuan Liu and Maosong Sun

*[Long] Intermediate-Task Transfer Learning with Pretrained Language Models: When and Why Does It Work?*

Yada Pruksachatkun, Jason Phang, Haokun Liu, Phu Mon Htut, Xiaoyi Zhang, Richard Yuanzhe Pang, Clara Vania, Katharina Kann and Samuel R. Bowman

*[Long] Predictive Biases in Natural Language Processing Models: A Conceptual Framework and Overview*

Deven Santosh Shah, H. Andrew Schwartz and Dirk Hovy

*[Short] What Does BERT with Vision Look At?*

Liunian Harold Li, Mark Yatskar, Da Yin, Cho-Jui Hsieh and Kai-Wei Chang

**Tuesday, July 7, 2020 UTC+0 (continued)**

**17:00–18:00 Session 9A Student Research Workshop**

*[SRW] Checkpoint Reranking: An Approach to Select Better Hypothesis for Neural Machine Translation Systems*

Vinay Pandramish and Dipti Misra Sharma

*[SRW] Cross-Lingual Disaster-related Multi-label Tweet Classification with Manifold Mixup*

Jishnu Ray Chowdhury, Cornelia Caragea and Doina Caragea

*[SRW] Inducing Grammar from Long Short-Term Memory Networks by Shapley Decomposition*

Yuhui Zhang and Allen Nie

*[SRW] Exploring the Role of Context to Distinguish Rhetorical and Information-Seeking Questions*

Yuan Zhuang and Ellen Riloff

**17:45–18:30 Demo Session 4B**

*[Demo] BENTO: A Visual Platform for Building Clinical NLP Pipelines Based on CodaLab*

Yonghao Jin, Fei Li and Hong Yu

*[Demo] Interactive Task Learning from GUI-Grounded Natural Language Instructions and Demonstrations*

Toby Jia-Jun Li, Tom Mitchell and Brad Myers

*[Demo] MixingBoard: a Knowledgeable Stylized Integrated Text Generation Platform*

Xiang Gao, Michel Galley and Bill Dolan

Tuesday, July 7, 2020 UTC+0 (continued)

**18:00–19:00 Session 9B Computational Social Science and Social Media-7**

*[Long] Analyzing Political Parody in Social Media*

Antonios Maronikolakis, Danae Sánchez Villegas, Daniel Preotiuc-Pietro and Nikolaos Aletras

*[Long] Balancing Objectives in Counseling Conversations: Advancing Forwards or Looking Backwards*

Justine Zhang and Cristian Danescu-Niculescu-Mizil

*[Long] Detecting Perceived Emotions in Hurricane Disasters*

Shrey Desai, Cornelia Caragea and Junyi Jessy Li

*[Long] Hierarchical Modeling for User Personality Prediction: The Role of Message-Level Attention*

Veronica Lynn, Niranjan Balasubramanian and H. Andrew Schwartz

*[Long] Measuring Forecasting Skill from Text*

Shi Zong, Alan Ritter and Eduard Hovy

*[Long] Text and Causal Inference: A Review of Using Text to Remove Confounding from Causal Estimates*

Katherine Keith, David Jensen and Brendan O'Connor

*[Long] Text-Based Ideal Points*

Keyon Vafa, Suresh Naidu and David Blei

*[Long] Understanding the Language of Political Agreement and Disagreement in Legislative Texts*

Maryam Davoodi, Eric Waltenburg and Dan Goldwasser

*[Short] Would you Rather? A New Benchmark for Learning Machine Alignment with Cultural Values and Social Preferences*

Yi Tay, Donovan Ong, Jie Fu, Alvin Chan, Nancy Chen, Anh Tuan Luu and Chris Pal



**Tuesday, July 7, 2020 UTC+0 (continued)**

**18:00–19:00 Session 9B Discourse and Pragmatics-4**

*[Long] Discourse as a Function of Event: Profiling Discourse Structure in News Articles around the Main Event*

Prafulla Kumar Choubey, Aaron Lee, Ruihong Huang and Lu Wang

*[Long] Harnessing the linguistic signal to predict scalar inferences*

Sebastian Schuster, Yuxing Chen and Judith Degen

*[Short] Implicit Discourse Relation Classification: We Need to Talk about Evaluation*

Najoung Kim, Song Feng, Chulaka Gunasekara and Luis Lastras

*[Long] PeTra: A Sparsely Supervised Memory Model for People Tracking*

Shubham Toshniwal, Allyson Ettinger, Kevin Gimpel and Karen Livescu

*[Short] ZPR2: Joint Zero Pronoun Recovery and Resolution using Multi-Task Learning and BERT*

Linfeng Song, Kun Xu, Yue Zhang, Jianshu Chen and Dong Yu

**18:00–19:00 Session 9B Ethics and NLP-4**

*[Short] Contextualizing Hate Speech Classifiers with Post-hoc Explanation*

Brendan Kennedy, Xisen Jin, Aida Mostafazadeh Davani, Morteza Dehghani and Xiang Ren

*[Long] Double-Hard Debias: Tailoring Word Embeddings for Gender Bias Mitigation*

Tianlu Wang, Xi Victoria Lin, Nazneen Fatema Rajani, Bryan McCann, Vicente Ordonez and Caiming Xiong

*[Long] Language (Technology) is Power: A Critical Survey of "Bias" in NLP*

Su Lin Blodgett, Solon Barocas, Hal Daumé III and Hanna Wallach

*[Long] Social Bias Frames: Reasoning about Social and Power Implications of Language*

Maarten Sap, Saadia Gabriel, Lianhui Qin, Dan Jurafsky, Noah A. Smith and Yejin Choi

*[Short] Social Biases in NLP Models as Barriers for Persons with Disabilities*

Ben Hutchinson, Vinodkumar Prabhakaran, Emily Denton, Kellie Webster, Yu Zhong and Stephen Denuyl

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Towards Debiasing Sentence Representations*

Paul Pu Liang, Irene Mengze Li, Emily Zheng, Yao Chong Lim, Ruslan Salakhutdinov and Louis-Philippe Morency

**18:00–19:00 Session 9B Interpretability and Analysis of Models for NLP-6**

*[Short] A Re-evaluation of Knowledge Graph Completion Methods*

Zhiqing Sun, Shikhar Vashishth, Soumya Sanyal, Partha Talukdar and Yiming Yang

*[Long] Cross-Linguistic Syntactic Evaluation of Word Prediction Models*

Aaron Mueller, Garrett Nicolai, Panayiota Petrou-Zeniou, Natalia Talmina and Tal Linzen

*[TACL] Does Syntax Need to Grow on Trees? Sources of Hierarchical Inductive Bias in Sequence-to-Sequence Networks*

R. Thomas McCoy, Robert Frank, Tal Linzen

*[Long] Evaluating Explainable AI: Which Algorithmic Explanations Help Users Predict Model Behavior?*

Peter Hase and Mohit Bansal

*[Long] Explaining Black Box Predictions and Unveiling Data Artifacts through Influence Functions*

Xiaochuang Han, Byron C. Wallace and Yulia Tsvetkov

*[Long] Finding Universal Grammatical Relations in Multilingual BERT*

Ethan A. Chi, John Hewitt and Christopher D. Manning

*[Long] Generating Hierarchical Explanations on Text Classification via Feature Interaction Detection*

Hanjie Chen, Guangtao Zheng and Yangfeng Ji

*[Long] Obtaining Faithful Interpretations from Compositional Neural Networks*

Sanjay Subramanian, Ben Bogin, Nitish Gupta, Tomer Wolfson, Sameer Singh, Jonathan Berant and Matt Gardner

*[Long] On the Cross-lingual Transferability of Monolingual Representations*

Mikel Artetxe, Sebastian Ruder and Dani Yogatama

*[Long] Rationalizing Text Matching: Learning Sparse Alignments via Optimal Transport*

Kyle Swanson, Lili Yu and Tao Lei

Tuesday, July 7, 2020 UTC+0 (continued)

**18:00–19:00 Session 9B Question Answering-6**

*[Short] Benefits of Intermediate Annotations in Reading Comprehension*

Dheeru Dua, Sameer Singh and Matt Gardner

*[TACL] Break It Down: A Question Understanding Benchmark*

Tomer Wolfson, Mor Geva, Ankit Gupta, Yoav Goldberg, Matt Gardner, Daniel Deutch, Jonathan Berant

*[Short] Crossing Variational Autoencoders for Answer Retrieval*

Wenhao Yu, Lingfei Wu, Qingkai Zeng, Shu Tao, Yu Deng and Meng Jiang

*[Long] Improving Multi-hop Question Answering over Knowledge Graphs using Knowledge Base Embeddings*

Apoorv Saxena, Aditay Tripathi and Partha Talukdar

*[TACL] Investigating Prior Knowledge for Challenging Chinese Machine Reading Comprehension*

Kai Sun, Dian Yu, Dong Yu, Claire Cardie

*[Short] Logic-Guided Data Augmentation and Regularization for Consistent Question Answering*

Akari Asai and Hannaneh Hajishirzi

*[Short] On the Importance of Diversity in Question Generation for QA*

Md Arafat Sultan, Shubham Chandel, Ramón Fernandez Astudillo and Vittorio Castelli

*[Long] Probabilistic Assumptions Matter: Improved Models for Distantly-Supervised Document-Level Question Answering*

Hao Cheng, Ming-Wei Chang, Kenton Lee and Kristina Toutanova

*[Long] SCDE: Sentence Cloze Dataset with High Quality Distractors From Examinations*

Xiang Kong, Varun Gangal and Eduard Hovy

*[Long] Selective Question Answering under Domain Shift*

Amita Kamath, Robin Jia and Percy Liang

*[Short] Template-Based Question Generation from Retrieved Sentences for Improved Unsupervised Question Answering*

Alexander Fabbri, Patrick Ng, Zhiguo Wang, Ramesh Nallapati and Bing Xiang

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] The Cascade Transformer: an Application for Efficient Answer Sentence Selection*

Luca Soldaini and Alessandro Moschitti

*[Short] Transformers to Learn Hierarchical Contexts in Multiparty Dialogue for Span-based Question Answering*

Changmao Li and Jinho D. Choi

*[TACL] TyDi QA: A Benchmark for Information-Seeking Question Answering in Typologically Diverse Languages*

Jonathan H Clark, Jennimaria Palomaki, Vitaly Nikolaev, Eunsol Choi, Dan Garrette, Michael Collins, Tom Kwiatkowski

**18:00–19:00 Session 9B Resources and Evaluation-10**

*[Long] A Corpus for Large-Scale Phonetic Typology*

Elizabeth Salesky, Eleanor Chodroff, Tiago Pimentel, Matthew Wiesner, Ryan Cotterell, Alan W Black and Jason Eisner

*[Long] An Effectiveness Metric for Ordinal Classification: Formal Properties and Experimental Results*

Enrique Amigo, Julio Gonzalo, Stefano Mizzaro and Jorge Carrillo-de-Albornoz

*[Long] Not All Claims are Created Equal: Choosing the Right Statistical Approach to Assess Hypotheses*

Erfan Sadeqi Azer, Daniel Khashabi, Ashish Sabharwal and Dan Roth

*[Long] STARC: Structured Annotations for Reading Comprehension*

Yevgeni Berzak, Jonathan Malmaud and Roger Levy

*[Long] WinoWhy: A Deep Diagnosis of Essential Commonsense Knowledge for Answering Winograd Schema Challenge*

Hongming Zhang, Xinran Zhao and Yangqiu Song

**Tuesday, July 7, 2020 UTC+0 (continued)**

**18:00–19:00    Session 9B Sentiment Analysis, Stylistic Analysis, and Argument Mining-7**

*[Long] Agreement Prediction of Arguments in Cyber Argumentation for Detecting Stance Polarity and Intensity*

Joseph Sirrianni, Xiaoqing Liu and Douglas Adams

*[Long] Cross-Lingual Unsupervised Sentiment Classification with Multi-View Transfer Learning*

Hongliang Fei and Ping Li

*[Long] Efficient Pairwise Annotation of Argument Quality*

Lukas Gienapp, Benno Stein, Matthias Hagen and Martin Potthast

*[Short] Entity-Aware Dependency-Based Deep Graph Attention Network for Comparative Preference Classification*

Nianzu Ma, Sahisnu Mazumder, Hao Wang and Bing Liu

*[Long] GoEmotions: A Dataset of Fine-Grained Emotions*

Dorottya Demszky, Dana Movshovitz-Attias, Jeongwoo Ko, Alan Cowen, Gaurav Nemade and Sujith Ravi

*[Short] OpinionDigest: A Simple Framework for Opinion Summarization*

Yoshihiko Suhara, Xiaolan Wang, Stefanos Angelidis and Wang-Chiew Tan

*[Long] A Comprehensive Analysis of Preprocessing for Word Representation Learning in Affective Tasks*

Nastaran Babanejad, Ameeta Agrawal, Aijun An and Manos Papagelis

**Tuesday, July 7, 2020 UTC+0 (continued)**

**18:00–19:00    Session 9B Student Research Workshop**

*[SRW] Compositional Generalization by Factorizing Alignment and Translation*

Jacob Russin, Jason Jo, Randall O'Reilly and Yoshua Bengio

*[SRW] RPD: A Distance Function Between Word Embeddings*

Xuhui Zhou, Shujian Huang and Zaixiang Zheng

*[SRW] #NotAWhore! A Computational Linguistic Perspective of Rape Culture and Victimization on Social Media*

Ashima Suvarna and Grusha Bhalla

*[SRW] Research Replication Prediction Using Weakly Supervised Learning*

Tianyi Luo, Xingyu Li, Hainan Wang and Yang Liu

*[SRW] Inducing Grammar from Long Short-Term Memory Networks by Shapley Decomposition*

Yuhui Zhang and Allen Nie

**18:30–19:15    Demo Session 4C**

*[Demo] NLP Scholar: An Interactive Visual Explorer for Natural Language Processing Literature*

Saif M. Mohammad

*[Demo] Stimulating Creativity with FunLines: A Case Study of Humor Generation in Headlines*

Nabil Hossain, John Krumm, Tanvir Sajed and Henry Kautz

*[Demo] Usnea: An Authorship Tool for Interactive Fiction using Retrieval Based Semantic Parsing*

Ben Swanson and Boris Smus

**Tuesday, July 7, 2020 UTC+0 (continued)**

**20:00–20:45 Demo Session 5A**

*[Demo] DIALOGPT : Large-Scale Generative Pre-training for Conversational Response Generation*

Yizhe Zhang, Siqi Sun, Michel Galley, Yen-Chun Chen, Chris Brockett, Xiang Gao, Jianfeng Gao, Jingjing Liu and Bill Dolan

*[Demo] Label Noise in Context*

Michael Desmond, Catherine Finegan-Dollak, Jeff Boston and Matt Arnold

*[Demo] Photon: A Robust Cross-Domain Text-to-SQL System*

Jichuan Zeng, Xi Victoria Lin, Steven C.H. Hoi, Richard Socher, Caiming Xiong, Michael Lyu and Irwin King

**20:00–21:00 Session 10A Computational Social Science and Social Media-8**

*[Long] Balancing Objectives in Counseling Conversations: Advancing Forwards or Looking Backwards*

Justine Zhang and Cristian Danescu-Niculescu-Mizil

*[Long] Detecting Perceived Emotions in Hurricane Disasters*

Shrey Desai, Cornelia Caragea and Junyi Jessy Li

*[Long] Hierarchical Modeling for User Personality Prediction: The Role of Message-Level Attention*

Veronica Lynn, Niranjan Balasubramanian and H. Andrew Schwartz

*[Short] Masking Actor Information Leads to Fairer Political Claims Detection*

Erenay Dayanik and Sebastian Padó

*[Long] Measuring Forecasting Skill from Text*

Shi Zong, Alan Ritter and Eduard Hovy

*[Long] Text and Causal Inference: A Review of Using Text to Remove Confounding from Causal Estimates*

Katherine Keith, David Jensen and Brendan O'Connor

*[Long] Text-Based Ideal Points*

Keyon Vafa, Suresh Naidu and David Blei

*[Long] Understanding the Language of Political Agreement and Disagreement in Legislative Texts*

Maryam Davoodi, Eric Waltenburg and Dan Goldwasser

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] When do Word Embeddings Accurately Reflect Surveys on our Beliefs About People?*

Kenneth Joseph and Jonathan Morgan

*[Long] “Who said it, and Why?” Provenance for Natural Language Claims*

Yi Zhang, Zachary Ives and Dan Roth

*[Short] Would you Rather? A New Benchmark for Learning Machine Alignment with Cultural Values and Social Preferences*

Yi Tay, Donovan Ong, Jie Fu, Alvin Chan, Nancy Chen, Anh Tuan Luu and Chris Pal

**20:00–21:00 Session 10A Dialogue and Interactive Systems-12**

*[Long] CraftAssist Instruction Parsing: Semantic Parsing for a Voxel-World Assistant*

Kavya Srinet, Yacine Jernite, Jonathan Gray and arthur szlam

*[Long] Don’t Say That! Making Inconsistent Dialogue Unlikely with Unlikelihood Training*

Margaret Li, Stephen Roller, Ilya Kulikov, Sean Welleck, Y-Lan Boureau, Kyunghyun Cho and Jason Weston

**20:00–21:00 Session 10A Interpretability and Analysis of Models for NLP-7**

*[Short] A Re-evaluation of Knowledge Graph Completion Methods*

Zhiqing Sun, Shikhar Vashishth, Soumya Sanyal, Partha Talukdar and Yiming Yang

*[Long] Cross-Linguistic Syntactic Evaluation of Word Prediction Models*

Aaron Mueller, Garrett Nicolai, Panayiota Petrou-Zeniou, Natalia Talmina and Tal Linzen

*[Long] ERASER: A Benchmark to Evaluate Rationalized NLP Models*

Jay DeYoung, Sarthak Jain, Nazneen Fatema Rajani, Eric Lehman, Caiming Xiong, Richard Socher and Byron C. Wallace

*[Long] Evaluating Explainable AI: Which Algorithmic Explanations Help Users Predict Model Behavior?*

Peter Hase and Mohit Bansal

*[Long] Finding Universal Grammatical Relations in Multilingual BERT*

Ethan A. Chi, John Hewitt and Christopher D. Manning



**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] How does BERT's attention change when you fine-tune? An analysis methodology and a case study in negation scope*

Yiyun Zhao and Steven Bethard

*[Long] Influence Paths for Characterizing Subject-Verb Number Agreement in LSTM Language Models*

Kaiji Lu, Piotr Mardziel, Klas Leino, Matt Fredrikson and Anupam Datta

*[Long] Interpreting Pretrained Contextualized Representations via Reductions to Static Embeddings*

Rishi Bommasani, Kelly Davis and Claire Cardie

*[Long] Obtaining Faithful Interpretations from Compositional Neural Networks*

Sanjay Subramanian, Ben Bogin, Nitish Gupta, Tomer Wolfson, Sameer Singh, Jonathan Berant and Matt Gardner

*[Long] Rationalizing Text Matching: Learning Sparse Alignments via Optimal Transport*

Kyle Swanson, Lili Yu and Tao Lei

*[Long] Spying on Your Neighbors: Fine-grained Probing of Contextual Embeddings for Information about Surrounding Words*

Josef Klafka and Allyson Ettinger

*[TACL] What BERT Is Not: Lessons from a New Suite of Psycholinguistic Diagnostics for Language Models*

Allyson Ettinger

**20:00–21:00 Session 10A Question Answering-7**

*[Short] Benefits of Intermediate Annotations in Reading Comprehension*

Dheeru Dua, Sameer Singh and Matt Gardner

*[Short] Crossing Variational Autoencoders for Answer Retrieval*

Wenhao Yu, Lingfei Wu, Qingkai Zeng, Shu Tao, Yu Deng and Meng Jiang

*[Long] DeFormer: Decomposing Pre-trained Transformers for Faster Question Answering*

Qingqing Cao, Harsh Trivedi, Aruna Balasubramanian and Niranjan Balasubramanian

*[TACL] Investigating Prior Knowledge for Challenging Chinese Machine Reading Comprehension*

Kai Sun, Dian Yu, Dong Yu, Claire Cardie

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Short] Logic-Guided Data Augmentation and Regularization for Consistent Question Answering*

Akari Asai and Hannaneh Hajishirzi

*[Long] Probabilistic Assumptions Matter: Improved Models for Distantly-Supervised Document-Level Question Answering*

Hao Cheng, Ming-Wei Chang, Kenton Lee and Kristina Toutanova

*[Long] Selective Question Answering under Domain Shift*

Amita Kamath, Robin Jia and Percy Liang

*[TACL] TyDi QA: A Benchmark for Information-Seeking Question Answering in Typologically Diverse Languages*

Jonathan H Clark, Jennimaria Palomaki, Vitaly Nikolaev, Eunsol Choi, Dan Garrette, Michael Collins, Tom Kwiatkowski

*[Long] Unsupervised Alignment-based Iterative Evidence Retrieval for Multi-hop Question Answering*

Vikas Yadav, Steven Bethard and Mihai Surdeanu

**20:00–21:00 Session 10A Resources and Evaluation-11**

*[Long] Beyond Accuracy: Behavioral Testing of NLP Models with CheckList*

Marco Tulio Ribeiro, Tongshuang Wu, Carlos Guestrin and Sameer Singh

*[Long] Code and Named Entity Recognition in StackOverflow*

Jeniya Tabassum, Mounica Maddela, Wei Xu and Alan Ritter

*[CL] LINSPECTOR: Multilingual Probing Tasks for Word Representations*

Gözde Gül Sahin, Clara Vania, Ilia Kuznetsov, Iryna Gurevych

*[TACL] Paraphrase-Sense-Tagged Sentences*

Anne Cocos, Chris Callison-Burch

*[Long] Tangled up in BLEU: Reevaluating the Evaluation of Automatic Machine Translation Evaluation Metrics*

Nitika Mathur, Timothy Baldwin and Trevor Cohn

*[Long] Towards Holistic and Automatic Evaluation of Open-Domain Dialogue Generation*

Bo Pang, Erik Nijkamp, Wenjuan Han, Linqi Zhou, Yixian Liu and Kewei Tu

Tuesday, July 7, 2020 UTC+0 (continued)

**20:00–21:00 Session 10A Sentiment Analysis, Stylistic Analysis, and Argument Mining-8**

*[Long] Agreement Prediction of Arguments in Cyber Argumentation for Detecting Stance Polarity and Intensity*

Joseph Sirrianni, Xiaoqing Liu and Douglas Adams

*[Long] Cross-Lingual Unsupervised Sentiment Classification with Multi-View Transfer Learning*

Hongliang Fei and Ping Li

*[Long] Efficient Pairwise Annotation of Argument Quality*

Lukas Gienapp, Benno Stein, Matthias Hagen and Martin Potthast

*[Short] Entity-Aware Dependency-Based Deep Graph Attention Network for Comparative Preference Classification*

Nianzu Ma, Sahisnu Mazumder, Hao Wang and Bing Liu

*[Short] Modeling Label Semantics for Predicting Emotional Reactions*

Radhika Gaonkar, Heeyoung Kwon, Mohaddeseh Bastan, Niranjana Balasubramanian and Nathanael Chambers

*[Short] OpinionDigest: A Simple Framework for Opinion Summarization*

Yoshihiko Suhara, Xiaolan Wang, Stefanos Angelidis and Wang-Chiew Tan

*[Long] A Comprehensive Analysis of Preprocessing for Word Representation Learning in Affective Tasks*

Nastaran Babanejad, Ameeta Agrawal, Aijun An and Manos Papagelis

Tuesday, July 7, 2020 UTC+0 (continued)

**20:00–21:00    Session 10A Theme-2**

*[Long] (Re)construing Meaning in NLP*

Sean Trott, Tiago Timponi Torrent, Nancy Chang and Nathan Schneider

*[Long] Climbing towards NLU: On Meaning, Form, and Understanding in the Age of Data*

Emily M. Bender and Alexander Koller

*[Long] Examining Citations of Natural Language Processing Literature*

Saif M. Mohammad

*[Short] How Can We Accelerate Progress Towards Human-like Linguistic Generalization?*

Tal Linzen

*[Long] How Does NLP Benefit Legal System: A Summary of Legal Artificial Intelligence*

Haoxi Zhong, Chaojun Xiao, Cunchao Tu, Tianyang Zhang, Zhiyuan Liu and Maosong Sun

*[Long] Intermediate-Task Transfer Learning with Pretrained Language Models: When and Why Does It Work?*

Yada Pruksachatkun, Jason Phang, Haokun Liu, Phu Mon Htut, Xiaoyi Zhang, Richard Yuanzhe Pang, Clara Vania, Katharina Kann and Samuel R. Bowman

*[Long] Predictive Biases in Natural Language Processing Models: A Conceptual Framework and Overview*

Deven Santosh Shah, H. Andrew Schwartz and Dirk Hovy

*[Short] What Does BERT with Vision Look At?*

Liunian Harold Li, Mark Yatskar, Da Yin, Cho-Jui Hsieh and Kai-Wei Chang

**Tuesday, July 7, 2020 UTC+0 (continued)**

**20:45–21:30 Demo Session 5B**

*[Demo] Interactive Task Learning from GUI-Grounded Natural Language Instructions and Demonstrations*

Toby Jia-Jun Li, Tom Mitchell and Brad Myers

*[Demo] exBERT: A Visual Analysis Tool to Explore Learned Representations in Transformer Models*

Benjamin Hoover, Hendrik Strobelt and Sebastian Gehrmann

**21:00–22:00 Session 10B Discourse and Pragmatics-5**

*[Long] Discourse as a Function of Event: Profiling Discourse Structure in News Articles around the Main Event*

Prafulla Kumar Choubey, Aaron Lee, Ruihong Huang and Lu Wang

*[Long] Harnessing the linguistic signal to predict scalar inferences*

Sebastian Schuster, Yuxing Chen and Judith Degen

*[Short] Implicit Discourse Relation Classification: We Need to Talk about Evaluation*

Najoung Kim, Song Feng, Chulaka Gunasekara and Luis Lastras

*[Long] PeTra: A Sparsely Supervised Memory Model for People Tracking*

Shubham Toshniwal, Allyson Ettinger, Kevin Gimpel and Karen Livescu

*[Short] ZPR2: Joint Zero Pronoun Recovery and Resolution using Multi-Task Learning and BERT*

Linfeng Song, Kun Xu, Yue Zhang, Jianshu Chen and Dong Yu

Tuesday, July 7, 2020 UTC+0 (continued)

**21:00–22:00 Session 10B Ethics and NLP-5**

*[Short] Contextualizing Hate Speech Classifiers with Post-hoc Explanation*

Brendan Kennedy, Xisen Jin, Aida Mostafazadeh Davani, Morteza Dehghani and Xiang Ren

*[Long] Double-Hard Debias: Tailoring Word Embeddings for Gender Bias Mitigation*

Tianlu Wang, Xi Victoria Lin, Nazneen Fatema Rajani, Bryan McCann, Vicente Ordonez and Caiming Xiong

*[Long] Gender Bias in Multilingual Embeddings and Cross-Lingual Transfer*

Jieyu Zhao, Subhabrata Mukherjee, saghar Hosseini, Kai-Wei Chang and Ahmed Hassan Awadallah

*[Long] Language (Technology) is Power: A Critical Survey of "Bias" in NLP*

Su Lin Blodgett, Solon Barocas, Hal Daumé III and Hanna Wallach

*[Short] Mitigating Gender Bias Amplification in Distribution by Posterior Regularization*

Shengyu Jia, Tao Meng, Jieyu Zhao and Kai-Wei Chang

*[Long] Social Bias Frames: Reasoning about Social and Power Implications of Language*

Maarten Sap, Saadia Gabriel, Lianhui Qin, Dan Jurafsky, Noah A. Smith and Yejin Choi

*[Short] Social Biases in NLP Models as Barriers for Persons with Disabilities*

Ben Hutchinson, Vinodkumar Prabhakaran, Emily Denton, Kellie Webster, Yu Zhong and Stephen Denuyl

*[Long] Toward Gender-Inclusive Coreference Resolution*

Yang Trista Cao and Hal Daumé III

*[Long] Towards Debiasing Sentence Representations*

Paul Pu Liang, Irene Mengze Li, Emily Zheng, Yao Chong Lim, Ruslan Salakhutdinov and Louis-Philippe Morency

**Tuesday, July 7, 2020 UTC+0 (continued)**

**21:00–22:00 Session 10B Interpretability and Analysis of Models for NLP-8**

*[Long] Explaining Black Box Predictions and Unveiling Data Artifacts through Influence Functions*

Xiaochuang Han, Byron C. Wallace and Yulia Tsvetkov

*[Long] Generating Hierarchical Explanations on Text Classification via Feature Interaction Detection*

Hanjie Chen, Guangtao Zheng and Yangfeng Ji

*[Long] Learning to Deceive with Attention-Based Explanations*

Danish Pruthi, Mansi Gupta, Bhuwan Dhingra, Graham Neubig and Zachary C. Lipton

*[Long] Learning to Faithfully Rationalize by Construction*

Sarthak Jain, Sarah Wiegrefe, Yuval Pinter and Byron C. Wallace

*[Short] On the Spontaneous Emergence of Discrete and Compositional Signals*

Nur Geffen Lan, Emmanuel Chemla and Shane Steinert-Threlkeld

**21:00–22:00 Session 10B Language Grounding to Vision, Robotics and Beyond-4**

*[Long] Dense-Caption Matching and Frame-Selection Gating for Temporal Localization in VideoQA*

Hyounghun Kim, Zineng Tang and Mohit Bansal

*[Short] Shaping Visual Representations with Language for Few-Shot Classification*

Jesse Mu, Percy Liang and Noah Goodman

**Tuesday, July 7, 2020 UTC+0 (continued)**

**21:00–22:00 Session 10B Machine Learning for NLP-11**

*[Long] Discrete Latent Variable Representations for Low-Resource Text Classification*

Shuning Jin, Sam Wiseman, Karl Stratos and Karen Livescu

*[Long] Improving Transformer Models by Reordering their Sublayers*

Ofir Press, Noah A. Smith and Omer Levy

*[Long] Learning Constraints for Structured Prediction Using Rectifier Networks*

Xingyuan Pan, Maitrey Mehta and Vivek Srikumar

*[Long] Pretraining with Contrastive Sentence Objectives Improves Discourse Performance of Language Models*

Dan Iter, Kelvin Guu, Larry Lansing and Dan Jurafsky

*[Short] SAFER: A Structure-free Approach for Certified Robustness to Adversarial Word Substitutions*

Mao Ye, Chengyue Gong and Qiang Liu

*[TACL] SpanBERT: Improving Pre-training by Representing and Predicting Spans*

Mandar Joshi, Danqi Chen, Yinhan Liu, Daniel S. Weld, Luke Zettlemoyer, Omer Levy

**21:00–22:00 Session 10B Question Answering-8**

*[Long] Clinical Reading Comprehension: A Thorough Analysis of the emrQA Dataset*

Xiang Yue, Bernal Jimenez Gutierrez and Huan Sun

*[Short] On the Importance of Diversity in Question Generation for QA*

Md Arafat Sultan, Shubham Chandel, Ramón Fernandez Astudillo and Vittorio Castelli

*[Long] SCDE: Sentence Cloze Dataset with High Quality Distractors From Examinations*

Xiang Kong, Varun Gangal and Eduard Hovy

*[Long] The Cascade Transformer: an Application for Efficient Answer Sentence Selection*

Luca Soldaini and Alessandro Moschitti



**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Short] Transformers to Learn Hierarchical Contexts in Multiparty Dialogue for Span-based Question Answering*

Changmao Li and Jinho D. Choi

**21:00–22:00 Session 10B Resources and Evaluation-12**

*[Long] A Recipe for Creating Multimodal Aligned Datasets for Sequential Tasks*

Angela Lin, Sudha Rao, Asli Celikyilmaz, Elnaz Nouri, Chris Brockett, Debadeepta Dey and Bill Dolan

*[Long] Adversarial NLI: A New Benchmark for Natural Language Understanding*

Yixin Nie, Adina Williams, Emily Dinan, Mohit Bansal, Jason Weston and Douwe Kiela

*[Long] Dialogue-Based Relation Extraction*

Dian Yu, Kai Sun, Claire Cardie and Dong Yu

*[Short] Dscorer: A Fast Evaluation Metric for Discourse Representation Structure Parsing*

Jiangming Liu, Shay B. Cohen and Mirella Lapata

*[Long] Facet-Aware Evaluation for Extractive Summarization*

Yuning Mao, Liyuan Liu, Qi Zhu, Xiang Ren and Jiawei Han

*[Long] More Diverse Dialogue Datasets via Diversity-Informed Data Collection*

Katherine Stasaski, Grace Hui Yang and Marti A. Hearst

*[Long] Not All Claims are Created Equal: Choosing the Right Statistical Approach to Assess Hypotheses*

Erfan Sadeqi Azer, Daniel Khashabi, Ashish Sabharwal and Dan Roth

*[Long] S2ORC: The Semantic Scholar Open Research Corpus*

Kyle Lo, Lucy Lu Wang, Mark Neumann, Rodney Kinney and Daniel Weld

*[Long] STARC: Structured Annotations for Reading Comprehension*

Yevgeni Berzak, Jonathan Malmaud and Roger Levy

*[Long] WinoWhy: A Deep Diagnosis of Essential Commonsense Knowledge for Answering Winograd Schema Challenge*

Hongming Zhang, Xinran Zhao and Yangqiu Song

**Tuesday, July 7, 2020 UTC+0 (continued)**

**21:00–22:00 Session 10B Speech and Multimodality-6**

*[Short] Towards end-2-end learning for predicting behavior codes from spoken utterances in psychotherapy conversations*

Karan Singla, Zhuohao Chen, David Atkins and Shrikanth Narayanan

**21:00–22:00 Session 10B Summarization-5**

*[Short] A Transformer-based Approach for Source Code Summarization*

Wasi Ahmad, Saikat Chakraborty, Baishakhi Ray and Kai-Wei Chang

*[Long] Asking and Answering Questions to Evaluate the Factual Consistency of Summaries*

Alex Wang, Kyunghyun Cho and Mike Lewis

*[Long] Discourse-Aware Neural Extractive Text Summarization*

Jiacheng Xu, Zhe Gan, Yu Cheng and Jingjing Liu

*[Long] Discrete Optimization for Unsupervised Sentence Summarization with Word-Level Extraction*

Raphael Schumann, Lili Mou, Yao Lu, Olga Vechtomova and Katja Markert

*[Short] Exploring Content Selection in Summarization of Novel Chapters*

Faisal Ladhak, Bryan Li, Yaser Al-Onaizan and Kathleen McKeown

*[Long] FEQA: A Question Answering Evaluation Framework for Faithfulness Assessment in Abstractive Summarization*

Esin Durmus, He He and Mona Diab

*[Short] Fact-based Content Weighting for Evaluating Abstractive Summarisation*

Xinnuo Xu, Ondřej Dušek, Jingyi Li, Verena Rieser and Ioannis Konstas

*[Long] Hooks in the Headline: Learning to Generate Headlines with Controlled Styles*

Di Jin, Zhijing Jin, Joey Tianyi Zhou, Lisa Orlí and Peter Szolovits

*[Long] Knowledge Graph-Augmented Abstractive Summarization with Semantic-Driven Cloze Reward*

Luyang Huang, Lingfei Wu and Lu Wang

**Tuesday, July 7, 2020 UTC+0 (continued)**

*[Long] Optimizing the Factual Correctness of a Summary: A Study of Summarizing Radiology Reports*

Yuhao Zhang, Derek Merck, Emily Tsai, Christopher D. Manning and Curtis Langlotz

*[Long] Storytelling with Dialogue: A Critical Role Dungeons and Dragons Dataset*  
Revanth Rameshkumar and Peter Bailey

*[Long] The Summary Loop: Learning to Write Abstractive Summaries Without Examples*

Philippe Laban, Andrew Hsi, John Canny and Marti A. Hearst

*[Long] Unsupervised Opinion Summarization as Copycat-Review Generation*  
Arthur Bražiņskas, Mirella Lapata and Ivan Titov

**21:30–22:15 Demo Session 5C**

*[Demo] NLP Scholar: An Interactive Visual Explorer for Natural Language Processing Literature*

Saif M. Mohammad

*[Demo] Stimulating Creativity with FunLines: A Case Study of Humor Generation in Headlines*

Nabil Hossain, John Krumm, Tanvir Sajed and Henry Kautz

*[Demo] Usnea: An Authorship Tool for Interactive Fiction using Retrieval Based Semantic Parsing*

Ben Swanson and Boris Smus

**Wednesday, July 8, 2020 UTC+0**

Wednesday, July 8, 2020 UTC+0 (continued)

**05:00–05:45 Demo Session 1A**

*[Demo] ADVISER: A Toolkit for Developing Multi-modal, Multi-domain and Socially-engaged Conversational Agents*

Chia-Yu Li, Daniel Ortega, Dirk Văth, Florian Lux, Lindsey Vanderlyn, Maximilian Schmidt, Michael Neumann, Moritz Völkel, Pavel Denisov, Sabrina Jenne, Zorica Kacarevic and Ngoc Thang Vu

*[Demo] Prta: A System to Support the Analysis of Propaganda Techniques in the News*

Giovanni Da San Martino, Shaden Shaar, Yifan Zhang, Seunghak Yu, Alberto Barrón-Cedeño and Preslav Nakov

**05:00–06:00 Session 11A Dialogue and Interactive Systems-13**

*[Long] Diverse and Informative Dialogue Generation with Context-Specific Commonsense Knowledge Awareness*

Sixing Wu, Ying Li, Dawei Zhang, Yang Zhou and Zhonghai Wu

*[Long] Generate, Delete and Rewrite: A Three-Stage Framework for Improving Persona Consistency of Dialogue Generation*

Haoyu Song, Yan Wang, Wei-Nan Zhang, Xiaojiang Liu and Ting Liu

*[Long] Learning to Customize Model Structures for Few-shot Dialogue Generation Tasks*

YIPING SONG, Zequn Liu, Wei Bi, Rui Yan and Ming Zhang

*[Short] Video-Grounded Dialogues with Pretrained Generation Language Models*  
Hung Le and Steven C.H. Hoi

**05:00–06:00 Session 11A Information Extraction-3**

*[Long] A Unified MRC Framework for Named Entity Recognition*

Xiaoya Li, Jingrong Feng, Yuxian Meng, Qinghong Han, Fei Wu and Jiwei Li

*[Long] An Effective Transition-based Model for Discontinuous NER*

Xiang Dai, Sarvnaz Karimi, Ben Hachey and Cecile Paris

*[Long] IMoJIE: Iterative Memory-Based Joint Open Information Extraction*

Keshav Kolluru, Samarth Aggarwal, Vipul Rathore, Mausam and Soumen Chakrabarti

*[Long] Improving Event Detection via Open-domain Trigger Knowledge*

Meihan Tong, Bin Xu, Shuai Wang, Yixin Cao, Lei Hou, Juanzi Li and Jun Xie

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Short] Improving Low-Resource Named Entity Recognition using Joint Sentence and Token Labeling*

Canasai Kruengkrai, Thien Hai Nguyen, Sharifah Mahani Aljunied and Lidong Bing

*[Long] Multi-Cell Compositional LSTM for NER Domain Adaptation*

Chen Jia and Yue Zhang

*[Long] Pyramid: A Layered Model for Nested Named Entity Recognition*

Jue WANG, Lidan Shou, Ke Chen and Gang Chen

*[Long] ReInceptionE: Relation-Aware Inception Network with Joint Local-Global Structural Information for Knowledge Graph Embedding*

Zhiwen Xie, Guangyou Zhou, Jin Liu and Jimmy Xiangji Huang

*[Long] Relabel the Noise: Joint Extraction of Entities and Relations via Cooperative Multiagents*

Daoyuan Chen, Yaliang Li, Kai Lei and Ying Shen

*[Long] Simplify the Usage of Lexicon in Chinese NER*

Ruotian Ma, Minlong Peng, Qi Zhang, Zhongyu Wei and Xuanjing Huang

**05:00–06:00 Session 11A Machine Translation-13**

*[Long] AdvAug: Robust Adversarial Augmentation for Neural Machine Translation*

Yong Cheng, Lu Jiang, Wolfgang Macherey and Jacob Eisenstein

*[Short] Contextual Neural Machine Translation Improves Translation of Cataphoric Pronouns*

KayYen Wong, Sameen Maruf and Gholamreza Haffari

*[Long] Improving Neural Machine Translation with Soft Template Prediction*

Jian Yang, Shuming Ma, Dongdong Zhang, Zhoujun Li and Ming Zhou

*[Short] Tagged Back-translation Revisited: Why Does It Really Work?*

Benjamin Marie, Raphael Rubino and Atsushi Fujita

*[Short] Worse WER, but Better BLEU? Leveraging Word Embedding as Intermediate in Multitask End-to-End Speech Translation*

Shun-Po Chuang, Tzu-Wei Sung, Alexander H. Liu and Hung-yi Lee

Wednesday, July 8, 2020 UTC+0 (continued)

**05:00–06:00 Session 11A NLP Applications-8**

*[Short] Neural-DINF: A Neural Network based Framework for Measuring Document Influence*

Jie Tan, Changlin Yang, Ying Li, Siliang Tang, Chen Huang and Yueting Zhuang

*[Long] Paraphrase Generation by Learning How to Edit from Samples*

Amirhossein Kazemnejad, Mohammadreza Salehi and Mahdieh Soleymani Baghshah

**05:00–06:00 Session 11A Semantics: Sentence Level-5**

*[Long] Emerging Cross-lingual Structure in Pretrained Language Models*

Alexis Conneau, Shijie Wu, Haoran Li, Luke Zettlemoyer and Veselin Stoyanov

*[Long] FastBERT: a Self-distilling BERT with Adaptive Inference Time*

Weijie Liu, Peng Zhou, Zhiruo Wang, Zhe Zhao, Haotang Deng and QI JU

*[Short] Incorporating External Knowledge through Pre-training for Natural Language to Code Generation*

Frank F. Xu, Zhengbao Jiang, Pengcheng Yin, Bogdan Vasilescu and Graham Neubig

*[Long] LogicalFactChecker: Leveraging Logical Operations for Fact Checking with Graph Module Network*

Wanjun Zhong, Duyu Tang, Zhangyin Feng, Nan Duan, Ming Zhou, Ming Gong, Linjun Shou, Daxin Jiang, Jiahai Wang and Jian Yin

*[Long] Word-level Textual Adversarial Attacking as Combinatorial Optimization*

Yuan Zang, Fanchao Qi, Chenghao Yang, Zhiyuan Liu, Meng Zhang, Qun Liu and Maosong Sun

Wednesday, July 8, 2020 UTC+0 (continued)

**05:00–06:00 Session 11A Semantics: Textual Inference and Other Areas of Semantics-3**

*[Long] Benchmarking Multimodal Regex Synthesis with Complex Structures*

Xi Ye, Qiaochu Chen, Isil Dillig and Greg Durrett

*[Long] Curriculum Learning for Natural Language Understanding*

Benfeng Xu, Licheng Zhang, Zhendong Mao, Quan Wang, Hongtao Xie and Yongdong Zhang

*[Long] Do Neural Models Learn Systematicity of Monotonicity Inference in Natural Language?*

Hitomi Yanaka, Koji Mineshima, Daisuke Bekki and Kentaro Inui

*[Long] Evidence-Aware Inferential Text Generation with Vector Quantised Variational AutoEncoder*

Daya Guo, Duyu Tang, Nan Duan, Jian Yin, Daxin Jiang and Ming Zhou

*[Long] How to Ask Good Questions? Try to Leverage Paraphrases*

Xin Jia, Wenjie Zhou, Xu SUN and Yunfang Wu

*[Long] NeuInfer: Knowledge Inference on N-ary Facts*

Saiping Guan, Xiaolong Jin, Jiafeng Guo, Yuanzhuo Wang and Xueqi Cheng

*[Short] Neural Graph Matching Networks for Chinese Short Text Matching*

Lu Chen, Yanbin Zhao, Boer Lyu, Lesheng Jin, Zhi Chen, Su Zhu and Kai Yu

*[Long] Neural Mixed Counting Models for Dispersed Topic Discovery*

Jiemin Wu, Yanghui Rao, Zusheng Zhang, Haoran Xie, Qing Li, Fu Lee Wang and Ziyi Chen

*[Long] Reasoning Over Semantic-Level Graph for Fact Checking*

Wanjun Zhong, Jingjing Xu, Duyu Tang, Zenan Xu, Nan Duan, Ming Zhou, Jiahai Wang and Jian Yin

Wednesday, July 8, 2020 UTC+0 (continued)

**05:00–06:00 Session 11A Summarization-6**

*[Long] Automatic Generation of Citation Texts in Scholarly Papers: A Pilot Study*

Xinyu Xing, Xiaosheng Fan and Xiaojun Wan

*[Short] Composing Elementary Discourse Units in Abstractive Summarization*

Zhenwen Li, Wenhao Wu and Sujian Li

*[Long] Extractive Summarization as Text Matching*

Ming Zhong, Pengfei Liu, Yiran Chen, Danqing Wang, Xipeng Qiu and Xuanjing Huang

*[Long] Heterogeneous Graph Neural Networks for Extractive Document Summarization*

Danqing Wang, Pengfei Liu, Yining Zheng, Xipeng Qiu and Xuanjing Huang

*[Long] Jointly Learning to Align and Summarize for Neural Cross-Lingual Summarization*

Yue Cao, Hui Liu and Xiaojun Wan

*[Long] Leveraging Graph to Improve Abstractive Multi-Document Summarization*

Wei Li, Xinyan Xiao, Jiachen Liu, Hua Wu, Haifeng Wang and Junping Du

*[Long] Multi-Granularity Interaction Network for Extractive and Abstractive Multi-Document Summarization*

Hanqi Jin, Tianming Wang and Xiaojun Wan



Wednesday, July 8, 2020 UTC+0 (continued)

**05:00–06:00    Session 11A Syntax: Tagging, Chunking and Parsing-4**

*[Short] Tetra-Tagging: Word-Synchronous Parsing with Linear-Time Inference*

Nikita Kitaev and Dan Klein

**05:00–06:00    Session 11A Theme-3**

*[Short] Are we Estimating or Guesstimating Translation Quality?*

Shuo Sun, Francisco Guzmán and Lucia Specia

*[Long] Language (Re)modelling: Towards Embodied Language Understanding*

Ronen Tamari, Chen Shani, Tom Hope, Miriam R L Petruck, Omri Abend and Dafna Shahaf

*[Long] The State and Fate of Linguistic Diversity and Inclusion in the NLP World*

Pratik Joshi, Sebastin Santy, Amar Budhiraja, Kalika Bali and Monojit Choudhury

*[Long] The Unstoppable Rise of Computational Linguistics in Deep Learning*

James Henderson

*[Long] To Boldly Query What No One Has Annotated Before? The Frontiers of Corpus Querying*

Markus Gärtner and Kerstin Jung

Wednesday, July 8, 2020 UTC+0 (continued)

**05:00–06:00 Session 11A Student Research Workshop**

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

Yusu Qian

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

Miaomiao Yu, Yujiu Yang and Chenhui Li

*[SRW] Considering Likelihood in NLP Classification Explanations with Occlusion and Language Modeling*

David Harbecke and Christoph Alt

**05:45–06:30 Demo Session 1B**

*[Demo] Clinical-Coder: Assigning Interpretable ICD-10 Codes to Chinese Clinical Notes*

Pengfei Cao, Chenwei Yan, Xiangling Fu, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong

*[Demo] ESPnet-ST: All-in-One Speech Translation Toolkit*

Hirofumi Inaguma, Shun Kiyono, Kevin Duh, Shigeki Karita, Nelson Yalta, Tomoki Hayashi and Shinji Watanabe

**06:00–07:00 Session 11B Dialogue and Interactive Systems-14**

*[Long] A Contextual Hierarchical Attention Network with Adaptive Objective for Dialogue State Tracking*

Yong Shan, Zekang Li, Jinchao Zhang, Fandong Meng, Yang Feng, Cheng Niu and Jie Zhou

*[Long] Data Manipulation: Towards Effective Instance Learning for Neural Dialogue Generation via Learning to Augment and Reweight*

Hengyi Cai, Hongshen Chen, Yonghao Song, Cheng Zhang, Xiaofang Zhao and Dawei Yin

*[Long] Dynamic Fusion Network for Multi-Domain End-to-end Task-Oriented Dialog*

Libo Qin, Xiao Xu, Wanxiang Che, Yue Zhang and Ting Liu

*[Long] Learning Efficient Dialogue Policy from Demonstrations through Shaping*

Huimin Wang, Baolin Peng and Kam-Fai Wong

*[Long] SAS: Dialogue State Tracking via Slot Attention and Slot Information Sharing*

Jiaying Hu, Yan Yang, Chencai Chen, liang he and Zhou Yu

Wednesday, July 8, 2020 UTC+0 (continued)

*[Long] Speaker Sensitive Response Evaluation Model*

JinYeong Bak and Alice Oh

**06:00–07:00 Session 11B Discourse and Pragmatics-6**

*[Long] A Top-down Neural Architecture towards Text-level Parsing of Discourse Rhetorical Structure*

Longyin Zhang, Yuqing Xing, Fang Kong, Peifeng Li and Guodong Zhou

*[TACL] Unsupervised Discourse Constituency Parsing Using Viterbi EM*

Noriki Nishida, Hideki Nakayama

**06:00–07:00 Session 11B Information Extraction-4**

*[Long] Amalgamation of protein sequence, structure and textual information for improving protein-protein interaction identification*

pratik Dutta and Sriparna Saha

*[Long] Bipartite Flat-Graph Network for Nested Named Entity Recognition*

Ying Luo and Hai Zhao

*[Long] Connecting Embeddings for Knowledge Graph Entity Typing*

Yu Zhao, anxiang zhang, Ruobing Xie, Kang Liu and Xiaojie WANG

*[Long] Continual Relation Learning via Episodic Memory Activation and Reconsolidation*

Xu Han, Yi Dai, Tianyu Gao, Yankai Lin, Zhiyuan Liu, Peng Li, Maosong Sun and Jie Zhou

*[Long] Handling Rare Entities for Neural Sequence Labeling*

Yangming Li, Han Li, Kaisheng Yao and Xiaolong Li

*[Short] Instance-Based Learning of Span Representations: A Case Study through Named Entity Recognition*

Hiroki Ouchi, Jun Suzuki, Sosuke Kobayashi, Sho Yokoi, Tatsuki Kuribayashi, Ryuto Konno and Kentaro Inui

*[Long] MIE: A Medical Information Extractor towards Medical Dialogues*

Yuanzhe Zhang, Zhongtao Jiang, Tao Zhang, Shiwan Liu, Jiarun Cao, Kang Liu, Shengping Liu and Jun Zhao

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Short] Named Entity Recognition as Dependency Parsing*

Juntao Yu, Bernd Bohnet and Massimo Poesio

*[Long] Neighborhood Matching Network for Entity Alignment*

Yuting Wu, Xiao Liu, Yansong Feng, Zheng Wang and Dongyan Zhao

*[Short] Relation Extraction with Explanation*

Hamed Shahbazi, Xiaoli Fern, Reza Ghaeini and Prasad Tadepalli

*[Long] Representation Learning for Information Extraction from Form-like Documents*

Bodhisattwa Prasad Majumder, Navneet Potti, Sandeep Tata, James Bradley Wendt, Qi Zhao and Marc Najork

*[Long] Single-/Multi-Source Cross-Lingual NER via Teacher-Student Learning on Unlabeled Data in Target Language*

Qianhui Wu, Zijia Lin, Börje Karlsson, Jian-Guang LOU and Biqing Huang

*[Long] Synchronous Double-channel Recurrent Network for Aspect-Opinion Pair Extraction*

Shaowei Chen, Jie Liu, Yu Wang, Wenzheng Zhang and Ziming Chi

**06:00–07:00 Session 11B Language Grounding to Vision, Robotics and Beyond-5**

*[Long] Cross-modal Coherence Modeling for Caption Generation*

Malihe Alikhani, Piyush Sharma, Shengjie Li, Radu Soricut and Matthew Stone

*[Short] Knowledge Supports Visual Language Grounding: A Case Study on Colour Terms*

Simeon Schüz and Sina Zarriß

*[Long] Span-based Localizing Network for Natural Language Video Localization*

Hao Zhang, Aixin Sun, Wei Jing and Joey Tianyi Zhou

*[Short] Words Aren't Enough, Their Order Matters: On the Robustness of Grounding Visual Referring Expressions*

Arjun Akula, Spandana Gella, Yaser Al-Onaizan, Song-Chun Zhu and Siva Reddy

Wednesday, July 8, 2020 UTC+0 (continued)

**06:00–07:00 Session 11B Machine Learning for NLP-12**

*[Long] A Mixture of  $h - 1$  Heads is Better than  $h$  Heads*

Hao Peng, Roy Schwartz, Dianqi Li and Noah A. Smith

*[Long] Dependency Graph Enhanced Dual-transformer Structure for Aspect-based Sentiment Classification*

Hao Tang, Donghong Ji, Chenliang Li and Qiji Zhou

*[Long] Differentiable Window for Dynamic Local Attention*

Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li

*[Long] Evaluating and Enhancing the Robustness of Neural Network-based Dependency Parsing Models with Adversarial Examples*

Xiaoqing Zheng, Jiehang Zeng, Yi Zhou, Cho-Jui Hsieh, Minhao Cheng and Xuan-jing Huang

*[Long] Exploiting Syntactic Structure for Better Language Modeling: A Syntactic Distance Approach*

Wenyu Du, Zhouhan Lin, Yikang Shen, Timothy J. O'Donnell, Yoshua Bengio and Yue Zhang

*[Long] Learning Architectures from an Extended Search Space for Language Modeling*

Yinqiao Li, Chi Hu, Yuhao Zhang, Nuo Xu, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li

*[Long] The Right Tool for the Job: Matching Model and Instance Complexities*

Roy Schwartz, Gabriel Stanovsky, Swabha Swayamdipta, Jesse Dodge and Noah A. Smith

Wednesday, July 8, 2020 UTC+0 (continued)

**06:00–07:00 Session 11B Phonology, Morphology and Word Segmentation-3**

*[Long] Bootstrapping Techniques for Polysynthetic Morphological Analysis*

William Lane and Steven Bird

*[Long] Coupling Distant Annotation and Adversarial Training for Cross-Domain Chinese Word Segmentation*

Ning Ding, Dingkun Long, Guangwei Xu, Muhua Zhu, Pengjun Xie, Xiaobin Wang and Haitao Zheng

*[Long] Modeling Morphological Typology for Unsupervised Learning of Language Morphology*

Hongzhi Xu, Jordan Kodner, Mitchell Marcus and Charles Yang

*[Long] Predicting Declension Class from Form and Meaning*

Adina Williams, Tiago Pimentel, Hagen Blix, Arya D. McCarthy, Eleanor Chodroff and Ryan Cotterell

*[Long] Unsupervised Morphological Paradigm Completion*

Huiming Jin, Liwei Cai, Yihui Peng, Chen Xia, Arya McCarthy and Katharina Kann

**06:00–07:00 Session 11B Question Answering-9**

*[Long] Document Modeling with Graph Attention Networks for Multi-grained Machine Reading Comprehension*

Bo Zheng, Haoyang Wen, Yaobo Liang, Nan Duan, Wanxiang Che, Daxin Jiang, Ming Zhou and Ting Liu

*[Long] Harvesting and Refining Question-Answer Pairs for Unsupervised QA*

Zhongli Li, Wenhui Wang, Li Dong, Furu Wei and Ke Xu

*[Long] Low-Resource Generation of Multi-hop Reasoning Questions*

Jianxing Yu, Wei Liu, Shuang Qiu, Qinliang Su, Kai Wang, Xiaojun Quan and Jian Yin

*[Short] R4C: A Benchmark for Evaluating RC Systems to Get the Right Answer for the Right Reason*

Naoya Inoue, Pontus Stenetorp and Kentaro Inui

*[Long] Recurrent Chunking Mechanisms for Long-Text Machine Reading Comprehension*

Hongyu Gong, Yelong Shen, Dian Yu, Jianshu Chen and Dong Yu

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] RikiNet: Reading Wikipedia Pages for Natural Question Answering*  
Dayiheng Liu, Yeyun Gong, Jie Fu, Yu Yan, Jiusheng Chen, Daxin Jiang, Jiancheng Lv and Nan Duan

**06:00–07:00 Session 11B Semantics: Sentence Level-6**

*[TACL] AMR-To-Text Generation with Graph Transformer*  
Tianming Wang, Xiaojun Wan, Hanqi Jin

*[Long] Parsing into Variable-in-situ Logico-Semantic Graphs*  
Yufei Chen and Weiwei Sun

*[Long] Semantic Parsing for English as a Second Language*  
Yuanyuan Zhao, Weiwei Sun, junjie cao and Xiaojun Wan

*[Long] Semi-Supervised Semantic Dependency Parsing Using CRF Autoencoders*  
Zixia Jia, Youmi Ma, Jiong Cai and Kewei Tu

*[Long] Unsupervised Dual Paraphrasing for Two-stage Semantic Parsing*  
Ruisheng Cao, Su Zhu, Chenyu Yang, Chen Liu, Rao Ma, Yanbin Zhao, Lu Chen and Kai Yu

**06:00–07:00 Session 11B Student Research Workshop**

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

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

**Wednesday, July 8, 2020 UTC+0 (continued)**

**06:30–07:15 Demo Session 1C**

*[Demo] Penman: An Open-Source Library and Tool for AMR Graphs*  
Michael Wayne Goodman

**08:00–08:45 Demo Session 2A**

*[Demo] Embedding-based Scientific Literature Discovery in a Text Editor Application*  
Onur Gökçe, Jonathan Prada, Nikola I. Nikolov, Nianlong Gu and Richard H.R. Hahnloser

**08:00–09:00 Session 12A Discourse and Pragmatics-7**

*[Long] A Top-down Neural Architecture towards Text-level Parsing of Discourse Rhetorical Structure*  
Longyin Zhang, Yuqing Xing, Fang Kong, Peifeng Li and Guodong Zhou

*[Long] DRTS Parsing with Structure-Aware Encoding and Decoding*  
Qiankun Fu, Yue Zhang, Jiangming Liu and Meishan Zhang

*[TACL] Unsupervised Discourse Constituency Parsing Using Viterbi EM*  
Noriki Nishida, Hideki Nakayama

**08:00–09:00 Session 12A Information Extraction-5**

*[Short] A Two-Stage Masked LM Method for Term Set Expansion*  
Guy Kushilevitz, Shaul Markovitch and Yoav Goldberg

*[Long] Amalgamation of protein sequence, structure and textual information for improving protein-protein interaction identification*  
pratik Dutta and Sriparna Saha

*[Short] FLAT: Chinese NER Using Flat-Lattice Transformer*  
Xiaonan Li, Hang Yan, Xipeng Qiu and Xuanjing Huang

*[Long] IMoJIE: Iterative Memory-Based Joint Open Information Extraction*  
Keshav Kolluru, Samarth Aggarwal, Vipul Rathore, Mausam and Soumen Chakrabarti



Wednesday, July 8, 2020 UTC+0 (continued)

*[Short] Improving Entity Linking through Semantic Reinforced Entity Embeddings*  
Feng Hou, Ruili Wang, Jun He and Yi Zhou

*[Long] Improving Event Detection via Open-domain Trigger Knowledge*  
Meihan Tong, Bin Xu, Shuai Wang, Yixin Cao, Lei Hou, Juanzi Li and Jun Xie

*[Short] Improving Low-Resource Named Entity Recognition using Joint Sentence and Token Labeling*  
Canasai Kruengkrai, Thien Hai Nguyen, Sharifah Mahani Aljunied and Lidong Bing

*[Long] MIE: A Medical Information Extractor towards Medical Dialogues*  
Yuanzhe Zhang, Zhongtao Jiang, Tao Zhang, Shiwang Liu, Jiarun Cao, Kang Liu, Shengping Liu and Jun Zhao

*[Long] Multi-Cell Compositional LSTM for NER Domain Adaptation*  
Chen Jia and Yue Zhang

*[Long] Neighborhood Matching Network for Entity Alignment*  
Yuting Wu, Xiao Liu, Yansong Feng, Zheng Wang and Dongyan Zhao

*[Long] Pyramid: A Layered Model for Nested Named Entity Recognition*  
Jue WANG, Lidan Shou, Ke Chen and Gang Chen

*[Long] ReInceptionE: Relation-Aware Inception Network with Joint Local-Global Structural Information for Knowledge Graph Embedding*  
Zhiwen Xie, Guangyou Zhou, Jin Liu and Jimmy Xiangji Huang

*[Long] Relabel the Noise: Joint Extraction of Entities and Relations via Cooperative Multiagents*  
Daoyuan Chen, Yaliang Li, Kai Lei and Ying Shen

*[Long] Simplify the Usage of Lexicon in Chinese NER*  
Ruotian Ma, Minlong Peng, Qi Zhang, Zhongyu Wei and Xuanjing Huang

Wednesday, July 8, 2020 UTC+0 (continued)

**08:00–09:00 Session 12A Information Retrieval and Text Mining-6**

*[Long] Document Translation vs. Query Translation for Cross-Lingual Information Retrieval in the Medical Domain*

Shadi Saleh and Pavel Pecina

*[Short] Learning Robust Models for e-Commerce Product Search*

Thanh Nguyen, Nikhil Rao and Karthik Subbian

**08:00–09:00 Session 12A Machine Learning for NLP-13**

*[Long] Dependency Graph Enhanced Dual-transformer Structure for Aspect-based Sentiment Classification*

Hao Tang, Donghong Ji, Chenliang Li and Qiji Zhou

*[Long] Differentiable Window for Dynamic Local Attention*

Thanh-Tung Nguyen, Xuan-Phi Nguyen, Shafiq Joty and Xiaoli Li

*[Long] Generalized Entropy Regularization or: There's Nothing Special about Label Smoothing*

Clara Meister, Elizabeth Salesky and Ryan Cotterell

*[Long] Highway Transformer: Self-Gating Enhanced Self-Attentive Networks*

Yekun Chai, Shuo Jin and Xinwen Hou

*[Long] Low-Dimensional Hyperbolic Knowledge Graph Embeddings*

Ines Chami, Adva Wolf, Da-Cheng Juan, Frederic Sala, Sujith Ravi and Christopher Ré

Wednesday, July 8, 2020 UTC+0 (continued)

**08:00–09:00 Session 12A Machine Translation-14**

*[Long] AdvAug: Robust Adversarial Augmentation for Neural Machine Translation*

Yong Cheng, Lu Jiang, Wolfgang Macherey and Jacob Eisenstein

*[Short] Classification-Based Self-Learning for Weakly Supervised Bilingual Lexicon Induction*

Mladen Karan, Ivan Vulić, Anna Korhonen and Goran Glavaš

*[Short] Contextual Neural Machine Translation Improves Translation of Cataphoric Pronouns*

KayYen Wong, Sameen Maruf and Gholamreza Haffari

*[Long] Gender in Danger? Evaluating Speech Translation Technology on the MuST-SHE Corpus*

Luisa Bentivogli, Beatrice Savoldi, Matteo Negri, Mattia A. Di Gangi, Roldano Cattoni and Marco Turchi

*[Long] Improving Neural Machine Translation with Soft Template Prediction*

Jian Yang, Shuming Ma, Dongdong Zhang, Zhoujun Li and Ming Zhou

*[Long] Uncertainty-Aware Curriculum Learning for Neural Machine Translation*

Yikai Zhou, Baosong Yang, Derek F. Wong, Yu Wan and Lidia S. Chao

*[Short] Worse WER, but Better BLEU? Leveraging Word Embedding as Intermediate in Multitask End-to-End Speech Translation*

Shun-Po Chuang, Tzu-Wei Sung, Alexander H. Liu and Hung-yi Lee

Wednesday, July 8, 2020 UTC+0 (continued)

**08:00–09:00 Session 12A NLP Applications-9**

*[Short] Closing the Gap: Joint De-Identification and Concept Extraction in the Clinical Domain*

Lukas Lange, Heike Adel and Jannik Strötgen

*[Long] CorefQA: Coreference Resolution as Query-based Span Prediction*

Wei Wu, Fei Wang, Arianna Yuan, Fei Wu and Jiwei Li

*[Long] Estimating predictive uncertainty for rumour verification models*

Elena Kochkina and Maria Liakata

*[Long] From Zero to Hero: Human-In-The-Loop Entity Linking in Low Resource Domains*

Jan-Christoph Klie, Richard Eckart de Castilho and Iryna Gurevych

*[Long] Language to Network: Conditional Parameter Adaptation with Natural Language Descriptions*

Tian Jin, Zhun Liu, Shengjia Yan, Alexandre Eichenberger and Louis-Philippe Morency

*[Short] Neural-DINF: A Neural Network based Framework for Measuring Document Influence*

Jie Tan, Changlin Yang, Ying Li, Siliang Tang, Chen Huang and Yueting Zhuang

**08:00–09:00 Session 12A Semantics: Sentence Level-7**

*[TACL] AMR-To-Text Generation with Graph Transformer*

Tianming Wang, Xiaojun Wan, Hanqi Jin

*[Short] Controlled Crowdsourcing for High-Quality QA-SRL Annotation*

Paul Roit, Ayal Klein, Daniela Stepanov, Jonathan Mamou, Julian Michael, Gabriel Stanovsky, Luke Zettlemoyer and Ido Dagan

*[Long] Cross-Lingual Semantic Role Labeling with High-Quality Translated Training Corpus*

Hao Fei, Meishan Zhang and Donghong Ji

*[Long] Semantic Parsing for English as a Second Language*

Yuanyuan Zhao, Weiwei Sun, junjie cao and Xiaojun Wan

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Short] Sentence Meta-Embeddings for Unsupervised Semantic Textual Similarity*

Nina Poerner, Ulli Waltinger and Hinrich Schütze

*[Long] Transition-based Semantic Dependency Parsing with Pointer Networks*

Daniel Fernández-González and Carlos Gómez-Rodríguez

*[Long] Unsupervised Dual Paraphrasing for Two-stage Semantic Parsing*

Ruisheng Cao, Su Zhu, Chenyu Yang, Chen Liu, Rao Ma, Yanbin Zhao, Lu Chen and Kai Yu

*[Long] Word-level Textual Adversarial Attacking as Combinatorial Optimization*

Yuan Zang, Fanchao Qi, Chenghao Yang, Zhiyuan Liu, Meng Zhang, Qun Liu and Maosong Sun

*[Short] tBERT: Topic Models and BERT Joining Forces for Semantic Similarity Detection*

Nicole Peinelt, Dong Nguyen and Maria Liakata

**08:00–09:00    Session 12A Sentiment Analysis, Stylistic Analysis, and Argument Mining-10**

*[Long] Conditional Augmentation for Aspect Term Extraction via Masked Sequence-to-Sequence Generation*

Kun Li, Chengbo Chen, Xiaojun Quan, Qing Ling and Yan Song

*[Short] Exploiting Personal Characteristics of Debaters for Predicting Persuasiveness*

Khalid Al Khatib, Michael Völske, Shahbaz Syed, Nikolay Kolyada and Benno Stein

*[Long] Out of the Echo Chamber: Detecting Countering Debate Speeches*

Matan Orbach, Yonatan Bilu, Assaf Toledo, Dan Lahav, Michal Jacovi, Ranit Aharonov and Noam Slonim

Wednesday, July 8, 2020 UTC+0 (continued)

**08:00–09:00 Session 12A Summarization-7**

*[Long] Automatic Generation of Citation Texts in Scholarly Papers: A Pilot Study*

Xinyu Xing, Xiaosheng Fan and Xiaojun Wan

*[Short] Composing Elementary Discourse Units in Abstractive Summarization*

Zhenwen Li, Wenhao Wu and Sujian Li

*[Long] Extractive Summarization as Text Matching*

Ming Zhong, Pengfei Liu, Yiran Chen, Danqing Wang, Xipeng Qiu and Xuanjing Huang

*[Long] Heterogeneous Graph Neural Networks for Extractive Document Summarization*

Danqing Wang, Pengfei Liu, Yining Zheng, Xipeng Qiu and Xuanjing Huang

*[Long] Jointly Learning to Align and Summarize for Neural Cross-Lingual Summarization*

Yue Cao, Hui Liu and Xiaojun Wan

*[Long] Leveraging Graph to Improve Abstractive Multi-Document Summarization*

Wei Li, Xinyan Xiao, Jiachen Liu, Hua Wu, Haifeng Wang and Junping Du

*[Long] Multi-Granularity Interaction Network for Extractive and Abstractive Multi-Document Summarization*

Hanqi Jin, Tianming Wang and Xiaojun Wan

Wednesday, July 8, 2020 UTC+0 (continued)

**08:00–09:00 Session 12A Student Research Workshop**

*[SRW] Zero-shot North Korean to English Neural Machine Translation by Character Tokenization and Phoneme Decomposition*

Hwichan Kim, Tosho Hirasawa and Mamoru Komachi

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

*[SRW] uBLEU: Uncertainty-Aware Automatic Evaluation Method for Open-Domain Dialogue Systems*

Tsuta Yuma, Naoki Yoshinaga and Masashi Toyoda

**08:45–09:30 Demo Session 2B**

*[Demo] MMPE: A Multi-Modal Interface using Handwriting, Touch Reordering, and Speech Commands for Post-Editing Machine Translation*

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

**09:00–10:00 Session 12B Dialogue and Interactive Systems-15**

*[Long] Data Manipulation: Towards Effective Instance Learning for Neural Dialogue Generation via Learning to Augment and Reweight*

Hengyi Cai, Hongshen Chen, Yonghao Song, Cheng Zhang, Xiaofang Zhao and Dawei Yin

*[Long] Diverse and Informative Dialogue Generation with Context-Specific Commonsense Knowledge Awareness*

Sixing Wu, Ying Li, Dawei Zhang, Yang Zhou and Zhonghai Wu

*[Long] Diversifying Dialogue Generation with Non-Conversational Text*

Hui Su, Xiaoyu Shen, Sanqiang Zhao, Zhou Xiao, Pengwei Hu, Randy Zhong, Cheng Niu and Jie Zhou

*[Long] Generate, Delete and Rewrite: A Three-Stage Framework for Improving Persona Consistency of Dialogue Generation*

Haoyu Song, Yan Wang, Wei-Nan Zhang, Xiaojiang Liu and Ting Liu

*[Long] KdConv: A Chinese Multi-domain Dialogue Dataset Towards Multi-turn Knowledge-driven Conversation*

Hao Zhou, Chujie Zheng, Kaili Huang, Minlie Huang and Xiaoyan Zhu

*[Long] Learning Efficient Dialogue Policy from Demonstrations through Shaping*

Huimin Wang, Baolin Peng and Kam-Fai Wong

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] Meta-Reinforced Multi-Domain State Generator for Dialogue Systems*

Yi Huang, Junlan Feng, Min Hu, Xiaoting Wu, Xiaoyu Du and Shuo Ma

*[Short] Modeling Long Context for Task-Oriented Dialogue State Generation*

Jun Quan and Deyi Xiong

*[Long] Multi-Domain Dialogue Acts and Response Co-Generation*

Kai Wang, Junfeng Tian, Rui Wang, Xiaojun Quan and Jianxing Yu

*[Long] SAS: Dialogue State Tracking via Slot Attention and Slot Information Sharing*

Jiaying Hu, Yan Yang, Chencai Chen, liang he and Zhou Yu

*[Short] Video-Grounded Dialogues with Pretrained Generation Language Models*

Hung Le and Steven C.H. Hoi

**09:00–10:00 Session 12B Generation-11**

*[Long] Exploring Contextual Word-level Style Relevance for Unsupervised Style Transfer*

Chulun Zhou, Liangyu Chen, Jiachen Liu, Xinyan Xiao, Jinsong Su, Sheng Guo and Hua Wu

*[Long] Heterogeneous Graph Transformer for Graph-to-Sequence Learning*

Shaowei Yao, Tianming Wang and Xiaojun Wan

*[Long] Neural Data-to-Text Generation via Jointly Learning the Segmentation and Correspondence*

Xiaoyu Shen, Ernie Chang, Hui Su, Cheng Niu and Dietrich Klakow



Wednesday, July 8, 2020 UTC+0 (continued)

**09:00–10:00 Session 12B Information Extraction-6**

*[Long] An Effective Transition-based Model for Discontinuous NER*

Xiang Dai, Sarvnaz Karimi, Ben Hachey and Cecile Paris

*[Long] Connecting Embeddings for Knowledge Graph Entity Typing*

Yu Zhao, anxiang zhang, Ruobing Xie, Kang Liu and Xiaojie WANG

*[Long] Handling Rare Entities for Neural Sequence Labeling*

Yangming Li, Han Li, Kaisheng Yao and Xiaolong Li

*[Short] Instance-Based Learning of Span Representations: A Case Study through Named Entity Recognition*

Hiroki Ouchi, Jun Suzuki, Sosuke Kobayashi, Sho Yokoi, Tatsuki Kuribayashi, Ryuto Konno and Kentaro Inui

*[Short] Named Entity Recognition as Dependency Parsing*

Juntao Yu, Bernd Bohnet and Massimo Poesio

**09:00–10:00 Session 12B Language Grounding to Vision, Robotics and Beyond-6**

*[Long] Aligned Dual Channel Graph Convolutional Network for Visual Question Answering*

Qingbao Huang, Jielong Wei, Yi Cai, Changmeng Zheng, Junying Chen, Ho-fung Leung and Qing Li

*[Long] Cross-modal Coherence Modeling for Caption Generation*

Malihe Alikhani, Piyush Sharma, Shengjie Li, Radu Soricut and Matthew Stone

*[Long] Multimodal Neural Graph Memory Networks for Visual Question Answering*

Mahmoud Khademi

*[Long] Refer360°: A Referring Expression Recognition Dataset in 360° Images*

Volkan Cirik, Taylor Berg-Kirkpatrick and Louis-Philippe Morency

*[Long] Span-based Localizing Network for Natural Language Video Localization*

Hao Zhang, Aixin Sun, Wei Jing and Joey Tianyi Zhou

Wednesday, July 8, 2020 UTC+0 (continued)

**09:00–10:00 Session 12B Machine Learning for NLP-14**

*[Long] CamemBERT: a Tasty French Language Model*

Louis Martin, Benjamin Muller, Pedro Javier Ortiz Suárez, Yoann Dupont, Laurent Romary, Éric de la Clergerie, Djamé Seddah and Benoît Sagot

*[Long] Effective Estimation of Deep Generative Language Models*

Tom Pelsmaecker and Wilker Aziz

*[Long] Evaluating and Enhancing the Robustness of Neural Network-based Dependency Parsing Models with Adversarial Examples*

Xiaoqing Zheng, Jiehang Zeng, Yi Zhou, Cho-Jui Hsieh, Minhao Cheng and Xuan-jing Huang

*[Long] Learning Architectures from an Extended Search Space for Language Modeling*

Yinqiao Li, Chi Hu, Yuhao Zhang, Nuo Xu, Yufan Jiang, Tong Xiao, Jingbo Zhu, Tongran Liu and changliang li

*[Long] Null It Out: Guarding Protected Attributes by Iterative Nullspace Projection*

Shauli Ravfogel, Yanai Elazar, Hila Gonen, Michael Twiton and Yoav Goldberg

**09:00–10:00 Session 12B Phonology, Morphology and Word Segmentation-4**

*[Long] 2kenize: Tying Subword Sequences for Chinese Script Conversion*

Pranav A and Isabelle Augenstein

*[Long] Bootstrapping Techniques for Polysynthetic Morphological Analysis*

William Lane and Steven Bird

*[Long] Coupling Distant Annotation and Adversarial Training for Cross-Domain Chinese Word Segmentation*

Ning Ding, Dingkun Long, Guangwei Xu, Muhua Zhu, Pengjun Xie, Xiaobin Wang and Haitao Zheng

*[Long] Modeling Morphological Typology for Unsupervised Learning of Language Morphology*

Hongzhi Xu, Jordan Kodner, Mitchell Marcus and Charles Yang

*[Long] Predicting Declension Class from Form and Meaning*

Adina Williams, Tiago Pimentel, Hagen Blix, Arya D. McCarthy, Eleanor Chodroff and Ryan Cotterell

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] Predicting the Growth of Morphological Families from Social and Linguistic Factors*

Valentin Hofmann, Janet Pierrehumbert and Hinrich Schütze

*[Long] Semi-supervised Contextual Historical Text Normalization*

Peter Makarov and Simon Clematide

**09:00–10:00    Session 12B Question Answering-10**

*[Short] ClarQ: A large-scale and diverse dataset for Clarification Question Generation*

Vaibhav Kumar and Alan W Black

*[Long] DoQA - Accessing Domain-Specific FAQs via Conversational QA*

Jon Ander Campos, Arantxa Otegi, Aitor Soroa, Jan Deriu, Mark Cieliebak and Eneko Agirre

*[Long] Harvesting and Refining Question-Answer Pairs for Unsupervised QA*

Zhongli Li, Wenhui Wang, Li Dong, Furu Wei and Ke Xu

*[Long] MLQA: Evaluating Cross-lingual Extractive Question Answering*

Patrick Lewis, Barlas Oguz, Ruty Rinott, Sebastian Riedel and Holger Schwenk

*[Long] Multi-source Meta Transfer for Low Resource Multiple-Choice Question Answering*

Ming Yan, Hao Zhang, Di Jin and Joey Tianyi Zhou

*[Long] RikiNet: Reading Wikipedia Pages for Natural Question Answering*

Dayiheng Liu, Yeyun Gong, Jie Fu, Yu Yan, Jiusheng Chen, Daxin Jiang, Jiancheng Lv and Nan Duan

Wednesday, July 8, 2020 UTC+0 (continued)

**09:00–10:00 Session 12B Semantics: Textual Inference and Other Areas of Semantics-4**

*[Long] Do Neural Models Learn Systematicity of Monotonicity Inference in Natural Language?*

Hitomi Yanaka, Koji Mineshima, Daisuke Bekki and Kentaro Inui

*[Long] Fine-grained Fact Verification with Kernel Graph Attention Network*

Zhenghao Liu, Chenyan Xiong, Maosong Sun and Zhiyuan Liu

*[Long] Generating Fact Checking Explanations*

Pepa Atanasova, Jakob Grue Simonsen, Christina Lioma and Isabelle Augenstein

*[Long] How to Ask Good Questions? Try to Leverage Paraphrases*

Xin Jia, Wenjie Zhou, Xu SUN and Yunfang Wu

*[Long] Premise Selection in Natural Language Mathematical Texts*

Deborah Ferreira and André Freitas

**09:00–10:00 Session 12B Theme-4**

*[Long] A Call for More Rigor in Unsupervised Cross-lingual Learning*

Mikel Artetxe, Sebastian Ruder, Dani Yogatama, Gorka Labaka and Eneko Agirre

*[Short] A Tale of a Probe and a Parser*

Rowan Hall Maudslay, Josef Valvoda, Tiago Pimentel, Adina Williams and Ryan Cotterell

*[Long] From SPMRL to NMRL: What Did We Learn (and Unlearn) in a Decade of Parsing Morphologically-Rich Languages (MRLs)?*

Reut Tsarfaty, Dan Bareket, Stav Klein and Amit Seker

*[Long] Speech Translation and the End-to-End Promise: Taking Stock of Where We Are*

Matthias Sperber and Matthias Paulik

*[Long] The State and Fate of Linguistic Diversity and Inclusion in the NLP World*

Pratik Joshi, Sebastin Santy, Amar Budhiraja, Kalika Bali and Monojit Choudhury

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] What Question Answering can Learn from Trivia Nerds*

Jordan Boyd-Graber and Benjamin Börschinger

*[Long] What are the Goals of Distributional Semantics?*

Guy Emerson

**09:00–10:00 Session 12B Student Research Workshop**

*[SRW] Self-Attention is Not Only a Weight: Analyzing BERT with Vector Norms*

Goro Kobayashi, Tatsuki Kuribayashi, Sho Yokoi and Kentaro Inui

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

Abrehalei Frezghi Tela, Abraham Woubie Zewoudie and Ville Hautamäki

*[SRW] Adaptive Transformers for Learning Multimodal Representations*

Prajwal Bhargava

**09:30–10:15 Demo Session 2C**

*[Demo] ADVISER: A Toolkit for Developing Multi-modal, Multi-domain and Socially-engaged Conversational Agents*

Chia-Yu Li, Daniel Ortega, Dirk Văth, Florian Lux, Lindsey Vanderlyn, Maximilian Schmidt, Michael Neumann, Moritz Völkel, Pavel Denisov, Sabrina Jenne, Zorica Kacarevic and Ngoc Thang Vu

**12:00–12:45 Demo Session 3A**

*[Demo] Torch-Struct: Deep Structured Prediction Library*

Alexander Rush

*[Demo] Conversation Learner - A Machine Teaching Tool for Building Dialog Managers for Task-Oriented Dialog Systems*

Swadheen Shukla, Lars Liden, Shahin Shayandeh, Eslam Kamal, Jinchao Li, Matt Mazzola, Thomas Park, Baolin Peng and Jianfeng Gao

*[Demo] ESPnet-ST: All-in-One Speech Translation Toolkit*

Hirofumi Inaguma, Shun Kiyono, Kevin Duh, Shigeaki Karita, Nelson Yalta, Tomoki Hayashi and Shinji Watanabe

Wednesday, July 8, 2020 UTC+0 (continued)

**12:00–13:00 Session 13A Generation-12**

*[Long] Exploring Contextual Word-level Style Relevance for Unsupervised Style Transfer*

Chulun Zhou, Liangyu Chen, Jiachen Liu, Xinyan Xiao, Jinsong Su, Sheng Guo and Hua Wu

*[Long] Heterogeneous Graph Transformer for Graph-to-Sequence Learning*

Shaowei Yao, Tianming Wang and Xiaojun Wan

*[Long] Improving Image Captioning with Better Use of Caption*

Zhan Shi, Xu Zhou, Xipeng Qiu and Xiaodan Zhu

*[Long] Neural Data-to-Text Generation via Jointly Learning the Segmentation and Correspondence*

Xiaoyu Shen, Ernie Chang, Hui Su, Cheng Niu and Dietrich Klakow

*[Short] Shape of Synth to Come: Why We Should Use Synthetic Data for English Surface Realization*

Henry Elder, Robert Burke, Alexander O'Connor and Jennifer Foster

*[TACL] Syntax-guided Controlled Generation of Paraphrases*

Ashutosh Kumar, Kabir Ahuja, Raghuram Vadapalli, Partha Talukdar

*[Short] Toward Better Storylines with Sentence-Level Language Models*

Daphne Ippolito, David Grangier, Douglas Eck and Chris Callison-Burch

Wednesday, July 8, 2020 UTC+0 (continued)

**12:00–13:00 Session 13A Information Extraction-7**

*[Short] A Two-Step Approach for Implicit Event Argument Detection*

Zhisong Zhang, Xiang Kong, Zhengzhong Liu, Xuezhe Ma and Eduard Hovy

*[Long] A Unified MRC Framework for Named Entity Recognition*

Xiaoya Li, Jingrong Feng, Yuxian Meng, Qinghong Han, Fei Wu and Jiwei Li

*[Long] Continual Relation Learning via Episodic Memory Activation and Reconsolidation*

Xu Han, Yi Dai, Tianyu Gao, Yankai Lin, Zhiyuan Liu, Peng Li, Maosong Sun and Jie Zhou

*[TACL] Improving Candidate Generation for Low-resource Cross-lingual Entity Linking*

Shuyan Zhou, Shruti Rijhwani, John Wieting, Jaime Carbonell, Graham Neubig

*[Short] Improving Entity Linking through Semantic Reinforced Entity Embeddings*

Feng Hou, Ruili Wang, Jun He and Yi Zhou

*[Long] Machine Reading of Historical Events*

Or Honovich, Lucas Torroba Hennigen, Omri Abend and Shay B. Cohen

*[Short] Relation Extraction with Explanation*

Hamed Shahbazi, Xiaoli Fern, Reza Ghaeini and Prasad Tadepalli

*[Short] Revisiting Unsupervised Relation Extraction*

Thy Thy Tran, Phong Le and Sophia Ananiadou

*[Long] SciREX: A Challenge Dataset for Document-Level Information Extraction*

Sarthak Jain, Madeleine van Zuylen, Hannaneh Hajishirzi and Iz Beltagy

*[Long] Single-/Multi-Source Cross-Lingual NER via Teacher-Student Learning on Unlabeled Data in Target Language*

Qianhui Wu, Zijia Lin, Börje Karlsson, Jian-Guang LOU and Biqing Huang

*[Long] Synchronous Double-channel Recurrent Network for Aspect-Opinion Pair Extraction*

Shaowei Chen, Jie Liu, Yu Wang, Wenzheng Zhang and Ziming Chi

Wednesday, July 8, 2020 UTC+0 (continued)

**12:00–13:00 Session 13A Machine Learning for NLP-15**

*[Short] Contrastive Self-Supervised Learning for Commonsense Reasoning*

Tassilo Klein and Moin Nabi

*[Short] Do Transformers Need Deep Long-Range Memory?*

Jack Rae and Ali Razavi

*[Long] Effective Estimation of Deep Generative Language Models*

Tom Pelsmaecker and Wilker Aziz

*[Long] Exploiting Syntactic Structure for Better Language Modeling: A Syntactic Distance Approach*

Wenyu Du, Zhouhan Lin, Yikang Shen, Timothy J. O'Donnell, Yoshua Bengio and Yue Zhang

*[Long] Highway Transformer: Self-Gating Enhanced Self-Attentive Networks*

Yekun Chai, Shuo Jin and Xinwen Hou

*[Long] Improving Disentangled Text Representation Learning with Information-Theoretic Guidance*

Pengyu Cheng, Martin Renqiang Min, Dinghan Shen, Christopher Malon, Yizhe Zhang, Yitong Li and Lawrence Carin

*[Long] Low-Dimensional Hyperbolic Knowledge Graph Embeddings*

Ines Chami, Adva Wolf, Da-Cheng Juan, Frederic Sala, Sujith Ravi and Christopher Ré

*[Long] Null It Out: Guarding Protected Attributes by Iterative Nullspace Projection*

Shauli Ravfogel, Yanai Elazar, Hila Gonen, Michael Twiton and Yoav Goldberg



Wednesday, July 8, 2020 UTC+0 (continued)

**12:00–13:00 Session 13A NLP Applications-10**

*[Short] Closing the Gap: Joint De-Identification and Concept Extraction in the Clinical Domain*

Lukas Lange, Heike Adel and Jannik Strötgen

*[Long] CorefQA: Coreference Resolution as Query-based Span Prediction*

Wei Wu, Fei Wang, Arianna Yuan, Fei Wu and Jiwei Li

*[Long] From Zero to Hero: Human-In-The-Loop Entity Linking in Low Resource Domains*

Jan-Christoph Klie, Richard Eckart de Castilho and Iryna Gurevych

*[Long] Language to Network: Conditional Parameter Adaptation with Natural Language Descriptions*

Tian Jin, Zhun Liu, Shengjia Yan, Alexandre Eichenberger and Louis-Philippe Morency

*[Long] Paraphrase Generation by Learning How to Edit from Samples*

Amirhossein Kazemnejad, Mohammadreza Salehi and Mahdieh Soleymani Baghshah

*[Short] Understanding Advertisements with BERT*

Kanika Kalra, Bhargav Kurma, Silpa Vadakkeveetil Sreelatha, Manasi Patwardhan and Shirish Karande

**12:00–13:00 Session 13A Semantics: Lexical-7**

*[CL] LESSLEX: Linking Multilingual Embeddings to SenSe Representations of Lexical Items*

Davide Colla, Enrico Mensa, Daniele P. Radicioni

*[Short] Non-Linear Instance-Based Cross-Lingual Mapping for Non-Isomorphic Embedding Spaces*

Goran Glavaš and Ivan Vulić

Wednesday, July 8, 2020 UTC+0 (continued)

**12:00–13:00 Session 13A Semantics: Sentence Level-8**

*[Long] Cross-Lingual Semantic Role Labeling with High-Quality Translated Training Corpus*

Hao Fei, Meishan Zhang and Donghong Ji

*[Long] FastBERT: a Self-distilling BERT with Adaptive Inference Time*

Weijie Liu, Peng Zhou, Zhiruo Wang, Zhe Zhao, Haotang Deng and QI JU

*[Long] Good-Enough Compositional Data Augmentation*

Jacob Andreas

*[Long] LogicalFactChecker: Leveraging Logical Operations for Fact Checking with Graph Module Network*

Wanjun Zhong, Duyu Tang, Zhangyin Feng, Nan Duan, Ming Zhou, Ming Gong, Linjun Shou, Daxin Jiang, Jiahai Wang and Jian Yin

*[Long] Parsing into Variable-in-situ Logico-Semantic Graphs*

Yufei Chen and Weiwei Sun

*[Long] RAT-SQL: Relation-Aware Schema Encoding and Linking for Text-to-SQL Parsers*

Bailin Wang, Richard Shin, Xiaodong Liu, Oleksandr Polozov and Matthew Richardson

*[Long] Semi-Supervised Semantic Dependency Parsing Using CRF Autoencoders*

Zixia Jia, Youmi Ma, Jiong Cai and Kewei Tu

*[Short] Sentence Meta-Embeddings for Unsupervised Semantic Textual Similarity*

Nina Poerner, Ulli Waltinger and Hinrich Schütze

*[Long] Transition-based Semantic Dependency Parsing with Pointer Networks*

Daniel Fernández-González and Carlos Gómez-Rodríguez

*[Short] tBERT: Topic Models and BERT Joining Forces for Semantic Similarity Detection*

Nicole Peinelt, Dong Nguyen and Maria Liakata

Wednesday, July 8, 2020 UTC+0 (continued)

**12:00–13:00 Session 13A Semantics: Textual Inference and Other Areas of Semantics-5**

*[Long] Curriculum Learning for Natural Language Understanding*

Benfeng Xu, Licheng Zhang, Zhendong Mao, Quan Wang, Hongtao Xie and Yongdong Zhang

*[Long] Evidence-Aware Inferential Text Generation with Vector Quantised Variational AutoEncoder*

Daya Guo, Duyu Tang, Nan Duan, Jian Yin, Daxin Jiang and Ming Zhou

*[Long] Fine-grained Fact Verification with Kernel Graph Attention Network*

Zhenghao Liu, Chenyan Xiong, Maosong Sun and Zhiyuan Liu

*[Long] NeuInfer: Knowledge Inference on N-ary Facts*

Saiping Guan, Xiaolong Jin, Jiafeng Guo, Yuanzhuo Wang and Xueqi Cheng

*[Short] Neural Graph Matching Networks for Chinese Short Text Matching*

Lu Chen, Yanbin Zhao, Boer Lyu, Lesheng Jin, Zhi Chen, Su Zhu and Kai Yu

*[Long] Premise Selection in Natural Language Mathematical Texts*

Deborah Ferreira and André Freitas

*[Long] Reasoning Over Semantic-Level Graph for Fact Checking*

Wanjun Zhong, Jingjing Xu, Duyu Tang, Zenan Xu, Nan Duan, Ming Zhou, Jiahai Wang and Jian Yin

*[Long] Temporal Common Sense Acquisition with Minimal Supervision*

Ben Zhou, Qiang Ning, Daniel Khashabi and Dan Roth

*[Long] The Sensitivity of Language Models and Humans to Winograd Schema Perturbations*

Mostafa Abdou, Vinit Ravishankar, Maria Barrett, Yonatan Belinkov, Desmond Elliott and Anders Søgaard

Wednesday, July 8, 2020 UTC+0 (continued)

**12:00–13:00 Session 13A Sentiment Analysis, Stylistic Analysis, and Argument Mining-11**

*[Long] Conditional Augmentation for Aspect Term Extraction via Masked Sequence-to-Sequence Generation*

Kun Li, Chengbo Chen, Xiaojun Quan, Qing Ling and Yan Song

*[Short] Exploiting Personal Characteristics of Debaters for Predicting Persuasiveness*

Khalid Al Khatib, Michael Völske, Shahbaz Syed, Nikolay Kolyada and Benno Stein

*[Long] Out of the Echo Chamber: Detecting Countering Debate Speeches*

Matan Orbach, Yonatan Bilu, Assaf Toledo, Dan Lahav, Michal Jacovi, Ranit Aharonov and Noam Slonim

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

*[SRW] Pre-training via Leveraging Assisting Languages for Neural Machine Translation*

Haiyue Song, Raj Dabre, Zhuoyuan Mao, Fei Cheng, Sadao Kurohashi and Eiichiro Sumita

*[SRW] A Simple and Effective Dependency Parser for Telugu*

Sneha Nallani, Manish Shrivastava and Dipti Sharma

*[SRW] Cross-Lingual Disaster-related Multi-label Tweet Classification with Manifold Mixup*

Jishnu Ray Chowdhury, Cornelia Caragea and Doina Caragea

**12:45–13:30 Demo Session 3B**

*[Demo] Clinical-Coder: Assigning Interpretable ICD-10 Codes to Chinese Clinical Notes*

Pengfei Cao, Chenwei Yan, Xiangling Fu, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu and Weifeng Chong

*[Demo] Prta: A System to Support the Analysis of Propaganda Techniques in the News*

Giovanni Da San Martino, Shaden Shaar, Yifan Zhang, Seunghak Yu, Alberto Barrón-Cedeño and Preslav Nakov

*[Demo] NSTM: Real-Time Query-Driven News Overview Composition at Bloomberg*

Joshua Bambrick, Minjie Xu, Andy Almonte, Igor Malioutov, Guim Perarnau, Vittorio Selo and Iat Chong Chan

Wednesday, July 8, 2020 UTC+0 (continued)

**13:00–14:00 Session 13B Dialogue and Interactive Systems-16**

*[Long] A Contextual Hierarchical Attention Network with Adaptive Objective for Dialogue State Tracking*

Yong Shan, Zekang Li, Jinchao Zhang, Fandong Meng, Yang Feng, Cheng Niu and Jie Zhou

*[Long] Diversifying Dialogue Generation with Non-Conversational Text*

Hui Su, Xiaoyu Shen, Sanqiang Zhao, Zhou Xiao, Pengwei Hu, Randy Zhong, Cheng Niu and Jie Zhou

*[Long] Dynamic Fusion Network for Multi-Domain End-to-end Task-Oriented Dialog*

Libo Qin, Xiao Xu, Wanxiang Che, Yue Zhang and Ting Liu

*[Long] KdConv: A Chinese Multi-domain Dialogue Dataset Towards Multi-turn Knowledge-driven Conversation*

Hao Zhou, Chujie Zheng, Kaili Huang, Minlie Huang and Xiaoyan Zhu

*[Long] Learning to Customize Model Structures for Few-shot Dialogue Generation Tasks*

YIPING SONG, Zequn Liu, Wei Bi, Rui Yan and Ming Zhang

*[Long] Meta-Reinforced Multi-Domain State Generator for Dialogue Systems*

Yi Huang, Junlan Feng, Min Hu, Xiaoting Wu, Xiaoyu Du and Shuo Ma

*[Short] Modeling Long Context for Task-Oriented Dialogue State Generation*

Jun Quan and Deyi Xiong

*[Long] Multi-Domain Dialogue Acts and Response Co-Generation*

Kai Wang, Junfeng Tian, Rui Wang, Xiaojun Quan and Jianxing Yu

*[Long] Speaker Sensitive Response Evaluation Model*

JinYeong Bak and Alice Oh

Wednesday, July 8, 2020 UTC+0 (continued)

**13:00–14:00 Session 13B Discourse and Pragmatics-8**

*[Long] DRTS Parsing with Structure-Aware Encoding and Decoding*

Qiankun Fu, Yue Zhang, Jiangming Liu and Meishan Zhang

**13:00–14:00 Session 13B Information Extraction-8**

*[Long] Bipartite Flat-Graph Network for Nested Named Entity Recognition*

Ying Luo and Hai Zhao

*[Short] FLAT: Chinese NER Using Flat-Lattice Transformer*

Xiaonan Li, Hang Yan, Xipeng Qiu and Xuanjing Huang

*[Long] Temporally-Informed Analysis of Named Entity Recognition*

Shruti Rijhwani and Daniel Preotiuc-Pietro

*[Short] Towards Open Domain Event Trigger Identification using Adversarial Domain Adaptation*

Aakanksha Naik and Carolyn Rose

**13:00–14:00 Session 13B Language Grounding to Vision, Robotics and Beyond-7**

*[Long] Aligned Dual Channel Graph Convolutional Network for Visual Question Answering*

Qingbao Huang, Jielong Wei, Yi Cai, Changmeng Zheng, Junying Chen, Ho-fung Leung and Qing Li

*[Long] CompGuessWhat?!: A Multi-task Evaluation Framework for Grounded Language Learning*

Alessandro Suglia, Ioannis Konstas, Andrea Vanzo, Emanuele Bastianelli, Desmond Elliott, Stella Frank and Oliver Lemon

*[Long] Cross-Modality Relevance for Reasoning on Language and Vision*

Chen Zheng, Quan Guo and Parisa Kordjamshidi

*[Long] Learning Web-based Procedures by Reasoning over Explanations and Demonstrations in Context*

Shashank Srivastava, Oleksandr Polozov, Nebojsa Jojic and Christopher Meek

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] Multi-agent Communication meets Natural Language: Synergies between Functional and Structural Language Learning*

Angeliki Lazaridou, Anna Potapenko and Olivier Tieleman

*[Long] Multimodal Neural Graph Memory Networks for Visual Question Answering*

Mahmoud Khademi

**13:00–14:00 Session 13B Machine Translation-15**

*[Long] HAT: Hardware-Aware Transformers for Efficient Natural Language Processing*

Hanrui Wang, Zhanghao Wu, Zhijian Liu, Han Cai, Ligeng Zhu, Chuang Gan and Song Han

*[Long] Hard-Coded Gaussian Attention for Neural Machine Translation*

Weiqiu You, Simeng Sun and Mohit Iyyer

*[Long] In Neural Machine Translation, What Does Transfer Learning Transfer?*

Alham Fikri Aji, Nikolay Bogoychev, Kenneth Heafield and Rico Sennrich

*[Long] Learning a Multi-Domain Curriculum for Neural Machine Translation*

Wei Wang, Ye Tian, Jiquan Ngiam, Yinfei Yang, Isaac Caswell and Zarana Parekh

*[Long] Reducing Gender Bias in Neural Machine Translation as a Domain Adaptation Problem*

Danielle Saunders and Bill Byrne

*[Long] Translationese as a Language in "Multilingual" NMT*

Parker Riley, Isaac Caswell, Markus Freitag and David Grangier

*[Long] Uncertainty-Aware Curriculum Learning for Neural Machine Translation*

Yikai Zhou, Baosong Yang, Derek F. Wong, Yu Wan and Lidia S. Chao

*[Long] Unsupervised Domain Clusters in Pretrained Language Models*

Roei Aharoni and Yoav Goldberg

*[Short] Using Context in Neural Machine Translation Training Objectives*

Danielle Saunders, Felix Stahlberg and Bill Byrne

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Short] Variational Neural Machine Translation with Normalizing Flows*

Hendra Setiawan, Matthias Sperber, Udhyakumar Nallasamy and Matthias Paulik

**13:00–14:00    Session 13B Phonology, Morphology and Word Segmentation-5**

*[Long] 2kenize: Tying Subword Sequences for Chinese Script Conversion*

Pranav A and Isabelle Augenstein

*[TACL] Phonotactic Complexity and Its Trade-offs*

Tiago Pimentel, Brian Roark, Ryan D. Cotterell

*[Long] Predicting the Growth of Morphological Families from Social and Linguistic Factors*

Valentin Hofmann, Janet Pierrehumbert and Hinrich Schütze

*[Long] Semi-supervised Contextual Historical Text Normalization*

Peter Makarov and Simon Clematide

*[Long] The Paradigm Discovery Problem*

Alexander Erdmann, Micha Elsner, Shijie Wu, Ryan Cotterell and Nizar Habash

*[Short] Supervised Grapheme-to-Phoneme Conversion of Orthographic Schwas in Hindi and Punjabi*

Aryaman Arora, Luke Gessler and Nathan Schneider



Wednesday, July 8, 2020 UTC+0 (continued)

**13:00–14:00 Session 13B Question Answering-11**

*[Short] ClarQ: A large-scale and diverse dataset for Clarification Question Generation*

Vaibhav Kumar and Alan W Black

*[Long] DoQA - Accessing Domain-Specific FAQs via Conversational QA*

Jon Ander Campos, Arantxa Otegi, Aitor Soroa, Jan Deriu, Mark Cieliebak and Eneko Agirre

*[Long] Document Modeling with Graph Attention Networks for Multi-grained Machine Reading Comprehension*

Bo Zheng, Haoyang Wen, Yaobo Liang, Nan Duan, Wanxiang Che, Daxin Jiang, Ming Zhou and Ting Liu

*[Long] Low-Resource Generation of Multi-hop Reasoning Questions*

Jianxing Yu, Wei Liu, Shuang Qiu, Qinliang Su, Kai Wang, Xiaojun Quan and Jian Yin

*[Long] MLQA: Evaluating Cross-lingual Extractive Question Answering*

Patrick Lewis, Barlas Oguz, Ruty Rinott, Sebastian Riedel and Holger Schwenk

*[Long] Multi-source Meta Transfer for Low Resource Multiple-Choice Question Answering*

Ming Yan, Hao Zhang, Di Jin and Joey Tianyi Zhou

*[Short] R4C: A Benchmark for Evaluating RC Systems to Get the Right Answer for the Right Reason*

Naoya Inoue, Pontus Stenetorp and Kentaro Inui

*[Long] Recurrent Chunking Mechanisms for Long-Text Machine Reading Comprehension*

Hongyu Gong, Yelong Shen, Dian Yu, Jianshu Chen and Dong Yu

Wednesday, July 8, 2020 UTC+0 (continued)

**13:00–14:00 Session 13B Theme-5**

*[Long] A Call for More Rigor in Unsupervised Cross-lingual Learning*

Mikel Artetxe, Sebastian Ruder, Dani Yogatama, Gorka Labaka and Eneko Agirre

*[Short] A Tale of a Probe and a Parser*

Rowan Hall Maudslay, Josef Valvoda, Tiago Pimentel, Adina Williams and Ryan Cotterell

*[Short] Are we Estimating or Guesstimating Translation Quality?*

Shuo Sun, Francisco Guzmán and Lucia Specia

*[Long] Automated Evaluation of Writing – 50 Years and Counting*

Beata Beigman Klebanov and Nitin Madnani

*[Long] From SPMRL to NMRL: What Did We Learn (and Unlearn) in a Decade of Parsing Morphologically-Rich Languages (MRLs)?*

Reut Tsarfaty, Dan Bareket, Stav Klein and Amit Seker

*[Long] Language (Re)modelling: Towards Embodied Language Understanding*

Ronen Tamari, Chen Shani, Tom Hope, Miriam R L Petruck, Omri Abend and Dafna Shahaf

*[Short] Negated and Misprimed Probes for Pretrained Language Models: Birds Can Talk, But Cannot Fly*

Nora Kassner and Hinrich Schütze

*[Short] On Forgetting to Cite Older Papers: An Analysis of the ACL Anthology*

Marcel Bollmann and Desmond Elliott

*[Short] Returning the N to NLP: Towards Contextually Personalized Classification Models*

Lucie Flek

*[Long] Speech Translation and the End-to-End Promise: Taking Stock of Where We Are*

Matthias Sperber and Matthias Paulik

*[Long] To Test Machine Comprehension, Start by Defining Comprehension*

Jesse Dunietz, Greg Burnham, Akash Bharadwaj, Owen Rambow, Jennifer Chu-Carroll and Dave Ferrucci

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] What Question Answering can Learn from Trivia Nerds*

Jordan Boyd-Graber and Benjamin Börschinger

*[Long] What are the Goals of Distributional Semantics?*

Guy Emerson

*[Long] Gender Gap in Natural Language Processing Research: Disparities in Authorship and Citations*

Saif M. Mohammad

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

*[SRW] AraDIC: Arabic Document Classification Using Image-Based Character Embeddings and Class-Balanced Loss*

Mahmoud Daif, Shunsuke Kitada and Hitoshi Iyatomi

*[SRW] Understanding Points of Correspondence between Sentences for Abstractive Summarization*

Logan Lebanoff, John Muchovej, Franck Dernoncourt, Doo Soon Kim, Lidan Wang, Walter Chang and Fei Liu

*[SRW] Noise-Based Augmentation Techniques for Emotion Datasets: What do we Recommend?*

Mimansa Jaiswal and Emily Mower Provost

*[SRW] Logical Inferences with Comparatives and Generalized Quantifiers*

Izumi Haruta, Koji Mineshima and Daisuke Bekki

**13:30–14:15 Demo Session 3C**

*[Demo] Embedding-based Scientific Literature Discovery in a Text Editor Application*

Onur Gökçe, Jonathan Prada, Nikola I. Nikolov, Nianlong Gu and Richard H.R. Hahnloser

*[Demo] Penman: An Open-Source Library and Tool for AMR Graphs*

Michael Wayne Goodman

**Wednesday, July 8, 2020 UTC+0 (continued)**

**14:00–15:00 Plenary**

14:00–14:45 *Keynote 2 Video Livestream: Josh Tenenbaum*

14:45–15:15 *Keynote 2 Live Q&A: Josh Tenenbaum*

15:15–15:25 *Best Paper Award Ceremony*

15:25–15:37 *Future Conferences*

15:37–15:49 *Closing Remarks*

**17:00–17:45 Demo Session 4A**

*[Demo] Nakdan: Professional Hebrew Diacritizer*

Avi Shmidman, Shaltiel Shmidman, Moshe Koppel and Yoav Goldberg

*[Demo] SUPPAI: Finding Evidence for Supplement-Drug Interactions*

Lucy Wang, Oyvind Tafjord, Arman Cohan, Sarthak Jain, Sam Skjonsberg, Carissa Schoenick, Nick Botner and Waleed Ammar

**17:00–18:00 Session 14A Generation-13**

*[TACL] A Knowledge-Enhanced Pretraining Model for Commonsense Story Generation*

Jian Guan, Fei Huang, Minlie Huang, Zhihao Zhao, Xiaoyan Zhu

*[Long] BART: Denoising Sequence-to-Sequence Pre-training for Natural Language Generation, Translation, and Comprehension*

Mike Lewis, Yinhan Liu, Naman Goyal, Marjan Ghazvininejad, Abdelrahman Mohamed, Omer Levy, Veselin Stoyanov and Luke Zettlemoyer

*[Long] BLEURT: Learning Robust Metrics for Text Generation*

Thibault Sellam, Dipanjan Das and Ankur Parikh

*[Long] Distilling Knowledge Learned in BERT for Text Generation*

Yen-Chun Chen, Zhe Gan, Yu Cheng, Jingzhou Liu and Jingjing Liu

Wednesday, July 8, 2020 UTC+0 (continued)

*[Long] ESPRIT: Explaining Solutions to Physical Reasoning Tasks*

Nazneen Fatema Rajani, Rui Zhang, Yi Chern Tan, Stephan Zheng, Jeremy Weiss, Aadit Vyas, Abhijit Gupta, Caiming Xiong, Richard Socher and Dragomir Radev

*[Long] Iterative Edit-Based Unsupervised Sentence Simplification*

Dhruv Kumar, Lili Mou, Lukasz Golab and Olga Vechtomova

*[Long] Logical Natural Language Generation from Open-Domain Tables*

Wenhu Chen, Jianshu Chen, Yu Su, Zhiyu Chen and William Yang Wang

*[Long] Neural CRF Model for Sentence Alignment in Text Simplification*

Chao Jiang, Mounica Maddela, Wuwei Lan, Yang Zhong and Wei Xu

*[Long] One Size Does Not Fit All: Generating and Evaluating Variable Number of Keyphrases*

Xingdi Yuan, Tong Wang, Rui Meng, Khushboo Thaker, Peter Brusilovsky, Daqing He and Adam Trischler

*[Long] R<sup>3</sup>: Reverse, Retrieve, and Rank for Sarcasm Generation with Common-sense Knowledge*

Tuhin Chakrabarty, Debanjan Ghosh, Smaranda Muresan and Nanyun Peng

*[Short] Shape of Synth to Come: Why We Should Use Synthetic Data for English Surface Realization*

Henry Elder, Robert Burke, Alexander O'Connor and Jennifer Foster

*[Long] Structural Information Preserving for Graph-to-Text Generation*

Linfeng Song, Ante Wang, Jinsong Su, Yue Zhang, Kun Xu, Yubin Ge and Dong Yu

*[TACL] Syntax-guided Controlled Generation of Paraphrases*

Ashutosh Kumar, Kabir Ahuja, Raghuram Vadapalli, Partha Talukdar

Wednesday, July 8, 2020 UTC+0 (continued)

**17:00–18:00 Session 14A Information Extraction-9**

*[Long] A Joint Neural Model for Information Extraction with Global Features*

Ying Lin, Heng Ji, Fei Huang and Lingfei Wu

*[Short] A Two-Stage Masked LM Method for Term Set Expansion*

Guy Kushilevitz, Shaul Markovitch and Yoav Goldberg

*[Long] Document-Level Event Role Filler Extraction using Multi-Granularity Contextualized Encoding*

Xinya Du and Claire Cardie

*[Long] Exploiting the Syntax-Model Consistency for Neural Relation Extraction*

Amir Pouran Ben Veyseh, Franck Dernoncourt, Dejing Dou and Thien Huu Nguyen

*[Long] From English to Code-Switching: Transfer Learning with Strong Morphological Clues*

Gustavo Aguilar and Tamar Solorio

*[TACL] Improving Candidate Generation for Low-resource Cross-lingual Entity Linking*

Shuyan Zhou, Shruti Rijhwani, John Wieting, Jaime Carbonell, Graham Neubig

*[Long] Learning Interpretable Relationships between Entities, Relations and Concepts via Bayesian Structure Learning on Open Domain Facts*

Jingyuan Zhang, Mingming Sun, Yue Feng and Ping Li

*[Long] Multi-Sentence Argument Linking*

Seth Ebner, Patrick Xia, Ryan Culkin, Kyle Rawlins and Benjamin Van Durme

*[Long] Rationalizing Medical Relation Prediction from Corpus-level Statistics*

Zhen Wang, Jennifer Lee, Simon Lin and Huan Sun

*[Long] Sources of Transfer in Multilingual Named Entity Recognition*

David Mueller, Nicholas Andrews and Mark Dredze

*[Long] ZeroShotCeres: Zero-Shot Relation Extraction from Semi-Structured Web-pages*

Colin Lockard, Prashant Shiralkar, Xin Luna Dong and Hannaneh Hajishirzi

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Short] Soft Gazetteers for Low-Resource Named Entity Recognition*

Shruti Rijhwani, Shuyan Zhou, Graham Neubig and Jaime Carbonell

**17:00–18:00 Session 14A Information Retrieval and Text Mining-7**

*[Long] A Prioritization Model for Suicidality Risk Assessment*

Han-Chin Shing, Philip Resnik and Douglas Oard

*[Long] CluHTM - Semantic Hierarchical Topic Modeling based on CluWords*

Felipe Viegas, Washington Cunha, Christian Gomes, Antônio Pereira, Leonardo Rocha and Marcos Goncalves

*[Long] Document Translation vs. Query Translation for Cross-Lingual Information Retrieval in the Medical Domain*

Shadi Saleh and Pavel Pecina

*[Long] Empower Entity Set Expansion via Language Model Probing*

Yunyi Zhang, Jiaming Shen, Jingbo Shang and Jiawei Han

*[Long] Feature Projection for Improved Text Classification*

Qi Qin, Wenpeng Hu and Bing Liu

**17:00–18:00 Session 14A Language Grounding to Vision, Robotics and Beyond-8**

*[Short] A negative case analysis of visual grounding methods for VQA*

Robik Shrestha, Kushal Kaffle and Christopher Kanan

*[Long] CompGuessWhat?!: A Multi-task Evaluation Framework for Grounded Language Learning*

Alessandro Suglia, Ioannis Konstas, Andrea Vanzo, Emanuele Bastianelli, Desmond Elliott, Stella Frank and Oliver Lemon

*[Long] History for Visual Dialog: Do we really need it?*

Shubham Agarwal, Trung Bui, Joon-Young Lee, Ioannis Konstas and Verena Rieser

*[Long] Mapping Natural Language Instructions to Mobile UI Action Sequences*

Yang Li, Jiacong He, Xin Zhou, Yuan Zhang and Jason Baldridge

Wednesday, July 8, 2020 UTC+0 (continued)

*[Long] Multi-agent Communication meets Natural Language: Synergies between Functional and Structural Language Learning*

Angeliki Lazaridou, Anna Potapenko and Olivier Tieleman

*[Long] TVQA+: Spatio-Temporal Grounding for Video Question Answering*

Jie Lei, Licheng Yu, Tamara Berg and Mohit Bansal

*[Long] Unsupervised Multimodal Neural Machine Translation with Pseudo Visual Pivoting*

Po-Yao Huang, Junjie Hu, Xiaojun Chang and Alexander Hauptmann

**17:00–18:00 Session 14A Phonology, Morphology and Word Segmentation-6**

*[Long] A Multitask Learning Approach for Diacritic Restoration*

Sawsan Alqahtani, Ajay Mishra and Mona Diab

*[Long] Frugal Paradigm Completion*

Alexander Erdmann, Tom Kenter, Markus Becker and Christian Schallhart

*[Long] Improving Chinese Word Segmentation with Wordhood Memory Networks*

Yuanhe Tian, Yan Song, Fei Xia, Tong Zhang and Yonggang Wang

*[Long] Joint Chinese Word Segmentation and Part-of-speech Tagging via Two-way Attentions of Auto-analyzed Knowledge*

Yuanhe Tian, Yan Song, Xiang Ao, Fei Xia, Xiaojun Quan, Tong Zhang and Yonggang Wang

*[Long] Joint Diacritization, Lemmatization, Normalization, and Fine-Grained Morphological Tagging*

Nasser Zalmout and Nizar Habash

*[Long] Phonetic and Visual Priors for Decipherment of Informal Romanization*

Maria Ryskina, Matthew R. Gormley and Taylor Berg-Kirkpatrick

*[TACL] Phonotactic Complexity and Its Trade-offs*

Tiago Pimentel, Brian Roark, Ryan D. Cotterell

*[Long] The Paradigm Discovery Problem*

Alexander Erdmann, Micha Elsner, Shijie Wu, Ryan Cotterell and Nizar Habash



Wednesday, July 8, 2020 UTC+0 (continued)

*[Short] Supervised Grapheme-to-Phoneme Conversion of Orthographic Schwas in Hindi and Punjabi*

Aryaman Arora, Luke Gessler and Nathan Schneider

**17:00–18:00 Session 14A Semantics: Sentence Level-9**

*[Short] Active Learning for Coreference Resolution using Discrete Annotation*

Belinda Z. Li, Gabriel Stanovsky and Luke Zettlemoyer

*[Long] Beyond Possession Existence: Duration and Co-Possession*

Dhivya Chinnappa, Srikala Murugan and Eduardo Blanco

*[TACL] Decoding Brain Activity Associated with Literal and Metaphoric Sentence Comprehension using Distributional Semantic Models*

Vesna G. Djokic, Jean Maillard, Luana Bulat, Ekaterina Shutova

*[Long] Don't Stop Pretraining: Adapt Language Models to Domains and Tasks*

Suchin Gururangan, Ana Marasović, Swabha Swayamdipta, Kyle Lo, Iz Beltagy, Doug Downey and Noah A. Smith

*[Short] Estimating Mutual Information Between Dense Word Embeddings*

Vitalii Zhelezniak, Aleksandar Savkov and Nils Hammerla

*[Long] Exploring Unexplored Generalization Challenges for Cross-Database Semantic Parsing*

Alane Suhr, Ming-Wei Chang, Peter Shaw and Kenton Lee

*[Long] Predicting the Focus of Negation: Model and Error Analysis*

Md Mosharaf Hossain, Kathleen Hamilton, Alexis Palmer and Eduardo Blanco

*[Long] RAT-SQL: Relation-Aware Schema Encoding and Linking for Text-to-SQL Parsers*

Bailin Wang, Richard Shin, Xiaodong Liu, Oleksandr Polozov and Matthew Richardson

*[Long] Structured Tuning for Semantic Role Labeling*

Tao Li, Parth Anand Jawale, Martha Palmer and Vivek Srikumar

*[Long] TaBERT: Pretraining for Joint Understanding of Textual and Tabular Data*

Pengcheng Yin, Graham Neubig, Wen-tau Yih and Sebastian Riedel

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] Universal Compositional Semantic Parsing*

Elias Stengel-Eskin, Aaron Steven White, Sheng Zhang and Benjamin Van Durme

*[Long] Unsupervised Cross-lingual Representation Learning at Scale*

Alexis Conneau, Kartikay Khandelwal, Naman Goyal, Vishrav Chaudhary, Guillaume Wenzek, Francisco Guzmán, Edouard Grave, Myle Ott, Luke Zettlemoyer and Veselin Stoyanov

**17:00–18:00 Session 14A Student Research Workshop**

*[SRW] Topic Balancing with Additive Regularization of Topic Models*

Eugeniia Veselova and Konstantin Vorontsov

*[SRW] Combining Subword Representations into Word-level Representations in the Transformer Architecture*

Noe Casas, Marta R. Costa-jussà and José A. R. Fonollosa

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

Zheng Tang, Gus Hahn-Powell and Mihai Surdeanu

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

Amanda Buddemeyer, Xiaoyi Tian and Erin Walker

**17:45–18:30 Demo Session 4B**

*[Demo] Conversation Learner - A Machine Teaching Tool for Building Dialog Managers for Task-Oriented Dialog Systems*

Swadheen Shukla, Lars Liden, Shahin Shayandeh, Eslam Kamal, Jinchao Li, Matt Mazzola, Thomas Park, Baolin Peng and Jianfeng Gao

*[Demo] LEAN-LIFE: A Label-Efficient Annotation Framework Towards Learning from Explanation*

Dong-Ho Lee, Rahul Khanna, Bill Yuchen Lin, Seyeon Lee, Qinyuan Ye, Elizabeth Boschee, Leonardo Neves and Xiang Ren

Wednesday, July 8, 2020 UTC+0 (continued)

**18:00–19:00 Session 14B Information Extraction-10**

*[Long] A Generate-and-Rank Framework with Semantic Type Regularization for Biomedical Concept Normalization*

Dongfang Xu, Zeyu Zhang and Steven Bethard

*[Long] Hierarchical Entity Typing via Multi-level Learning to Rank*

Tongfei Chen, Yunmo Chen and Benjamin Van Durme

*[Long] Multi-Domain Named Entity Recognition with Genre-Aware and Agnostic Inference*

Jing Wang, Mayank Kulkarni and Daniel Preotiuc-Pietro

*[Long] TXtract: Taxonomy-Aware Knowledge Extraction for Thousands of Product Categories*

Giannis Karamanolakis, Jun Ma and Xin Luna Dong

*[Short] TriggerNER: Learning with Entity Triggers as Explanations for Named Entity Recognition*

Bill Yuchen Lin, Dong-Ho Lee, Ming Shen, Ryan Moreno, Xiao Huang, Prashant Shiralkar and Xiang Ren

**18:00–19:00 Session 14B Machine Learning for NLP-16**

*[Long] A Mixture of  $h - 1$  Heads is Better than  $h$  Heads*

Hao Peng, Roy Schwartz, Dianqi Li and Noah A. Smith

*[Long] CamemBERT: a Tasty French Language Model*

Louis Martin, Benjamin Muller, Pedro Javier Ortiz Suárez, Yoann Dupont, Laurent Romary, Éric de la Clergerie, Djamé Seddah and Benoît Sagot

*[Short] Contrastive Self-Supervised Learning for Commonsense Reasoning*

Tassilo Klein and Moin Nabi

*[Short] Do Transformers Need Deep Long-Range Memory?*

Jack Rae and Ali Razavi

*[Long] Generalized Entropy Regularization or: There's Nothing Special about Label Smoothing*

Clara Meister, Elizabeth Salesky and Ryan Cotterell

Wednesday, July 8, 2020 UTC+0 (continued)

*[Long] Improving Disentangled Text Representation Learning with Information-Theoretic Guidance*

Pengyu Cheng, Martin Renqiang Min, Dinghan Shen, Christopher Malon, Yizhe Zhang, Yitong Li and Lawrence Carin

*[Long] The Right Tool for the Job: Matching Model and Instance Complexities*

Roy Schwartz, Gabriel Stanovsky, Swabha Swayamdipta, Jesse Dodge and Noah A. Smith

**18:00–19:00 Session 14B Machine Translation-16**

*[Long] Addressing Posterior Collapse with Mutual Information for Improved Variational Neural Machine Translation*

Arya D. McCarthy, Xian Li, Jiatao Gu and Ning Dong

*[Long] Balancing Training for Multilingual Neural Machine Translation*

Xinyi Wang, Yulia Tsvetkov and Graham Neubig

*[Short] Classification-Based Self-Learning for Weakly Supervised Bilingual Lexicon Induction*

Mladen Karan, Ivan Vulić, Anna Korhonen and Goran Glavaš

*[Short] Evaluating Robustness to Input Perturbations for Neural Machine Translation*

Xing Niu, Prashant Mathur, Georgiana Dinu and Yaser Al-Onaizan

*[Long] Gender in Danger? Evaluating Speech Translation Technology on the MuST-SHE Corpus*

Luisa Bentivogli, Beatrice Savoldi, Matteo Negri, Mattia A. Di Gangi, Roldano Cattoni and Marco Turchi

*[Long] In Neural Machine Translation, What Does Transfer Learning Transfer?*

Alham Fikri Aji, Nikolay Bogoychev, Kenneth Heafield and Rico Sennrich

*[Long] Parallel Corpus Filtering via Pre-trained Language Models*

Boliang Zhang, Ajay Nagesh and Kevin Knight

*[Long] Reducing Gender Bias in Neural Machine Translation as a Domain Adaptation Problem*

Danielle Saunders and Bill Byrne

*[Short] Regularized Context Gates on Transformer for Machine Translation*

Xintong Li, Lemao Liu, Rui Wang, Guoping Huang and Max Meng

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] Unsupervised Domain Clusters in Pretrained Language Models*

Roei Aharoni and Yoav Goldberg

*[Short] Using Context in Neural Machine Translation Training Objectives*

Danielle Saunders, Felix Stahlberg and Bill Byrne

*[Short] Variational Neural Machine Translation with Normalizing Flows*

Hendra Setiawan, Matthias Sperber, Udhyakumar Nallasamy and Matthias Paulik

**18:00–19:00 Session 14B NLP Applications-11**

*[Short] A Multi-Perspective Architecture for Semantic Code Search*

Rajarshi Haldar, Lingfei Wu, JinJun Xiong and Julia Hockenmaier

*[Short] Automated Topical Component Extraction Using Neural Network Attention Scores from Source-based Essay Scoring*

Haoran Zhang and Diane Litman

*[Short] Clinical Concept Linking with Contextualized Neural Representations*

Elliot Schumacher, Andriy Mulyar and Mark Dredze

*[Long] DeSePtion: Dual Sequence Prediction and Adversarial Examples for Improved Fact-Checking*

Christopher Hidey, Tuhin Chakrabarty, Tariq Alhindi, Siddharth Varia, Kriste Krstovski, Mona Diab and Smaranda Muresan

*[Long] Estimating predictive uncertainty for rumour verification models*

Elena Kochkina and Maria Liakata

*[Short] Let Me Choose: From Verbal Context to Font Selection*

Amirreza Shirani, Franck Dernoncourt, Jose Echevarria, Paul Asente, Nedim Lipka and Tamar Solorio

*[TACL] Machine Learning Driven Language Assessment*

Burr Settles, Masato Hagiwara, Geoffrey T. LaFlair

*[Long] Multi-Label and Multilingual News Framing Analysis*

Afra Feyza Akyürek, Lei Guo, Randa Elanwar, Prakash Ishwar, Margrit Betke and Derry Tanti Wijaya

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] Predicting Performance for Natural Language Processing Tasks*

Mengzhou Xia, Antonios Anastasopoulos, Ruochen Xu, Yiming Yang and Graham Neubig

*[Long] ScriptWriter: Narrative-Guided Script Generation*

Yutao Zhu, Ruihua Song, Zhicheng Dou, Jian-Yun NIE and Jin Zhou

*[Long] Should All Cross-Lingual Embeddings Speak English?*

Antonios Anastasopoulos and Graham Neubig

*[Short] Smart To-Do: Automatic Generation of To-Do Items from Emails*

Sudipto Mukherjee, Subhabrata Mukherjee, Marcello Hasegawa, Ahmed Hassan Awadallah and Ryen White

*[Short] Understanding Advertisements with BERT*

Kanika Kalra, Bhargav Kurma, Silpa Vadakkeveetil Sreelatha, Manasi Patwardhan and Shirish Karande

**18:00–19:00 Session 14B Semantics: Lexical-8**

*[CL] LESSLEX: Linking Multilingual Embeddings to SenSe Representations of Lexical Items*

Davide Colla, Enrico Mensa, Daniele P. Radicioni

*[Short] Non-Linear Instance-Based Cross-Lingual Mapping for Non-Isomorphic Embedding Spaces*

Goran Glavaš and Ivan Vulić

Wednesday, July 8, 2020 UTC+0 (continued)

**18:00–19:00 Session 14B Semantics: Textual Inference and Other Areas of Semantics-6**

*[Long] Are Natural Language Inference Models IMPPRESSive? Learning IMPLi-cature and PRESupposition*

Paloma Jeretic, Alex Warstadt, Suvrat Bhooshan and Adina Williams

*[Long] Benchmarking Multimodal Regex Synthesis with Complex Structures*

Xi Ye, Qiaochu Chen, Isil Dillig and Greg Durrett

*[Long] End-to-End Bias Mitigation by Modelling Biases in Corpora*

Rabeeh Karimi Mahabadi, Yonatan Belinkov and James Henderson

*[Long] Generating Fact Checking Explanations*

Pepa Atanasova, Jakob Grue Simonsen, Christina Lioma and Isabelle Augenstein

*[Long] Mind the Trade-off: Debiasing NLU Models without Degrading the In-distribution Performance*

Prasetya Ajie Utama, Nafise Sadat Moosavi and Iryna Gurevych

*[Long] NILE : Natural Language Inference with Faithful Natural Language Explanations*

Sawan Kumar and Partha Talukdar

*[Long] Neural Mixed Counting Models for Dispersed Topic Discovery*

Jiemin Wu, Yanghui Rao, Zusheng Zhang, Haoran Xie, Qing Li, Fu Lee Wang and Ziyi Chen

*[Long] QuASE: Question-Answer Driven Sentence Encoding*

Hangfeng He, Qiang Ning and Dan Roth

*[Long] Temporal Common Sense Acquisition with Minimal Supervision*

Ben Zhou, Qiang Ning, Daniel Khashabi and Dan Roth

*[Long] The Sensitivity of Language Models and Humans to Winograd Schema Perturbations*

Mostafa Abdou, Vinit Ravishankar, Maria Barrett, Yonatan Belinkov, Desmond Elliott and Anders Søgaard

*[Long] Towards Robustifying NLI Models Against Lexical Dataset Biases*

Xiang Zhou and Mohit Bansal

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Short] Uncertain Natural Language Inference*

Tongfei Chen, Zhengping Jiang, Adam Poliak, Keisuke Sakaguchi and Benjamin Van Durme

**18:00–19:00    Session 14B Syntax: Tagging, Chunking and Parsing-5**

*[TACL] Deep Contextualized Self-training for Low Resource Dependency Parsing*

Guy Rotman, Roi Reichart

*[Long] Extracting Headless MWEs from Dependency Parse Trees: Parsing, Tagging, and Joint Modeling Approaches*

Tianze Shi and Lillian Lee

*[Short] Revisiting Higher-Order Dependency Parsers*

Erick Fonseca and André F. T. Martins

*[Long] SeqVAT: Virtual Adversarial Training for Semi-Supervised Sequence Labeling*

Luoxin Chen, Weitong Ruan, Xinyue Liu and Jianhua Lu

*[Short] Tetra-Tagging: Word-Synchronous Parsing with Linear-Time Inference*

Nikita Kitaev and Dan Klein

*[Short] Treebank Embedding Vectors for Out-of-domain Dependency Parsing*

Joachim Wagner, James Barry and Jennifer Foster



**Wednesday, July 8, 2020 UTC+0 (continued)**

**18:00–19:00 Session 14B Student Research Workshop**

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

Pia Sommerauer

*[SRW] Pointwise Paraphrase Appraisal is Potentially Problematic*

Hannah Chen, Yangfeng Ji and David Evans

*[SRW] A Geometry-Inspired Attack for Generating Natural Language Adversarial Examples*

Zhao Meng and Roger Wattenhofer

*[SRW] Enhancing Word Embeddings with Knowledge Extracted from Lexical Resources*

Magdalena Biesialska, Bardia Rafieian and Marta R. Costa-jussà

**18:30–19:15 Demo Session 4C**

*[Demo] MMPE: A Multi-Modal Interface using Handwriting, Touch Reordering, and Speech Commands for Post-Editing Machine Translation*

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

*[Demo] What's The Latest? A Question-driven News Chatbot*

Philippe Laban, John Canny and Marti A. Hearst

**20:00–20:45 Demo Session 5A**

*[Demo] MixingBoard: a Knowledgeable Stylized Integrated Text Generation Platform*

Xiang Gao, Michel Galley and Bill Dolan

*[Demo] DIALOGPT : Large-Scale Generative Pre-training for Conversational Response Generation*

Yizhe Zhang, Siqi Sun, Michel Galley, Yen-Chun Chen, Chris Brockett, Xiang Gao, Jianfeng Gao, Jingjing Liu and Bill Dolan

*[Demo] SUPPAI: Finding Evidence for Supplement-Drug Interactions*

Lucy Wang, Oyvind Tafjord, Arman Cohan, Sarthak Jain, Sam Skjonsberg, Carissa Schoenick, Nick Botner and Waleed Ammar

Wednesday, July 8, 2020 UTC+0 (continued)

**20:00–21:00 Session 15A Generation-14**

*[TACL] A Knowledge-Enhanced Pretraining Model for Commonsense Story Generation*

Jian Guan, Fei Huang, Minlie Huang, Zhihao Zhao, Xiaoyan Zhu

*[Long] BART: Denoising Sequence-to-Sequence Pre-training for Natural Language Generation, Translation, and Comprehension*

Mike Lewis, Yinhan Liu, Naman Goyal, Marjan Ghazvininejad, Abdelrahman Mohamed, Omer Levy, Veselin Stoyanov and Luke Zettlemoyer

*[Long] BLEURT: Learning Robust Metrics for Text Generation*

Thibault Sellam, Dipanjan Das and Ankur Parikh

*[Long] Distilling Knowledge Learned in BERT for Text Generation*

Yen-Chun Chen, Zhe Gan, Yu Cheng, Jingzhou Liu and Jingjing Liu

*[Long] Improving Image Captioning with Better Use of Caption*

Zhan Shi, Xu Zhou, Xipeng Qiu and Xiaodan Zhu

*[Long] Iterative Edit-Based Unsupervised Sentence Simplification*

Dhruv Kumar, Lili Mou, Lukasz Golab and Olga Vechtomova

*[Long] Neural CRF Model for Sentence Alignment in Text Simplification*

Chao Jiang, Mounica Maddela, Wuwei Lan, Yang Zhong and Wei Xu

*[Long] One Size Does Not Fit All: Generating and Evaluating Variable Number of Keyphrases*

Xingdi Yuan, Tong Wang, Rui Meng, Khushboo Thaker, Peter Brusilovsky, Daqing He and Adam Trischler

Wednesday, July 8, 2020 UTC+0 (continued)

**20:00–21:00 Session 15A Information Extraction-11**

*[Long] A Generate-and-Rank Framework with Semantic Type Regularization for Biomedical Concept Normalization*

Dongfang Xu, Zeyu Zhang and Steven Bethard

*[Long] A Joint Neural Model for Information Extraction with Global Features*

Ying Lin, Heng Ji, Fei Huang and Lingfei Wu

*[Short] A Two-Step Approach for Implicit Event Argument Detection*

Zhisong Zhang, Xiang Kong, Zhengzhong Liu, Xuezhe Ma and Eduard Hovy

*[Long] Document-Level Event Role Filler Extraction using Multi-Granularity Contextualized Encoding*

Xinya Du and Claire Cardie

*[Long] Learning Interpretable Relationships between Entities, Relations and Concepts via Bayesian Structure Learning on Open Domain Facts*

Jingyuan Zhang, Mingming Sun, Yue Feng and Ping Li

*[Long] Multi-Sentence Argument Linking*

Seth Ebner, Patrick Xia, Ryan Culkin, Kyle Rawlins and Benjamin Van Durme

*[Short] Revisiting Unsupervised Relation Extraction*

Thy Thy Tran, Phong Le and Sophia Ananiadou

*[Long] Temporally-Informed Analysis of Named Entity Recognition*

Shruti Rijhwani and Daniel Preotiuc-Pietro

*[Short] Towards Open Domain Event Trigger Identification using Adversarial Domain Adaptation*

Aakanksha Naik and Carolyn Rose

*[Long] ZeroShotCeres: Zero-Shot Relation Extraction from Semi-Structured Web-pages*

Colin Lockard, Prashant Shiralkar, Xin Luna Dong and Hannaneh Hajishirzi

Wednesday, July 8, 2020 UTC+0 (continued)

**20:00–21:00 Session 15A Information Retrieval and Text Mining-8**

*[Long] A Prioritization Model for Suicidality Risk Assessment*

Han-Chin Shing, Philip Resnik and Douglas Oard

*[Long] CluHTM - Semantic Hierarchical Topic Modeling based on CluWords*

Felipe Viegas, Washington Cunha, Christian Gomes, Antônio Pereira, Leonardo Rocha and Marcos Goncalves

*[Long] Empower Entity Set Expansion via Language Model Probing*

Yunyi Zhang, Jiaming Shen, Jingbo Shang and Jiawei Han

*[Long] Feature Projection for Improved Text Classification*

Qi Qin, Wenpeng Hu and Bing Liu

*[Short] Learning Robust Models for e-Commerce Product Search*

Thanh Nguyen, Nikhil Rao and Karthik Subbian

**20:00–21:00 Session 15A Language Grounding to Vision, Robotics and Beyond-9**

*[Short] A negative case analysis of visual grounding methods for VQA*

Robik Shrestha, Kushal Kaffle and Christopher Kanan

*[Long] Cross-Modality Relevance for Reasoning on Language and Vision*

Chen Zheng, Quan Guo and Parisa Kordjamshidi

*[Long] History for Visual Dialog: Do we really need it?*

Shubham Agarwal, Trung Bui, Joon-Young Lee, Ioannis Konstas and Verena Rieser

*[Short] Knowledge Supports Visual Language Grounding: A Case Study on Colour Terms*

Simeon Schüz and Sina Zarriß

*[Long] Learning Web-based Procedures by Reasoning over Explanations and Demonstrations in Context*

Shashank Srivastava, Oleksandr Polozov, Nebojsa Jojic and Christopher Meek

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] Mapping Natural Language Instructions to Mobile UI Action Sequences*

Yang Li, Jiacong He, Xin Zhou, Yuan Zhang and Jason Baldridge

*[Long] Refer360°: A Referring Expression Recognition Dataset in 360° Images*

Volkan Cirik, Taylor Berg-Kirkpatrick and Louis-Philippe Morency

*[Long] TVQA+: Spatio-Temporal Grounding for Video Question Answering*

Jie Lei, Licheng Yu, Tamara Berg and Mohit Bansal

*[Long] Unsupervised Multimodal Neural Machine Translation with Pseudo Visual Pivoting*

Po-Yao Huang, Junjie Hu, Xiaojun Chang and Alexander Hauptmann

*[Short] Words Aren't Enough, Their Order Matters: On the Robustness of Grounding Visual Referring Expressions*

Arjun Akula, Spandana Gella, Yaser Al-Onaizan, Song-Chun Zhu and Siva Reddy

**20:00–21:00 Session 15A Machine Translation-17**

*[Long] Addressing Posterior Collapse with Mutual Information for Improved Variational Neural Machine Translation*

Arya D. McCarthy, Xian Li, Jiatao Gu and Ning Dong

*[Short] Evaluating Robustness to Input Perturbations for Neural Machine Translation*

Xing Niu, Prashant Mathur, Georgiana Dinu and Yaser Al-Onaizan

*[Long] Hard-Coded Gaussian Attention for Neural Machine Translation*

Weiqiu You, Simeng Sun and Mohit Iyyer

*[Long] Learning a Multi-Domain Curriculum for Neural Machine Translation*

Wei Wang, Ye Tian, Jiquan Ngiam, Yinfei Yang, Isaac Caswell and Zarana Parekh

*[Short] Tagged Back-translation Revisited: Why Does It Really Work?*

Benjamin Marie, Raphael Rubino and Atsushi Fujita

Wednesday, July 8, 2020 UTC+0 (continued)

**20:00–21:00 Session 15A Semantics: Sentence Level-10**

*[Short] Active Learning for Coreference Resolution using Discrete Annotation*

Belinda Z. Li, Gabriel Stanovsky and Luke Zettlemoyer

*[TACL] Decoding Brain Activity Associated with Literal and Metaphoric Sentence Comprehension using Distributional Semantic Models*

Vesna G. Djokic, Jean Maillard, Luana Bulat, Ekaterina Shutova

*[Long] Emerging Cross-lingual Structure in Pretrained Language Models*

Alexis Conneau, Shijie Wu, Haoran Li, Luke Zettlemoyer and Veselin Stoyanov

*[Short] Estimating Mutual Information Between Dense Word Embeddings*

Vitalii Zhelezniak, Aleksandar Savkov and Nils Hammerla

*[Long] Exploring Unexplored Generalization Challenges for Cross-Database Semantic Parsing*

Alane Suhr, Ming-Wei Chang, Peter Shaw and Kenton Lee

*[Long] Good-Enough Compositional Data Augmentation*

Jacob Andreas

*[Short] Incorporating External Knowledge through Pre-training for Natural Language to Code Generation*

Frank F. Xu, Zhengbao Jiang, Pengcheng Yin, Bogdan Vasilescu and Graham Neubig

*[Long] Predicting the Focus of Negation: Model and Error Analysis*

Md Mosharaf Hossain, Kathleen Hamilton, Alexis Palmer and Eduardo Blanco

*[Long] TaBERT: Pretraining for Joint Understanding of Textual and Tabular Data*

Pengcheng Yin, Graham Neubig, Wen-tau Yih and Sebastian Riedel

*[Long] Unsupervised Cross-lingual Representation Learning at Scale*

Alexis Conneau, Kartikay Khandelwal, Naman Goyal, Vishrav Chaudhary, Guillaume Wenzek, Francisco Guzmán, Edouard Grave, Myle Ott, Luke Zettlemoyer and Veselin Stoyanov

Wednesday, July 8, 2020 UTC+0 (continued)

**20:00–21:00 Session 15A Semantics: Textual Inference and Other Areas of Semantics-7**

*[Long] Are Natural Language Inference Models IMPPRESSive? Learning IMPLi-cature and PRESupposition*

Paloma Jeretic, Alex Warstadt, Suvrat Bhooshan and Adina Williams

*[Long] End-to-End Bias Mitigation by Modelling Biases in Corpora*

Rabeeh Karimi Mahabadi, Yonatan Belinkov and James Henderson

*[Long] Mind the Trade-off: Debiasing NLU Models without Degrading the In-distribution Performance*

Prasetya Ajie Utama, Nafise Sadat Moosavi and Iryna Gurevych

*[Long] NILE : Natural Language Inference with Faithful Natural Language Explanations*

Sawan Kumar and Partha Talukdar

*[Long] QuASE: Question-Answer Driven Sentence Encoding*

Hangfeng He, Qiang Ning and Dan Roth

*[Long] Towards Robustifying NLI Models Against Lexical Dataset Biases*

Xiang Zhou and Mohit Bansal

*[Short] Uncertain Natural Language Inference*

Tongfei Chen, Zhengping Jiang, Adam Poliak, Keisuke Sakaguchi and Benjamin Van Durme

**Wednesday, July 8, 2020 UTC+0 (continued)**

**20:00–21:00 Session 15A Student Research Workshop**

*[SRW] Checkpoint Reranking: An Approach to Select Better Hypothesis for Neural Machine Translation Systems*

Vinay Pandramish and Dipti Misra Sharma

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

Yusu Qian

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

Alex Luu and Sophia A. Malamud

*[SRW] Compositional Generalization by Factorizing Alignment and Translation*

Jacob Russin, Jason Jo, Randall O'Reilly and Yoshua Bengio

**20:45–21:30 Demo Session 5B**

*[Demo] NSTM: Real-Time Query-Driven News Overview Composition at Bloomberg*

Joshua Bambrick, Minjie Xu, Andy Almonte, Igor Malioutov, Guim Perarnau, Vittorio Selo and Iat Chong Chan

*[Demo] LEAN-LIFE: A Label-Efficient Annotation Framework Towards Learning from Explanation*

Dong-Ho Lee, Rahul Khanna, Bill Yuchen Lin, Seyeon Lee, Qinyuan Ye, Elizabeth Boschee, Leonardo Neves and Xiang Ren

**21:00–22:00 Session 15B Generation-15**

*[Long] ESPRIT: Explaining Solutions to Physical Reasoning Tasks*

Nazneen Fatema Rajani, Rui Zhang, Yi Chern Tan, Stephan Zheng, Jeremy Weiss, Aadit Vyas, Abhijit Gupta, Caiming Xiong, Richard Socher and Dragomir Radev

*[Long] Logical Natural Language Generation from Open-Domain Tables*

Wenhu Chen, Jianshu Chen, Yu Su, Zhiyu Chen and William Yang Wang

*[Long] R<sup>3</sup>: Reverse, Retrieve, and Rank for Sarcasm Generation with Commonsense Knowledge*

Tuhin Chakrabarty, Debanjan Ghosh, Smaranda Muresan and Nanyun Peng

*[Long] Structural Information Preserving for Graph-to-Text Generation*

Linfeng Song, Ante Wang, Jinsong Su, Yue Zhang, Kun Xu, Yubin Ge and Dong Yu



**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Short] Toward Better Storylines with Sentence-Level Language Models*  
Daphne Ippolito, David Grangier, Douglas Eck and Chris Callison-Burch

**21:00–22:00 Session 15B Information Extraction-12**

*[Long] Exploiting the Syntax-Model Consistency for Neural Relation Extraction*  
Amir Pouran Ben Veyseh, Franck Dernoncourt, Dejing Dou and Thien Huu Nguyen

*[Long] From English to Code-Switching: Transfer Learning with Strong Morphological Clues*  
Gustavo Aguilar and Tamar Solorio

*[Long] Hierarchical Entity Typing via Multi-level Learning to Rank*  
Tongfei Chen, Yunmo Chen and Benjamin Van Durme

*[Long] Machine Reading of Historical Events*  
Or Honovich, Lucas Torroba Hennigen, Omri Abend and Shay B. Cohen

*[Long] Multi-Domain Named Entity Recognition with Genre-Aware and Agnostic Inference*  
Jing Wang, Mayank Kulkarni and Daniel Preotiuc-Pietro

*[Long] Rationalizing Medical Relation Prediction from Corpus-level Statistics*  
Zhen Wang, Jennifer Lee, Simon Lin and Huan Sun

*[Long] Representation Learning for Information Extraction from Form-like Documents*  
Bodhisattwa Prasad Majumder, Navneet Potti, Sandeep Tata, James Bradley Wendt, Qi Zhao and Marc Najork

*[Long] SciREX: A Challenge Dataset for Document-Level Information Extraction*  
Sarthak Jain, Madeleine van Zuylen, Hannaneh Hajishirzi and Iz Beltagy

*[Short] Soft Gazetteers for Low-Resource Named Entity Recognition*  
Shruti Rijhwani, Shuyan Zhou, Graham Neubig and Jaime Carbonell

*[Long] Sources of Transfer in Multilingual Named Entity Recognition*  
David Mueller, Nicholas Andrews and Mark Dredze

**Wednesday, July 8, 2020 UTC+0 (continued)**

*[Long] TXtract: Taxonomy-Aware Knowledge Extraction for Thousands of Product Categories*

Giannis Karamanolakis, Jun Ma and Xin Luna Dong

*[Short] TriggerNER: Learning with Entity Triggers as Explanations for Named Entity Recognition*

Bill Yuchen Lin, Dong-Ho Lee, Ming Shen, Ryan Moreno, Xiao Huang, Prashant Shiralkar and Xiang Ren

**21:00–22:00 Session 15B Machine Translation-18**

*[Long] Balancing Training for Multilingual Neural Machine Translation*

Xinyi Wang, Yulia Tsvetkov and Graham Neubig

*[Long] HAT: Hardware-Aware Transformers for Efficient Natural Language Processing*

Hanrui Wang, Zhanghao Wu, Zhijian Liu, Han Cai, Ligeng Zhu, Chuang Gan and Song Han

*[Long] Parallel Corpus Filtering via Pre-trained Language Models*

Boliang Zhang, Ajay Nagesh and Kevin Knight

*[Short] Regularized Context Gates on Transformer for Machine Translation*

Xintong Li, Lemao Liu, Rui Wang, Guoping Huang and Max Meng

*[Long] Translationese as a Language in "Multilingual" NMT*

Parker Riley, Isaac Caswell, Markus Freitag and David Grangier

Wednesday, July 8, 2020 UTC+0 (continued)

**21:00–22:00 Session 15B NLP Applications-12**

*[Short] A Multi-Perspective Architecture for Semantic Code Search*

Rajarshi Haldar, Lingfei Wu, JinJun Xiong and Julia Hockenmaier

*[Short] Automated Topical Component Extraction Using Neural Network Attention Scores from Source-based Essay Scoring*

Haoran Zhang and Diane Litman

*[Short] Clinical Concept Linking with Contextualized Neural Representations*

Elliot Schumacher, Andriy Mulyar and Mark Dredze

*[Long] DeSePtion: Dual Sequence Prediction and Adversarial Examples for Improved Fact-Checking*

Christopher Hidey, Tuhin Chakrabarty, Tariq Alhindi, Siddharth Varia, Kriste Krstovski, Mona Diab and Smaranda Muresan

*[Short] Let Me Choose: From Verbal Context to Font Selection*

Amirreza Shirani, Franck Dernoncourt, Jose Echevarria, Paul Asente, Nedim Lipka and Tamar Solorio

*[TACL] Machine Learning Driven Language Assessment*

Burr Settles, Masato Hagiwara, Geoffrey T. LaFlair

*[Long] Multi-Label and Multilingual News Framing Analysis*

Afra Feyza Akyürek, Lei Guo, Randa Elanwar, Prakash Ishwar, Margrit Betke and Derry Tanti Wijaya

*[Long] Predicting Performance for Natural Language Processing Tasks*

Mengzhou Xia, Antonios Anastasopoulos, Ruochen Xu, Yiming Yang and Graham Neubig

*[Long] ScriptWriter: Narrative-Guided Script Generation*

Yutao Zhu, Ruihua Song, Zhicheng Dou, Jian-Yun NIE and Jin Zhou

*[Long] Should All Cross-Lingual Embeddings Speak English?*

Antonios Anastasopoulos and Graham Neubig

*[Short] Smart To-Do: Automatic Generation of To-Do Items from Emails*

Sudipto Mukherjee, Subhabrata Mukherjee, Marcello Hasegawa, Ahmed Hassan Awadallah and Ryen White

Wednesday, July 8, 2020 UTC+0 (continued)

**21:00–22:00 Session 15B Phonology, Morphology and Word Segmentation-7**

*[Long] A Multitask Learning Approach for Diacritic Restoration*

Sawsan Alqahtani, Ajay Mishra and Mona Diab

*[Long] Frugal Paradigm Completion*

Alexander Erdmann, Tom Kenter, Markus Becker and Christian Schallhart

*[Long] Improving Chinese Word Segmentation with Wordhood Memory Networks*

Yuanhe Tian, Yan Song, Fei Xia, Tong Zhang and Yonggang Wang

*[Long] Joint Chinese Word Segmentation and Part-of-speech Tagging via Two-way Attentions of Auto-analyzed Knowledge*

Yuanhe Tian, Yan Song, Xiang Ao, Fei Xia, Xiaojun Quan, Tong Zhang and Yonggang Wang

*[Long] Joint Diacritization, Lemmatization, Normalization, and Fine-Grained Morphological Tagging*

Nasser Zalmout and Nizar Habash

*[Long] Phonetic and Visual Priors for Decipherment of Informal Romanization*

Maria Ryskina, Matthew R. Gormley and Taylor Berg-Kirkpatrick

*[Long] Unsupervised Morphological Paradigm Completion*

Huiming Jin, Liwei Cai, Yihui Peng, Chen Xia, Arya McCarthy and Katharina Kann

Wednesday, July 8, 2020 UTC+0 (continued)

**21:00–22:00 Session 15B Semantics: Sentence Level-11**

*[Long] Beyond Possession Existence: Duration and Co-Possession*

Dhivya Chinnappa, Srikala Murugan and Eduardo Blanco

*[Short] Controlled Crowdsourcing for High-Quality QA-SRL Annotation*

Paul Roit, Ayal Klein, Daniela Stepanov, Jonathan Mamou, Julian Michael, Gabriel Stanovsky, Luke Zettlemoyer and Ido Dagan

*[Long] Don't Stop Pretraining: Adapt Language Models to Domains and Tasks*

Suchin Gururangan, Ana Marasović, Swabha Swayamdipta, Kyle Lo, Iz Beltagy, Doug Downey and Noah A. Smith

*[Long] Structured Tuning for Semantic Role Labeling*

Tao Li, Parth Anand Jawale, Martha Palmer and Vivek Srikumar

*[Long] Universal Decompositional Semantic Parsing*

Elias Stengel-Eskin, Aaron Steven White, Sheng Zhang and Benjamin Van Durme

**21:00–22:00 Session 15B Syntax: Tagging, Chunking and Parsing-6**

*[TACL] Deep Contextualized Self-training for Low Resource Dependency Parsing*

Guy Rotman, Roi Reichart

*[Long] Extracting Headless MWEs from Dependency Parse Trees: Parsing, Tagging, and Joint Modeling Approaches*

Tianze Shi and Lillian Lee

*[Short] Revisiting Higher-Order Dependency Parsers*

Erick Fonseca and André F. T. Martins

*[Long] SeqVAT: Virtual Adversarial Training for Semi-Supervised Sequence Labeling*

Luoxin Chen, Weitong Ruan, Xinyue Liu and Jianhua Lu

*[Short] Treebank Embedding Vectors for Out-of-domain Dependency Parsing*

Joachim Wagner, James Barry and Jennifer Foster

Wednesday, July 8, 2020 UTC+0 (continued)

**21:00–22:00 Session 15B Theme-6**

*[Long] Automated Evaluation of Writing – 50 Years and Counting*

Beata Beigman Klebanov and Nitin Madnani

*[Short] Negated and Misprimed Probes for Pretrained Language Models: Birds Can Talk, But Cannot Fly*

Nora Kassner and Hinrich Schütze

*[Short] On Forgetting to Cite Older Papers: An Analysis of the ACL Anthology*

Marcel Bollmann and Desmond Elliott

*[Short] Returning the N to NLP: Towards Contextually Personalized Classification Models*

Lucie Flek

*[Long] The Unstoppable Rise of Computational Linguistics in Deep Learning*

James Henderson

*[Long] To Boldly Query What No One Has Annotated Before? The Frontiers of Corpus Querying*

Markus Gärtner and Kerstin Jung

*[Long] To Test Machine Comprehension, Start by Defining Comprehension*

Jesse Dunietz, Greg Burnham, Akash Bharadwaj, Owen Rambow, Jennifer Chu-Carroll and Dave Ferrucci

*[Long] Gender Gap in Natural Language Processing Research: Disparities in Authorship and Citations*

Saif M. Mohammad

**Wednesday, July 8, 2020 UTC+0 (continued)**

**21:00–22:00    Session 15B Student Research Workshop**

*[SRW] #NotAWhore! A Computational Linguistic Perspective of Rape Culture and Victimization on Social Media*

Ashima Suvarna and Grusha Bhalla

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

J. A. Meaney

*[SRW] Effectively Aligning and Filtering Parallel Corpora under Sparse Data Conditions*

Steinþór Steingrímsson, Hrafn Loftsson and Andy Way

*[SRW] Exploring the Role of Context to Distinguish Rhetorical and Information-Seeking Questions*

Yuan Zhuang and Ellen Riloff

**21:30–22:15    Demo Session 5C**

*[Demo] What's The Latest? A Question-driven News Chatbot*

Philippe Laban, John Canny and Marti A. Hearst

*[Demo] Torch-Struct: Deep Structured Prediction Library*

Alexander Rush