Google Research

ACL 2020

Diversity & Inclusion (D&I) Chair: *Vinodkumar Prabhakaran*
Accessibility Chairs: *Sushant Kafle*
Local Sponsorship Chairs: *Kristina Toutanova*
Virtual Infrastructure Committee: *Yi Luan*
Area Chairs: *Anders Søgaard, Ankur Parikh, Annie Louis, Bhuvana Ramabhadran, Christo Kirov, Daniel Cer, Dipanjan Das, Diyi Yang, Emily Pitler, Eunsol Choi, George Foster, Idan Szpektor, Jacob Eisenstein, Jason Baldridge, Jun Suzuki, Kenton Lee, Luheng He, Marius Pasca, Ming-Wei Chang, Sebastian Gehrmann, Shashi Narayan, Slav Petrov, Vinodkumar Prabhakaran, Waleed Ammar, William Cohen*

Sunday, July 5

Tutorials

T1: Interpretability and Analysis in Neural NLP (cutting-edge)
*Yonatan Belinkov, **Sebastian Gehrmann**, Ellie Pavlick*
Sunday July 5, 2020 6:00 AM PDT to 9:30 AM PDT/
13:00 UTC to 16:30 UTC

T6: Commonsense Reasoning for Natural Language Processing (Introductory)
Maarten Sap, Vered Shwartz, Antoine Bosselut
*Yejin Choi, **Dan Roth***
Sunday July 5, 2020 3:00 PM PDT to 6:30 PM PDT/
22:00 UTC to 1:30 UTC
Link to Tutorial

Authors with Google affiliations listed in bold

Demo Papers

Multilingual Universal Sentence Encoder for Semantic Retrieval
Yinfei Yang, *Daniel Cer*, *Amin Ahmad*, *Mandy Guo*, *Jax Law*, *Noah Constant*, *Gustavo Hernandez Abrego*, *Steve Yuan*, *Chris Tar*, *Yun-Hsuan Sung*, *Brian Strope*, *Ray Kurzweil*
Monday July 6, 2020 Demo Session 17:00 UTC+0
Monday July 6, 2020 Demo Session 20:45 UTC+0
Link to paper

Short Papers

Reverse Engineering Configurations of Neural Text Generation Models
Yi Tay, *Dara Bahri*, *Che Zheng*, *Clifford Brunk*, *Donald Metzler*, *Andrew Tomkins*
Monday July 6, 2020 1A Generation-1 5:00 UTC+0
Monday July 6, 2020 5A Generation-8 20:00 UTC+0
Link to Paper

Syntactic Data Augmentation Increases Robustness to Inference Heuristics
Junghyun Min, R. Thomas McCoy, *Dipanjan Das*, *Emily Pitler*, *Tal Linzen*
Monday July 6, 2020 4A Semantics: Textual Inference and Other Areas of Semantics-1 17:00 UTC+0
Monday July 6, 2020 5A Semantics: Textual Inference and Other Areas of Semantics-2 20:00 UTC+0
Link to Paper

Leveraging Monolingual Data with Self-Supervision for Multilingual Neural Machine Translation
Aditya Siddhant, *Ankur Bapna*, *Yuan Cao*, *Orhan Firat*, *Mia Chen*, *Sneha Kudugunta*, *Naveen Arivazhagan*, *Yonghui Wu*
Monday July 6, 2020 4B Machine Translation-5 18:00 UTC+0
Monday July 6, 2020 5A Machine Translation-6 20:00 UTC+0
Link to Paper

Long Papers

Cross-modal Language Generation using Pivot Stabilization for Web-scale Language Coverage
Ashish V. Thapliyal, *Radu Soricut*
Monday July 6, 2020 1A Generation-1 5:00 UTC+0
Monday July 6, 2020 5A Generation-8 20:00 UTC+0
Link to Paper

Automatic Detection of Generated Text is Easiest when Humans are Fooled
Daphne Ippolito, *Daniel Duckworth*, *Chris Callison-Burch*, *Douglas Eck*
Monday July 6, 2020 3A Generation-5 12:00 UTC+0
Monday July 6, 2020 5A Generation-8 20:00 UTC+0
Link to Paper

On Faithfulness and Factuality in Abstractive Summarization
Joshua Maynez, *Shashi Narayan*, *Bernd Bohnet*, *Ryan McDonald*
Monday July 6, 2020 3B Summarization-2 13:00 UTC+0
Monday July 6, 2020 4B Summarization-3 18:00 UTC+0
Link to Paper

MobileBERT: a Compact Task-Agnostic BERT for Resource-Limited Devices
Zhiqing Sun, *Hongkun Yu*, *Xiaodan Song*, *Renjie Liu*, *Yiming Yang*, *Denny Zhou*
Monday July 6, 2020 4A Machine Learning for NLP-1 17:00 UTC+0
Monday July 6, 2020 5A Machine Learning for NLP-3 20:00 UTC+0
Link to Paper

BabyWalk: Going Farther in Vision-and-Language Navigation by Taking Baby Steps
Wang Zhu, Hexiang Hu, Jiacheng Chen, Zhiwei Deng, *Vihan Jain*, *Eugene Ie*, *Fei Sha*
Monday July 6, 2020 5B Language Grounding to Vision, Robotics and Beyond-2 21:00 UTC+0
Link to Paper

Tuesday, July 7

TACL Papers

TYDI QA: A Benchmark for Information-Seeking Question Answering in Typologically Diverse Languages
Jonathan H. Clark, Eunsol Choi, Michael Collins, Dan Garrette, Tom Kwiatkowski, Vitaly Nikolaev, Jennimaria Palomaki
Tuesday July 7, 2020 9B Question Answering-6 18:00 UTC+0
Tuesday July 7, 2020 10A Question Answering-7 20:00 UTC+0
Link to Paper

Authors with Google affiliations listed in bold

Short Papers

Social Biases in NLP Models as Barriers for Persons with Disabilities

Ben Hutchinson, *Vinodkumar Prabhakaran*, *Emily Denton*, *Kellie Webster*, *Yu Zhong*, *Stephen Denuyl*
Tuesday July 7, 2020 9B Ethics and NLP-4 18:00 UTC+0
Tuesday July 7, 2020 10B Ethics and NLP-5 21:00 UTC+0
Link to Paper

Long Papers

Dynamic Programming Encoding for Subword Segmentation in Neural Machine Translation

Xuanli He, Gholamreza Haffari, **Mohammad Norouzi**
Tuesday July 7, 2020 6A Machine Translation-7 5:00 UTC+0
Tuesday July 7, 2020 7A Machine Translation-9 8:00 UTC+0
Link to Paper

GoEmotions: A Dataset of Fine-Grained Emotions

Dorottya Demszky, *Dana Movshovitz-Attias*, *Jeongwoo Ko*, *Alan Cowen*, *Gaurav Nemade*, *Sujith Ravi*
Tuesday July 7, 2020 7A Sentiment Analysis, Stylistic Analysis, and Argument Mining-3 8:00 UTC+0
Tuesday July 7, 2020 9B Sentiment Analysis, Stylistic Analysis, and Argument Mining-7 18:00 UTC+0
Link to Paper

TaPas: Weakly Supervised Table Parsing via Pre-training

Jonathan Herzig, *Pawel Krzysztof Nowak*, *Thomas Müller*, *Francesco Piccinno*, *Julian Eisenschlos*
Tuesday July 7, 2020 7B Semantics: Sentence Level-3 9:00 UTC+0
Tuesday July 7, 2020 8A Semantics: Sentence Level-4 12:00 UTC+0
Link to Paper

Toxicity Detection: Does Context Really Matter?

John Pavlopoulos, Jeffrey Sorensen, **Lucas Dixon**, **Nithum Thain**, *Ion Androutsopoulos*
Tuesday July 7, 2020 7B NLP Applications-6 9:00 UTC+0
Tuesday July 7, 2020 8B NLP Applications-7 13:00 UTC+0
Link to Paper

(Re)construing Meaning in NLP

Sean Trott, Tiago Timponi Torrent, **Nancy Chang**, *Nathan Schneider*
Tuesday July 7, 2020 9A THEME-1 17:00 UTC+0
Tuesday July 7, 2020 10A THEME-2 20:00 UTC+0
Link to Paper

Pretraining with Contrastive Sentence Objectives Improves Discourse Performance of Language Models

Dan Iter, *Kelvin Guu*, *Larry Lansing*, *Dan Jurafsky*
Tuesday July 7, 2020 9A Machine Learning for NLP-10 17:00 UTC+0
Tuesday July 7, 2020 10B Machine Learning for NLP-11 21:00 UTC+0
Link to Paper

Probabilistic Assumptions Matter: Improved Models for Distantly-Supervised Document-Level Question Answering

Hao Cheng, **Ming-Wei Chang**, **Kenton Lee**, **Kristina Toutanova**
Tuesday July 7, 2020 9B Question Answering-6 18:00 UTC+0
Tuesday July 7, 2020 10A Question Answering-7 20:00 UTC+0
Link to Paper

Wednesday, July 8

TACL Papers

Phonotactic Complexity and Its Trade-offs. Transactions of the ACL (TACL), 8:1-18

Tiago Pimentel, **Brian Roark**, *Ryan Cotterell*
Wednesday July 8, 2020 13B Phonology, Morphology and Word Segmentation-5 13:00 UTC+0
Wednesday July 8, 2020 14A Phonology, Morphology and Word Segmentation-6 17:00 UTC+0
Link to Paper

Short Papers

Toward Better Storylines with Sentence-Level Language Models

Daphne Ippolito, *David Grangier*, *Douglas Eck*, *Chris Callison-Burch*
Wednesday July 8, 2020 13A Generation-12 12:00 UTC+0
Wednesday July 8, 2020 15B Generation-15 21:00 UTC+0
Link to Paper

Long Papers

AdvAug: Robust Adversarial Augmentation for Neural Machine Translation

Yong Cheng, *Lu Jiang*, *Wolfgang Macherey*, *Jacob Eisenstein*

Wednesday July 8, 2020 11A Machine Translation-13 5:00 UTC+0
Wednesday July 8, 2020 12A Machine Translation-14 8:00 UTC+0
Link to Paper

Named Entity Recognition as Dependency Parsing

Juntao Yu, **Bernd Bohnet**, *Massimo Poesio*

Wednesday July 8, 2020 11B Information Extraction-4 6:00 UTC+0
Wednesday July 8, 2020 12B Information Extraction-6 9:00 UTC+0
Link to Paper

Cross-modal Coherence Modeling for Caption Generation

Malihe Alikhani, **Piyush Sharma**, *Shengjie Li*, **Radu Soricut**, *Matthew Stone*

Wednesday July 8, 2020 11B Language Grounding to Vision, Robotics and Beyond-5 6:00 UTC+0
Wednesday July 8, 2020 12B Language Grounding to Vision, Robotics and Beyond-6 9:00 UTC+0
Link to Paper

Representation Learning for Information Extraction from Form-like Documents

Bodhisattwa Prasad Majumder, **Navneet Potti**, **Sandeep Tata**, **James Bradley Wendt**, **Qi Zhao, Marc Najork**

Wednesday July 8, 2020 11B Information Extraction-4 6:00 UTC+0
Wednesday July 8, 2020 15B Information Extraction-12 21:00 UTC+0
Link to Paper

Low-Dimensional Hyperbolic Knowledge Graph Embeddings

Ines Chami, *Adva Wolf*, **Da-Cheng Juan**, *Frederic Sala*, **Sujith Ravi**, *Christopher Ré*

Wednesday July 8, 2020 12A Machine Learning for NLP-13 8:00 UTC+0
Wednesday July 8, 2020 13A Machine Learning for NLP-15 12:00 UTC+0
Link to Paper

What Question Answering can Learn from Trivia Nerds

Jordan Boyd-Graber, *Benjamin Börschinger*

Wednesday July 8, 2020 12B THEME-4 9:00 UTC+0
Wednesday July 8, 2020 13B THEME-5 13:00 UTC+0
Link to Paper

Learning a Multi-Domain Curriculum for Neural Machine Translation

Wei Wang, *Ye Tian*, *Jiquan Ngiam*, *Yinfei Yang*, *Isaac Caswell*, *Zarana Parekh*

Wednesday July 8, 2020 13B Machine Translation-15 13:00 UTC+0
Wednesday July 8, 2020 15A Machine Translation-17 20:00 UTC+0
Link to Paper

Translationese as a Language in "Multilingual" NMT

Parker Riley, *Isaac Caswell*, *Markus Freitag*, *David Grangier*

Wednesday July 8, 2020 13B Machine Translation-15 13:00 UTC+0
Wednesday July 8, 2020 15B Machine Translation-18 21:00 UTC+0
Link to Paper

Mapping Natural Language Instructions to Mobile UI Action Sequences

Yang Li, *Jiacong He*, *Xin Zhou*, *Yuan Zhang*, *Jason Baldridge*

Wednesday July 8, 2020 14A Language Grounding to Vision, Robotics and Beyond-8 17:00 UTC+0
Wednesday July 8, 2020 15A Language Grounding to Vision, Robotics and Beyond-9 20:00 UTC+0
Link to Paper

BLEURT: Learning Robust Metrics for Text Generation

Thibault Sellam, *Dipanjan Das*, *Ankur Parikh*

Wednesday July 8, 2020 14A Generation-13 17:00 UTC+0
Wednesday July 8, 2020 15A Generation-14 20:00 UTC+0
Link to Paper

Exploring Unexplored Generalization Challenges for Cross-Database Semantic Parsing

Alane Suhr, **Ming-Wei Chang**, **Peter Shaw**, **Kenton Lee**

Wednesday July 8, 2020 14A Semantics: Sentence Level-9 17:00 UTC+0
Wednesday July 8, 2020 15A Semantics: Sentence Level-10 20:00 UTC+0
Link to Paper

Frugal Paradigm Completion

Alexander Erdmann, **Tom Kenter**, **Markus Becker**, **Christian Schallhart**

Wednesday July 8, 2020 14A Phonology, Morphology and Word Segmentation-6 17:00 UTC+0
Wednesday July 8, 2020 15B Phonology, Morphology and Word Segmentation-7 21:00 UTC+0
Link to Paper

Thursday, July 9

Workshops

W6: IWPT - The 16th International Conference on Parsing Technologies
*Yuji Matsumoto, Stephan Oepen, Kenji Sagae, **Anders Søgaard**, Weiwei Sun and Reut Tsarfaty*
Thursday July 9, 2020 7:00 AM PDT/14:00 UTC
Link to Workshop

W9: ALVR - Workshop on Advances in Language and Vision Research
*Xin Wang, Jesse Thomason, Ronghang Hu, Xinlei Chen, Peter Anderson, Qi Wu, Asli Celikyilmaz, **Jason Baldridge** and William Yang Wang*
Thursday July 9, 2020 8:30 AM PDT/15:30 UTC
Link to Workshop

Friday, July 10

Workshops

W12: WNGT - The 4th Workshop on Neural Generation and Translation
*Alexandra Birch, Graham Neubig, Andrew Finch, Hiroaki Hayashi, Kenneth Heafield, Ioannis Konstas, **Yusuke Oda** and Xian Li*
Friday July 10, 2020 8:30 AM PDT/15:30 UTC
Link to Workshop

W15: NLPMC - NLP for Medical Conversations
*Parminder Bhatia, Chaitanya Shivade, Mona Diab, Byron Wallace, Rashmi Gangadharaiah, **Nan Du**, **Izhak Shafran** and Steven Lin*
Link to Workshop

W18: AutoSimTrans - The 1st Workshop on Automatic Simultaneous Translation
*Hua Wu, **Colin Cherry**, James Cross, Liang Huang, Zhongjun He, Mark Liberman and Yang Liu*
Link to Workshop

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Authors with Google affiliations listed in bold