

Conference Program

Monday, July 29, 2019

08:00–08:45 *Registration*

08:45–10:00 *Conference Opening and ACL Presidential Address*

10:00–10:30 *Break*

10:30–12:10 **Session 1A: Dialogue and Interactive Systems 1 - Neural Conversation Models**

10:30–10:50 *One Time of Interaction May Not Be Enough: Go Deep with an Interaction-over-Interaction Network for Response Selection in Dialogues*

Chongyang Tao, Wei Wu, Can Xu, Wenpeng Hu, Dongyan Zhao and Rui Yan

10:50–11:10 *Incremental Transformer with Deliberation Decoder for Document Grounded Conversations*

Zekang Li, Cheng Niu, Fandong Meng, Yang Feng, Qian Li and Jie Zhou

11:10–11:30 *Improving Multi-turn Dialogue Modelling with Utterance ReWriter*

Hui Su, Xiaoyu Shen, Rongzhi Zhang, Fei Sun, Pengwei Hu, Cheng Niu and Jie Zhou

11:30–11:43 *Do Neural Dialog Systems Use the Conversation History Effectively? An Empirical Study*

Chinnadhurai Sankar, Sandeep Subramanian, Chris Pal, Sarath Chandar and Yoshua Bengio

11:43–11:56 *Boosting Dialog Response Generation*

Wenchao Du and Alan W Black

11:56–12:09 *Constructing Interpretive Spatio-Temporal Features for Multi-Turn Responses Selection*

Junyu Lu, Chenbin Zhang, Zeying Xie, Guang Ling, Tom Chao Zhou and Zenglin Xu

Monday, July 29, 2019 (continued)

10:30–12:10 Session 1B: Sentence-level Semantics

- 10:30–10:50 *Semantic Parsing with Dual Learning*
Ruisheng Cao, Su Zhu, Chen Liu, Jieyu Li and Kai Yu
- 10:50–11:10 *Semantic Expressive Capacity with Bounded Memory*
Antoine Venant and Alexander Koller
- 11:10–11:30 *AMR Parsing as Sequence-to-Graph Transduction*
Sheng Zhang, Xutai Ma, Kevin Duh and Benjamin Van Durme
- 11:30–11:50 *Generating Logical Forms from Graph Representations of Text and Entities*
Peter Shaw, Philip Massey, Angelica Chen, Francesco Piccinno and Yasemin Altun
- 11:50–12:10 *Learning Compressed Sentence Representations for On-Device Text Processing*
Dinghan Shen, Pengyu Cheng, Dhanasekar Sundararaman, Xinyuan Zhang, Qian Yang, Meng Tang, Asli Celikyilmaz and Lawrence Carin

10:30–12:10 Session 1C: Tagging, Chunking, Syntax and Parsing 1

- 10:30–10:50 *The (Non-)Utility of Structural Features in BiLSTM-based Dependency Parsers*
Agnieszka Falenska and Jonas Kuhn
- 10:50–11:10 *Automatic Generation of High Quality CCGbanks for Parser Domain Adaptation*
Masashi Yoshikawa, Hiroshi Noji, Koji Mineshima and Daisuke Bekki
- 11:10–11:30 *A Joint Named-Entity Recognizer for Heterogeneous Tag-sets Using a Tag Hierarchy*
Genady Beryozkin, Yoel Drori, Oren Gilon, Tzvika Hartman and Idan Szpektor
- 11:30–11:50 *Massively Multilingual Transfer for NER*
Afshin Rahimi, Yuan Li and Trevor Cohn
- 11:50–12:10 *Reliability-aware Dynamic Feature Composition for Name Tagging*
Ying Lin, Liyuan Liu, Heng Ji, Dong Yu and Jiawei Han

Monday, July 29, 2019 (continued)

10:30–12:10 Session 1D: Machine Translation 1

- 10:30–10:50 *Unsupervised Pivot Translation for Distant Languages*
Yichong Leng, Xu Tan, Tao Qin, Xiang-Yang Li and Tie-Yan Liu
- 10:50–11:10 *Bilingual Lexicon Induction with Semi-supervision in Non-Isometric Embedding Spaces*
Barun Patra, Joel Ruben Antony Moniz, Sarthak Garg, Matthew R. Gormley and Graham Neubig
- 11:10–11:30 *An Effective Approach to Unsupervised Machine Translation*
Mikel Artetxe, Gorka Labaka and Eneko Agirre
- 11:30–11:43 *Effective Adversarial Regularization for Neural Machine Translation*
Motoki Sato, Jun Suzuki and Shun Kiyono
- 11:43–11:56 *Revisiting Low-Resource Neural Machine Translation: A Case Study*
Rico Sennrich and Biao Zhang
- 11:56–12:09 *Domain Adaptive Inference for Neural Machine Translation*
Danielle Saunders, Felix Stahlberg, Adrià de Gispert and Bill Byrne

10:30–12:10 Session 1E: Information Extraction and Text Mining 1

- 10:30–10:50 *Neural Relation Extraction for Knowledge Base Enrichment*
Bayu Distiawan Trisedya, Gerhard Weikum, Jianzhong Qi and Rui Zhang
- 10:50–11:10 *Attention Guided Graph Convolutional Networks for Relation Extraction*
Zhijiang Guo, Yan Zhang and Wei Lu
- 11:10–11:30 *Spatial Aggregation Facilitates Discovery of Spatial Topics*
Aniruddha Maiti and Slobodan Vucetic
- 11:30–11:50 *Relation Embedding with Dihedral Group in Knowledge Graph*
Canran Xu and Ruijiang Li

Monday, July 29, 2019 (continued)

11:50–12:10 *Sequence Tagging with Contextual and Non-Contextual Subword Representations: A Multilingual Evaluation*
Benjamin Heinzerling and Michael Strube

10:30–12:10 Session 1F: Machine Learning 1

10:30–10:50 *Augmenting Neural Networks with First-order Logic*
Tao Li and Vivek Srikumar

10:50–11:10 *Self-Regulated Interactive Sequence-to-Sequence Learning*
Julia Kreutzer and Stefan Riezler

11:10–11:30 *[TACL] Learning Neural Sequence-to-Sequence Models from Weak Feedback with Bipolar Ramp Loss*
Laura Jehl, Carolin Lawrence, and Stefan Riezler

11:30–11:43 *You Only Need Attention to Traverse Trees*
Mahtab Ahmed, Muhammad Rifayat Samee and Robert E. Mercer

11:43–11:56 *Cross-Domain Generalization of Neural Constituency Parsers*
Daniel Fried, Nikita Kitaev and Dan Klein

11:56–12:09 *Adaptive Attention Span in Transformers*
Sainbayar Sukhbaatar, Edouard Grave, Piotr Bojanowski and Armand Joulin

10:30–12:10 Poster Session 1

Monday, July 29, 2019 (continued)

[Applications]

Neural News Recommendation with Long- and Short-term User Representations

Mingxiao An, Fangzhao Wu, Chuhan Wu, Kun Zhang, Zheng Liu and Xing Xie

Automatic Domain Adaptation Outperforms Manual Domain Adaptation for Predicting Financial Outcomes

Marina Sedinkina, Nikolas Bretkopf and Hinrich Schütze

Manipulating the Difficulty of C-Tests

Ji-Ung Lee, Erik Schwan and Christian M. Meyer

Towards Unsupervised Text Classification Leveraging Experts and Word Embeddings

Zied Haj-Yahia, Adrien Sieg and Léa A. Deleris

Neural Text Simplification of Clinical Letters with a Domain Specific Phrase Table

Matthew Shardlow and Raheel Nawaz

What You Say and How You Say It Matters: Predicting Stock Volatility Using Verbal and Vocal Cues

Yu Qin and Yi Yang

Detecting Concealed Information in Text and Speech

Shengli Hu

Evidence-based Trustworthiness

Yi Zhang, Zachary Ives and Dan Roth

Disentangled Representation Learning for Non-Parallel Text Style Transfer

Vineet John, Lili Mou, Hareesh Bahuleyan and Olga Vechtomova

Cross-Sentence Grammatical Error Correction

Shamil Chollampatt, Weiqi Wang and Hwee Tou Ng

This Email Could Save Your Life: Introducing the Task of Email Subject Line Generation

Rui Zhang and Joel Tetreault

RankQA: Neural Question Answering with Answer Re-Ranking

Bernhard Kratzwald, Anna Eigenmann and Stefan Feuerriegel

Monday, July 29, 2019 (continued)

[Sentiment Analysis and Argument Mining]

Adversarial Attention Modeling for Multi-dimensional Emotion Regression

Suyang Zhu, Shoushan Li and Guodong Zhou

Divide, Conquer and Combine: Hierarchical Feature Fusion Network with Local and Global Perspectives for Multimodal Affective Computing

Sijie Mai, Haifeng Hu and Songlong Xing

Modeling Financial Analysts' Decision Making via the Pragmatics and Semantics of Earnings Calls

Katherine Keith and Amanda Stent

An Interactive Multi-Task Learning Network for End-to-End Aspect-Based Sentiment Analysis

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

Decompositional Argument Mining: A General Purpose Approach for Argument Graph Construction

Debelu Gemechu and Chris Reed

MELD: A Multimodal Multi-Party Dataset for Emotion Recognition in Conversations

Soujanya Poria, Devamanyu Hazarika, Navonil Majumder, Gautam Naik, Erik Cambria and Rada Mihalcea

Open-Domain Targeted Sentiment Analysis via Span-Based Extraction and Classification

Minghao Hu, Yuxing Peng, Zhen Huang, Dongsheng Li and Yiwei Lv

Transfer Capsule Network for Aspect Level Sentiment Classification

Zhuang Chen and Tieyun Qian

Progressive Self-Supervised Attention Learning for Aspect-Level Sentiment Analysis

Jialong Tang, Ziyao Lu, Jinsong Su, Yubin Ge, Linfeng Song, Le Sun and Jiebo Luo

Classification and Clustering of Arguments with Contextualized Word Embeddings

Nils Reimers, Benjamin Schiller, Tilman Beck, Johannes Daxenberger, Christian Stab and Iryna Gurevych

Monday, July 29, 2019 (continued)

Sentiment Tagging with Partial Labels using Modular Architectures

Xiao Zhang and Dan Goldwasser

DOER: Dual Cross-Shared RNN for Aspect Term-Polarity Co-Extraction

Huaishao Luo, Tianrui Li, Bing Liu and Junbo Zhang

A Corpus for Modeling User and Language Effects in Argumentation on Online Debating

Esin Durmus and Claire Cardie

[Discourse and Pragmatics]

Topic Tensor Network for Implicit Discourse Relation Recognition in Chinese

Sheng Xu, Peifeng Li, Fang Kong, Qiaoming Zhu and Guodong Zhou

Learning from Omission

Bill McDowell and Noah Goodman

Multi-Task Learning for Coherence Modeling

Younna Farag and Helen Yannakoudakis

Data Programming for Learning Discourse Structure

Sonia Badene, Kate Thompson, Jean-Pierre Lorré and Nicholas Asher

Evaluating Discourse in Structured Text Representations

Elisa Ferracane, Greg Durrett, Junyi Jessy Li and Katrin Erk

Know What You Don't Know: Modeling a Pragmatic Speaker that Refers to Objects of Unknown Categories

Sina Zarriß and David Schlangen

End-to-end Deep Reinforcement Learning Based Coreference Resolution

Hongliang Fei, Xu Li, Dingcheng Li and Ping Li

Implicit Discourse Relation Identification for Open-domain Dialogues

Mingyu Derek Ma, Kevin Bowden, Jiaqi Wu, Wen Cui and Marilyn Walker

Monday, July 29, 2019 (continued)

Coreference Resolution with Entity Equalization

Ben Kantor and Amir Globerson

A Cross-Domain Transferable Neural Coherence Model

Peng Xu, Hamidreza Saghir, Jin Sung Kang, Teng Long, Avishek Joey Bose, Yan-shuai Cao and Jackie Chi Kit Cheung

[Resources and Evaluation]

MOROCCO: The Moldavian and Romanian Dialectal Corpus

Andrei Butnaru and Radu Tudor Ionescu

Just "OneSeC" for Producing Multilingual Sense-Annotated Data

Bianca Scarlina, Tommaso Pasini and Roberto Navigli

How to (Properly) Evaluate Cross-Lingual Word Embeddings: On Strong Baselines, Comparative Analyses, and Some Misconceptions

Goran Glavaš, Robert Litschko, Sebastian Ruder and Ivan Vulić

SP-10K: A Large-scale Evaluation Set for Selectional Preference Acquisition

Hongming Zhang, Hantian Ding and Yangqiu Song

A Wind of Change: Detecting and Evaluating Lexical Semantic Change across Times and Domains

Dominik Schlechtweg, Anna Hättig, Marco Del Tredici and Sabine Schulte im Walde

Errudite: Scalable, Reproducible, and Testable Error Analysis

Tongshuang Wu, Marco Tulio Ribeiro, Jeffrey Heer and Daniel Weld

DocRED: A Large-Scale Document-Level Relation Extraction Dataset

Yuan Yao, Deming Ye, Peng Li, Xu Han, Yankai Lin, Zhenghao Liu, Zhiyuan Liu, Lixin Huang, Jie Zhou and Maosong Sun

ChID: A Large-scale Chinese IDiom Dataset for Cloze Test

Chujie Zheng, Minlie Huang and Aixin Sun

Automatic Evaluation of Local Topic Quality

Jeffrey Lund, Piper Armstrong, Wilson Fearn, Stephen Cowley, Courtnei Byun, Jordan Boyd-Graber and Kevin Seppi

Monday, July 29, 2019 (continued)

Crowdsourcing and Aggregating Nested Markable Annotations

Chris Madge, Juntao Yu, Jon Chamberlain, Udo Kruschwitz, Silviu Paun and Massimo Poesio

10:30–12:10 Student Research Workshop Poster Session 1

12:10–13:50 Lunch

13:50–15:30 Session 2A: Dialogue and Interactive Systems 2 - Task-Oriented Dialogue

13:50–14:10 *Transferable Multi-Domain State Generator for Task-Oriented Dialogue Systems*

Chien-Sheng Wu, Andrea Madotto, Ehsan Hosseini-Asl, Caiming Xiong, Richard Socher and Pascale Fung

14:10–14:30 *Multi-Task Networks with Universe, Group, and Task Feature Learning*

Shiva Pentiyala, Mengwen Liu and Markus Dreyer

14:30–14:50 *Constrained Decoding for Neural NLG from Compositional Representations in Task-Oriented Dialogue*

Anusha Balakrishnan, Jinfeng Rao, Kartikeya Upasani, Michael White and Rajen Subba

14:50–15:10 *[TACL] Learning End-to-End Goal-Oriented Dialog with Maximal User Task Success and Minimal Human Agent Use*

Janarthanan Rajendran, Jatin Ganhotra and Lazaros C. Polymenakos

15:10–15:30 *OpenDialKG: Explainable Conversational Reasoning with Attention-based Walks over Knowledge Graphs*

Seungwhan Moon, Pararth Shah, Anuj Kumar and Rajen Subba

13:50–15:30 Session 2B: Textual Inference and Other Areas of Semantics

13:50–14:10 *Coupling Retrieval and Meta-Learning for Context-Dependent Semantic Parsing*

Daya Guo, Duyu Tang, Nan Duan, Ming Zhou and Jian Yin

14:10–14:30 *Knowledge-aware Pronoun Coreference Resolution*

Hongming Zhang, Yan Song, Yangqiu Song and Dong Yu

Monday, July 29, 2019 (continued)

- 14:30–14:50 *Don't Take the Premise for Granted: Mitigating Artifacts in Natural Language Inference*
Yonatan Belinkov, Adam Poliak, Stuart Shieber, Benjamin Van Durme and Alexander Rush
- 14:50–15:10 *GEAR: Graph-based Evidence Aggregating and Reasoning for Fact Verification*
Jie Zhou, Xu Han, Cheng Yang, Zhiyuan Liu, Lifeng Wang, Changcheng Li and Maosong Sun
- 15:10–15:30 *SherLLiC: A Typed Event-Focused Lexical Inference Benchmark for Evaluating Natural Language Inference*
Martin Schmitt and Hinrich Schütze

13:50–15:30 Session 2C: Applications 1 - Health

- 13:50–14:10 *Extracting Symptoms and their Status from Clinical Conversations*
Nan Du, Kai Chen, Anjuli Kannan, Linh Tran, Yuhui Chen and Izhak Shafran
- 14:10–14:30 *What Makes a Good Counselor? Learning to Distinguish between High-quality and Low-quality Counseling Conversations*
Verónica Pérez-Rosas, Xinyi Wu, Kenneth Resnicow and Rada Mihalcea
- 14:30–14:50 *Finding Your Voice: The Linguistic Development of Mental Health Counselors*
Justine Zhang, Robert Filbin, Christine Morrison, Jaclyn Weiser and Cristian Danescu-Niculescu-Mizil
- 14:50–15:03 *Towards Automating Healthcare Question Answering in a Noisy Multilingual Low-Resource Setting*
Jeanne E. Daniel, Willie Brink, Ryan Eloff and Charles Copley
- 15:03–15:16 *Joint Entity Extraction and Assertion Detection for Clinical Text*
Parminder Bhatia, Busra Celikkaya and Mohammed Khalilia
- 15:16–15:29 *HEAD-QA: A Healthcare Dataset for Complex Reasoning*
David Vilares and Carlos Gómez-Rodríguez

Monday, July 29, 2019 (continued)

13:50–15:30 Session 2D: Sentiment Analysis and Argument Mining 1

13:50–14:10 *Are You Convinced? Choosing the More Convincing Evidence with a Siamese Network*

Martin Gleize, Eyal Shnarch, Leshem Choshen, Lena Dankin, Guy Moshkovich, Ranit Aharonov and Noam Slonim

14:10–14:30 *From Surrogacy to Adoption; From Bitcoin to Cryptocurrency: Debate Topic Expansion*

Roy Bar-Haim, Dalia Krieger, Orith Toledo-Ronen, Lilach Edelstein, Yonatan Bilu, Alon Halfon, Yoav Katz, Amir Menczel, Ranit Aharonov and Noam Slonim

14:30–14:50 *Multimodal and Multi-view Models for Emotion Recognition*

Gustavo Aguilar, Viktor Rozgic, Weiran Wang and Chao Wang

14:50–15:10 *Emotion-Cause Pair Extraction: A New Task to Emotion Analysis in Texts*

Rui Xia and Zixiang Ding

15:10–15:30 *Argument Invention from First Principles*

Yonatan Bilu, Ariel Gera, Daniel Hershcovich, Benjamin Sznajder, Dan Lahav, Guy Moshkovich, Anael Malet, Assaf Gavron and Noam Slonim

13:50–15:30 Session 2E: Summarization 1

13:50–14:10 *Improving the Similarity Measure of Determinantal Point Processes for Extractive Multi-Document Summarization*

Sangwoo Cho, Logan Lebanoff, Hassan Foroosh and Fei Liu

14:10–14:30 *Global Optimization under Length Constraint for Neural Text Summarization*

Takuya Makino, Tomoya Iwakura, Hiroya Takamura and Manabu Okumura

14:30–14:50 *Searching for Effective Neural Extractive Summarization: What Works and What's Next*

Ming Zhong, Pengfei Liu, Danqing Wang, Xipeng Qiu and Xuanjing Huang

14:50–15:10 *A Simple Theoretical Model of Importance for Summarization*

Maxime Peyrard

15:10–15:30 *Multi-News: A Large-Scale Multi-Document Summarization Dataset and Abstractive Hierarchical Model*

Alexander Fabbri, Irene Li, Tianwei She, Suyi Li and Dragomir Radev

Monday, July 29, 2019 (continued)

13:50–15:30 Session 2F: Document Analysis

13:50–14:10 *Generating Natural Language Adversarial Examples through Probability Weighted Word Saliency*

Shuhuai Ren, Yihe Deng, Kun He and Wanxiang Che

14:10–14:30 *Heuristic Authorship Obfuscation*

Janek Bevendorff, Martin Potthast, Matthias Hagen and Benno Stein

14:30–14:50 *[TACL] SECTOR: A Neural Model for Coherent Topic Segmentation and Classification*

Sebastian Arnold, Rudolf Schneider, Philippe Cudré-Mauroux, Felix A. Gers and Alexander Löser

14:50–15:10 *[TACL] Categorical Metadata Representation for Customized Text Classification*

Jihyeok Kim, Reinald Kim Amplayo, Kyungjae Lee, Sua Sung, Minji Seo and Seung-won Hwang

15:10–15:30 *Text Categorization by Learning Predominant Sense of Words as Auxiliary Task*

Kazuya Shimura, Jiyi Li and Fumiyo Fukumoto

13:50–15:30 Poster Session 2

[Applications]

DeepSentiPeer: Harnessing Sentiment in Review Texts to Recommend Peer Review Decisions

Tirthankar Ghosal, Rajeev Verma, Asif Ekbal and Pushpak Bhattacharyya

Gated Embeddings in End-to-End Speech Recognition for Conversational-Context Fusion

Suyoun Kim, Siddharth Dalmia and Florian Metze

Figurative Usage Detection of Symptom Words to Improve Personal Health Mention Detection

Adith Iyer, Aditya Joshi, Sarvnaz Karimi, Ross Sparks and Cecile Paris

Complex Word Identification as a Sequence Labelling Task

Sian Gooding and Ekaterina Kochmar

Neural News Recommendation with Topic-Aware News Representation

Chuhan Wu, Fangzhao Wu, Mingxiao An, Yongfeng Huang and Xing Xie

Monday, July 29, 2019 (continued)

Poetry to Prose Conversion in Sanskrit as a Linearisation Task: A Case for Low-Resource Languages

Amrith Krishna, Vishnu Sharma, Bishal Santra, Aishik Chakraborty, Pavankumar Satuluri and Pawan Goyal

Learning Emphasis Selection for Written Text in Visual Media from Crowd-Sourced Label Distributions

Amirreza Shirani, Franck Dernoncourt, Paul Asente, Nedim Lipka, Seokhwan Kim, Jose Echevarria and Thamar Solorio

Rumor Detection by Exploiting User Credibility Information, Attention and Multi-task Learning

Quanzhi Li, Qiong Zhang and Luo Si

Context-specific Language Modeling for Human Trafficking Detection from Online Advertisements

Saeideh Shahrokh Esfahani, Michael J. Cafarella, Mazyar Baran Pouyan, Gregory DeAngelo, Elena Eneva and Andy E. Fano

[Machine Translation]

Self-Attentional Models for Lattice Inputs

Matthias Sperber, Graham Neubig, Ngoc-Quan Pham and Alex Waibel

[TACL] Semantic Neural Machine Translation using AMR

Linfeng Song, Daniel Gildea, Yue Zhang, Zhiguo Wang and Jinsong Su

When a Good Translation is Wrong in Context: Context-Aware Machine Translation Improves on Deixis, Ellipsis, and Lexical Cohesion

Elena Voita, Rico Sennrich and Ivan Titov

A Compact and Language-Sensitive Multilingual Translation Method

Yining Wang, Long Zhou, Jiajun Zhang, Feifei Zhai, Jingfang Xu and Chengqing Zong

Unsupervised Parallel Sentence Extraction with Parallel Segment Detection Helps Machine Translation

Viktor Hangya and Alexander Fraser

Unsupervised Bilingual Word Embedding Agreement for Unsupervised Neural Machine Translation

Haipeng Sun, Rui Wang, Kehai Chen, Masao Utiyama, Eiichiro Sumita and Tiejun Zhao

Monday, July 29, 2019 (continued)

Effective Cross-lingual Transfer of Neural Machine Translation Models without Shared Vocabularies

Yunsu Kim, Yingbo Gao and Hermann Ney

Improved Zero-shot Neural Machine Translation via Ignoring Spurious Correlations

Jiatao Gu, Yong Wang, Kyunghyun Cho and Victor O.K. Li

Syntactically Supervised Transformers for Faster Neural Machine Translation

Nader Akoury, Kalpesh Krishna and Mohit Iyyer

Dynamically Composing Domain-Data Selection with Clean-Data Selection by "Co-Curricular Learning" for Neural Machine Translation

Wei Wang, Isaac Caswell and Ciprian Chelba

On the Word Alignment from Neural Machine Translation

Xintong Li, Guanlin Li, Lemao Liu, Max Meng and Shuming Shi

Imitation Learning for Non-Autoregressive Neural Machine Translation

Bingzhen Wei, Mingxuan Wang, Hao Zhou, Junyang Lin and Xu Sun

Monotonic Infinite Lookback Attention for Simultaneous Machine Translation

Naveen Arivazhagan, Colin Cherry, Wolfgang Macherey, Chung-Cheng Chiu, Semih Yavuz, Ruoming Pang, Wei Li and Colin Raffel

[Information Extraction and Text Mining]

Global Textual Relation Embedding for Relational Understanding

Zhiyu Chen, Hanwen Zha, Honglei Liu, Wenhui Chen, Xifeng Yan and Yu Su

Graph Neural Networks with Generated Parameters for Relation Extraction

Hao Zhu, Yankai Lin, Zhiyuan Liu, Jie Fu, Tat-Seng Chua and Maosong Sun

Entity-Relation Extraction as Multi-Turn Question Answering

Xiaoya Li, Fan Yin, Zijun Sun, Xiayu Li, Arianna Yuan, Duo Chai, Mingxin Zhou and Jiwei Li

Exploiting Entity BIO Tag Embeddings and Multi-task Learning for Relation Extraction with Imbalanced Data

Wei Ye, Bo Li, Rui Xie, Zhonghao Sheng, Long Chen and Shikun Zhang

Monday, July 29, 2019 (continued)

Joint Type Inference on Entities and Relations via Graph Convolutional Networks

Changzhi Sun, Yeyun Gong, Yuanbin Wu, Ming Gong, Daxin Jiang, Man Lan, Shiliang Sun and Nan Duan

Extracting Multiple-Relations in One-Pass with Pre-Trained Transformers

Haoyu Wang, Ming Tan, Mo Yu, Shiyu Chang, Dakuo Wang, Kun Xu, Xiaoxiao Guo and Saloni Potdar

Unsupervised Information Extraction: Regularizing Discriminative Approaches with Relation Distribution Losses

Étienne Simon, Vincent Guigue and Benjamin Piwowarski

Fine-tuning Pre-Trained Transformer Language Models to Distantly Supervised Relation Extraction

Christoph Alt, Marc Hübner and Leonhard Hennig

ARNOR: Attention Regularization based Noise Reduction for Distant Supervision Relation Classification

Wei Jia, Dai Dai, Xinyan Xiao and Hua Wu

GraphRel: Modeling Text as Relational Graphs for Joint Entity and Relation Extraction

Tsu-Jui Fu, Peng-Hsuan Li and Wei-Yun Ma

DIAG-NRE: A Neural Pattern Diagnosis Framework for Distantly Supervised Neural Relation Extraction

Shun Zheng, Xu Han, Yankai Lin, Peilin Yu, Lu Chen, Ling Huang, Zhiyuan Liu and Wei Xu

Multi-grained Named Entity Recognition

Congying Xia, Chenwei Zhang, Tao Yang, Yaliang Li, Nan Du, Xian Wu, Wei Fan, Fenglong Ma and Philip Yu

ERNIE: Enhanced Language Representation with Informative Entities

Zhengyan Zhang, Xu Han, Zhiyuan Liu, Xin Jiang, Maosong Sun and Qun Liu

Multi-Channel Graph Neural Network for Entity Alignment

Yixin Cao, Zhiyuan Liu, Chengjiang Li, Zhiyuan Liu, Juanzi Li and Tat-Seng Chua

A Neural Multi-digraph Model for Chinese NER with Gazetteers

Ruixue Ding, Pengjun Xie, Xiaoyan Zhang, Wei Lu, Linlin Li and Luo Si

Monday, July 29, 2019 (continued)

[Machine Learning]

Improved Language Modeling by Decoding the Past

Siddhartha Brahma

Training Hybrid Language Models by Marginalizing over Segmentations

Edouard Grave, Sainbayar Sukhbaatar, Piotr Bojanowski and Armand Joulin

Improving Neural Language Models by Segmenting, Attending, and Predicting the Future

Hongyin Luo, Lan Jiang, Yonatan Belinkov and James Glass

Lightweight and Efficient Neural Natural Language Processing with Quaternion Networks

Yi Tay, Aston Zhang, Anh Tuan Luu, Jinfeng Rao, Shuai Zhang, Shuohang Wang, Jie Fu and Siu Cheung Hui

Sparse Sequence-to-Sequence Models

Ben Peters, Vlad Niculae and André F. T. Martins

On the Robustness of Self-Attentive Models

Yu-Lun Hsieh, Minhao Cheng, Da-Cheng Juan, Wei Wei, Wen-Lian Hsu and Cho-Jui Hsieh

Exact Hard Monotonic Attention for Character-Level Transduction

Shijie Wu and Ryan Cotterell

A Lightweight Recurrent Network for Sequence Modeling

Biao Zhang and Rico Sennrich

Towards Scalable and Reliable Capsule Networks for Challenging NLP Applications

Wei Zhao, Haiyun Peng, Steffen Eger, Erik Cambria and Min Yang

Soft Representation Learning for Sparse Transfer

Haeju Park, Jinyoung Yeo, Gengyu Wang and Seung-won Hwang

Learning Representations from Imperfect Time Series Data via Tensor Rank Regularization

Paul Pu Liang, Zhun Liu, Yao-Hung Hubert Tsai, Qibin Zhao, Ruslan Salakhutdinov and Louis-Philippe Morency

Monday, July 29, 2019 (continued)

Towards Lossless Encoding of Sentences

Gabriele Prato, Mathieu Duchesneau, Sarath Chandar and Alain Tapp

[Phonology, Morphology and Word Segmentation]

Open Vocabulary Learning for Neural Chinese Pinyin IME

Zhuosheng Zhang, Yafang Huang and Hai Zhao

Using LSTMs to Assess the Obligatoriness of Phonological Distinctive Features for Phonotactic Learning

Nicole Mirea and Klinton Bicknell

Better Character Language Modeling through Morphology

Terra Blevins and Luke Zettlemoyer

Historical Text Normalization with Delayed Rewards

Simon Flachs, Marcel Bollmann and Anders Søgaard

Stochastic Tokenization with a Language Model for Neural Text Classification

Tatsuya Hiraoka, Hiroyuki Shindo and Yuji Matsumoto

13:50–15:30 Demo Session 1

15:30–16:00 *Break*

Monday, July 29, 2019 (continued)

16:00–17:40 Session 3A: Bias in Language Processing

- 16:00–16:20 *Mitigating Gender Bias in Natural Language Processing: Literature Review*
Tony Sun, Andrew Gaut, Shirlyn Tang, Yuxin Huang, Mai ElSherief, Jieyu Zhao,
Diba Mirza, Elizabeth Belding, Kai-Wei Chang and William Yang Wang
- 16:20–16:40 *Gender-preserving Debiasing for Pre-trained Word Embeddings*
Masahiro Kaneko and Danushka Bollegala
- 16:40–17:00 *Counterfactual Data Augmentation for Mitigating Gender Stereotypes in Languages with Rich Morphology*
Ran Zmigrod, Sebastian J. Mielke, Hanna Wallach and Ryan Cotterell
- 17:00–17:13 *A Transparent Framework for Evaluating Unintended Demographic Bias in Word Embeddings*
Chris Sweeney and Maryam Najafian
- 17:13–17:26 *The Risk of Racial Bias in Hate Speech Detection*
Maarten Sap, Dallas Card, Saadia Gabriel, Yejin Choi and Noah A. Smith
- 17:26–17:39 *Evaluating Gender Bias in Machine Translation*
Gabriel Stanovsky, Noah A. Smith and Luke Zettlemoyer

16:00–17:40 Session 3B: Word-level Semantics 1

- 16:00–16:20 *LSTMEmbed: Learning Word and Sense Representations from a Large Semantically Annotated Corpus with Long Short-Term Memories*
Ignacio Iacobacci and Roberto Navigli
- 16:20–16:40 *Understanding Undesirable Word Embedding Associations*
Kawin Ethayarajh, David Duvenaud and Graeme Hirst
- 16:40–17:00 *Unsupervised Discovery of Gendered Language through Latent-Variable Modeling*
Alexander Miserlis Hoyle, Lawrence Wolf-Sonkin, Hanna Wallach, Isabelle Augenstein and Ryan Cotterell
- 17:00–17:20 *Topic Sensitive Attention on Generic Corpora Corrects Sense Bias in Pretrained Embeddings*
Vihari Piratla, Sunita Sarawagi and Soumen Chakrabarti

Monday, July 29, 2019 (continued)

- 17:20–17:40 *SphereRE: Distinguishing Lexical Relations with Hyperspherical Relation Embeddings*
Chengyu Wang, Xiaofeng He and Aoying Zhou

16:00–17:40 Session 3C: Multilinguality and Morphology

- 16:00–16:20 *Multilingual Factor Analysis*
Francisco Vargas, Kamen Brestnichki, Alex Papadopoulos Korfiatis and Nils Hammerla
- 16:20–16:40 *[TACL] Learning Multilingual Word Embeddings in Latent Metric Space: A Geometric Approach*
Pratik Jawanpuria, Arjun Balgovind, Anoop Kunchukuttan and Bamdev Mishra
- 16:40–17:00 *Meaning to Form: Measuring Systematicity as Information*
Tiago Pimentel, Arya D. McCarthy, Damian Blasi, Brian Roark and Ryan Cotterell
- 17:00–17:20 *Learning Morphosyntactic Analyzers from the Bible via Iterative Annotation Projection across 26 Languages*
Garrett Nicolai and David Yarowsky
- 17:20–17:40 *Adversarial Multitask Learning for Joint Multi-Feature and Multi-Dialect Morphological Modeling*
Nasser Zalmout and Nizar Habash

16:00–17:40 Session 3D: Machine Translation 2

- 16:00–16:20 *Neural Machine Translation with Reordering Embeddings*
Kehai Chen, Rui Wang, Masao Utiyama and Eiichiro Sumita
- 16:20–16:40 *Neural Fuzzy Repair: Integrating Fuzzy Matches into Neural Machine Translation*
Bram Bulte and Arda Tezcan
- 16:40–17:00 *Learning Deep Transformer Models for Machine Translation*
Qiang Wang, Bei Li, Tong Xiao, Jingbo Zhu, Changliang Li, Derek F. Wong and Lidia S. Chao
- 17:00–17:13 *Generating Diverse Translations with Sentence Codes*
Raphael Shu, Hideki Nakayama and Kyunghyun Cho
- 17:13–17:26 *Self-Supervised Neural Machine Translation*
Dana Ruiter, Cristina España-Bonet and Josef van Genabith

Monday, July 29, 2019 (continued)

17:26–17:39 *Exploring Phoneme-Level Speech Representations for End-to-End Speech Translation*
Elizabeth Salesky, Matthias Sperber and Alan W Black

16:00–17:40 Session 3E: Vision, Robotics, Multimodal, Grounding and Speech

16:00–16:20 *Visually Grounded Neural Syntax Acquisition*
Haoyue Shi, Jiayuan Mao, Kevin Gimpel and Karen Livescu

16:20–16:40 *Stay on the Path: Instruction Fidelity in Vision-and-Language Navigation*
Vihan Jain, Gabriel Magalhaes, Alexander Ku, Ashish Vaswani, Eugene Ie and Jason Baldridge

16:40–17:00 *Expressing Visual Relationships via Language*
Hao Tan, Franck Dernoncourt, Zhe Lin, Trung Bui and Mohit Bansal

17:00–17:20 *Weakly-Supervised Spatio-Temporally Grounding Natural Sentence in Video*
Zhenfang Chen, Lin Ma, Wenhan Luo and Kwan-Yee Kenneth Wong

17:20–17:40 *The PhotoBook Dataset: Building Common Ground through Visually-Grounded Dialogue*
Janosch Haber, Tim Baumgärtner, Ece Takmaz, Lieke Gelderloos, Elia Bruni and Raquel Fernández

16:00–17:40 Session 3F: Machine Learning 2

16:00–16:20 *Continual and Multi-Task Architecture Search*
Ramakanth Pasunuru and Mohit Bansal

16:20–16:40 *Semi-supervised Stochastic Multi-Domain Learning using Variational Inference*
Yitong Li, Timothy Baldwin and Trevor Cohn

16:40–17:00 *Boosting Entity Linking Performance by Leveraging Unlabeled Documents*
Phong Le and Ivan Titov

17:00–17:20 *Pre-Learning Environment Representations for Data-Efficient Neural Instruction Following*
David Gaddy and Dan Klein

Monday, July 29, 2019 (continued)

17:20–17:40 *Reinforced Training Data Selection for Domain Adaptation*
Miaofeng Liu, Yan Song, Hongbin Zou and Tong Zhang

16:00–17:40 Poster Session 3

[Generation]

Generating Long and Informative Reviews with Aspect-Aware Coarse-to-Fine Decoding
Junyi Li, Wayne Xin Zhao, Ji-Rong Wen and Yang Song

PaperRobot: Incremental Draft Generation of Scientific Ideas
Qingyun Wang, Lifu Huang, Zhiying Jiang, Kevin Knight, Heng Ji, Mohit Bansal and Yi Luan

Rhetorically Controlled Encoder-Decoder for Modern Chinese Poetry Generation
Zhiqiang Liu, Zuohui Fu, Jie Cao, Gerard de Melo, Yik-Cheung Tam, Cheng Niu and Jie Zhou

Enhancing Topic-to-Essay Generation with External Commonsense Knowledge
Pengcheng Yang, Lei Li, Fuli Luo, Tianyu Liu and Xu Sun

Towards Fine-grained Text Sentiment Transfer
Fuli Luo, Peng Li, Pengcheng Yang, Jie Zhou, Yutong Tan, Baobao Chang, Zhifang Sui and Xu Sun

Data-to-text Generation with Entity Modeling
Ratish Puduppully, Li Dong and Mirella Lapata

Ensuring Readability and Data-fidelity using Head-modifier Templates in Deep Type Description Generation
Jiangjie Chen, Ao Wang, Haiyun Jiang, Suo Feng, Chenguang Li and Yanghua Xiao

Key Fact as Pivot: A Two-Stage Model for Low Resource Table-to-Text Generation
Shuming Ma, Pengcheng Yang, Tianyu Liu, Peng Li, Jie Zhou and Xu Sun

Unsupervised Neural Text Simplification
Sai Surya, Abhijit Mishra, Anirban Laha, Parag Jain and Karthik Sankaranarayanan

Monday, July 29, 2019 (continued)

Syntax-Infused Variational Autoencoder for Text Generation

Xinyuan Zhang, Yi Yang, Siyang Yuan, Dinghan Shen and Lawrence Carin

Towards Generating Long and Coherent Text with Multi-Level Latent Variable Models

Dinghan Shen, Asli Celikyilmaz, Yizhe Zhang, Liqun Chen, Xin Wang, Jianfeng Gao and Lawrence Carin

Jointly Learning Semantic Parser and Natural Language Generator via Dual Information Maximization

Hai Ye, Wenjie Li and Lu Wang

Learning to Select, Track, and Generate for Data-to-Text

Hayate Iso, Yui Uehara, Tatsuya Ishigaki, Hiroshi Noji, Eiji Aramaki, Ichiro Kobayashi, Yusuke Miyao, Naoaki Okazaki and Hiroya Takamura

Reinforced Dynamic Reasoning for Conversational Question Generation

Boyuan Pan, Hao Li, Ziyu Yao, Deng Cai and Huan Sun

[Summarization]

TalkSumm: A Dataset and Scalable Annotation Method for Scientific Paper Summarization Based on Conference Talks

Guy Lev, Michal Shmueli-Scheuer, Jonathan Herzig, Achiya Jerbi and David Konopnicki

Improving Abstractive Document Summarization with Salient Information Modeling

Yongjian You, Weijia Jia, Tianyi Liu and Wenmian Yang

Unsupervised Neural Single-Document Summarization of Reviews via Learning Latent Discourse Structure and its Ranking

Masaru Isonuma, Junichiro Mori and Ichiro Sakata

BiSET: Bi-directional Selective Encoding with Template for Abstractive Summarization

Kai Wang, Xiaojun Quan and Rui Wang

Neural Keyphrase Generation via Reinforcement Learning with Adaptive Rewards

Hou Pong Chan, Wang Chen, Lu Wang and Irwin King

Scoring Sentence Singletons and Pairs for Abstractive Summarization

Logan Lebanoff, Kaiqiang Song, Franck Dernoncourt, Doo Soon Kim, Seokhwan Kim, Walter Chang and Fei Liu

Monday, July 29, 2019 (continued)

Keep Meeting Summaries on Topic: Abstractive Multi-Modal Meeting Summarization

Manling Li, Lingyu Zhang, Heng Ji and Richard J. Radke

Adversarial Domain Adaptation Using Artificial Titles for Abstractive Title Generation

Francine Chen and Yan-Ying Chen

BIGPATENT: A Large-Scale Dataset for Abstractive and Coherent Summarization

Eva Sharma, Chen Li and Lu Wang

Ranking Generated Summaries by Correctness: An Interesting but Challenging Application for Natural Language Inference

Tobias Falke, Leonardo F. R. Ribeiro, Prasetya Ajie Utama, Ido Dagan and Iryna Gurevych

Self-Supervised Learning for Contextualized Extractive Summarization

Hong Wang, Xin Wang, Wenhan Xiong, Mo Yu, Xiaoxiao Guo, Shiyu Chang and William Yang Wang

On the Summarization of Consumer Health Questions

Asma Ben Abacha and Dina Demner-Fushman

Unsupervised Rewriter for Multi-Sentence Compression

Yang Zhao, Xiaoyu Shen, Wei Bi and Akiko Aizawa

[Question Answering]

Inferential Machine Comprehension: Answering Questions by Recursively Deducing the Evidence Chain from Text

Jianxing Yu, Zhengjun Zha and Jian Yin

Token-level Dynamic Self-Attention Network for Multi-Passage Reading Comprehension

Yimeng Zhuang and Huadong Wang

Explicit Utilization of General Knowledge in Machine Reading Comprehension

Chao Wang and Hui Jiang

Multi-style Generative Reading Comprehension

Kyosuke Nishida, Itsumi Saito, Kosuke Nishida, Kazutoshi Shinoda, Atsushi Otsuka, Hisako Asano and Junji Tomita

Monday, July 29, 2019 (continued)

Retrieve, Read, Rerank: Towards End-to-End Multi-Document Reading Comprehension

Minghao Hu, Yuxing Peng, Zhen Huang and Dongsheng Li

Multi-Hop Paragraph Retrieval for Open-Domain Question Answering

Yair Feldman and Ran El-Yaniv

E3: Entailment-driven Extracting and Editing for Conversational Machine Reading

Victor Zhong and Luke Zettlemoyer

Generating Question-Answer Hierarchies

Kalpesh Krishna and Mohit Iyyer

Answering while Summarizing: Multi-task Learning for Multi-hop QA with Evidence Extraction

Kosuke Nishida, Kyosuke Nishida, Masaaki Nagata, Atsushi Otsuka, Itsumi Saito, Hisako Asano and Junji Tomita

Enhancing Pre-Trained Language Representations with Rich Knowledge for Machine Reading Comprehension

An Yang, Quan Wang, Jing Liu, Kai Liu, Yajuan Lyu, Hua Wu, Qiaoqiao She and Sujian Li

XQA: A Cross-lingual Open-domain Question Answering Dataset

Jiahua Liu, Yankai Lin, Zhiyuan Liu and Maosong Sun

[TACL] Complex Program Induction for Querying Knowledge Bases in the Absence of Gold Programs

Amrita Saha, Ghulam Ahmed Ansari, Abhishek Laddha, Karthik Sankaranarayanan and Soumen Chakrabarti

[TACL] Trick Me If You Can: Human-in-the-loop Generation of Adversarial Question Answering

Eric Wallace, Pedro Rodriguez, Shi Feng, Ikuya Yamada and Jordan Boyd-Graber

[Tagging, Chunking, Syntax and Parsing]

Compound Probabilistic Context-Free Grammars for Grammar Induction

Yoon Kim, Chris Dyer and Alexander Rush

Semi-supervised Domain Adaptation for Dependency Parsing

Zhenghua Li, Xue Peng, Min Zhang, Rui Wang and Luo Si

Head-Driven Phrase Structure Grammar Parsing on Penn Treebank

Junru Zhou and Hai Zhao

Monday, July 29, 2019 (continued)

Distantly Supervised Named Entity Recognition using Positive-Unlabeled Learning

Minlong Peng, Xiaoyu Xing, Qi Zhang, Jinlan Fu and Xuanjing Huang

Multi-Task Semantic Dependency Parsing with Policy Gradient for Learning Easy-First Strategies

Shuhe Kurita and Anders Søgaard

GCDT: A Global Context Enhanced Deep Transition Architecture for Sequence Labeling

Yijin Liu, Fandong Meng, Jinchao Zhang, Jinan Xu, Yufeng Chen and Jie Zhou

Unsupervised Learning of PCFGs with Normalizing Flow

Lifeng Jin, Finale Doshi-Velez, Timothy Miller, Lane Schwartz and William Schuler

Variance of Average Surprisal: A Better Predictor for Quality of Grammar from Unsupervised PCFG Induction

Lifeng Jin and William Schuler

Cross-Domain NER using Cross-Domain Language Modeling

Chen Jia, Xiaobo Liang and Yue Zhang

Graph-based Dependency Parsing with Graph Neural Networks

Tao Ji, Yuanbin Wu and Man Lan

Wide-Coverage Neural A Parsing for Minimalist Grammars*

John Torr, Milos Stanojevic, Mark Steedman and Shay B. Cohen

[Social Media]

Multi-Modal Sarcasm Detection in Twitter with Hierarchical Fusion Model

Yitao Cai, Huiyu Cai and Xiaojun Wan

Topic-Aware Neural Keyphrase Generation for Social Media Language

Yue Wang, Jing Li, Hou Pong Chan, Irwin King, Michael R. Lyu and Shuming Shi

#YouToo? Detection of Personal Recollections of Sexual Harassment on Social Media

Arijit Ghosh Chowdhury, Ramit Sawhney, Rajiv Ratn Shah and Debanjan Mahata

Multi-task Pairwise Neural Ranking for Hashtag Segmentation

Mounica Maddela, Wei Xu and Daniel Preotiu-Pietro

Monday, July 29, 2019 (continued)

Entity-Centric Contextual Affective Analysis

Anjalie Field and Yulia Tsvetkov

Sentence-Level Evidence Embedding for Claim Verification with Hierarchical Attention Networks

Jing Ma, Wei Gao, Shafiq Joty and Kam-Fai Wong

Predicting Human Activities from User-Generated Content

Steven Wilson and Rada Mihalcea

You Write like You Eat: Stylistic Variation as a Predictor of Social Stratification

Angelo Basile, Albert Gatt and Malvina Nissim

Encoding Social Information with Graph Convolutional Networks for Political Perspective Detection in News Media

Chang Li and Dan Goldwasser

Fine-Grained Spoiler Detection from Large-Scale Review Corpora

Mengting Wan, Rishabh Misra, Ndapa Nakashole and Julian McAuley

Celebrity Profiling

Matti Wiegmann, Benno Stein and Martin Potthast

Dataset Creation for Ranking Constructive News Comments

Soichiro Fujita, Hayato Kobayashi and Manabu Okumura

Enhancing Air Quality Prediction with Social Media and Natural Language Processing

Jyun-Yu Jiang, Xue Sun, Wei Wang and Sean Young

Twitter Homophily: Network Based Prediction of User's Occupation

Jiaqi Pan, Rishabh Bhardwaj, Wei Lu, Hai Leong Chieu, Xinghao Pan and Ni Yi Puay

Tuesday, July 30, 2019

09:00–10:00 *Invited Talk 1: Simultaneous Translation: Recent Advances and Remaining Challenges by Liang Huang*

10:00–10:30 *Break*

10:30–12:10 **Session 4A: Dialogue and Generation**

10:30–10:50 *Domain Adaptive Dialog Generation via Meta Learning*
Kun Qian and Zhou Yu

10:50–11:10 *Strategies for Structuring Story Generation*
Angela Fan, Mike Lewis and Yann Dauphin

11:10–11:30 *Argument Generation with Retrieval, Planning, and Realization*
Xinyu Hua, Zhe Hu and Lu Wang

11:30–11:43 *A Simple Recipe towards Reducing Hallucination in Neural Surface Realisation*
Feng Nie, Jin-Ge Yao, Jinpeng Wang, Rong Pan and Chin-Yew Lin

11:43–11:56 *Cross-Modal Commentator: Automatic Machine Commenting Based on Cross-Modal Information*
Pengcheng Yang, Zhihan Zhang, Fuli Luo, Lei Li, Chengyang Huang and Xu Sun

11:56–12:09 *A Working Memory Model for Task-oriented Dialog Response Generation*
Xiuyi Chen, Jiaming Xu and Bo Xu

Tuesday, July 30, 2019 (continued)

10:30–12:10 Session 4B: Question Answering 1 - Multi-Hop

- 10:30–10:50 *Cognitive Graph for Multi-Hop Reading Comprehension at Scale*
Ming Ding, Chang Zhou, Qibin Chen, Hongxia Yang and Jie Tang
- 10:50–11:10 *Multi-hop Reading Comprehension across Multiple Documents by Reasoning over Heterogeneous Graphs*
Ming Tu, Guangtao Wang, Jing Huang, Yun Tang, Xiaodong He and Bowen Zhou
- 11:10–11:30 *Explore, Propose, and Assemble: An Interpretable Model for Multi-Hop Reading Comprehension*
Yichen Jiang, Nitish Joshi, Yen-Chun Chen and Mohit Bansal
- 11:30–11:50 *Avoiding Reasoning Shortcuts: Adversarial Evaluation, Training, and Model Development for Multi-Hop QA*
Yichen Jiang and Mohit Bansal
- 11:50–12:10 *Exploiting Explicit Paths for Multi-hop Reading Comprehension*
Souvik Kundu, Tushar Khot, Ashish Sabharwal and Peter Clark

10:30–12:10 Session 4C: Evaluation

- 10:30–10:50 *Sentence Mover’s Similarity: Automatic Evaluation for Multi-Sentence Texts*
Elizabeth Clark, Asli Celikyilmaz and Noah A. Smith
- 10:50–11:10 *Analysis of Automatic Annotation Suggestions for Hard Discourse-Level Tasks in Expert Domains*
Claudia Schulz, Christian M. Meyer, Jan Kieseewetter, Michael Sailer, Elisabeth Bauer, Martin R. Fischer, Frank Fischer and Iryna Gurevych
- 11:10–11:30 *Deep Dominance - How to Properly Compare Deep Neural Models*
Rotem Dror, Segev Shlomov and Roi Reichart
- 11:30–11:43 *We Need to Talk about Standard Splits*
Kyle Gorman and Steven Bedrick
- 11:43–11:56 *Aiming beyond the Obvious: Identifying Non-Obvious Cases in Semantic Similarity Datasets*
Nicole Peinelt, Maria Liakata and Dong Nguyen

Tuesday, July 30, 2019 (continued)

11:56–12:09 *Putting Evaluation in Context: Contextual Embeddings Improve Machine Translation Evaluation*

Nitika Mathur, Timothy Baldwin and Trevor Cohn

10:30–12:10 Session 4D: Social Media 1

10:30–10:50 *Joint Effects of Context and User History for Predicting Online Conversation Re-entries*

Xingshan Zeng, Jing Li, Lu Wang and Kam-Fai Wong

10:50–11:10 *CONAN - COunter NARratives through Nichesourcing: a Multilingual Dataset of Responses to Fight Online Hate Speech*

Yi-Ling Chung, Elizaveta Kuzmenko, Serra Sinem Tekiroglu and Marco Guerini

11:10–11:30 *Categorizing and Inferring the Relationship between the Text and Image of Twitter Posts*

Alakananda Vempala and Daniel Preoțiuc-Pietro

11:30–11:43 *Who Sides with Whom? Towards Computational Construction of Discourse Networks for Political Debates*

Sebastian Padó, Andre Blessing, Nico Blokker, Erenay Dayanik, Sebastian Haunss and Jonas Kuhn

11:43–11:56 *Analyzing Linguistic Differences between Owner and Staff Attributed Tweets*

Daniel Preoțiuc-Pietro and Rita Devlin Marier

11:56–12:09 *Exploring Author Context for Detecting Intended vs Perceived Sarcasm*

Silviu Oprea and Walid Magdy

Tuesday, July 30, 2019 (continued)

10:30–12:10 Session 4E: Information Extraction and Text Mining 2

- 10:30–10:50 *Open Domain Event Extraction Using Neural Latent Variable Models*
Xiao Liu, Heyan Huang and Yue Zhang
- 10:50–11:10 *Multi-Level Matching and Aggregation Network for Few-Shot Relation Classification*
Zhi-Xiu Ye and Zhen-Hua Ling
- 11:10–11:30 *Quantifying Similarity between Relations with Fact Distribution*
Weize Chen, Hao Zhu, Xu Han, Zhiyuan Liu and Maosong Sun
- 11:30–11:50 *Matching the Blanks: Distributional Similarity for Relation Learning*
Livio Baldini Soares, Nicholas FitzGerald, Jeffrey Ling and Tom Kwiatkowski
- 11:50–12:10 *Fine-Grained Temporal Relation Extraction*
Siddharth Vashishtha, Benjamin Van Durme and Aaron Steven White

10:30–12:10 Session 4F: Machine Learning 3

- 10:30–10:50 *FIESTA: Fast IdEntification of State-of-The-Art models using adaptive bandit algorithms*
Henry Moss, Andrew Moore, David Leslie and Paul Rayson
- 10:50–11:10 *Is Attention Interpretable?*
Sofia Serrano and Noah A. Smith
- 11:10–11:30 *Correlating Neural and Symbolic Representations of Language*
Grzegorz Chrupała and Afra Alishahi
- 11:30–11:50 *Interpretable Neural Predictions with Differentiable Binary Variables*
Joost Bastings, Wilker Aziz and Ivan Titov
- 11:50–12:10 *Transformer-XL: Attentive Language Models beyond a Fixed-Length Context*
Zihang Dai, Zhilin Yang, Yiming Yang, Jaime Carbonell, Quoc Le and Ruslan Salakhutdinov

Tuesday, July 30, 2019 (continued)

10:30–12:10 Poster Session 4

[Machine Translation]

Domain Adaptation of Neural Machine Translation by Lexicon Induction

Junjie Hu, Mengzhou Xia, Graham Neubig and Jaime Carbonell

Reference Network for Neural Machine Translation

Han Fu, Chenghao Liu and Jianling Sun

Retrieving Sequential Information for Non-Autoregressive Neural Machine Translation

Chenze Shao, Yang Feng, Jinchao Zhang, Fandong Meng, Xilin Chen and Jie Zhou

STACL: Simultaneous Translation with Implicit Anticipation and Controllable Latency using Prefix-to-Prefix Framework

Mingbo Ma, Liang Huang, Hao Xiong, Renjie Zheng, Kaibo Liu, Baigong Zheng, Chuanqiang Zhang, Zhongjun He, Hairong Liu, Xing Li, Hua Wu and Haifeng Wang

Look Harder: A Neural Machine Translation Model with Hard Attention

Sathish Reddy Indurthi, Insoo Chung and Sangha Kim

Robust Neural Machine Translation with Joint Textual and Phonetic Embedding

Hairong Liu, Mingbo Ma, Liang Huang, Hao Xiong and Zhongjun He

A Simple and Effective Approach to Automatic Post-Editing with Transfer Learning

Gonalo M. Correia and Andr  F. T. Martins

Translating Translationese: A Two-Step Approach to Unsupervised Machine Translation

Nima Pourdamghani, Nada Aldarrab, Marjan Ghazvininejad, Kevin Knight and Jonathan May

Training Neural Machine Translation to Apply Terminology Constraints

Georgiana Dinu, Prashant Mathur, Marcello Federico and Yaser Al-Onaizan

Leveraging Local and Global Patterns for Self-Attention Networks

Mingzhou Xu, Derek F. Wong, Baosong Yang, Yue Zhang and Lidia S. Chao

Tuesday, July 30, 2019 (continued)

Sentence-Level Agreement for Neural Machine Translation

Mingming Yang, Rui Wang, Kehai Chen, Masao Utiyama, Eiichiro Sumita, Min Zhang and Tiejun Zhao

Multilingual Unsupervised NMT using Shared Encoder and Language-Specific Decoders

Sukanta Sen, Kamal Kumar Gupta, Asif Ekbal and Pushpak Bhattacharyya

Lattice-Based Transformer Encoder for Neural Machine Translation

Fengshun Xiao, Jiangtong Li, Hai Zhao, Rui Wang and Kehai Chen

[Multilinguality]

Multi-Source Cross-Lingual Model Transfer: Learning What to Share

Xilun Chen, Ahmed Hassan Awadallah, Hany Hassan, Wei Wang and Claire Cardie

Unsupervised Multilingual Word Embedding with Limited Resources using Neural Language Models

Takashi Wada, Tomoharu Iwata and Yuji Matsumoto

Choosing Transfer Languages for Cross-Lingual Learning

Yu-Hsiang Lin, Chian-Yu Chen, Jean Lee, Zirui Li, Yuyan Zhang, Mengzhou Xia, Shruti Rijhwani, Junxian He, Zhisong Zhang, Xuezhe Ma, Antonios Anastasopoulos, Patrick Littell and Graham Neubig

CogNet: A Large-Scale Cognate Database

Khuyagbaatar Batsuren, Gabor Bella and Fausto Giunchiglia

Neural Decipherment via Minimum-Cost Flow: From Ugaritic to Linear B

Jiaming Luo, Yuan Cao and Regina Barzilay

Cross-lingual Knowledge Graph Alignment via Graph Matching Neural Network

Kun Xu, Liwei Wang, Mo Yu, Yansong Feng, Yan Song, Zhiguo Wang and Dong Yu

Zero-Shot Cross-Lingual Abstractive Sentence Summarization through Teaching Generation and Attention

Xiangyu Duan, Mingming Yin, Min Zhang, Boxing Chen and Weihua Luo

Improving Low-Resource Cross-lingual Document Retrieval by Reranking with Deep Bilingual Representations

Rui Zhang, Caitlin Westerfield, Sungrok Shim, Garrett Bingham, Alexander Fabbri, William Hu, Neha Verma and Dragomir Radev

Tuesday, July 30, 2019 (continued)

Are Girls Neko or Shōjo? Cross-Lingual Alignment of Non-Isomorphic Embeddings with Iterative Normalization

Mozhi Zhang, Keyulu Xu, Ken-ichi Kawarabayashi, Stefanie Jegelka and Jordan Boyd-Graber

MAAM: A Morphology-Aware Alignment Model for Unsupervised Bilingual Lexicon Induction

Pengcheng Yang, Fuli Luo, Peng Chen, Tianyu Liu and Xu Sun

Margin-based Parallel Corpus Mining with Multilingual Sentence Embeddings

Mikel Artetxe and Holger Schwenk

JW300: A Wide-Coverage Parallel Corpus for Low-Resource Languages

Željko Agić and Ivan Vulić

Cross-Lingual Syntactic Transfer through Unsupervised Adaptation of Invertible Projections

Junxian He, Zhisong Zhang, Taylor Berg-Kirkpatrick and Graham Neubig

Unsupervised Joint Training of Bilingual Word Embeddings

Benjamin Marie and Atsushi Fujita

[Word-level Semantics]

Inferring Concept Hierarchies from Text Corpora via Hyperbolic Embeddings

Matthew Le, Stephen Roller, Laetitia Papaxanthos, Douwe Kiela and Maximilian Nickel

Is Word Segmentation Necessary for Deep Learning of Chinese Representations?

Xiaoya Li, Yuxian Meng, Xiaofei Sun, Qinghong Han, Arianna Yuan and Jiwei Li

Towards Understanding Linear Word Analogies

Kawin Ethayarajh, David Duvenaud and Graeme Hirst

On the Compositionality Prediction of Noun Phrases using Poincaré Embeddings

Abhik Jana, Dima Puzyrev, Alexander Panchenko, Pawan Goyal, Chris Biemann and Animesh Mukherjee

Robust Representation Learning of Biomedical Names

Minh C. Phan, Aixin Sun and Yi Tay

Tuesday, July 30, 2019 (continued)

Relational Word Embeddings

Jose Camacho-Collados, Luis Espinosa Anke and Steven Schockaert

Unraveling Antonym's Word Vectors through a Siamese-like Network

Mathias Etcheverry and Dina Wonsever

Incorporating Syntactic and Semantic Information in Word Embeddings using Graph Convolutional Networks

Shikhar Vashishth, Manik Bhandari, Prateek Yadav, Piyush Rai, Chiranjib Bhattacharyya and Partha Talukdar

Word and Document Embedding with vMF-Mixture Priors on Context Word Vectors

Shoaib Jameel and Steven Schockaert

Delta Embedding Learning

Xiao Zhang, Ji Wu and Dejing Dou

Annotation and Automatic Classification of Aspectual Categories

Markus Egg, Helena Prepens and Will Roberts

Putting Words in Context: LSTM Language Models and Lexical Ambiguity

Laura Aina, Kristina Gulordava and Gemma Boleda

Making Fast Graph-based Algorithms with Graph Metric Embeddings

Andrey Kutuzov, Mohammad Dorgham, Oleksiy Oliynyk, Chris Biemann and Alexander Panchenko

Embedding Imputation with Grounded Language Information

Ziyi Yang, Chenguang Zhu, Vin Sachidananda and Eric Darve

The Effectiveness of Simple Hybrid Systems for Hypernym Discovery

William Held and Nizar Habash

BERT-based Lexical Substitution

Wangchunshu Zhou, Tao Ge, Ke Xu, Furu Wei and Ming Zhou

Exploring Numeracy in Word Embeddings

Aakanksha Naik, Abhilasha Ravichander, Carolyn Rose and Eduard Hovy

Tuesday, July 30, 2019 (continued)

10:30–12:10 Student Research Workshop Poster Session 2

12:10–13:50 *Lunch*

13:50–15:30 Session 5A: Generation 1

13:50–14:10 *[TACL] Probabilistic Verb Selection for Data-to-Text Generation*

Dell Zhang, Jiahao Yuan, Xiaoling Wang and Adam Foster

14:10–14:30 *HighRES: Highlight-based Reference-less Evaluation of Summarization*

Hardy Hardy, Shashi Narayan and Andreas Vlachos

14:30–14:50 *EditNTS: An Neural Programmer-Interpreter Model for Sentence Simplification through Explicit Editing*

Yue Dong, Zichao Li, Mehdi Rezagholizadeh and Jackie Chi Kit Cheung

14:50–15:10 *Decomposable Neural Paraphrase Generation*

Zichao Li, Xin Jiang, Lifeng Shang and Qun Liu

15:10–15:30 *Transforming Complex Sentences into a Semantic Hierarchy*

Christina Niklaus, Matthias Cetto, André Freitas and Siegfried Handschuh

13:50–15:30 Session 5B: Semantics

13:50–14:10 *[TACL] No Word is an Island - A Transformation Weighting Model for Semantic Composition*

Corina Dima, Daniël de Kok, Neele Witte and Erhard Hinrichs

14:10–14:30 *[TACL] Syntax-aware Semantic Role Labeling without Parsing*

Rui Cai and Mirella Lapata

14:30–14:50 *Right for the Wrong Reasons: Diagnosing Syntactic Heuristics in Natural Language Inference*

Tom McCoy, Ellie Pavlick and Tal Linzen

14:50–15:10 *Zero-Shot Entity Linking by Reading Entity Descriptions*

Lajanugen Logeswaran, Ming-Wei Chang, Kenton Lee, Kristina Toutanova, Jacob Devlin and Honglak Lee

15:10–15:30 *[TACL] Learning Typed Entailment Graphs with Global Soft Constraints*

Mohammad Javad Hosseini, Nathanael Chambers, Siva Reddy, Xavier R. Holt, Shay B. Cohen, Mark Johnson and Mark Steedman

Tuesday, July 30, 2019 (continued)

13:50–15:30 Session 5C: Tagging, Chunking, Syntax and Parsing 2

13:50–14:10 *[TACL] Joint Transition-Based Models for Morpho-Syntactic Parsing: Parsing Strategies for MRLs and a Case Study from Modern Hebrew*
Amir More, Amit Seker, Victoria Basmova and Reut Tsarfaty

14:10–14:30 *Dual Adversarial Neural Transfer for Low-Resource Named Entity Recognition*
Joey Tianyi Zhou, Hao Zhang, Di Jin, Hongyuan Zhu, Meng Fang, Rick Siow Mong Goh and Kenneth Kwok

14:30–14:50 *Scalable Syntax-Aware Language Models Using Knowledge Distillation*
Adhiguna Kuncoro, Chris Dyer, Laura Rimell, Stephen Clark and Phil Blunsom

14:50–15:03 *An Imitation Learning Approach to Unsupervised Parsing*
Bowen Li, Lili Mou and Frank Keller

15:03–15:16 *Women’s Syntactic Resilience and Men’s Grammatical Luck: Gender-Bias in Part-of-Speech Tagging and Dependency Parsing*
Aparna Garimella, Carmen Banea, Dirk Hovy and Rada Mihalcea

15:16–15:29 *Multilingual Constituency Parsing with Self-Attention and Pre-Training*
Nikita Kitaev, Steven Cao and Dan Klein

13:50–15:30 Session 5D: Sentiment Analysis and Argument Mining 2

13:50–14:10 *A Multilingual BPE Embedding Space for Universal Sentiment Lexicon Induction*
Mengjie Zhao and Hinrich Schütze

14:10–14:30 *Tree Communication Models for Sentiment Analysis*
Yuan Zhang and Yue Zhang

14:30–14:50 *Improved Sentiment Detection via Label Transfer from Monolingual to Synthetic Code-Switched Text*
Bidisha Samanta, Niloy Ganguly and Soumen Chakrabarti

14:50–15:10 *Exploring Sequence-to-Sequence Learning in Aspect Term Extraction*
Dehong Ma, Sujian Li, Fangzhao Wu, Xing Xie and Houfeng Wang

15:10–15:30 *Aspect Sentiment Classification Towards Question-Answering with Reinforced Bidirectional Attention Network*
Jingjing Wang, Changlong Sun, Shoushan Li, Xiaozhong Liu, Luo Si, Min Zhang and Guodong Zhou

Tuesday, July 30, 2019 (continued)

13:50–15:30 Session 5E: Visual and Multimodal Question Answering

- 13:50–14:10 *ELI5: Long Form Question Answering*
Angela Fan, Yacine Jernite, Ethan Perez, David Grangier, Jason Weston and Michael Auli
- 14:10–14:30 *Textbook Question Answering with Multi-modal Context Graph Understanding and Self-supervised Open-set Comprehension*
Daesik Kim, Seonhoon Kim and Nojun Kwak
- 14:30–14:50 *Generating Question Relevant Captions to Aid Visual Question Answering*
Jialin Wu, Zeyuan Hu and Raymond Mooney
- 14:50–15:03 *Multi-grained Attention with Object-level Grounding for Visual Question Answering*
Pingping Huang, Jianhui Huang, Yuqing Guo, Min Qiao and Yong Zhu
- 15:03–15:16 *Psycholinguistics Meets Continual Learning: Measuring Catastrophic Forgetting in Visual Question Answering*
Claudio Greco, Barbara Plank, Raquel Fernández and Raffaella Bernardi
- 15:16–15:29 *Improving Visual Question Answering by Referring to Generated Paragraph Captions*
Hyoungun Kim and Mohit Bansal

13:50–15:30 Session 5F: Multidisciplinary

- 13:50–14:10 *Shared-Private Bilingual Word Embeddings for Neural Machine Translation*
Xuebo Liu, Derek F. Wong, Yang Liu, Lidia S. Chao, Tong Xiao and Jingbo Zhu
- 14:10–14:30 *Literary Event Detection*
Matthew Sims, Jong Ho Park and David Bamman
- 14:30–14:50 *Assessing the Ability of Self-Attention Networks to Learn Word Order*
Baosong Yang, Longyue Wang, Derek F. Wong, Lidia S. Chao and Zhaopeng Tu
- 14:50–15:03 *Energy and Policy Considerations for Deep Learning in NLP*
Emma Strubell, Ananya Ganesh and Andrew McCallum

Tuesday, July 30, 2019 (continued)

15:03–15:16 *What Does BERT Learn about the Structure of Language?*

Ganesh Jawahar, Benoît Sagot and Djamé Seddah

15:16–15:29 *A Just and Comprehensive Strategy for Using NLP to Address Online Abuse*

David Jurgens, Libby Hemphill and Eshwar Chandrasekharan

13:50–15:30 Poster Session 5

[Dialogue and Interactive Systems]

Learning from Dialogue after Deployment: Feed Yourself, Chatbot!

Braden Hancock, Antoine Bordes, Pierre-Emmanuel Mazare and Jason Weston

Generating Responses with a Specific Emotion in Dialog

Zhenqiao Song, Xiaoqing Zheng, Lu Liu, Mu Xu and Xuanjing Huang

Semantically Conditioned Dialog Response Generation via Hierarchical Disentangled Self-Attention

Wenhu Chen, Jianshu Chen, Pengda Qin, Xifeng Yan and William Yang Wang

Incremental Learning from Scratch for Task-Oriented Dialogue Systems

Weikang Wang, Jiajun Zhang, Qian Li, Mei-Yuh Hwang, Chengqing Zong and Zhifei Li

ReCoSa: Detecting the Relevant Contexts with Self-Attention for Multi-turn Dialogue Generation

Hainan Zhang, Yanyan Lan, Liang Pang, Jiafeng Guo and Xueqi Cheng

Dialogue Natural Language Inference

Sean Welleck, Jason Weston, Arthur Szlam and Kyunghyun Cho

Budgeted Policy Learning for Task-Oriented Dialogue Systems

Zhirui Zhang, Xiujun Li, Jianfeng Gao and Enhong Chen

Comparison of Diverse Decoding Methods from Conditional Language Models

Daphne Ippolito, Reno Kriz, Joao Sedoc, Maria Kustikova and Chris Callison-Burch

Tuesday, July 30, 2019 (continued)

Retrieval-Enhanced Adversarial Training for Neural Response Generation

Qingfu Zhu, Lei Cui, Wei-Nan Zhang, Furu Wei and Ting Liu

Vocabulary Pyramid Network: Multi-Pass Encoding and Decoding with Multi-Level Vocabularies for Response Generation

Cao Liu, Shizhu He, Kang Liu and Jun Zhao

On-device Structured and Context Partitioned Projection Networks

Sujith Ravi and Zornitsa Kozareva

Proactive Human-Machine Conversation with Explicit Conversation Goal

Wenquan Wu, Zhen Guo, Xiangyang Zhou, Hua Wu, Xiyuan Zhang, Rongzhong Lian and Haifeng Wang

Learning a Matching Model with Co-teaching for Multi-turn Response Selection in Retrieval-based Dialogue Systems

Jiazhan Feng, Chongyang Tao, Wei Wu, Yansong Feng, Dongyan Zhao and Rui Yan

Learning to Abstract for Memory-augmented Conversational Response Generation

Zhiliang Tian, Wei Bi, Xiaopeng Li and Nevin L. Zhang

Are Training Samples Correlated? Learning to Generate Dialogue Responses with Multiple References

Lisong Qiu, Juntao Li, Wei Bi, Dongyan Zhao and Rui Yan

Pretraining Methods for Dialog Context Representation Learning

Shikib Mehri, Evgeniia Razumovskaia, Tiancheng Zhao and Maxine Eskenazi

A Large-Scale Corpus for Conversation Disentanglement

Jonathan K. Kummerfeld, Sai R. Gouravajhala, Joseph J. Peper, Vignesh Athreya, Chulaka Gunasekara, Jatin Ganhotra, Siva Sankalp Patel, Lazaros C Polymenakos and Walter Lasecki

Self-Supervised Dialogue Learning

Jiawei Wu, Xin Wang and William Yang Wang

Tuesday, July 30, 2019 (continued)

[Linguistic Theories, Cognitive Modeling and Psycholinguistics]

Are we there yet? Encoder-decoder neural networks as cognitive models of English past tense inflection

Maria Corkery, Yevgen Matuskevych and Sharon Goldwater

A Spreading Activation Framework for Tracking Conceptual Complexity of Texts

Ioana Hulpuş, Sanja Štajner and Heiner Stuckenschmidt

End-to-End Sequential Metaphor Identification Inspired by Linguistic Theories

Rui Mao, Chenghua Lin and Frank Guerin

Diachronic Sense Modeling with Deep Contextualized Word Embeddings: An Ecological View

Renfen Hu, Shen Li and Shichen Liang

Miss Tools and Mr Fruit: Emergent Communication in Agents Learning about Object Affordances

Diane Bouchacourt and Marco Baroni

CNNs found to jump around more skillfully than RNNs: Compositional Generalization in Seq2seq Convolutional Networks

Roberto Dessì and Marco Baroni

Uncovering Probabilistic Implications in Typological Knowledge Bases

Johannes Bjerva, Yova Kementchedjhieva, Ryan Cotterell and Isabelle Augenstein

Is Word Segmentation Child's Play in All Languages?

Georgia R. Loukatou, Steven Moran, Damian Blasi, Sabine Stoll and Alejandrina Cristia

On the Distribution of Deep Clausal Embeddings: A Large Cross-linguistic Study

Damian Blasi, Ryan Cotterell, Lawrence Wolf-Sonkin, Sabine Stoll, Balthasar Bickel and Marco Baroni

Attention-based Conditioning Methods for External Knowledge Integration

Katerina Margatina, Christos Baziotis and Alexandros Potamianos

Tuesday, July 30, 2019 (continued)

[Resources and Evaluation]

The KnowRef Coreference Corpus: Removing Gender and Number Cues for Difficult Pronominal Anaphora Resolution

Ali Emami, Paul Trichelair, Adam Trischler, Kaheer Suleman, Hannes Schulz and Jackie Chi Kit Cheung

StRE: Self Attentive Edit Quality Prediction in Wikipedia

Soumya Sarkar, Bhanu Prakash Reddy, Sandipan Sikdar and Animesh Mukherjee

How Large Are Lions? Inducing Distributions over Quantitative Attributes

Yanai Elazar, Abhijit Mahabal, Deepak Ramachandran, Tania Bedrax-Weiss and Dan Roth

Fine-Grained Sentence Functions for Short-Text Conversation

Wei Bi, Jun Gao, Xiaojiang Liu and Shuming Shi

Give Me More Feedback II: Annotating Thesis Strength and Related Attributes in Student Essays

Zixuan Ke, Hrishikesh Inamdar, Hui Lin and Vincent Ng

Crowdsourcing and Validating Event-focused Emotion Corpora for German and English

Enrica Troiano, Sebastian Padó and Roman Klinger

Pay Attention when you Pay the Bills. A Multilingual Corpus with Dependency-based and Semantic Annotation of Collocations.

Marcos Garcia, Marcos García Salido, Susana Sotelo, Estela Mosqueira and Margarita Alonso-Ramos

Does it Make Sense? And Why? A Pilot Study for Sense Making and Explanation

Cunxiang Wang, Shuailong Liang, Yue Zhang, Xiaonan Li and Tian Gao

Large Dataset and Language Model Fun-Tuning for Humor Recognition

Vladislav Blinov, Valeria Bolotova-Baranova and Pavel Braslavski

Tuesday, July 30, 2019 (continued)

[Machine Learning]

Towards Language Agnostic Universal Representations

Armen Aghajanyan, Xia Song and Saurabh Tiwary

Leveraging Meta Information in Short Text Aggregation

He Zhao, Lan Du, Guanfeng Liu and Wray Buntine

Exploiting Invertible Decoders for Unsupervised Sentence Representation Learning

Shuai Tang and Virginia R. de Sa

Self-Attentive, Multi-Context One-Class Classification for Unsupervised Anomaly Detection on Text

Lukas Ruff, Yury Zemlyanskiy, Robert Vandermeulen, Thomas Schnake and Marius Kloft

Hubless Nearest Neighbor Search for Bilingual Lexicon Induction

Jiaji Huang, Qiang Qiu and Kenneth Church

Distant Learning for Entity Linking with Automatic Noise Detection

Phong Le and Ivan Titov

Learning How to Active Learn by Dreaming

Thuy-Trang Vu, Ming Liu, Dinh Phung and Gholamreza Haffari

Few-Shot Representation Learning for Out-Of-Vocabulary Words

Ziniu Hu, Ting Chen, Kai-Wei Chang and Yizhou Sun

Neural Temporality Adaptation for Document Classification: Diachronic Word Embeddings and Domain Adaptation Models

Xiaolei Huang and Michael J. Paul

Learning Transferable Feature Representations Using Neural Networks

Himanshu Sharad Bhatt, Shourya Roy, Arun Rajkumar and Sriranjani Ramakrishnan

Bayes Test of Precision, Recall, and F1 Measure for Comparison of Two Natural Language Processing Models

Ruibao Wang and Jihong Li

Tuesday, July 30, 2019 (continued)

TIGS: An Inference Algorithm for Text Infilling with Gradient Search

Dayiheng Liu, Jie Fu, Pengfei Liu and Jiancheng Lv

Keeping Notes: Conditional Natural Language Generation with a Scratchpad Encoder

Ryan Benmalek, Madian Khabisa, Suma Desu, Claire Cardie and Michele Banko

13:50–15:30 **Demo Session 2**

15:30–16:00 *Break*

16:00–17:20 *Lifetime Achievement Award +Talk and Test of Time Awards*

17:20–17:30 *Short Break*

17:30–19:00 *ACL Business Meeting*

19:00–19:15 *Break*

19:15–late *Social Event*

Wednesday, July 31, 2019

09:00–10:00 *Invited Talk 2: Loquentes Machinis: Technology, Applications, and Ethics of Conversational Systems by Pascale Fung*

10:00–10:30 *Break*

10:30–12:10 **Session 6A: Discourse and Pragmatics**

10:30–10:50 *Using Automatically Extracted Minimum Spans to Disentangle Coreference Evaluation from Boundary Detection*

Nafise Sadat Moosavi, Leo Born, Massimo Poesio and Michael Strube

10:50–11:10 *Revisiting Joint Modeling of Cross-document Entity and Event Coreference Resolution*

Shany Barhom, Vered Shwartz, Alon Eirew, Michael Bugert, Nils Reimers and Ido Dagan

11:10–11:30 *A Unified Linear-Time Framework for Sentence-Level Discourse Parsing*

Xiang Lin, Shafiq Joty, Prathyusha Jwalapuram and M Saiful Bari

11:30–11:43 *Employing the Correspondence of Relations and Connectives to Identify Implicit Discourse Relations via Label Embeddings*

Linh The Nguyen, Linh Van Ngo, Khoat Than and Thien Huu Nguyen

11:43–11:56 *Do You Know That Florence Is Packed with Visitors? Evaluating State-of-the-art Models of Speaker Commitment*

Nanjiang Jiang and Marie-Catherine de Marneffe

11:56–12:09 *Multi-Relational Script Learning for Discourse Relations*

I-Ta Lee and Dan Goldwasser

Wednesday, July 31, 2019 (continued)

10:30–12:10 Session 6B: Question Answering 2

- 10:30–10:50 *Open-Domain Why-Question Answering with Adversarial Learning to Encode Answer Texts*
Jong-Hoon Oh, Kazuma Kadowaki, Julien Kloetzer, Ryu Iida and Kentaro Torisawa
- 10:50–11:10 *Learning to Ask Unanswerable Questions for Machine Reading Comprehension*
Haichao Zhu, Li Dong, Furu Wei, Wenhui Wang, Bing Qin and Ting Liu
- 11:10–11:30 *[TACL] Natural Questions: a Benchmark for Question Answering Research*
Tom Kwiatkowski, Jennimaria Palomaki, Olivia Redfield, Michael Collins, Ankur Parikh, Chris Alberti, Danielle Epstein, Illia Polosukhin, Matthew Kelcey, Jacob Devlin, Kenton Lee, Kristina N. Toutanova, Llion Jones, Ming-Wei Chang, Andrew Dai, Jakob Uszkoreit, Quoc Le and Slav Petrov
- 11:30–11:43 *Compositional Questions Do Not Necessitate Multi-hop Reasoning*
Sewon Min, Eric Wallace, Sameer Singh, Matt Gardner, Hannaneh Hajishirzi and Luke Zettlemoyer
- 11:43–11:56 *Improving Question Answering over Incomplete KBs with Knowledge-Aware Reader*
Wenhan Xiong, Mo Yu, Shiyu Chang, Xiaoxiao Guo and William Yang Wang
- 11:56–12:09 *AdaNSP: Uncertainty-driven Adaptive Decoding in Neural Semantic Parsing*
Xiang Zhang, Shizhu He, Kang Liu and Jun Zhao

10:30–12:10 Session 6C: Applications 2

- 10:30–10:50 *The Language of Legal and Illegal Activity on the Darknet*
Leshem Choshen, Dan Eldad, Daniel Hershcovich, Elior Sulem and Omri Abend
- 10:50–11:10 *Eliciting Knowledge from Experts: Automatic Transcript Parsing for Cognitive Task Analysis*
Junyi Du, He Jiang, Jiaming Shen and Xiang Ren
- 11:10–11:30 *Course Concept Expansion in MOOCs with External Knowledge and Interactive Game*
Jifan Yu, Chenyu Wang, Gan Luo, Lei Hou, Juanzi Li, Zhiyuan Liu and Jie Tang
- 11:30–11:43 *Towards Near-imperceptible Steganographic Text*
Falcon Dai and Zheng Cai

Wednesday, July 31, 2019 (continued)

11:43–11:56 *Inter-sentence Relation Extraction with Document-level Graph Convolutional Neural Network*

Sunil Kumar Sahu, Fenia Christopoulou, Makoto Miwa and Sophia Ananiadou

11:56–12:09 *Neural Legal Judgment Prediction in English*

Ilias Chalkidis, Ion Androutsopoulos and Nikolaos Aletras

10:30–12:10 Session 6D: Machine Translation 3

10:30–10:50 *Robust Neural Machine Translation with Doubly Adversarial Inputs*

Yong Cheng, Lu Jiang and Wolfgang Macherey

10:50–11:10 *Bridging the Gap between Training and Inference for Neural Machine Translation*

Wen Zhang, Yang Feng, Fandong Meng, Di You and Qun Liu

11:10–11:30 *[TACL] Integrating Weakly Supervised Word Sense Disambiguation into Neural Machine Translation*

Xiao Pu, Nikolaos Pappas, James Henderson and Andrei Popescu-Belis

11:30–11:50 *[TACL] Synchronous Bidirectional Neural Machine Translation*

Long Zhou, Jiajun Zhang and Chengqing Zong

11:50–12:10 *Beyond BLEU: Training Neural Machine Translation with Semantic Similarity*

John Wieting, Taylor Berg-Kirkpatrick, Kevin Gimpel and Graham Neubig

10:30–12:10 Session 6E: Information Extraction and Text Mining 3

10:30–10:50 *AutoML Strategy Based on Grammatical Evolution: A Case Study about Knowledge Discovery from Text*

Suilan Estevez-Velarde, Yoan Gutiérrez, Andrés Montoyo and Yudivián Almeida-Cruz

10:50–11:10 *Distilling Discrimination and Generalization Knowledge for Event Detection via Delta-Representation Learning*

Yaojie Lu, Hongyu Lin, Xianpei Han and Le Sun

11:10–11:30 *Chinese Relation Extraction with Multi-Grained Information and External Linguistic Knowledge*

Ziran Li, Ning Ding, Zhiyuan Liu, Haitao Zheng and Ying Shen

Wednesday, July 31, 2019 (continued)

- 11:30–11:43 *A2N: Attending to Neighbors for Knowledge Graph Inference*
Trapit Bansal, Da-Cheng Juan, Sujith Ravi and Andrew McCallum
- 11:43–11:56 *Graph based Neural Networks for Event Factuality Prediction using Syntactic and Semantic Structures*
Amir Pouran Ben Veyseh, Thien Huu Nguyen and Dejing Dou
- 11:56–12:09 *Embedding Time Expressions for Deep Temporal Ordering Models*
Tanya Goyal and Greg Durrett

10:30–12:10 Session 6F: Machine Learning 4

- 10:30–10:50 *Episodic Memory Reader: Learning What to Remember for Question Answering from Streaming Data*
Moonsu Han, Minki Kang, Hyunwoo Jung and Sung Ju Hwang
- 10:50–11:10 *Selection Bias Explorations and Debias Methods for Natural Language Sentence Matching Datasets*
Guanhua Zhang, Bing Bai, Jian Liang, Kun Bai, Shiyu Chang, Mo Yu, Conghui Zhu and Tiejun Zhao
- 11:10–11:30 *Real-Time Open-Domain Question Answering with Dense-Sparse Phrase Index*
Minjoon Seo, Jinhyuk Lee, Tom Kwiatkowski, Ankur Parikh, Ali Farhadi and Hananeh Hajishirzi
- 11:30–11:50 *Language Modeling with Shared Grammar*
Yuyu Zhang and Le Song
- 11:50–12:10 *[TACL] Densely Connected Graph Convolutional Networks for Graph-to-Sequence Learning*
Zhijiang Guo, Yan Zhang, Zhiyang Teng and Wei Lu

10:30–12:10 Poster Session 6

[Sentence-level semantics]

- [TACL] Exploring Neural Methods for Parsing Discourse Representation Structures*
Rik van Noord, Lasha Abzianidze, Antonio Toral and Johan Bos
- Zero-Shot Semantic Parsing for Instructions*
Ofer Givoli and Roi Reichart

Wednesday, July 31, 2019 (continued)

Can You Tell Me How to Get Past Sesame Street? Sentence-Level Pretraining Beyond Language Modeling

Alex Wang, Jan Hula, Patrick Xia, Raghavendra Pappagari, R. Thomas McCoy, Roma Patel, Najoung Kim, Ian Tenney, Yinghui Huang, Katherin Yu, Shuning Jin, Berlin Chen, Benjamin Van Durme, Edouard Grave, Ellie Pavlick and Samuel R. Bowman

Complex Question Decomposition for Semantic Parsing

Haoyu Zhang, Jingjing Cai, Jianjun Xu and Ji Wang

Multi-Task Deep Neural Networks for Natural Language Understanding

Xiaodong Liu, Pengcheng He, Weizhu Chen and Jianfeng Gao

DisSent: Learning Sentence Representations from Explicit Discourse Relations

Allen Nie, Erin Bennett and Noah Goodman

SParC: Cross-Domain Semantic Parsing in Context

Tao Yu, Rui Zhang, Michihiro Yasunaga, Yi Chern Tan, Xi Victoria Lin, Suyi Li, Heyang Er, Irene Li, Bo Pang, Tao Chen, Emily Ji, Shreya Dixit, David Proctor, Sungrok Shim, Jonathan Kraft, Vincent Zhang, Caiming Xiong, Richard Socher and Dragomir Radev

Towards Complex Text-to-SQL in Cross-Domain Database with Intermediate Representation

Jiaqi Guo, Zecheng Zhan, Yan Gao, Yan Xiao, Jian-Guang Lou, Ting Liu and Dongmei Zhang

EigenSent: Spectral sentence embeddings using higher-order Dynamic Mode Decomposition

Subhradeep Kayal and George Tsatsaronis

SemBleu: A Robust Metric for AMR Parsing Evaluation

Linfeng Song and Daniel Gildea

Reranking for Neural Semantic Parsing

Pengcheng Yin and Graham Neubig

Representing Schema Structure with Graph Neural Networks for Text-to-SQL Parsing

Ben Bogin, Jonathan Berant and Matt Gardner

Human vs. Muppet: A Conservative Estimate of Human Performance on the GLUE Benchmark

Nikita Nangia and Samuel R. Bowman

Wednesday, July 31, 2019 (continued)

Compositional Semantic Parsing across Graphbanks

Matthias Lindemann, Jonas Groschwitz and Alexander Koller

Rewarding Smatch: Transition-Based AMR Parsing with Reinforcement Learning

Tahira Naseem, Abhishek Shah, Hui Wan, Radu Florian, Salim Roukos and Miguel Ballesteros

BERT Rediscovered the Classical NLP Pipeline

Ian Tenney, Dipanjan Das and Ellie Pavlick

Simple and Effective Paraphrastic Similarity from Parallel Translations

John Wieting, Kevin Gimpel, Graham Neubig and Taylor Berg-Kirkpatrick

Second-Order Semantic Dependency Parsing with End-to-End Neural Networks

Xinyu Wang, Jingxian Huang and Kewei Tu

[Sentiment Analysis and Argument Mining]

Towards Multimodal Sarcasm Detection (An _Obviously_ Perfect Paper)

Santiago Castro, Devamanyu Hazarika, Verónica Pérez-Rosas, Roger Zimmermann, Rada Mihalcea and Soujanya Poria

Determining Relative Argument Specificity and Stance for Complex Argumentative Structures

Esin Durmus, Faisal Ladhak and Claire Cardie

Latent Variable Sentiment Grammar

Liwen Zhang, Kewei Tu and Yue Zhang

An Investigation of Transfer Learning-Based Sentiment Analysis in Japanese

Enkhbold Bataa and Joshua Wu

Probing Neural Network Comprehension of Natural Language Arguments

Timothy Niven and Hung-Yu Kao

Recognising Agreement and Disagreement between Stances with Reason Comparing Networks

Chang Xu, Cecile Paris, Surya Nepal and Ross Sparks

Toward Comprehensive Understanding of a Sentiment Based on Human Motives

Naoki Otani and Eduard Hovy

Context-aware Embedding for Targeted Aspect-based Sentiment Analysis

Bin Liang, Jiachen Du, Ruifeng Xu, Binyang Li and Hejiao Huang

Wednesday, July 31, 2019 (continued)

Yes, we can! Mining Arguments in 50 Years of US Presidential Campaign Debates
Shohreh Haddadan, Elena Cabrio and Serena Villata

An Empirical Study of Span Representations in Argumentation Structure Parsing
Tatsuki Kuribayashi, Hiroki Ouchi, Naoya Inoue, Paul Reisert, Toshinori Miyoshi,
Jun Suzuki and Kentaro Inui

[Textual Inference and Other Areas of Semantics]

Simple and Effective Text Matching with Richer Alignment Features
Runqi Yang, Jianhai Zhang, Xing Gao, Feng Ji and Haiqing Chen

Learning Attention-based Embeddings for Relation Prediction in Knowledge Graphs
Deepak Nathani, Jatin Chauhan, Charu Sharma and Manohar Kaul

Neural Network Alignment for Sentential Paraphrases
Jessica Ouyang and Kathy McKeown

Duality of Link Prediction and Entailment Graph Induction
Mohammad Javad Hosseini, Shay B. Cohen, Mark Johnson and Mark Steedman

A Cross-Sentence Latent Variable Model for Semi-Supervised Text Sequence Matching
Jihun Choi, Taeuk Kim and Sang-goo Lee

COMET: Commonsense Transformers for Automatic Knowledge Graph Construction
Antoine Bosselut, Hannah Rashkin, Maarten Sap, Chaitanya Malaviya, Asli Celikyilmaz and Yejin Choi

Detecting Subevents using Discourse and Narrative Features
Mohammed Aldawsari and Mark Finlayson

HellaSwag: Can a Machine Really Finish Your Sentence?
Rowan Zellers, Ari Holtzman, Yonatan Bisk, Ali Farhadi and Yejin Choi

Unified Semantic Parsing with Weak Supervision
Priyanka Agrawal, Ayushi Dalmia, Parag Jain, Abhishek Bansal, Ashish Mittal and Karthik Sankaranarayanan

Every Child Should Have Parents: A Taxonomy Refinement Algorithm Based on Hyperbolic Term Embeddings
Rami Aly, Shantanu Acharya, Alexander Ossa, Arne Köhn, Chris Biemann and Alexander Panchenko

Wednesday, July 31, 2019 (continued)

Learning to Rank for Plausible Plausibility

Zhongyang Li, Tongfei Chen and Benjamin Van Durme

Generalized Tuning of Distributional Word Vectors for Monolingual and Cross-Lingual Lexical Entailment

Goran Glavaš and Ivan Vulić

Attention Is (not) All You Need for Commonsense Reasoning

Tassilo Klein and Moin Nabi

A Surprisingly Robust Trick for the Winograd Schema Challenge

Vid Kocijan, Ana-Maria Cretu, Oana-Maria Camburu, Yordan Yordanov and Thomas Lukasiewicz

10:30–12:10 Student Research Workshop Poster Session 3

12:10–13:50 Lunch

13:50–15:30 Session 7A: Generation 2

13:50–14:10 *Coherent Comments Generation for Chinese Articles with a Graph-to-Sequence Model*

Wei Li, Jingjing Xu, Yancheng He, ShengLi Yan, Yunfang Wu and Xu Sun

14:10–14:30 *Interconnected Question Generation with Coreference Alignment and Conversation Flow Modeling*

Yifan Gao, Piji Li, Irwin King and Michael R. Lyu

14:30–14:50 *Cross-Lingual Training for Automatic Question Generation*

Vishwajeet Kumar, Nitish Joshi, Arijit Mukherjee, Ganesh Ramakrishnan and Preethi Jyothi

14:50–15:10 *A Hierarchical Reinforced Sequence Operation Method for Unsupervised Text Style Transfer*

Chen Wu, Xuancheng Ren, Fuli Luo and Xu Sun

15:10–15:30 *Handling Divergent Reference Texts when Evaluating Table-to-Text Generation*

Bhuwan Dhingra, Manaal Faruqui, Ankur Parikh, Ming-Wei Chang, Dipanjan Das and William Cohen

Wednesday, July 31, 2019 (continued)

13:50–15:30 Session 7B: Question Answering 3

13:50–14:10 *Unsupervised Question Answering by Cloze Translation*

Patrick Lewis, Ludovic Denoyer and Sebastian Riedel

14:10–14:30 *MultiQA: An Empirical Investigation of Generalization and Transfer in Reading Comprehension*

Alon Talmor and Jonathan Berant

14:30–14:50 *Simple and Effective Curriculum Pointer-Generator Networks for Reading Comprehension over Long Narratives*

Yi Tay, Shuohang Wang, Anh Tuan Luu, Jie Fu, Minh C. Phan, Xingdi Yuan, Jinfeng Rao, Siu Cheung Hui and Aston Zhang

14:50–15:10 *Explain Yourself! Leveraging Language Models for Commonsense Reasoning*

Nazneen Fatema Rajani, Bryan McCann, Caiming Xiong and Richard Socher

15:10–15:30 *Interpretable Question Answering on Knowledge Bases and Text*

Alona Sydorova, Nina Poerner and Benjamin Roth

13:50–15:30 Session 7C: Multilinguality

13:50–14:10 *A Resource-Free Evaluation Metric for Cross-Lingual Word Embeddings Based on Graph Modularity*

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

14:10–14:30 *Multilingual and Cross-Lingual Graded Lexical Entailment*

Ivan Vulić, Simone Paolo Ponzetto and Goran Glavaš

14:30–14:50 *What Kind of Language Is Hard to Language-Model?*

Sebastian J. Mielke, Ryan Cotterell, Kyle Gorman, Brian Roark and Jason Eisner

14:50–15:03 *Analyzing the Limitations of Cross-lingual Word Embedding Mappings*

Aitor Ormazabal, Mikel Artetxe, Gorka Labaka, Aitor Soroa and Eneko Agirre

15:03–15:16 *How Multilingual is Multilingual BERT?*

Telmo Pires, Eva Schlenger and Dan Garrette

Wednesday, July 31, 2019 (continued)

- 15:16–15:29 *Bilingual Lexicon Induction through Unsupervised Machine Translation*
Mikel Artetxe, Gorka Labaka and Eneko Agirre
- 13:50–15:30 Session 7D: Social Media 2**
- 13:50–14:10 *[TACL] What You Say and How You Say it: Joint Modeling of Topics and Discourse in Microblog Conversations*
Jichuan Zeng, Jing Li, Yulan He, Cuiyun Gao, Michael R. Lyu and Irwin King
- 14:10–14:30 *Automatically Identifying Complaints in Social Media*
Daniel Preoțiuc-Pietro, Mihaela Gaman and Nikolaos Aletras
- 14:30–14:50 *TWEETQA: A Social Media Focused Question Answering Dataset*
Wenhan Xiong, Jiawei Wu, Hong Wang, Vivek Kulkarni, Mo Yu, Shiyu Chang, Xiaoxiao Guo and William Yang Wang
- 14:50–15:10 *Asking the Crowd: Question Analysis, Evaluation and Generation for Open Discussion on Online Forums*
Zi Chai, Xinyu Xing, Xiaojun Wan and Bo Huang
- 15:10–15:30 *Tree LSTMs with Convolution Units to Predict Stance and Rumor Veracity in Social Media Conversations*
Sumeet Kumar and Kathleen Carley
- 13:50–15:30 Session 7E: Summarization 2**
- 13:50–14:10 *HIBERT: Document Level Pre-training of Hierarchical Bidirectional Transformers for Document Summarization*
Xingxing Zhang, Furu Wei and Ming Zhou
- 14:10–14:30 *Hierarchical Transformers for Multi-Document Summarization*
Yang Liu and Mirella Lapata
- 14:30–14:50 *Abstractive Text Summarization Based on Deep Learning and Semantic Content Generalization*
Panagiotis Kouris, Georgios Alexandridis and Andreas Stafylopatis
- 14:50–15:03 *Studying Summarization Evaluation Metrics in the Appropriate Scoring Range*
Maxime Peyrard
- 15:03–15:16 *Simple Unsupervised Summarization by Contextual Matching*
Jiawei Zhou and Alexander Rush

Wednesday, July 31, 2019 (continued)

15:16–15:29 *Generating Summaries with Topic Templates and Structured Convolutional Decoders*

Laura Perez-Beltrachini, Yang Liu and Mirella Lapata

13:50–15:30 Session 7F: Linguistic Theories, Cognitive Modeling and Psycholinguistics

13:50–14:10 *Morphological Irregularity Correlates with Frequency*

Shijie Wu, Ryan Cotterell and Timothy O'Donnell

14:10–14:30 *Like a Baby: Visually Situated Neural Language Acquisition*

Alexander Ororbia, Ankur Mali, Matthew Kelly and David Reitter

14:30–14:50 *Relating Simple Sentence Representations in Deep Neural Networks and the Brain*

Sharmistha Jat, Hao Tang, Partha Talukdar and Tom Mitchell

14:50–15:10 *Modeling Affirmative and Negated Action Processing in the Brain with Lexical and Compositional Semantic Models*

Vesna Djokic, Jean Maillard, Luana Bulat and Ekaterina Shutova

15:10–15:30 *Word-order Biases in Deep-agent Emergent Communication*

Rahma Chaabouni, Eugene Kharitonov, Alessandro Lazaric, Emmanuel Dupoux and Marco Baroni

13:50–15:30 Poster Session 7

Wednesday, July 31, 2019 (continued)

[Information Extraction and Text Mining]

NNE: A Dataset for Nested Named Entity Recognition in English Newswire

Nicky Ringland, Xiang Dai, Ben Hachey, Sarvnaz Karimi, Cecile Paris and James R. Curran

Sequence-to-Nuggets: Nested Entity Mention Detection via Anchor-Region Networks

Hongyu Lin, Yaojie Lu, Xianpei Han and Le Sun

Improving Textual Network Embedding with Global Attention via Optimal Transport

Liqun Chen, Guoyin Wang, Chenyang Tao, Dinghan Shen, Pengyu Cheng, Xinyuan Zhang, Wenlin Wang, Yizhe Zhang and Lawrence Carin

Identification of Tasks, Datasets, Evaluation Metrics, and Numeric Scores for Scientific Leaderboards Construction

Yufang Hou, Charles Jochim, Martin Gleize, Francesca Bonin and Debasis Ganguly

Scaling up Open Tagging from Tens to Thousands: Comprehension Empowered Attribute Value Extraction from Product Title

Huimin Xu, Wenting Wang, Xin Mao, Xinyu Jiang and Man Lan

Incorporating Linguistic Constraints into Keyphrase Generation

Jing Zhao and Yuxiang Zhang

A Unified Multi-task Adversarial Learning Framework for Pharmacovigilance Mining

Shweta Yadav, Asif Ekbal, Sriparna Saha and Pushpak Bhattacharyya

Quantity Tagger: A Latent-Variable Sequence Labeling Approach to Solving Addition-Subtraction Word Problems

Yanyan Zou and Wei Lu

A Deep Reinforced Sequence-to-Set Model for Multi-Label Classification

Pengcheng Yang, Fuli Luo, Shuming Ma, Junyang Lin and Xu Sun

Joint Slot Filling and Intent Detection via Capsule Neural Networks

Chenwei Zhang, Yaliang Li, Nan Du, Wei Fan and Philip Yu

Neural Aspect and Opinion Term Extraction with Mined Rules as Weak Supervision

Hongliang Dai and Yangqiu Song

Wednesday, July 31, 2019 (continued)

Cost-sensitive Regularization for Label Confusion-aware Event Detection

Hongyu Lin, Yaojie Lu, Xianpei Han and Le Sun

Exploring Pre-trained Language Models for Event Extraction and Generation

Sen Yang, Dawei Feng, Linbo Qiao, Zhigang Kan and Dongsheng Li

Improving Open Information Extraction via Iterative Rank-Aware Learning

Zhengbao Jiang, Pengcheng Yin and Graham Neubig

Towards Improving Neural Named Entity Recognition with Gazetteers

Tianyu Liu, Jin-Ge Yao and Chin-Yew Lin

Span-Level Model for Relation Extraction

Kalpiti Dixit and Yaser Al-Onaizan

[Tagging, Chunking, Syntax and Parsing]

Enhancing Unsupervised Generative Dependency Parser with Contextual Information

Wenjuan Han, Yong Jiang and Kewei Tu

Neural Architectures for Nested NER through Linearization

Jana Straková, Milan Straka and Jan Hajic

Online Infix Probability Computation for Probabilistic Finite Automata

Marco Cognetta, Yo-Sub Han and Soon Chan Kwon

How to Best Use Syntax in Semantic Role Labelling

Yufei Wang, Mark Johnson, Stephen Wan, Yifang Sun and Wei Wang

PTB Graph Parsing with Tree Approximation

Yoshihide Kato and Shigeki Matsubara

Sequence Labeling Parsing by Learning across Representations

Michalina Strzyz, David Vilares and Carlos Gómez-Rodríguez

Wednesday, July 31, 2019 (continued)

A Prism Module for Semantic Disentanglement in Name Entity Recognition

Kun Liu, Shen Li, Daqi Zheng, Zhengdong Lu, Sheng Gao and Si Li

Label-Agnostic Sequence Labeling by Copying Nearest Neighbors

Sam Wiseman and Karl Stratos

[Dialogue and Interactive Systems]

Towards Empathetic Open-domain Conversation Models: A New Benchmark and Dataset

Hannah Rashkin, Eric Michael Smith, Margaret Li and Y-Lan Boureau

Know More about Each Other: Evolving Dialogue Strategy via Compound Assessment

Siqi Bao, Huang He, Fan Wang, Rongzhong Lian and Hua Wu

Training Neural Response Selection for Task-Oriented Dialogue Systems

Matthew Henderson, Ivan Vulić, Daniela Gerz, Iñigo Casanueva, Paweł Budzianowski, Sam Coope, Georgios Spithourakis, Tsung-Hsien Wen, Nikola Mrkšić and Pei-Hao Su

Collaborative Dialogue in Minecraft

Anjali Narayan-Chen, Prashant Jayannavar and Julia Hockenmaier

Neural Response Generation with Meta-words

Can Xu, Wei Wu, Chongyang Tao, Huang Hu, Matt Schuerman and Ying Wang

Conversing by Reading: Contentful Neural Conversation with On-demand Machine Reading

Lianhui Qin, Michel Galley, Chris Brockett, Xiaodong Liu, Xiang Gao, Bill Dolan, Yejin Choi and Jianfeng Gao

Ordinal and Attribute Aware Response Generation in a Multimodal Dialogue System

Hardik Chauhan, Mauajama Firdaus, Asif Ekbal and Pushpak Bhattacharyya

Memory Consolidation for Contextual Spoken Language Understanding with Dialogue Logistic Inference

He Bai, Yu Zhou, Jiajun Zhang and Chengqing Zong

Personalizing Dialogue Agents via Meta-Learning

Andrea Madotto, Zhaojiang Lin, Chien-Sheng Wu and Pascale Fung

Wednesday, July 31, 2019 (continued)

Reading Turn by Turn: Hierarchical Attention Architecture for Spoken Dialogue Comprehension

Zhengyuan Liu and Nancy Chen

A Novel Bi-directional Interrelated Model for Joint Intent Detection and Slot Filling

Haihong E, Peiqing Niu, Zhongfu Chen and Meina Song

Dual Supervised Learning for Natural Language Understanding and Generation

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

SUMBT: Slot-Utterance Matching for Universal and Scalable Belief Tracking

Hwaran Lee, Jinsik Lee and Tae-Yoon Kim

Robust Zero-Shot Cross-Domain Slot Filling with Example Values

Darsh Shah, Raghav Gupta, Amir Fayazi and Dilek Hakkani-Tur

Deep Unknown Intent Detection with Margin Loss

Ting-En Lin and Hua Xu

Modeling Semantic Relationship in Multi-turn Conversations with Hierarchical Latent Variables

Lei Shen, Yang Feng and Haolan Zhan

Rationally Reappraising ATIS-based Dialogue Systems

Jingcheng Niu and Gerald Penn

Wednesday, July 31, 2019 (continued)

[Machine Learning]

Learning Latent Trees with Stochastic Perturbations and Differentiable Dynamic Programming

Caio Corro and Ivan Titov

Neural-based Chinese Idiom Recommendation for Enhancing Elegance in Essay Writing

Yuanhao Liu, Bo Pang and Bingquan Liu

Better Exploiting Latent Variables in Text Modeling

Canasai Kruengkrai

Misleading Failures of Partial-input Baselines

Shi Feng, Eric Wallace and Jordan Boyd-Graber

Soft Contextual Data Augmentation for Neural Machine Translation

Fei Gao, Jinhua Zhu, Lijun Wu, Yingce Xia, Tao Qin, Xueqi Cheng, Wengang Zhou and Tie-Yan Liu

Reversing Gradients in Adversarial Domain Adaptation for Question Deduplication and Textual Entailment Tasks

Anush Kamath, Sparsh Gupta and Vitor Carvalho

Towards Integration of Statistical Hypothesis Tests into Deep Neural Networks

Ahmad Aghaezadeh and Mark Cieliebak

Depth Growing for Neural Machine Translation

Lijun Wu, Yiren Wang, Yingce Xia, Fei Tian, Fei Gao, Tao Qin, Jianhuang Lai and Tie-Yan Liu

Generating Fluent Adversarial Examples for Natural Languages

Huangzhao Zhang, Hao Zhou, Ning Miao and Lei Li

Towards Explainable NLP: A Generative Explanation Framework for Text Classification

Hui Liu, Qingyu Yin and William Yang Wang

Combating Adversarial Misspellings with Robust Word Recognition

Danish Pruthi, Bhuwan Dhingra and Zachary C. Lipton

Wednesday, July 31, 2019 (continued)

An Empirical Investigation of Structured Output Modeling for Graph-based Neural Dependency Parsing

Zhisong Zhang, Xuezhe Ma and Eduard Hovy

13:50–15:30 Demo Session 3

15:30–16:00 *Break*

16:00–17:40 Session 8A: Dialogue and Interactive Systems 3 - New Tasks

16:00–16:20 *Observing Dialogue in Therapy: Categorizing and Forecasting Behavioral Codes*

Jie Cao, Michael Tanana, Zac Imel, Eric Poitras, David Atkins and Vivek Srikumar

16:20–16:40 *Multimodal Transformer Networks for End-to-End Video-Grounded Dialogue Systems*

Hung Le, Doyen Sahoo, Nancy Chen and Steven Hoi

16:40–17:00 *Target-Guided Open-Domain Conversation*

Jianheng Tang, Tiancheng Zhao, Chenyan Xiong, Xiaodan Liang, Eric Xing and Zhiting Hu

17:00–17:20 *Persuasion for Good: Towards a Personalized Persuasive Dialogue System for Social Good*

Xuewei Wang, Weiyan Shi, Richard Kim, Yoojung Oh, Sijia Yang, Jingwen Zhang and Zhou Yu

17:20–17:40 *Improving Neural Conversational Models with Entropy-Based Data Filtering*

Richárd Csáky, Patrik Purgai and Gábor Recski

Wednesday, July 31, 2019 (continued)

16:00–17:40 Session 8B: Word-level Semantics 2

- 16:00–16:20 *Zero-shot Word Sense Disambiguation using Sense Definition Embeddings*
Sawan Kumar, Sharmistha Jat, Karan Saxena and Partha Talukdar
- 16:20–16:40 *Language Modelling Makes Sense: Propagating Representations through WordNet for Full-Coverage Word Sense Disambiguation*
Daniel Loureiro and Alípio Jorge
- 16:40–17:00 *Word2Sense: Sparse Interpretable Word Embeddings*
Abhishek Panigrahi, Harsha Vardhan Simhadri and Chiranjib Bhattacharyya
- 17:00–17:20 *Modeling Semantic Compositionality with Sememe Knowledge*
Fanchao Qi, Junjie Huang, Chenghao Yang, Zhiyuan Liu, Xiao Chen, Qun Liu and Maosong Sun
- 17:20–17:40 *Predicting Humorousness and Metaphor Novelty with Gaussian Process Preference Learning*
Edwin Simpson, Erik-Lân Do Dinh, Tristan Miller and Iryna Gurevych

16:00–17:40 Session 8C: Resources and Evaluation

- 16:00–16:20 *Empirical Linguistic Study of Sentence Embeddings*
Katarzyna Krasnowska-Kieraś and Alina Wróblewska
- 16:20–16:40 *Probing for Semantic Classes: Diagnosing the Meaning Content of Word Embeddings*
Yadollah Yaghoobzadeh, Katharina Kann, T. J. Hazen, Eneko Agirre and Hinrich Schütze
- 16:40–17:00 *Deep Neural Model Inspection and Comparison via Functional Neuron Pathways*
James Fiocco, Samridhi Choudhary and Carolyn Rose
- 17:00–17:13 *Collocation Classification with Unsupervised Relation Vectors*
Luis Espinosa Anke, Steven Schockaert and Leo Wanner
- 17:13–17:26 *Corpus-based Check-up for Thesaurus*
Natalia Loukachevitch

Wednesday, July 31, 2019 (continued)

17:26–17:39 *Confusionset-guided Pointer Networks for Chinese Spelling Check*
Dingmin Wang, Yi Tay and Li Zhong

16:00–17:40 Session 8D: Machine Translation 4

16:00–16:20 *Generalized Data Augmentation for Low-Resource Translation*
Mengzhou Xia, Xiang Kong, Antonios Anastasopoulos and Graham Neubig

16:20–16:40 *[TACL] Attention-Passing Models for Robust and Data-Efficient End-to-End Speech Translation*
Matthias Sperber, Graham Neubig, Jan Niehues and Alex Waibel

16:40–17:00 *Analyzing Multi-Head Self-Attention: Specialized Heads Do the Heavy Lifting, the Rest Can Be Pruned*
Elena Voita, David Talbot, Fedor Moiseev, Rico Sennrich and Ivan Titov

17:00–17:13 *Better OOV Translation with Bilingual Terminology Mining*
Matthias Huck, Viktor Hangya and Alexander Fraser

17:13–17:26 *Simultaneous Translation with Flexible Policy via Restricted Imitation Learning*
Baigong Zheng, Renjie Zheng, Mingbo Ma and Liang Huang

17:26–17:39 *Target Conditioned Sampling: Optimizing Data Selection for Multilingual Neural Machine Translation*
Xinyi Wang and Graham Neubig

16:00–17:40 Session 8E: Information Extraction and Text Mining 4

16:00–16:20 *Adversarial Learning of Privacy-Preserving Text Representations for De-Identification of Medical Records*
Max Friedrich, Arne Köhn, Gregor Wiedemann and Chris Biemann

16:20–16:40 *Merge and Label: A Novel Neural Network Architecture for Nested NER*
Joseph Fisher and Andreas Vlachos

16:40–17:00 *Low-resource Deep Entity Resolution with Transfer and Active Learning*
Jungo Kasai, Kun Qian, Sairam Gurajada, Yunyao Li and Lucian Popa

17:00–17:13 *A Semi-Markov Structured Support Vector Machine Model for High-Precision Named Entity Recognition*
Ravneet Arora, Chen-Tse Tsai, Ketevan Tsereteli, Prabhanjan Kambadur and Yi Yang

Wednesday, July 31, 2019 (continued)

- 17:13–17:26 *Using Human Attention to Extract Keyphrase from Microblog Post*
Yingyi Zhang and Chengzhi Zhang
- 17:26–17:39 *Model-Agnostic Meta-Learning for Relation Classification with Limited Supervision*
Abiola Obamuyide and Andreas Vlachos
- 16:00–17:40 Session 8F: Machine Learning 5**
- 16:00–16:20 *Variational Pretraining for Semi-supervised Text Classification*
Suchin Gururangan, Tam Dang, Dallas Card and Noah A. Smith
- 16:20–16:40 *Task Refinement Learning for Improved Accuracy and Stability of Unsupervised Domain Adaptation*
Yftah Ziser and Roi Reichart
- 16:40–17:00 *Optimal Transport-based Alignment of Learned Character Representations for String Similarity*
Derek Tam, Nicholas Monath, Ari Kobren, Aaron Traylor, Rajarshi Das and Andrew McCallum
- 17:00–17:13 *The Referential Reader: A Recurrent Entity Network for Anaphora Resolution*
Fei Liu, Luke Zettlemoyer and Jacob Eisenstein
- 17:13–17:26 *Interpolated Spectral N-Gram Language Models*
Ariadna Quattoni and Xavier Carreras
- 17:26–17:39 *BAM! Born-Again Multi-Task Networks for Natural Language Understanding*
Kevin Clark, Minh-Thang Luong, Urvashi Khandelwal, Christopher D. Manning and Quoc V. Le

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16:00–17:40 Poster Session 8

[Generation]

Curate and Generate: A Corpus and Method for Joint Control of Semantics and Style in Neural NLG

Shereen Oraby, Vrindavan Harrison, Abteen Ebrahimi and Marilyn Walker

Automated Chess Commentator Powered by Neural Chess Engine

Hongyu Zang, Zhiwei Yu and Xiaojun Wan

Barack’s Wife Hillary: Using Knowledge Graphs for Fact-Aware Language Modeling

Robert Logan, Nelson F. Liu, Matthew E. Peters, Matt Gardner and Sameer Singh

Controllable Paraphrase Generation with a Syntactic Exemplar

Mingda Chen, Qingming Tang, Sam Wiseman and Kevin Gimpel

Towards Comprehensive Description Generation from Factual Attribute-value Tables

Tianyu Liu, Fuli Luo, Pengcheng Yang, Wei Wu, Baobao Chang and Zhifang Sui

Style Transformer: Unpaired Text Style Transfer without Disentangled Latent Representation

Ning Dai, Jianze Liang, Xipeng Qiu and Xuanjing Huang

Generating Sentences from Disentangled Syntactic and Semantic Spaces

Yu Bao, Hao Zhou, Shujian Huang, Lei Li, Lili Mou, Olga Vechtomova, Xin-yu Dai and Jiajun Chen

Learning to Control the Fine-grained Sentiment for Story Ending Generation

Fuli Luo, Damai Dai, Pengcheng Yang, Tianyu Liu, Baobao Chang, Zhifang Sui and Xu Sun

Self-Attention Architectures for Answer-Agnostic Neural Question Generation

Thomas Scialom, Benjamin Piwowarski and Jacopo Staiano

Unsupervised Paraphrasing without Translation

Aurko Roy and David Grangier

Wednesday, July 31, 2019 (continued)

Storyboarding of Recipes: Grounded Contextual Generation

Khyathi Chandu, Eric Nyberg and Alan W Black

Negative Lexically Constrained Decoding for Paraphrase Generation

Tomoyuki Kajiwara

Large-Scale Transfer Learning for Natural Language Generation

Sergey Golovanov, Rauf Kurbanov, Sergey Nikolenko, Kyryl Truskovskiy, Alexander Tselousov and Thomas Wolf

Automatic Grammatical Error Correction for Sequence-to-sequence Text Generation: An Empirical Study

Tao Ge, Xingxing Zhang, Furu Wei and Ming Zhou

[Question Answering]

Improving the Robustness of Question Answering Systems to Question Paraphrasing

Wee Chung Gan and Hwee Tou Ng

Latent Retrieval for Weakly Supervised Open Domain Question Answering

Kenton Lee, Ming-Wei Chang and Kristina Toutanova

Multi-hop Reading Comprehension through Question Decomposition and Rescoring

Sewon Min, Victor Zhong, Luke Zettlemoyer and Hannaneh Hajishirzi

Combining Knowledge Hunting and Neural Language Models to Solve the Winograd Schema Challenge

Ashok Prakash, Arpit Sharma, Arindam Mitra and Chitta Baral

Careful Selection of Knowledge to Solve Open Book Question Answering

Pratyay Banerjee, Kuntal Kumar Pal, Arindam Mitra and Chitta Baral

Learning Representation Mapping for Relation Detection in Knowledge Base Question Answering

Peng Wu, Shujian Huang, Rongxiang Weng, Zaixiang Zheng, Jianbing Zhang, Xiaohui Yan and Jiajun Chen

Wednesday, July 31, 2019 (continued)

Dynamically Fused Graph Network for Multi-hop Reasoning

Lin Qiu, Yunxuan Xiao, Yanru Qu, Hao Zhou, Lei Li, Weinan Zhang and Yong Yu

NLProlog: Reasoning with Weak Unification for Question Answering in Natural Language

Leon Weber, Pasquale Minervini, Jannes Münchmeyer, Ulf Leser and Tim Rocktäschel

Modeling Intra-Relation in Math Word Problems with Different Functional Multi-Head Attentions

Jierui Li, Lei Wang, Jipeng Zhang, Yan Wang, Bing Tian Dai and Dongxiang Zhang

Synthetic QA Corpora Generation with Roundtrip Consistency

Chris Alberti, Daniel Andor, Emily Pitler, Jacob Devlin and Michael Collins

Are Red Roses Red? Evaluating Consistency of Question-Answering Models

Marco Tulio Ribeiro, Carlos Guestrin and Sameer Singh

MC²: Multi-perspective Convolutional Cube for Conversational Machine Reading Comprehension

Xuanyu Zhang

[Multidisciplinary]

Time-Out: Temporal Referencing for Robust Modeling of Lexical Semantic Change

Haim Dubossarsky, Simon Hengchen, Nina Tahmasebi and Dominik Schlechtweg

Reducing Word Omission Errors in Neural Machine Translation: A Contrastive Learning Approach

Zonghan Yang, Yong Cheng, Yang Liu and Maosong Sun

Exploiting Sentential Context for Neural Machine Translation

Xing Wang, Zhaopeng Tu, Longyue Wang and Shuming Shi

Wetin dey with these comments? Modeling Sociolinguistic Factors Affecting Code-switching Behavior in Nigerian Online Discussions

Innocent Ndubuisi-Obi, Sayan Ghosh and David Jurgens

Accelerating Sparse Matrix Operations in Neural Networks on Graphics Processing Units

Arturo Argueta and David Chiang

An Automated Framework for Fast Cognate Detection and Bayesian Phylogenetic Inference in Computational Historical Linguistics

Taraka Rama and Johann-Mattis List

Wednesday, July 31, 2019 (continued)

[Document Analysis]

Sentence Centrality Revisited for Unsupervised Summarization

Hao Zheng and Mirella Lapata

Discourse Representation Parsing for Sentences and Documents

Jiangming Liu, Shay B. Cohen and Mirella Lapata

Inducing Document Structure for Aspect-based Summarization

Lea Frermann and Alexandre Klementiev

Incorporating Priors with Feature Attribution on Text Classification

Frederick Liu and Besim Avci

Matching Article Pairs with Graphical Decomposition and Convolutions

Bang Liu, Di Niu, Haojie Wei, Jinghong Lin, Yancheng He, Kunfeng Lai and Yu Xu

Hierarchical Transfer Learning for Multi-label Text Classification

Siddhartha Banerjee, Cem Akkaya, Francisco Perez-Sorrosal and Kostas Tsiout-siouliklis

Bias Analysis and Mitigation in the Evaluation of Authorship Verification

Janek Bevendorff, Matthias Hagen, Benno Stein and Martin Potthast

Numeracy-600K: Learning Numeracy for Detecting Exaggerated Information in Market Comments

Chung-Chi Chen, Hen-Hsen Huang, Hiroya Takamura and Hsin-Hsi Chen

Large-Scale Multi-Label Text Classification on EU Legislation

Ilias Chalkidis, Emmanouil Fergadiotis, Prodromos Malakasiotis and Ion Androutsopoulos

Why Didn't You Listen to Me? Comparing User Control of Human-in-the-Loop Topic Models

Varun Kumar, Alison Smith-Renner, Leah Findlater, Kevin Seppi and Jordan Boyd-Graber

Encouraging Paragraph Embeddings to Remember Sentence Identity Improves Classification

Tu Vu and Mohit Iyyer

Wednesday, July 31, 2019 (continued)

A Multi-Task Architecture on Relevance-based Neural Query Translation

Sheikh Muhammad Sarwar, Hamed Bonab and James Allan

Topic Modeling with Wasserstein Autoencoders

Feng Nan, Ran Ding, Ramesh Nallapati and Bing Xiang

[TACL] GILE: A Generalized Input-Label Embedding for Text Classification

Nikolaos Pappas and James Henderson

[Vision, Robotics, Multimodal, Grounding and Speech]

Dense Procedure Captioning in Narrated Instructional Videos

Botian Shi, Lei Ji, Yaobo Liang, Nan Duan, Peng Chen, Zhendong Niu and Ming Zhou

Latent Variable Model for Multi-modal Translation

Iacer Calixto, Miguel Rios and Wilker Aziz

Identifying Visible Actions in Lifestyle Vlogs

Oana Ignat, Laura Burdick, Jia Deng and Rada Mihalcea

A Corpus for Reasoning about Natural Language Grounded in Photographs

Alane Suhr, Stephanie Zhou, Ally Zhang, Iris Zhang, Huajun Bai and Yoav Artzi

Learning to Discover, Ground and Use Words with Segmental Neural Language Models

Kazuya Kawakami, Chris Dyer and Phil Blunsom

What Should I Ask? Using Conversationally Informative Rewards for Goal-oriented Visual Dialog.

Pushkar Shukla, Carlos Elmadjian, Richika Sharan, Vivek Kulkarni, Matthew Turk and William Yang Wang

Symbolic Inductive Bias for Visually Grounded Learning of Spoken Language

Grzegorz Chrupała

Multi-step Reasoning via Recurrent Dual Attention for Visual Dialog

Zhe Gan, Yu Cheng, Ahmed Kholy, Linjie Li, Jingjing Liu and Jianfeng Gao

Lattice Transformer for Speech Translation

Pei Zhang, Niyu Ge, Boxing Chen and Kai Fan

Wednesday, July 31, 2019 (continued)

Informative Image Captioning with External Sources of Information

Sanqiang Zhao, Piyush Sharma, Tomer Levinboim and Radu Soricut

CoDraw: Collaborative Drawing as a Testbed for Grounded Goal-driven Communication

Jin-Hwa Kim, Nikita Kitaev, Xinlei Chen, Marcus Rohrbach, Byoung-Tak Zhang, Yuandong Tian, Dhruv Batra and Devi Parikh

Bridging by Word: Image Grounded Vocabulary Construction for Visual Captioning

Zhihao Fan, Zhongyu Wei, Siyuan Wang and Xuanjing Huang

Distilling Translations with Visual Awareness

Julia Ive, Pranava Madhyastha and Lucia Specia

VIFIDEL: Evaluating the Visual Fidelity of Image Descriptions

Pranava Madhyastha, Josiah Wang and Lucia Specia

Are You Looking? Grounding to Multiple Modalities in Vision-and-Language Navigation

Ronghang Hu, Daniel Fried, Anna Rohrbach, Dan Klein, Trevor Darrell and Kate Saenko

Multimodal Transformer for Unaligned Multimodal Language Sequences

Yao-Hung Hubert Tsai, Shaojie Bai, Paul Pu Liang, J. Zico Kolter, Louis-Philippe Morency and Ruslan Salakhutdinov

Show, Describe and Conclude: On Exploiting the Structure Information of Chest X-ray Reports

Baoyu Jing, Zeya Wang and Eric Xing

Visual Story Post-Editing

Ting-Yao Hsu, Chieh-Yang Huang, Yen-Chia Hsu and Ting-Hao Huang

Multimodal Abstractive Summarization for How2 Videos

Shruti Palaskar, Jindřich Libovický, Spandana Gella and Florian Metze

Learning to Relate from Captions and Bounding Boxes

Sarthak Garg, Joel Ruben Antony Moniz, Anshu Aviral and Priyatham Bollimpalli

17:40–17:50 *Short Break*