



EMNLP 2018

Brussels, Belgium
Oct. 31-Nov. 4

The EMNLP organizers gratefully acknowledge the support from the following sponsors.

Diamond Tier

Google

facebook

Bloomberg®



Platinum Tier

amazon



grammarly



Gold Tier

CVTE
视源股份

ebay™

Microsoft

NAVER | LINE

ORACLE®

POLYAI

Silver Tier



figure
eight



Bronze Tier & Supporter Tier



textkernel
Machine Intelligence for People and Jobs

text IQ

©2018 The Association for Computational Linguistics

Order copies of this and other ACL proceedings from:

Association for Computational Linguistics (ACL)
209 N. Eighth Street
Stroudsburg, PA 18360
USA
Tel: +1-570-476-8006
Fax: +1-570-476-0860
acl@aclweb.org

ISBN 978-1-948087-84-1

Preface by the General Chair

Welcome to EMNLP 2018 in Brussels, Belgium! I hope that EMNLP 2018 will be a memorable experience filled with exciting research presentations, outstanding keynote speakers, and many stimulating conversations with colleagues and friends, both old and new. In the evenings, I hope that you will explore the wonderful city of Brussels! Admire the historic buildings, visit great museums, and enjoy the Belgian cuisine.

EMNLP 2018 will have an extensive technical program that includes 14 workshops, 6 tutorials, 3 invited speakers, 351 long paper presentations, 198 short paper presentations, 10 TACL paper presentations, and 29 demos. I want to give special thanks to the Program Co-Chairs: David Chiang, Julia Hockenmaier, and Jun'ichi Tsujii. EMNLP 2018 received a record-breaking 2,231 valid submissions, a 48% increase over EMNLP 2017! Despite the massive volume of submissions, the PC chairs put tremendous care into every decision, big and small, and gracefully handled numerous inquiries and requests. Their commitment to a high-quality program was inspiring. Of course, the PC Chairs did not handle the workload alone: we all owe an enormous debt of gratitude to the 60 Area Chairs and 1,436 reviewers (yes, 1,400+ reviewers!) who took on the critical responsibilities of reviewing paper submissions and providing feedback to the program chairs. Thank you all!

The Demo Co-Chairs, Eduardo Blanco and Wei Lu, also had to handle an usually high workload. EMNLP 2018 received 77 demo submissions, which was a 40% increase over EMNLP 2017. They recruited an additional 150+ reviewers to assess the demo submissions, and managed the review process seamlessly. Thank you, Eduardo and Wei!

The EMNLP 2018 Workshop Co-Chairs, Marieke van Erp and Vincent Ng, and the EMNLP 2018 Tutorial Co-Chairs, Mausam and Lu Wang, oversaw the selection of workshops and tutorials and coordinated planning with the organizers. Many thanks to Marieke, Vincent, Mausam, and Lu for orchestrating terrific workshop and tutorial programs! And I am thrilled to have three exceptional NLP researchers as our keynote speakers: Johan Bos, Julia Hirschberg, and Gideon Mann.

For EMNLP 2018, we added two new initiatives to provide financial support to conference participants. We introduced *childcare grants* that offer financial support for childcare expenses incurred to participate in the conference. These childcare grants give families broad flexibility to utilize many different types of childcare services and arrangements. A giant thank you to Swapna Somasundaran for navigating this new terrain and drafting the policy guidelines, and to both Swapna and Aoife Cahill for overseeing the application and decision processes.

EMNLP 2018 also introduced travel scholarships for non-students to attend the conference. The non-student travel scholarships provide support to people with financial need who might otherwise not be able to participate in the conference. We created this initiative with an eye toward supporting researchers from historically under-represented regions and young researchers or others with limited financial means. I want to thank Anna Rumshisky and Hugo Van hamme for managing these new non-student travel scholarships, along with the student travel scholarship and volunteer applications.

Nitin Madnani deserves special thanks for taking charge of *both* the EMNLP 2018 web site and conference app, and doing a fantastic job. Nitin was a pleasure to work with, and incredibly responsive, answering emails impossibly fast and accommodating every request. Thanks also to our Publicity Chair, Mohit Iyyer, for advertising the conference on social media and elsewhere, and our Video Chair, Bonan Min, for handling the video recordings.

Managing the conference proceedings and compiling the handbook are extremely time-consuming and tedious jobs, but less visible to conference attendees, who only see the final products. Enormous

thanks to the Publication Chairs, Micha Elsner (junior chair) and Preethi Raghavan (senior chair), the Conference Handbook Chair, Kai-Wei Chang, the Handbook Advisor, Joachim Bingel, and the Handbook Proofreader, He He. They were truly a fantastic team!

And a huge thanks to the Local Organization Committee from KU Leuven: Marie-Francine Moens (chair), Dominique De Brabanter, Frieda Steurs, and Hugo Van hamme, as well as the Local Sponsorship Chair, Katrien Beuls from Vrije Universiteit Brussel. Their hard work and enthusiasm were key to making EMNLP 2018 a success! In addition, a large conference like EMNLP depends heavily on sponsorship, and I want to sincerely thank *all* of the EMNLP 2018 sponsors for their generous support!

I must also thank SIGDAT for their support throughout this past year. With extra thanks to Noah Smith, the SIGDAT Secretary-Treasurer and EMNLP liaison, for his support of our new initiatives, valuable feedback, and quick responses. Finally, I owe a huge debt of gratitude to Priscilla Rasmussen, who managed so many aspects of the conference that I can't even begin to name them. A heartfelt thanks to Priscilla for her hard work, sage advice, and for patiently answering an endless stream of questions from me, and many others.

And thanks to all of YOU for participating in EMNLP 2018! I hope you enjoy the conference and your time in Brussels!

EMNLP 2018 General Chair

Ellen Riloff, University of Utah, USA

Preface by the Program Committee Co-Chairs

Welcome to EMNLP 2018! This year’s technical program consists of three invited talks, 224 oral presentations (including three papers appearing in the Transactions of the ACL), and 335 poster presentations (including seven papers appearing in TACL). To our knowledge, it’s the largest NLP conference ever, and it would not have been possible without the help of our program committee members.

This year, we organized the program committee into eight broad areas. For each area, one of our amazing senior area chairs (Jordan Boyd-Graber, Xavier Carreras, Yejin Choi, Philipp Koehn, Alessandro Moschitti, Slav Petrov, Massimo Poesio, and Kam-Fai Wong) headed a team of several other area chairs (totaling 52 across all areas) and an army of reviewers (totaling 1,436 across all areas). We’d like to especially thank those reviewers who agreed to review a full load of papers, which turned out to be a bit heavier than expected!

2018 appears to have been the year of experimentation with new review forms, and EMNLP was no exception. We eliminated many of the traditional numerical ratings and divided up the free-form comments into a small number of separate free-response questions. We tried to make this new structure mirror the structure of a typical review, while encouraging more comprehensive reviewing.

Extrapolating exponentially from the past two years, we expected to receive about 1,800 submissions, but the eventual number exceeded our expectations at 2,231 (excluding empty and duplicate submissions). After removal of invalid submissions and some withdrawals, we sent 2,116 papers out for review. Despite the growing number of submissions, we tried to keep acceptance rates at the same level as past years. The acceptance statistics are shown below.

	Long	Short	Total	TACL
Submitted	1,376	855	2,231	–
Accepted as talk	140 (10.2%)	81 (9.5%)	221 (9.9%)	3
Accepted as poster	211 (15.3%)	117 (13.7%)	328 (14.7%)	7
Accepted (total)	351 (25.5%)	198 (23.2%)	549 (24.6%)	10

As in past years, three awards will be given for Best Long Paper, Best Short Paper, and Best Resource Paper. We solicited recommendations for awards from reviewers and area chairs. Following these recommendations, we sent 7 long papers, 5 short papers, and 5 resource papers to three committees chosen from among the area chairs. In the end, we selected two winners for Best Long Paper and one each for Best Short Paper and Best Resource Paper, all of which will be presented in a final plenary session.

We are delighted to have keynote addresses from three giants of our field: Johan Bos, on the future of computational semantics; Julia Hirschberg, on deception detection in speech; and Gideon Mann, on the use of NLP in finance.

In addition to our entire program committee, we would also like to give thanks to:

- Our general chair, Ellen Riloff,
- Priscilla Rasmussen,
- Last year’s program chairs, Rebecca Hwa and Sebastian Riedel,
- Our local chair, Marie-Francine Moens, and the local organizing committee,
- Our web and publicity chairs, Nitin Madnani and Mohit Iyyer,
- Our publications chairs, Micha Elsner and Preethi Raghavan,
- Our handbook chair, Kai-Wei Chang,
- Rich Gerber and the technical support team at SoftConf.

Again, welcome! We hope that you enjoy this year’s conference, and return home with new insights, ideas, and opportunities!

EMNLP 2018 Program Co-Chairs

David Chiang, University of Notre Dame, USA

Julia Hockenmaier, University of Illinois Urbana-Champaign, USA

Jun’ichi Tsujii, Artificial Intelligence Research Center, Japan

Organizing Committee

General Chair

Ellen Riloff, University of Utah, USA

Program Committee Co-chairs

David Chiang, University of Notre Dame, USA

Julia Hockenmaier, University of Illinois Urbana-Champaign, USA

Junichi Tsujii, Artificial Intelligence Research Center, Japan

Local Arrangements Committee

Marie-Francine Moens, KU Leuven, Belgium (chair)

Dominique De Brabanter, KU Leuven, Belgium

Frieda Steurs, KU Leuven, Belgium

Hugo Van hamme, KU Leuven, Belgium

Local Sponsorship Chair

Katrien Beuls, Vrije Universiteit Brussel, Belgium

Workshop Co-chairs

Marieke van Erp, KNAW Humanities Cluster, Netherlands

Vincent Ng, University of Texas at Dallas, USA

Tutorial Co-chairs

Mausam, Indian Institute of Technology Delhi, India

Lu Wang, Northeastern University, USA

Demos Co-chairs

Eduardo Blanco, University of North Texas, USA

Wei Lu, Singapore University of Technology and Design, Singapore

Publications Sr Chair

Preethi Raghavan, IBM, USA

Publications Jr Chair

Micha Elsner, Ohio State University, USA

Publicity Chair

Mohit Iyyer, University of Massachusetts at Amherst, USA

Video Chair

Bonan Min, BBN Technologies, USA

Website and Conference App Chair

Nitin Madnani, Educational Testing Service, USA

Conference Handbook Chair

Kai-Wei Chang, University of California at Los Angeles, USA

Conference Handbook Advisor

Joachim Bingel, University of Copenhagen, Denmark

Handbook Proofreader

He He, Stanford University, USA

Student Scholarship Co-chair and Student Volunteer Coordinator

Anna Rumshisky, University of Massachusetts at Lowell, USA

Hugo Van hamme, KU Leuven, Belgium

Childcare Policy and Grant Coordinator

Swapna Somasundaran, Educational Testing Service, USA

Aoife Cahill, Educational Testing Service, USA

Program Committee

Program Committee Co-chairs

David Chiang, University of Notre Dame, USA

Julia Hockenmaier, University of Illinois Urbana-Champaign, USA

Junichi Tsujii, Artificial Intelligence Research Center, Japan

Area Chairs

Information Extraction, Information Retrieval, and Question Answering

Jordan Boyd-Graber, University of Maryland, USA (senior chair)

Isabelle Augenstein, University of Copenhagen, Denmark

Ming-Wei Chang, Google, USA

Doug Downey, Northwestern University, USA

Ruihong Huang, Texas A&M University, USA

Mausam, IIT Delhi, India

Makoto Miwa, Toyota Technological Institute, Japan

William Wang, University of California at Santa Barbara, USA

Scott Yih, Allen Institute for Artificial Intelligence, USA

Text Mining and Information Retrieval

Alessandro Moschitti, University of Trento, Italy (senior chair)

Sophia Ananiadou, University of Manchester, United Kingdom

Hsin-Hsi Chen, National Taiwan University

Marius Pasca, Google, USA

Xiang Ren, University of Southern California, USA

Alan Ritter, Ohio State University, USA

David Smith, Northeastern University, USA

Social Media, Computational Social Science, and Sentiment/Opinion Analysis

Kam-Fai Wong, Chinese University of Hong Kong (senior chair)

Eiji Aramaki, Nara Institute of Science and Technology, Japan

Mona Diab, George Washington University, USA

Yulan He, Aston University, United Kingdom

Dirk Hovy, Bocconi University, Italy

Rada Mihalcea, University of Michigan, USA

Alice Oh, KAIST, Korea

Wei Xu, Ohio State University, USA

Morphology, Syntax, and Psycholinguistics

Slav Petrov, Google, USA (senior chair)

Liang Huang, Oregon State University, USA

Roger Levy, Massachusetts Institute of Technology, USA

Stephan Oepen, University of Oslo, Norway

Emily Pitler, Google, USA

Reut Tsarfaty, Open University of Isra

Semantics

Massimo Poesio, Queen Mary University of London, United Kingdom (senior chair)
Omri Abend, Hebrew University of Jerusalem, Israel
Raffaella Bernardi, University of Trento, Italy
Michael Lewis, Facebook, USA
Yulia Tsvetkov, Carnegie Mellon University, USA
Benjamin Van Durme, Johns Hopkins University, USA
Nianwen Xue, Brandeis University, USA

Discourse, Dialogue, Summarization, Generation, and Multimodal NLP

Yejin Choi, University of Washington, USA (senior chair)
Mohit Bansal, University of North Carolina, USA
Michel Galley, Microsoft, USA
Grzegorz Chrupala, Tilburg University, Netherlands
Haizhou Li, National University of Singapore
Fei Liu, University of Central Florida, USA
Karen Livescu, Toyota Technological Institute - Chicago, USA
Meg Mitchell, Google, USA
Rashmi Prasad, Interactions, USA
Xiaojun Wan, Peking University, China
Zhou Yu, University of California at Davis, USA

Machine Translation and Multilinguality

Philipp Koehn, Johns Hopkins University, USA (senior chair)
Arianna Bisazza, Leiden University, Netherlands
Qun Liu, Dublin City University, Ireland
Yang Liu, Tsinghua University, China
Zhaopeng Tu, Tencent, China
Taro Watanabe, Google, Japan

Machine Learning

Xavier Carreras, dMetrics, USA (senior chair)
Shay Cohen, University of Edinburgh, United Kingdom
Kevin Gimpel, Toyota Technological Institute - Chicago, USA
Stefan Riezler, Heidelberg University, Germany
Karl Stratos, Toyota Technological Institute - Chicago, USA
Jun Suzuki, Tohoku University, Japan

Reviewers

We would like to recognize the following 100 reviewers with the Best Reviewer Award.

Natalie Ahn, Emilia Apostolova, Miguel Ballesteros, Daniel Bauer, Yonatan Belinkov, Darina Benikova, Luciana Benotti, Robert Berwick, Chloé Braud, Hendrik Buschmeier, Jan Buys, Dallas Card, Asli Celikyilmaz, Arun Chaganty, Kai-Wei Chang, Colin Cherry, Maximin Coavoux, Zeyu Dai, Cedric De Boom, Miryam de Lhoneux, Mark Dredze, Greg Durrett, Ondrej Dusek, Jason Eisner, Michael Elhadad, M. Amin Farajian, Shi Feng, Simone Filice, Stefan L. Frank, Lea Frermann, Matthias Gallé, Ekaterina

Garmash, Michaela Geierhos, Lieke Gelderloos, Kallirroi Georgila, Alborz Geramifard, Matthew R. Gormley, Yvette Graham, Jiatao Gu, Bo Han, Shuguang Han, Abram Handler, Hua He, Lisa Anne Hendricks, Daniel Hershovich, Jack Hessel, Gerold Hintz, Ari Holtzman, Peter Jansen, Ákos Kádár, Sarvnaz Karimi, Ekaterina Kochmar, Parisa Kordjamshidi, Gaurav Kumar, Adhiguna Kuncoro, Yanran Li, Jing Li, Chen Li, Lucelene Lopes, Adam Lopez, Kate Loveys, Chandler May, Nafise Sadat Moosavi, Andrea Moro, Philippe Muller, Shashi Narayan, Dong Nguyen, Hitoshi Nishikawa, Peyman Passban, Laura Perez-Beltrachini, Ana-Maria Popescu, Piotr Przybyla, Peng Qi, Will Radford, Roi Reichart, Anna Rohrbach, Shigehiko Schamoni, Yves Scherrer, Sebastian Schuster, Matthew Shardlow, Tianze Shi, Carina Silberer, Kevin Small, Luca Soldaini, Gabriel Stanovsky, Kristina Striegnitz, Jannik Strötgen, Liling Tan, Hao Tang, Yi Tay, Mariët Theune, Yuen-Hsien Tseng, Subhashini Venugopalan, Henning Wachsmuth, Eric Wallace, Bonnie Webber, Michael White, Shuly Wintner, Andrew Yates, Justine Zhang.

We also thank the remaining reviewers for their hard work.

Mourad Abbas, Muhammad Abdul-Mageed, Amjad Abu-Jbara, Oliver Adams, Heike Adel, Stergos Afantenos, Apoorv Agarwal, Željko Agić, Roei Aharoni, Chaitanya Ahuja, Zeynep Akata, Alan Akbik, Ahmet Aker, Cem Akkaya, Chris Alberti, Hanan Aldarmaki, Nikolaos Aletras, Afra Alishahi, Alexandre Allauzen, Tim Althoff, Bharat Ram Ambati, Waleed Ammar, Antonios Anastasopoulos, Jesse Anderton, Nicholas Andrews, Anietie Andy, Gabor Angeli, Marianna Apidianaki, Jun Araki, Kenji Araki, Yuki Arase, Ehsaneddin Asgari, Ramón Astudillo, Giuseppe Attardi, Eleftherios Avramidis, Amittai Axelrod, Wilker Aziz, Yoram Bachrach, Hessam Bagherinezhad, Fan Bai, Simon Baker, Mithun Balakrishna, Niranjan Balasubramanian, Tyler Baldwin, David Bamman, Rafael E. Banchs, Siddhartha Banerjee, Trapit Bansal, Roy Bar-Haim, Libby Barak, Alistair Baron, Marco Baroni, Alberto Barrón-Cedeño, Guntis Barzdins, Pierpaolo Basile, Valerio Basile, Joost Basting, Riza Theresa Batista-Navarro, Vishwash Batra, Timo Baumann, Rachel Bawden, Frederic Bechet, Daniel Beck, Srikanta Bedathur, Núria Bel, Eric Bell, Kedar Bellare, Iz Beltagy, Anja Belz, Farah Benamara, Jonathan Berant, Taylor Berg-Kirkpatrick, Raffaella Bernardi, Nicola Bertoldi, Laurent Besacier, Steven Bethard, Chandra Bhagavatula, Suma Bhat, Archana Bhatia, Sumit Bhatia, Pushpak Bhattacharyya, Chris Biemann, Lidong Bing, Alexandra Birch, Yonatan Bisk, Johannes Bjerva, Jari Björne, Frédéric Blain, Eduardo Blanco, Su Lin Blodgett, Michael Bloodgood, Reihane Boghrati, Nikolay Bogoychev, Bernd Bohnet, Danushka Bollegala, Daniele Bonadiman, Francesca Bonin, Kalina Bontcheva, Georgeta Bordea, Alexey Borisov, Johan Bos, Antoine Bosselut, Jan A. Botha, Houda Bouamor, Fethi Bougares, Samuel Bowman, Ryan Boyd, Matko Bošnjak, Jonathan Brennan, Chris Brew, Chris Brockett, Austin Brockmeier, Thomas Brovelli (Meyer), Caroline Brun, Dominique Brunato, Paul Buitelaar, Florin Bulgarov, Stephan Busemann, Bill Byrne, Donna Byron, Benjamin Börschinger, José G. C. de Souza, Elena Cabrio, Aoife Cahill, Iacer Calixto, Jose Camacho-Collados, Erik Cambria, Nicola Cancedda, Marie Candito, Hailong Cao, Yuan Cao, Ziqiang Cao, Giuseppe Carenini, Francisco Casacuberta, Thiago Castro Ferreira, Daniel Cer, Mauro Cettolo, Soumen Chakrabarti, Yllias Chali, Yee Seng Chan, Muthu Kumar Chandrasekaran, Baobao Chang, Chia-Hui Chang, Yin-Wen Chang, Rajen Chatterjee, Snigdha Chaturvedi, Stergios Chatzikyriakidis, Wanxiang Che, Ciprian Chelba, Bin Chen, Boxing Chen, Chen Chen, Chung-Chi Chen, Danqi Chen, Huan-Yuan Chen, John Chen, Kaiping Chen, Kehai Chen, Muhao Chen, Tao Chen, Tongfei Chen, Wenhui Chen, Wenliang Chen, Xilun Chen, Yidong Chen, Yubo Chen, Yun-Nung Chen, Zhiyuan Chen, Jianpeng Cheng, Pu-Jen Cheng, Yong Cheng, Jackie Chi Kit Cheung, Jen-Tzung Chien, Hai Leong Chieu, Laura Chiticariu, Kyunghyun Cho, Eunsol Choi, Heeyoul

Choi, Leshem Choshen, Prafulla Kumar Choubey, Christos Christodoulopoulos, Chenhui Chu, Tagy-oung Chung, Kenneth Church, Philipp Cimiano, Volkan Cirik, Alexander Clark, Kevin Clark, Ann Clifton, Arman Cohan, Daniel Cohen, Raphael Cohen, Nigel Collier, Michael Collins, John Conroy, Matthieu Constant, Danish Contractor, Bonaventura Coppola, Gregory F. Coppola, Caio Corro, Marta R. Costa-jussà, Ryan Cotterell, Benoit Crabbé, Danilo Croce, James Cross, Montse Cuadros, Heriberto Cuayahuitl, Yiming Cui, Aron Culotta, Anna Currey, Iria da Cunha, Özlem Çetinoğlu, Ido Dagan, Andrew Dai, Zihang Dai, Joachim Daiber, Jeff Dalton, Bhavana Dalvi, Falavigna Daniele, Lena Dankin, Kareem Darwish, Amitava Das, Dipanjan Das, Rajarshi Das, Pradeep Dasigi, Gaël de Chalendar, Adrià de Gispert, Daniël de Kok, Eric De La Clergerie, Renato de Mori, Luciano Del Corro, Claudio Delli Bovi, Louise Deléger, Thomas Demeester, David Demeter, Dina Demner-Fushman, Steve DeNeefe, Lingjia Deng, Pascal Denis, Michael Denkowski, Matthew Denny, Tejaswini Deoskar, Valeria de Paiva, Nina Dethlefs, Chris Develder, Jacob Devlin, Bhuwan Dhingra, Luigi Di Caro, Giuseppe Di Fabbrizio, Jana Diesner, Shuoyang Ding, Simon Dobnik, Ellen Dodge, Jesse Dodge, Tobias Domhan, Li Dong, MeiXing Dong, Shichao Dong, A. Seza Doğruöz, Eduard Dragut, Mark Dras, Markus Dreyer, Lan Du, Xiangyu Duan, Haim Dubossarsky, Pablo Duboue, Kevin Duh, Nadir Durrani, Chris Dyer, Marc Dymetman, Valery Dzutsati, Hiroshi Echizen'ya, Richard Eckart de Castilho, Thomas Effland, Steffen Eger, Markus Egg, Patrick Ehlen, Maud Ehrmann, Vladimir Eidelman, Andreas Eisele, Jacob Eisenstein, Asif Ekbali, Layla El Asri, Heba Elfardy, Ahmed Elgohary, Mihail Eric, Hugo Jair Escalante, Cristina España-Bonet, Kurt Junshean Espinosa, Luis Espinosa Anke, Allyson Ettinger, Keelan Evanini, James Fan, Hao Fang, Hui Fang, Licheng Fang, Manaal Faruqi, Benoit Favre, Maryam Fazel-Zarandi, Marcello Federico, Christian Federmann, Geli Fei, Anna Feldman, Yang Feng, Yansong Feng, Raquel Fernández, Daniel Fernández-González, Francis Ferraro, Elena Filatova, Katja Filipova, Mark Finlayson, Orhan Firat, Mark Fishel, Nicholas FitzGerald, Jeffrey Flanigan, Dan Flickinger, Michael Flor, Radu Florian, Antske Fokkens, José A. R. Fonollosa, Maxwell Forbes, Tommaso Fornaciari, George Foster, Samuel Fraiberger, Anette Frank, Dayne Freitag, Markus Freitag, André Freitas, Jesse Freitas, Daniel Fried, Xiao Fu, Hagen Fuerstenau, Atsushi Fujii, Fumiyo Fukumoto, Richard Futrell, Alona Fyshe, Michael Gamon, Zhe Gan, Kuzman Ganchev, Octavian-Eugen Ganea, Juri Gantkevitch, Mercedes García-Martínez, Claire Gardent, Dan Garrette, Milica Gasic, Albert Gatt, Tao Ge, Ulrich Germann, Mehdi Ghanimifard, Debanjan Ghosh, Sucheta Ghosh, George Giannakopoulos, Daniel Gildea, Dimitra Gkatzia, Goran Glavaš, Alfio Gliozzo, Koldo Gojenola, Yoav Goldberg, Dan Goldwasser, Sharon Goldwater, Juan Carlos Gomez, Graciela Gonzalez-Hernandez, Jesús González-Rubio, Hugo Gonçalves Oliveira, Jonathan Gordon, Kyle Gorman, Cyril Goutte, Kartik Goyal, Pawan Goyal, Natalia Grabar, Roger Granada, Mark Granroth-Wilding, Eleni Gregoromichelaki, Scott Grimm, Ralph Grishman, Cyril Grouin, Adam Grycner, Anupam Guha, Lin Gui, Tao Gui, Camille Guinaudeau, Hongyu Guo, Jiafeng Guo, Jiang Guo, Weiwei Guo, Nitish Gupta, Sonal Gupta, Francisco Guzmán, Jeremy Gwinnup, Carlos Gómez-Rodríguez, Nizar Habash, Maryam Habibi, Gholamreza Haffari, Masato Hagiwara, Udo Hahn, Jan Hajic, Hannaneh Hajishirzi, Dilek Hakkani-Tur, John Hale, Keith Hall, William L. Hamilton, Thierry Hamon, Jialong Han, Na-Rae Han, Oul Han, Xianpei Han, Sanda Harabagiu, Christian Hardmeier, Daniel Hardt, Orin Hargraves, David Harwath, Kazi Saidul Hasan, Sadid A. Hasan, Mark Hasegawa-Johnson, Homa Hashemi, Kazuma Hashimoto, Eva Hasler, Katsuhiko Hayashi, Devamanyu Hazarika, He He, Luheng He, Shizhu He, Xiangnan He, Yifan He, Zhongjun He, Kenneth Heafield, Carmen Heger, Michael Heilman, Benjamin Heinzerling, James Henderson, John Henderson, Matthew Henderson, Aron Henriksson, Aurélie Herbelot, Ulf Hermjakob, Raquel Hervas, Jonathan Herzig, John Hewitt, Ryuichiro Higashinaka, Derrick Higgins, Tsutomu Hirao, Graeme Hirst, Julian Hitschler, Hieu Hoang, Vu Cong Duy Hoang, Nathan Hodas, Chris Hokamp, Kristy Hollingshead, Chester Holtz, Yu Hong, Joseph Hoover, Ales Horak, Mohammad Javad Hos-

seini, Yufang Hou, Eduard Hovy, Estevam Hruschka, Baotian Hu, Yuheng Hu, Zhiting Hu, Bo Huang, Guoping Huang, Haoran Huang, Hen-Hsen Huang, Lifu Huang, Minlie Huang, Po-Sen Huang, Ruihong Huang, Shujian Huang, Xiaojiang Huang, Xuanjing Huang, Zhongqiang Huang, Matthias Huck, Samar Husain, Rebecca Hwa, Jena D. Hwang, Seung-won Hwang, Ignacio Iacobacci, Adrian Iftene, Gonzalo Iglesias, Ryu Iida, Loring Ingraham, Naoya Inoue, Kentaro Inui, Takashi Inui, Radu Tudor Ionescu, Molly Ireland, Aminul Islam, Alexei V. Ivanov, Srinivasan Iyer, Mohit Iyyer, Kokil Jaidka, Prachi Jain, Adam Jatowt, Sujay Kumar Jauhar, Sébastien Jean, Laura Jehl, Yacine Jernite, Rahul Jha, Heng Ji, Yangfeng Ji, Robin Jia, Ping Jian, Hui Jiang, Jing Jiang, Jingtian Jiang, Meng Jiang, Wenbin Jiang, Antonio Jimeno Yepes, Yohan Jo, Anders Johannsen, Richard Johansson, Kristen Johnson, Kristiina Jokinen, Gareth Jones, Kenneth Joseph, Mandar Joshi, Shafiq Joty, Meizhi Ju, Marcin Junczys-Dowmunt, Preethi Jyothi, Gerhard Jäger, Nobuhiro Kaji, Herman Kamper, Pallika Kanani, Hiroshi Kanayama, Dongyeop Kang, Dimitri Kartsaklis, Arzoo Katiyar, Makoto P. Kato, Daisuke Kawahara, Hideto Kazawa, Chris Kedzie, Aniruddha Kembhavi, Casey Kennington, Mitesh M. Khapra, Huda Khayrallah, Douwe Kiela, Yuta Kikuchi, Halil Kilicoglu, Jin-Dong Kim, Jooyeon Kim, Najoung Kim, Seokhwan Kim, Suin Kim, Sun Kim, Sunghwan Mac Kim, Yoon Kim, Young-Bum Kim, Irwin King, Eliyahu Kiperwasser, Svetlana Kiritchenko, Nikita Kitaev, Judith Klavans, Alexandre Klementiev, Roman Klinger, Alistair Knott, Rebecca Knowles, Sosuke Kobayashi, Thomas Kober, Simon Kocbek, Kazunori Komatani, Rik Koncel-Kedziorski, Grzegorz Kondrak, Xiang Kong, Ioannis Konstas, Yannis Korkontzelos, Leila Kosseim, Lili Kotlerman, Zornitsa Kozareva, Mikhail Kozhevnikov, Julia Kreutzer, Jayant Krishnamurthy, Kriste Krstovski, Canasai Kruengkrai, Udo Kruschwitz, Germán Kruszewski, Lun-Wei Ku, Marco Kuhlmann, Roland Kuhn, Vivek Kulkarni, Shankar Kumar, Jonathan K. Kummerfeld, Gourab Kundu, Tsung-Ting Kuo, Sadao Kurohashi, Polina Kuznetsova, Maximilian Köper, Sandra Kübler, Majid Laali, Gorka Labaka, Wai Lam, Mathias Lambert, Patrik Lambert, Vasileios Lamos, Gerasimos Lampouras, Wuwei Lan, Ni Lao, Mirella Lapata, Romain Laroche, Jey Han Lau, Alon Lavie, Carolin Lawrence, Angeliki Lazaridou, Phong Le, Joseph Le Roux, Robert Leaman, Chia-ying Lee, Hung-yi Lee, John Lee, Lin-shan Lee, Sungjin Lee, Yoong Keok Lee, Young-Suk Lee, Els Lefever, Tao Lei, Gaël Lejeune, Alessandro Lenci, Piroska Lendvai, Chee Wee (Ben) Leong, James Lester, Gregor Leusch, Effi Levi, Roger Levy, Baoli Li, Binyang Li, Cheng-Te Li, Chenliang Li, Haibo Li, Juanzi Li, Junhui Li, Junyi Jessy Li, Lei Li, Liangyou Li, Lishuang Li, Miles Li, Piji Li, Sujian Li, Xin Li, Xiujun Li, Yanen Li, Yunyao Li, Zhenghua Li, Zhixing Li, Maria Liakata, Chen Liang, Paul Pu Liang, Ming Liao, Xiangwen Liao, Anne-Laure Ligozat, Nut Limsopatham, Bill Yuchen Lin, Chenghua Lin, Chuan-Jie Lin, Dekang Lin, Xi Victoria Lin, Xiao Ling, Tal Linzen, Pierre Lison, Marina Litvak, Bing Liu, Changsong Liu, Fei Liu, Jiangming Liu, Jingjing Liu, Kai Liu, Kang Liu, Lemao Liu, Liyuan Liu, Qian Liu, Shujie Liu, Xiaodong Liu, Yang Liu, Yang Liu, Yiqun Liu, Zhengzhong Liu, Zhiyuan Liu, Nikola Ljubešić, Elena Lloret, José Lopes, Oier Lopez de Lacalle, Aurelio Lopez-Lopez, Annie Louis, Ryan Lowe, Sharid Loáiciga, Qin Lu, Wei Lu, Yi Luan, Wencan Luo, Zhunchen Luo, Anh Tuan Luu, Teresa Lynn, Chunchuan Lyu, Jing Ma, Mingbo Ma, Shuming Ma, Wei-Yun Ma, Xuezhe Ma, Klaus Macherey, Wolfgang Macherey, Pranava Swaroop Madhyastha, Walid Magdy, Wolfgang Maier, Jean Maillard, Peter Makarov, Prodomos Malakasiotis, Alfredo Maldonado, Andreas Maletti, Igor Malioutov, Shervin Malmasi, Radhika Mamidi, Suresh Manandhar, Gideon Mann, Ana Marasovic, Daniel Marcu, Mitchell Marcus, Alex Marin, André F. T. Martins, Bruno Martins, David Martins de Matos, Sebastian Martschat, Héctor Martínez Alonso, Marco Matassoni, Prashant Mathur, Yuichiroh Matsubayashi, Yuji Matsumoto, Takuya Matsuzaki, Austin Matthews, Abhinav Maurya, Arne Mauser, Jonathan May, Stephen Mayhew, Diana Maynard, Karen Mazidi, David McAllester, Diana McCarthy, David McClosky, John Philip McCrae, Stephen McGregor, Tara McIntosh, Kathy McKeown, Hongyuan Mei, Yelena Mejova, Pablo Mendes, Arul Menezes, Fandong Meng,

Helen Meng, Mohsen Mesgar, Florian Metze, Haitao Mi, Yishu Miao, Slava Mikhaylov, Timothy Miller, Tristan Miller, Bonan Min, Anne-Lyse Minard, Pasquale Minervini, Michael Minock, Paramita Mirza, Abhijit Mishra, Dipendra Misra, Jeff Mitchell, Akiva Miura, Daichi Mochihashi, Ashutosh Modi, Muhidin Mohamed, Saif Mohammad, Michael Mohler, Luis Gerardo Mojica de la Vega, Manuel Montes, Christof Monz, Taesun Moon, Roser Morante, Véronique Moriceau, Hajime Morita, Alessandro Moschitti, Dana Movshovitz-Attias, Nikola Mrkšić, Tingting Mu, Animesh Mukherjee, Dragos Munteanu, Yugo Murawaki, Kenton Murray, Sung-Hyon Myaeng, Maria Nadejde, Masaaki Nagata, Ryo Nagata, Ajay Nagesh, Tetsuji Nakagawa, Mikio Nakano, Yukiko Nakano, Ndapa Nakashole, Hideki Nakayama, Preslav Nakov, Jason Naradowsky, Karthik Narasimhan, Alexis Nasr, Roberto Navigli, Adeline Nazarenko, Mark-Jan Nederhof, Matteo Negri, Aida Nematzadeh, Goran Nenadic, Yael Netzer, Graham Neubig, Guenter Neumann, Dominick Ng, Hwee Tou Ng, Jun-Ping Ng, Vincent Ng, Minh-Quoc Nghiem, Axel-Cyrille Ngonga Ngomo, Thien Huu Nguyen, Truc-Vien T. Nguyen, Viet-An Nguyen, Jian-Yun Nie, Jan Niehues, Ivelina Nikolova, Nobal Bikram Niraula, Xing Niu, Joakim Nivre, Hiroshi Noji, Thanapon Noraset, Joel Nothman, Pierre Nugues, Aurélie Névél, Brendan O'Connor, Tim O'Gorman, Yusuke Oda, Kemal Oflazer, Jong-Hoon Oh, Kiyonori Ohtake, Naoaki Okazaki, Manabu Okumura, Constantin Orasan, Vicente Ordonez, Petya Osenova, Simon Ostermann, Myle Ott, Katja Ovchinnikova, Diarmuid Ó Séaghdha, Arzucan Özgür, Lilja Øvrelid, Ulrike Pado, Martha Palmer, Joao Palotti, Shimei Pan, Xiaoman Pan, Alexander Panchenko, Alexandros Papangelis, Nikos Papasartopoulos, Nikolaos Pappas, Ankur Parikh, Niki Parmar, Patrick Paroubek, Carla Parra Escartín, Tommaso Pasini, Siddharth Patwardhan, Michael J. Paul, Adam Pauls, Ellie Pavlick, Adam Pease, Baolin Peng, Hao Peng, Haoruo Peng, Nanyun Peng, Xiaochang Peng, Sergio Penkale, Ethan Perez, Julien Perez, Gabriele Pergola, Sandro Pezzelle, Karl Pichotta, Olivier Pietquin, Mohammad Taher Pilehvar, Manfred Pinkal, Juan Pino, Yuval Pinter, Barbara Plank, Emmanouil Antonios Platanios, Julien Plu, Massimo Poesio, Adam Poliak, Edoardo Maria Ponti, Simone Paolo Ponzetto, Andrei Popescu-Belis, Maja Popović, Fred Popowich, Soujanya Poria, Christopher Potts, Amir Pouran Ben Veyseh, Forough Poursabzi-Sangdeh, Vinodkumar Prabhakaran, Shrimai Prabhumoye, Daniel Preotiuc-Pietro, Emily Prud'hommeaux, Laurent Prévot, Jay Pujara, Matthew Purver, Valentina Pyatkin, Sampo Pyysalo, Verónica Pérez-Rosas, Ashequl Qadir, Jing Qian, Longhua Qian, Lianhui Qin, Pengda Qin, Long Qiu, Minghui Qiu, Lizhen Qu, Meng Qu, Chris Quirk, Ella Rabinovich, Alessandro Raganato, Altaf Rahman, Taraka Rama, Bhuvana Ramabhadran, Vikram Ramanarayanan, Maya Ramanath, Carlos Ramisch, Delip Rao, Sudha Rao, Mohammad Sadegh Rasooli, Pushpendre Rastogi, Sagnik Ray Choudhury, Simon Razniewski, Ines Rehbein, Marek Rei, Ehud Reiter, Steffen Remus, Gary Ren, Zhaochun Ren, Ludovic Rheault, Corentin Ribeyre, Giuseppe Riccardi, Matthew Richardson, Mark Riedl, Martin Riedl, Jason Riesa, German Rigau, Fabio Rinaldi, Brian Riordan, Kirk Roberts, Tim Rocktäschel, Pedro Rodriguez, Ina Roesiger, Marcus Rohrbach, Oleg Rokhlenko, Stephen Roller, Salvatore Romeo, Sara Rosenthal, Alessandro Rossi, Paolo Rosso, Benjamin Roth, Michael Roth, Sascha Rothe, Subhro Roy, Alla Rozovskaya, Sebastian Ruder, Rachel Rudinger, Frank Rudzicz, Vasile Rus, Alexander Rush, Irene Russo, Delia Rusu, Atapol Rutherford, Derek Ruths, Ashish Sabharwal, Mrinmaya Sachan, Kugatsu Sadamitsu, Fatiha Sadat, Markus Saers, Kenji Sagae, Rishiraj Saha Roy, Magnus Sahlgren, Sunil Sahu, Hassan Sajjad, Keisuke Sakaguchi, Tetsuya Sakai, Sakriani Sakti, Mohammad Salameh, Elizabeth Salesky, Avneesh Saluja, Rajhans Samdani, Germán Sanchis-Trilles, Enrico Santus, Maarten Sap, Naomi Saphra, Zahra Sarabi, Ryohei Sasano, Agata Savary, Hassan Sawaf, Asad Sayeed, Carolina Scarton, Odette Scharenborg, Tatjana Scheffler, Niko Schenk, David Schlangen, Jonathan Schler, Natalie Schluter, Allen Schmaltz, Helmut Schmid, Nathan Schneider, William Schuler, Björn Schuller, H. Andrew Schwartz, Lane Schwartz, Roy Schwartz, Stephanie Schwartz, Holger Schwenk, Djamé Seddah, Frederique Segond, Satoshi Sekine, Ethan Selfridge, Jean Senellart, Rico Sennrich, Minjoon Seo,

Christophe Servan, Burr Settles, Lei Sha, Izhak Shafran, Kashif Shah, Samira Shaikh, Rebecca Sharp, Lanbo She, Shiqi Shen, Wade Shen, Fiona Shen-Bayh, Baoxu Shi, Bei Shi, Bowen Shi, Xiaodong Shi, Hyopil Shin, Chaitanya Shivade, Avi Sil, Fabrizio Silvestri, Yanchuan Sim, Patrick Simianer, Dan Simonson, Kiril Simov, Sameer Singh, Steve Skiena, Neil Smalheiser, Sharon Small, Noah A. Smith, Parinaz Sobhani, Richard Socher, Artem Sokolov, Hyun-Je Song, Kaisong Song, Linfeng Song, Yan Song, Yang Song, Yangqiu Song, Radu Soricut, Aitor Soroa, Daniil Sorokin, Axel Soto, Lucia Specia, Matthias Sperber, Richard Sproat, Vivek Srikumar, Somayajulu Sripada, Shashank Srivastava, Miloš Stanojević, Mark Steedman, Josef Steinberger, Shane Steinert-Threlkeld, Pontus Stenetorp, Mark Stevenson, Suzanne Stevenson, Ian Stewart, Svetlana Stoyanchev, Veselin Stoyanov, Carlo Strapparava, Emma Strubell, Keh-Yih Su, Pei-Hao Su, Yu Su, Jinsong Su, Amarnag Subramanya, Katsuhito Sudoh, Alane Suhr, Elinor Sulem, Md Arafat Sultan, Fei Sun, Huan Sun, Le Sun, Ming Sun, Mihai Surdeanu, Hisami Suzuki, Swabha Swayamdipta, Idan Szpektor, Jakub Szymanik, Felipe Sánchez-Martínez, Anders Søgaard, Jan Šnajder, Sanja Štajner, Hiroya Takamura, Sho Takase, David Talbot, Partha Talukdar, Akihiro Tamura, Chenhao Tan, Jiwei Tan, Niket Tandon, Duyu Tang, Jian Tang, Jiliang Tang, Jintao Tang, Siliang Tang, Chris Tanner, Xavier Tannier, Chongyang Tao, Fangbo Tao, Makarand Tapaswi, Simone Teufel, Kapil Thadani, Jesse Thomason, Fei Tian, Ran Tian, Jörg Tiedemann, Christoph Tillmann, Gaurav Singh Tomar, Nadi Tomeh, Marc Tomlinson, Sara Tonelli, Antonio Toral, Kentaro Torisawa, Shubham Toshniwal, Ke Tran, Isabel Trancoso, Rocco Tripodi, Adam Trischler, Chen-Tse Tsai, Richard Tzong-Han Tsai, Yuta Tsuboi, Yoshimasa Tsuruoka, Lifu Tu, Gokhan Tur, Marco Turchi, Ferhan Ture, Kateryna Tymoshenko, Oscar Täckström, Stefan Ultes, Lyle Ungar, Shyam Upadhyay, Olga Uryupina, Dmitry Ustalov, Masao Utiyama, Antonio Uva, Sowmya Vajjala, Tim Van de Cruys, Rob van der Goot, Lonneke van der Plas, Menno van Zaanen, Vincent Vandeghinste, David Vandyke, Sumithra Velupillai, Alakananda Vempala, Sriram Venkatapathy, Ashish Venugopal, Patrick Verga, Marc Verhagen, Yannick Versley, Guido Vetere, David Vilar, David Vilares, Aline Villavicencio, Andreas Vlachos, Rob Voigt, Svetlana Volkova, Ngoc Thang Vu, Thuy Vu, Ivan Vulić, Yogarshi Vyas, Byron Wallace, Matthew Walter, Stephen Wan, Alex Wang, Baoxun Wang, Chao Wang, Chenguang Wang, Chuan Wang, Daling Wang, Dingquan Wang, Houfeng Wang, Longyue Wang, Lu Wang, Mingxuan Wang, Quan Wang, Rui Wang, Shaojun Wang, Shuohang Wang, Wei Wang, Xiaolong Wang, Xin Wang, Xing Wang, Zhichun Wang, Zhiguo Wang, Zhongqing Wang, Leo Wanner, Nigel Ward, Zeerak Waseem, Shinji Watanabe, Nick Webb, Ingmar Weber, Julie Weeds, Furu Wei, Zhongyu Wei, Gerhard Weikum, David Weir, Yu Weiren, Ralph Weischedel, David Weiss, Dirk Weissenborn, Johannes Welbl, Charles Welch, Laura Wendlandt, Aaron Steven White, Michael Wiegand, John Wieting, Derry Tanti Wijaya, Jake Williams, Jason D Williams, Steven Wilson, Sam Wiseman, Guillaume Wisniewski, Travis Wolfe, Derek F. Wong, Tak-Lam Wong, Hua Wu, Jiawei Wu, Yunfang Wu, Zhaohui Wu, Jörn Wuebker, Tong Xiao, Xinyan Xiao, Yanghua Xiao, Pengtao Xie, Deyi Xiong, Wenhan Xiong, Kun Xu, Ruifeng Xu, Tong Xu, Wei Xu, Wenduan Xu, Yadollah Yaghoobzadeh, Takehiro Yamamoto, Rui Yan, Baosong Yang, Bishan Yang, Diyi Yang, Liu Yang, Weiwei Yang, Yaqin Yang, Yi Yang, Yiben Yang, Zhilin Yang, Zichao Yang, Helen Yannakoudakis, Tae Yano, Jin-ge Yao, Wenlin Yao, Ziyu Yao, Mark Yatskar, Lana Yeganova, Wen-wai Yim, Seid Muhie Yimam, Pengcheng Yin, Qingyu Yin, Wenpeng Yin, Dani Yogatama, Naoki Yoshinaga, Masaharu Yoshioka, Dian Yu, Jianfei Yu, Kai Yu, Liang-Chih Yu, Mo Yu, Ning Yu, François Yvon, Roberto Zamparelli, Marcos Zampieri, Fabio Massimo Zanzotto, Rowan Zellers, Daojian Zeng, Jichuan Zeng, Xingshan Zeng, Chrysoula Zerva, Luke Zettlemoyer, Deniz Zeyrek, Ke Zhai, Biao Zhang, Congle Zhang, Dongdong Zhang, Hao Zhang, Jiajun Zhang, Jingyi Zhang, Lei Zhang, Meishan Zhang, Min Zhang, Min Zhang, Qi Zhang, Sheng Zhang, Wei-Nan Zhang, Xingxing Zhang, Yongfeng Zhang, Yuan Zhang, Yuchen Zhang, Yue Zhang, Yuhao Zhang, Bing Zhao, Dongyan Zhao, Hai Zhao, Jun Zhao, Kai Zhao, Lin Zhao, Sendong Zhao, Tiancheng

Zhao, Wayne Xin Zhao, Alisa Zhila, Victor Zhong, Guodong Zhou, Hao Zhou, Junsheng Zhou, Ming Zhou, Hao Zhu, Lixing Zhu, Muhua Zhu, Qi Zhu, Xiaodan Zhu, Yukun Zhu, Ayah Zirikly, Yftah Ziser, Michael Zock, Chengqing Zong.

Invited Speaker: Johan Bos, University of Groningen

The Moment of Meaning and the Future of Computational Semantics

Abstract: There are many recent advances in semantic parsing: we see a rising number of semantically annotated corpora and there is exciting technology (such as neural networks) to be explored. In this talk I will discuss what role computational semantics could play in future natural language processing applications (including fact checking and machine translation). I will argue that we should not just look at semantic parsing, but that things can get really interesting when we can use language-neutral meaning representations to draw (transparent) inferences. The main ideas will be exemplified by the parallel meaning bank, a new corpus comprising texts annotated with formal meaning representations for English, Dutch, German and Italian.

Bio: Johan Bos is Professor of Computational Semantics at the University of Groningen (Netherlands). He received his doctorate from the Computational Linguistics Department at the University of the Saarland (Germany) and held post-doc positions at the University of Edinburgh (UK) and the La Sapienza University in Rome (Italy). In 2010, he moved to his current position in Groningen, leading the computational semantics group. Bos is the developer of Boxer, a state-of-the-art wide-coverage semantic parser for English, initiator of the Groningen Meaning Bank, a large semantically-annotated corpus of texts, and inventor of Wordrobe, a game with a purpose for semantic annotation. Bos received a \$1.5-million Vici grant from NWO (Netherlands Organisation for Scientific Research) in 2015 to investigate the role of meaning in human and machine translation. A concrete outcome of this project is the Parallel Meaning Bank containing detailed meaning representations for English, German, Dutch and Italian sentences.

Invited Speaker: Julia Hirschberg, Columbia University

Truth or Lie? Spoken Indicators of Deception in Speech

Abstract: Detecting deception from various forms of human behavior is a longstanding research goal which is of considerable interest to the military, law enforcement, corporate security, social services and mental health workers. However, both humans and polygraphs are very poor at this task. We describe more accurate methods we have developed to detect deception automatically from spoken language. Our classifiers are trained on the largest cleanly recorded corpus of within-subject deceptive and non-deceptive speech that has been collected. To distinguish truth from lie we make use of acoustic-prosodic, lexical, demographic, and personality features. We further examine differences in deceptive behavior based upon gender, personality, and native language (Mandarin Chinese vs. English), comparing our systems to human performance. We extend our studies to identify cues in trusted speech vs. mistrusted speech and how these features differ by speaker and by listener. Why does a listener believe a lie?

Bio: Julia Hirschberg is Percy K. and Vida L. W. Hudson Professor and Chair of Computer Science at Columbia University. She previously worked at Bell Laboratories and AT&T Labs where she created the HCI Research Department. She has been editor of *Computational Linguistics* and *Speech Communication*, is a fellow of AAAI, ISCA, ACL, ACM, and IEEE, and a member of the National Academy of Engineering. She received the IEEE James L. Flanagan Speech and Audio Processing Award and the ISCA Medal for Scientific Achievement. She currently serves on the IEEE Speech and Language Processing Technical Committee, is co-chair of the CRA-W Board, and has worked for diversity for many years at AT&T and Columbia. She works on spoken language processing and NLP, studying text-to-speech synthesis, spoken dialogue systems, entrainment in conversation, detection of deceptive and emotional speech, hedging behavior, and linguistic code-switching (language mixing).

Invited Speaker: Gideon Mann, Bloomberg L.P.

Understanding the News that Moves Markets

Abstract: Since the dawn of human civilization, finance and language technology have been connected. However, only recently have advances in statistical language understanding, and an ever-increasing thirst for market advantage, led to the widespread application of natural language technology across the global capital markets. This talk will review the ways in which language technology is enabling market participants to quickly understand and respond to major world events and breaking business news. It will outline the state of the art in applications of NLP to finance and highlight open problems that are being addressed by emerging research.

Bio: Gideon Mann is the Head of Data Science at Bloomberg L.P., where he guides the strategic direction for machine learning, natural language processing (NLP) and search across the company. He is part of the leadership team for the Office of the CTO. He served as a founding member of both the Data for Good Exchange (D4GX), an annual conference on data science applications for social good, and the Shift Commission on Work, Workers and Technology. He has also been active in academic research in fact extraction, weakly-supervised learning, and distributed optimization. Recently, he has also been interested in applications of machine learning to problems in software engineering. From 2007 to 2014, he worked at Google Research in New York City, and his team built core machine learning libraries, released the Google Prediction API, and developed Colaboratory. Mann graduated Brown University in 1999 and received a Ph.D. from The Johns Hopkins University in 2006.

Table of Contents

<i>Privacy-preserving Neural Representations of Text</i>	
Maximin Coavoux, Shashi Narayan and Shay B. Cohen	1
<i>Adversarial Removal of Demographic Attributes from Text Data</i>	
Yanai Elazar and Yoav Goldberg	11
<i>DeClarE: Debunking Fake News and False Claims using Evidence-Aware Deep Learning</i>	
Kashyap Popat, Subhabrata Mukherjee, Andrew Yates and Gerhard Weikum	22
<i>It's going to be okay: Measuring Access to Support in Online Communities</i>	
Zijian Wang and David Jurgens	33
<i>Detecting Gang-Involved Escalation on Social Media Using Context</i>	
Serina Chang, Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond Patton, William Frey, Chris Kedzie and Kathy McKeown	46
<i>Reasoning about Actions and State Changes by Injecting Commonsense Knowledge</i>	
Niket Tandon, Bhavana Dalvi, Joel Grus, Wen-tau Yih, Antoine Bosselut and Peter Clark	57
<i>Collecting Diverse Natural Language Inference Problems for Sentence Representation Evaluation</i>	
Adam Poliak, Aparajita Haldar, Rachel Rudinger, J. Edward Hu, Ellie Pavlick, Aaron Steven White and Benjamin Van Durme	67
<i>Textual Analogy Parsing: What's Shared and What's Compared among Analogous Facts</i>	
Matthew Lamm, Arun Chaganty, Christopher D. Manning, Dan Jurafsky and Percy Liang	82
<i>SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference</i>	
Rowan Zellers, Yonatan Bisk, Roy Schwartz and Yejin Choi	93
<i>TwoWingOS: A Two-Wing Optimization Strategy for Evidential Claim Verification</i>	
Wenpeng Yin and Dan Roth	105
<i>Associative Multichannel Autoencoder for Multimodal Word Representation</i>	
Shaonan Wang, Jiajun Zhang and Chengqing Zong	115
<i>Game-Based Video-Context Dialogue</i>	
Ramakanth Pasunuru and Mohit Bansal	125
<i>simNet: Stepwise Image-Topic Merging Network for Generating Detailed and Comprehensive Image Captions</i>	
Fenglin Liu, Xuancheng Ren, Yuanxin Liu, Houfeng Wang and Xu Sun	137
<i>Multimodal Language Analysis with Recurrent Multistage Fusion</i>	
Paul Pu Liang, Ziyin Liu, AmirAli Bagher Zadeh and Louis-Philippe Morency	150
<i>Temporally Grounding Natural Sentence in Video</i>	
Jingyuan Chen, Xinpeng Chen, Lin Ma, Zequn Jie and Tat-Seng Chua	162
<i>PreCo: A Large-scale Dataset in Preschool Vocabulary for Coreference Resolution</i>	
Hong Chen, Zhenhua Fan, Hao Lu, Alan Yuille and Shu Rong	172
<i>Adversarial Transfer Learning for Chinese Named Entity Recognition with Self-Attention Mechanism</i>	
Pengfei Cao, Yubo Chen, Kang Liu, Jun Zhao and Shengping Liu	182

<i>Using Linguistic Features to Improve the Generalization Capability of Neural Coreference Resolvers</i> Nafise Sadat Moosavi and Michael Strube	193
<i>Neural Segmental Hypergraphs for Overlapping Mention Recognition</i> Bailin Wang and Wei Lu	204
<i>Variational Sequential Labelers for Semi-Supervised Learning</i> Mingda Chen, Qingming Tang, Karen Livescu and Kevin Gimpel	215
<i>Joint Representation Learning of Cross-lingual Words and Entities via Attentive Distant Supervision</i> Yixin Cao, Lei Hou, Juanzi Li, Zhiyuan Liu, Chengjiang Li, Xu Chen and Tiansi Dong	227
<i>Deep Pivot-Based Modeling for Cross-language Cross-domain Transfer with Minimal Guidance</i> Yftah Ziser and Roi Reichart	238
<i>Multi-lingual Common Semantic Space Construction via Cluster-consistent Word Embedding</i> Lifu Huang, Kyunghyun Cho, Boliang Zhang, Heng Ji and Kevin Knight	250
<i>Unsupervised Multilingual Word Embeddings</i> Xilun Chen and Claire Cardie	261
<i>CLUSE: Cross-Lingual Unsupervised Sense Embeddings</i> Ta Chung Chi and Yun-Nung Chen	271
<i>Adversarial Propagation and Zero-Shot Cross-Lingual Transfer of Word Vector Specialization</i> Edoardo Maria Ponti, Ivan Vulić, Goran Glavaš, Nikola Mrkšić and Anna Korhonen	282
<i>Improving Cross-Lingual Word Embeddings by Meeting in the Middle</i> Yerai Doval, Jose Camacho-Collados, Luis Espinosa Anke and Steven Schockaert	294
<i>WikiAtomicEdits: A Multilingual Corpus of Wikipedia Edits for Modeling Language and Discourse</i> Manaal Faruqui, Ellie Pavlick, Ian Tenney and Dipanjan Das	305
<i>On the Relation between Linguistic Typology and (Limitations of) Multilingual Language Modeling</i> Daniela Gerz, Ivan Vulić, Edoardo Maria Ponti, Roi Reichart and Anna Korhonen	316
<i>A Fast, Compact, Accurate Model for Language Identification of Codemixed Text</i> Yuan Zhang, Jason Riesa, Daniel Gillick, Anton Bakalov, Jason Baldridge and David Weiss	328
<i>Personalized Microblog Sentiment Classification via Adversarial Cross-lingual Multi-task Learning</i> Weichao Wang, Shi Feng, Wei Gao, Daling Wang and Yifei Zhang	338
<i>Cross-lingual Knowledge Graph Alignment via Graph Convolutional Networks</i> Zhichun Wang, Qingsong Lv, Xiaohan Lan and Yu Zhang	349
<i>Cross-lingual Lexical Sememe Prediction</i> Fanchao Qi, Yankai Lin, Maosong Sun, Hao Zhu, Ruobing Xie and Zhiyuan Liu	358
<i>Neural Cross-Lingual Named Entity Recognition with Minimal Resources</i> Jiateng Xie, Zhilin Yang, Graham Neubig, Noah A. Smith and Jaime Carbonell	369
<i>A Stable and Effective Learning Strategy for Trainable Greedy Decoding</i> Yun Chen, Victor O.K. Li, Kyunghyun Cho and Samuel Bowman	380
<i>Addressing Troublesome Words in Neural Machine Translation</i> Yang Zhao, Jiajun Zhang, Zhongjun He, Chengqing Zong and Hua Wu	391

<i>Top-down Tree Structured Decoding with Syntactic Connections for Neural Machine Translation and Parsing</i>	
Jetiç Gū, Hassan S. Shavarani and Anoop Sarkar	401
<i>XL-NBT: A Cross-lingual Neural Belief Tracking Framework</i>	
Wenhu Chen, Jianshu Chen, Yu Su, Xin Wang, Dong Yu, Xifeng Yan and William Yang Wang	414
<i>Contextual Parameter Generation for Universal Neural Machine Translation</i>	
Emmanouil Antonios Platanios, Mrinmaya Sachan, Graham Neubig and Tom Mitchell	425
<i>Back-Translation Sampling by Targeting Difficult Words in Neural Machine Translation</i>	
Marzieh Fadaee and Christof Monz	436
<i>Multi-Domain Neural Machine Translation with Word-Level Domain Context Discrimination</i>	
Jiali Zeng, Jinsong Su, Huating Wen, Yang Liu, Jun Xie, Yongjing Yin and Jianqiang Zhao . . .	447
<i>A Discriminative Latent-Variable Model for Bilingual Lexicon Induction</i>	
Sebastian Ruder, Ryan Cotterell, Yova Kementchedjieva and Anders Søgaard	458
<i>Non-Adversarial Unsupervised Word Translation</i>	
Yedid Hoshen and Lior Wolf	469
<i>Semi-Autoregressive Neural Machine Translation</i>	
Chunqi Wang, Ji Zhang and Haiqing Chen	479
<i>Understanding Back-Translation at Scale</i>	
Sergey Edunov, Myle Ott, Michael Auli and David Grangier	489
<i>Bootstrapping Transliteration with Constrained Discovery for Low-Resource Languages</i>	
Shyam Upadhyay, Jordan Kodner and Dan Roth	501
<i>NORMA: Neighborhood Sensitive Maps for Multilingual Word Embeddings</i>	
Ndapa Nakashole	512
<i>Adaptive Multi-pass Decoder for Neural Machine Translation</i>	
Xinwei Geng, Xiaocheng Feng, Bing Qin and Ting Liu	523
<i>Improving the Transformer Translation Model with Document-Level Context</i>	
Jiacheng Zhang, Huanbo Luan, Maosong Sun, Feifei Zhai, Jingfang Xu, Min Zhang and Yang Liu	533
<i>MTNT: A Testbed for Machine Translation of Noisy Text</i>	
Paul Michel and Graham Neubig	543
<i>SimpleQuestions Nearly Solved: A New Upperbound and Baseline Approach</i>	
Michael Petrochuk and Luke Zettlemoyer	554
<i>Phrase-Indexed Question Answering: A New Challenge for Scalable Document Comprehension</i>	
Minjoon Seo, Tom Kwiatkowski, Ankur Parikh, Ali Farhadi and Hannaneh Hajishirzi	559
<i>Ranking Paragraphs for Improving Answer Recall in Open-Domain Question Answering</i>	
Jinhyuk Lee, Seongjun Yun, Hyunjae Kim, Miyoung Ko and Jaewoo Kang	565
<i>Cut to the Chase: A Context Zoom-in Network for Reading Comprehension</i>	
Sathish Reddy Indurthi, Seunghak Yu, Seohyun Back and Heriberto Cuayahuitl	570

<i>Adaptive Document Retrieval for Deep Question Answering</i>	
Bernhard Kratzwald and Stefan Feuerriegel	576
<i>Why is unsupervised alignment of English embeddings from different algorithms so hard?</i>	
Mareike Hartmann, Yova Kementchedjhiya and Anders Søgaard	582
<i>Quantifying Context Overlap for Training Word Embeddings</i>	
Yimeng Zhuang, Jinghui Xie, Yinhe Zheng and Xuan Zhu	587
<i>Neural Latent Relational Analysis to Capture Lexical Semantic Relations in a Vector Space</i>	
Koki Washio and Tsuneaki Kato	594
<i>Generalizing Word Embeddings using Bag of Subwords</i>	
Jinman Zhao, Sidharth Mudgal and Yingyu Liang	601
<i>Neural Metaphor Detection in Context</i>	
Ge Gao, Eunsol Choi, Yejin Choi and Luke Zettlemoyer	607
<i>Distant Supervision from Disparate Sources for Low-Resource Part-of-Speech Tagging</i>	
Barbara Plank and Željko Agić	614
<i>Unsupervised Bilingual Lexicon Induction via Latent Variable Models</i>	
Zi-Yi Dou, Zhi-Hao Zhou and Shujian Huang	621
<i>Learning Unsupervised Word Translations Without Adversaries</i>	
Tanmoy Mukherjee, Makoto Yamada and Timothy Hospedales	627
<i>Adversarial Training for Multi-task and Multi-lingual Joint Modeling of Utterance Intent Classification</i>	
Ryo Masumura, Yusuke Shinohara, Ryuichiro Higashinaka and Yushi Aono	633
<i>Surprisingly Easy Hard-Attention for Sequence to Sequence Learning</i>	
Shiv Shankar, Siddhant Garg and Sunita Sarawagi	640
<i>Joint Learning for Emotion Classification and Emotion Cause Detection</i>	
Ying Chen, Wenjun Hou, Xiyao Cheng and Shoushan Li	646
<i>Exploring Optimism and Pessimism in Twitter Using Deep Learning</i>	
Cornelia Caragea, Liviu P. Dinu and Bogdan Dumitru	652
<i>Predicting News Headline Popularity with Syntactic and Semantic Knowledge Using Multi-Task Learning</i>	
Sotiris Lamprinidis, Daniel Hardt and Dirk Hovy	659
<i>Hybrid Neural Attention for Agreement/Disagreement Inference in Online Debates</i>	
Di Chen, Jiachen Du, Lidong Bing and Ruifeng Xu	665
<i>Increasing In-Class Similarity by Retrofitting Embeddings with Demographic Information</i>	
Dirk Hovy and Tommaso Fornaciari	671
<i>A Syntactically Constrained Bidirectional-Asynchronous Approach for Emotional Conversation Generation</i>	
Jingyuan Li and Xiao Sun	678
<i>Auto-Dialabel: Labeling Dialogue Data with Unsupervised Learning</i>	
Chen Shi, Qi Chen, Lei Sha, Sujian Li, Xu Sun, Houfeng Wang and Lintao Zhang	684

<i>Extending Neural Generative Conversational Model using External Knowledge Sources</i>	
Prasanna Parthasarathi and Joelle Pineau	690
<i>Modeling Temporality of Human Intentions by Domain Adaptation</i>	
Xiaolei Huang, Lixing Liu, Kate Carey, Joshua Woolley, Stefan Scherer and Brian Borsari	696
<i>An Auto-Encoder Matching Model for Learning Utterance-Level Semantic Dependency in Dialogue Generation</i>	
Liangchen Luo, Jingjing Xu, Junyang Lin, Qi Zeng and Xu Sun	702
<i>A Dataset for Document Grounded Conversations</i>	
Kangyan Zhou, Shrimai Prabhumoye and Alan W Black	708
<i>Out-of-domain Detection based on Generative Adversarial Network</i>	
Seonghan Ryu, Sangjun Koo, Hwanjo Yu and Gary Geunbae Lee	714
<i>Listening Comprehension over Argumentative Content</i>	
Shachar Mirkin, Guy Moshkovich, Matan Orbach, Lili Kotlerman, Yoav Kantor, Tamar Lavee, Michal Jacovi, Yonatan Bilu, Ranit Aharonov and Noam Slonim	719
<i>Using active learning to expand training data for implicit discourse relation recognition</i>	
Yang Xu, Yu Hong, Huibin Ruan, Jianmin Yao, Min Zhang and Guodong Zhou	725
<i>Learning To Split and Rephrase From Wikipedia Edit History</i>	
Jan A. Botha, Manaal Faruqui, John Alex, Jason Baldridge and Dipanjan Das	732
<i>BLEU is Not Suitable for the Evaluation of Text Simplification</i>	
Elior Sulem, Omri Abend and Ari Rappoport	738
<i>S2SPMN: A Simple and Effective Framework for Response Generation with Relevant Information</i>	
Jiaxin Pei and Chenliang Li	745
<i>Improving Reinforcement Learning Based Image Captioning with Natural Language Prior</i>	
Tszhang Guo, Shiyu Chang, Mo Yu and Kun Bai	751
<i>Training for Diversity in Image Paragraph Captioning</i>	
Luke Melas-Kyriazi, Alexander Rush and George Han	757
<i>A Graph-theoretic Summary Evaluation for ROUGE</i>	
Elaheh ShafieiBavani, Mohammad Ebrahimi, Raymond Wong and Fang Chen	762
<i>Guided Neural Language Generation for Abstractive Summarization using Abstract Meaning Representation</i>	
Hardy Hardy and Andreas Vlachos	768
<i>Evaluating Multiple System Summary Lengths: A Case Study</i>	
Ori Shapira, David Gabay, Hadar Ronen, Judit Bar-Ilan, Yael Amsterdamer, Ani Nenkova and Ido Dagan	774
<i>Neural Latent Extractive Document Summarization</i>	
Xingxing Zhang, Mirella Lapata, Furu Wei and Ming Zhou	779
<i>On the Abtractiveness of Neural Document Summarization</i>	
Fangfang Zhang, Jin-ge Yao and Rui Yan	785

<i>Automatic Essay Scoring Incorporating Rating Schema via Reinforcement Learning</i> Yucheng Wang, Zhongyu Wei, Yaqian Zhou and Xuanjing Huang	791
<i>Identifying Well-formed Natural Language Questions</i> Manaal Faruqui and Dipanjan Das	798
<i>Self-Governing Neural Networks for On-Device Short Text Classification</i> Sujith Ravi and Zornitsa Kozareva	804
<i>HFT-CNN: Learning Hierarchical Category Structure for Multi-label Short Text Categorization</i> Kazuya Shimura, Jiye Li and Fumiyo Fukumoto	811
<i>A Hierarchical Neural Attention-based Text Classifier</i> Koustuv Sinha, Yue Dong, Jackie Chi Kit Cheung and Derek Ruths	817
<i>Labeled Anchors and a Scalable, Transparent, and Interactive Classifier</i> Jeffrey Lund, Stephen Cowley, Wilson Fearn, Emily Hales and Kevin Seppi	824
<i>Coherence-Aware Neural Topic Modeling</i> Ran Ding, Ramesh Nallapati and Bing Xiang	830
<i>Utilizing Character and Word Embeddings for Text Normalization with Sequence-to-Sequence Models</i> Daniel Watson, Nasser Zalmout and Nizar Habash	837
<i>Topic Intrusion for Automatic Topic Model Evaluation</i> Shraey Bhatia, Jey Han Lau and Timothy Baldwin	844
<i>Supervised and Unsupervised Methods for Robust Separation of Section Titles and Prose Text in Web Documents</i> Abhijith Athreya Mysore Gopinath, Shomir Wilson and Norman Sadeh	850
<i>SwitchOut: an Efficient Data Augmentation Algorithm for Neural Machine Translation</i> Xinyi Wang, Hieu Pham, Zihang Dai and Graham Neubig	856
<i>Improving Unsupervised Word-by-Word Translation with Language Model and Denoising Autoencoder</i> Yunsu Kim, Jiahui Geng and Hermann Ney	862
<i>Decipherment of Substitution Ciphers with Neural Language Models</i> Nishant Kambhatla, Anahita Mansouri Bigvand and Anoop Sarkar	869
<i>Rapid Adaptation of Neural Machine Translation to New Languages</i> Graham Neubig and Junjie Hu	875
<i>Compact Personalized Models for Neural Machine Translation</i> Joern Wuebker, Patrick Simianer and John DeNero	881
<i>Self-Governing Neural Networks for On-Device Short Text Classification</i> Sujith Ravi and Zornitsa Kozareva	887
<i>Supervised Domain Enablement Attention for Personalized Domain Classification</i> Joo-Kyung Kim and Young-Bum Kim	894
<i>A Deep Neural Network Sentence Level Classification Method with Context Information</i> Xingyi Song, Johann Petrak and Angus Roberts	900

<i>Towards Dynamic Computation Graphs via Sparse Latent Structure</i>	
Vlad Niculae, André F. T. Martins and Claire Cardie	905
<i>Convolutional Neural Networks with Recurrent Neural Filters</i>	
Yi Yang	912
<i>Exploiting Rich Syntactic Information for Semantic Parsing with Graph-to-Sequence Model</i>	
Kun Xu, Lingfei Wu, Zhiguo Wang, Mo Yu, Liwei Chen and Vadim Sheinin	918
<i>Retrieval-Based Neural Code Generation</i>	
Shirley Anugrah Hayati, Raphael Olivier, Pravalika Avvaru, Pengcheng Yin, Anthony Tomasic and Graham Neubig	925
<i>SQL-to-Text Generation with Graph-to-Sequence Model</i>	
Kun Xu, Lingfei Wu, Zhiguo Wang, Yansong Feng and Vadim Sheinin	931
<i>Generating Syntactic Paraphrases</i>	
Emilie Colin and Claire Gardent	937
<i>Neural-Davidsonian Semantic Proto-role Labeling</i>	
Rachel Rudinger, Adam Teichert, Ryan Culkin, Sheng Zhang and Benjamin Van Durme	944
<i>Conversational Decision-Making Model for Predicting the King's Decision in the Annals of the Joseon Dynasty</i>	
JinYeong Bak and Alice Oh	956
<i>Toward Fast and Accurate Neural Discourse Segmentation</i>	
Yizhong Wang, Sujian Li and Jingfeng Yang	962
<i>A Dataset for Telling the Stories of Social Media Videos</i>	
Spandana Gella, Mike Lewis and Marcus Rohrbach	968
<i>Cascaded Mutual Modulation for Visual Reasoning</i>	
Yiqun Yao, Jiaming Xu, Feng Wang and Bo Xu	975
<i>How agents see things: On visual representations in an emergent language game</i>	
Diane Bouchacourt and Marco Baroni	981
<i>Attention-Based Capsule Networks with Dynamic Routing for Relation Extraction</i>	
Ningyu Zhang, Shumin Deng, Zhanling Sun, Xi Chen, Wei Zhang and Huajun Chen	986
<i>Put It Back: Entity Typing with Language Model Enhancement</i>	
Ji Xin, Hao Zhu, Xu Han, Zhiyuan Liu and Maosong Sun	993
<i>Event Detection with Neural Networks: A Rigorous Empirical Evaluation</i>	
Walker Orr, Prasad Tadepalli and Xiaoli Fern	999
<i>PubSE: A Hierarchical Model for Publication Extraction from Academic Homepages</i>	
Yiqing Zhang, Jianzhong Qi, Rui Zhang and Chuandong Yin	1005
<i>A Neural Transition-based Model for Nested Mention Recognition</i>	
Bailin Wang, Wei Lu, Yu Wang and Hongxia Jin	1011
<i>Genre Separation Network with Adversarial Training for Cross-genre Relation Extraction</i>	
Ge Shi, Chong Feng, Lifu Huang, Boliang Zhang, Heng Ji, Lejian Liao and Heyan Huang ...	1018

<i>Effective Use of Context in Noisy Entity Linking</i>	
David Mueller and Greg Durrett	1024
<i>Exploiting Contextual Information via Dynamic Memory Network for Event Detection</i>	
Shaobo Liu, Rui Cheng, Xiaoming Yu and Xueqi Cheng	1030
<i>Do explanations make VQA models more predictable to a human?</i>	
Arjun Chandrasekaran, Viraj Prabhu, Deshraj Yadav, Prithvijit Chattopadhyay and Devi Parikh	1036
<i>Facts That Matter</i>	
Marco Ponza, Luciano Del Corro and Gerhard Weikum	1043
<i>Entity Tracking Improves Cloze-style Reading Comprehension</i>	
Luong Hoang, Sam Wiseman and Alexander Rush	1049
<i>Adversarial Domain Adaptation for Duplicate Question Detection</i>	
Darsh Shah, Tao Lei, Alessandro Moschitti, Salvatore Romeo and Preslav Nakov	1056
<i>Translating a Math Word Problem to a Expression Tree</i>	
Lei Wang, Yan Wang, Deng Cai, Dongxiang Zhang and Xiaojiang Liu	1064
<i>Semantic Linking in Convolutional Neural Networks for Answer Sentence Selection</i>	
Massimo Nicosia and Alessandro Moschitti	1070
<i>A dataset and baselines for sequential open-domain question answering</i>	
Ahmed Elgohary, Chen Zhao and Jordan Boyd-Graber	1077
<i>Improving the results of string kernels in sentiment analysis and Arabic dialect identification by adapting them to your test set</i>	
Radu Tudor Ionescu and Andrei M. Butnaru	1084
<i>Parameterized Convolutional Neural Networks for Aspect Level Sentiment Classification</i>	
Binxuan Huang and Kathleen Carley	1091
<i>Improving Multi-label Emotion Classification via Sentiment Classification with Dual Attention Transfer Network</i>	
Jianfei Yu, Luis Marujo, Jing Jiang, Pradeep Karuturi and William Brendel	1097
<i>Learning Sentiment Memories for Sentiment Modification without Parallel Data</i>	
Yi Zhang, Jingjing Xu, Pengcheng Yang and Xu Sun	1103
<i>Joint Aspect and Polarity Classification for Aspect-based Sentiment Analysis with End-to-End Neural Networks</i>	
Martin Schmitt, Simon Steinheber, Konrad Schreiber and Benjamin Roth	1109
<i>Representing Social Media Users for Sarcasm Detection</i>	
Y. Alex Kolchinski and Christopher Potts	1115
<i>Syntactical Analysis of the Weaknesses of Sentiment Analyzers</i>	
Rohil Verma, Samuel Kim and David Walter	1122
<i>Is Nike female? Exploring the role of sound symbolism in predicting brand name gender</i>	
Sridhar Moorthy, Ruth Pogacar, Samin Khan and Yang Xu	1128
<i>Improving Large-Scale Fact-Checking using Decomposable Attention Models and Lexical Tagging</i>	
Nayeon Lee, Chien-Sheng Wu and Pascale Fung	1133

<i>Harnessing Popularity in Social Media for Extractive Summarization of Online Conversations</i>	
Ryuji Kano, Yasuhide Miura, Motoki Taniguchi, Yan-Ying Chen, Francine Chen and Tomoko Ohkuma	1139
<i>Identifying Locus of Control in Social Media Language</i>	
Masoud Rouhizadeh, Kokil Jaidka, Laura Smith, H. Andrew Schwartz, Anneke Buffone and Lyle Ungar	1146
<i>Somm: Into the Model</i>	
Shengli Hu	1153
<i>Fine-Grained Emotion Detection in Health-Related Online Posts</i>	
Hamed Khanpour and Cornelia Caragea	1160
<i>The Remarkable Benefit of User-Level Aggregation for Lexical-based Population-Level Predictions</i>	
Salvatore Giorgi, Daniel Preotjuc-Pietro, Anneke Buffone, Daniel Rieman, Lyle Ungar and H. Andrew Schwartz	1167
<i>Deterministic Non-Autoregressive Neural Sequence Modeling by Iterative Refinement</i>	
Jason Lee, Elman Mansimov and Kyunghyun Cho	1173
<i>Large Margin Neural Language Model</i>	
Jiaji Huang, Yi Li, Wei Ping and Liang Huang	1183
<i>Targeted Syntactic Evaluation of Language Models</i>	
Rebecca Marvin and Tal Linzen	1192
<i>Rational Recurrences</i>	
Hao Peng, Roy Schwartz, Sam Thomson and Noah A. Smith	1203
<i>Efficient Contextualized Representation: Language Model Pruning for Sequence Labeling</i>	
Liyuan Liu, Xiang Ren, Jingbo Shang, Xiaotao Gu, Jian Peng and Jiawei Han	1215
<i>Automatic Event Salience Identification</i>	
Zhengzhong Liu, Chenyan Xiong, Teruko Mitamura and Eduard Hovy	1226
<i>Temporal Information Extraction by Predicting Relative Time-lines</i>	
Artuur Leeuwenberg and Marie-Francine Moens	1237
<i>Jointly Multiple Events Extraction via Attention-based Graph Information Aggregation</i>	
Xiao Liu, Zhunchen Luo and Heyan Huang	1247
<i>RESIDE: Improving Distantly-Supervised Neural Relation Extraction using Side Information</i>	
Shikhar Vashishth, Rishabh Joshi, Sai Suman Prayaga, Chiranjib Bhattacharyya and Partha Talukdar	1257
<i>Collective Event Detection via a Hierarchical and Bias Tagging Networks with Gated Multi-level Attention Mechanisms</i>	
Yubo Chen, Hang Yang, Kang Liu, Jun Zhao and Yantao Jia	1267
<i>Valency-Augmented Dependency Parsing</i>	
Tianze Shi and Lillian Lee	1277
<i>Unsupervised Learning of Syntactic Structure with Invertible Neural Projections</i>	
Junxian He, Graham Neubig and Taylor Berg-Kirkpatrick	1292

<i>Dynamic Oracles for Top-Down and In-Order Shift-Reduce Constituent Parsing</i>	
Daniel Fernández-González and Carlos Gómez-Rodríguez	1303
<i>Constituent Parsing as Sequence Labeling</i>	
Carlos Gómez-Rodríguez and David Vilares	1314
<i>Synthetic Data Made to Order: The Case of Parsing</i>	
Dingquan Wang and Jason Eisner	1325
<i>Tell-and-Answer: Towards Explainable Visual Question Answering using Attributes and Captions</i>	
Qing Li, Jianlong Fu, Dongfei Yu, Tao Mei and Jiebo Luo	1338
<i>Learning a Policy for Opportunistic Active Learning</i>	
Aishwarya Padmakumar, Peter Stone and Raymond Mooney	1347
<i>RecipeQA: A Challenge Dataset for Multimodal Comprehension of Cooking Recipes</i>	
Semih Yagcioglu, Aykut Erdem, Erkut Erdem and Nazli Ikizler-Cinbis	1358
<i>TVQA: Localized, Compositional Video Question Answering</i>	
Jie Lei, Licheng Yu, Mohit Bansal and Tamara Berg	1369
<i>Localizing Moments in Video with Temporal Language</i>	
Lisa Anne Hendricks, Oliver Wang, Eli Shechtman, Josef Sivic, Trevor Darrell and Bryan Russell	1380
<i>Card-660: Cambridge Rare Word Dataset - A Reliable Evaluation Framework for Rare Word Representation Models</i>	
Mohammad Taher Pilehvar, Dimitri Kartsaklis, Victor Prokhorov and Nigel Collier	1391
<i>Leveraging Gloss Knowledge in Neural Word Sense Disambiguation by Hierarchical Co-Attention</i>	
Fuli Luo, Tianyu Liu, Zexue He, Qiaolin Xia, Zhifang Sui and Baobao Chang	1402
<i>Weeding out Conventionalized Metaphors: A Corpus of Novel Metaphor Annotations</i>	
Erik-Lân Do Dinh, Hannah Wieland and Iryna Gurevych	1412
<i>Streaming word similarity mining on the cheap</i>	
Olof Görnerup and Daniel Gillblad	1425
<i>Memory, Show the Way: Memory Based Few Shot Word Representation Learning</i>	
Jingyuan Sun, Shaonan Wang and Chengqing Zong	1435
<i>Disambiguated skip-gram model</i>	
Karol Grzegorzcyk and Marcin Kurdziel	1445
<i>Picking Apart Story Salads</i>	
Su Wang, Eric Holgate, Greg Durrett and Katrin Erk	1455
<i>Dynamic Meta-Embeddings for Improved Sentence Representations</i>	
Douwe Kiela, Changhan Wang and Kyunghyun Cho	1466
<i>A Probabilistic Model for Joint Learning of Word Embeddings from Texts and Images</i>	
Melissa Ailem, Bowen Zhang, Aurélien Bellet, Pascal Denis and Fei Sha	1478
<i>Transfer and Multi-Task Learning for Noun–Noun Compound Interpretation</i>	
Murhaf Fares, Stephan Oepen and Erik Velldal	1488

<i>Dissecting Contextual Word Embeddings: Architecture and Representation</i>	
Matthew Peters, Mark Neumann, Luke Zettlemoyer and Wen-tau Yih	1499
<i>Preposition Sense Disambiguation and Representation</i>	
Hongyu Gong, Jiaqi Mu, Suma Bhat and Pramod Viswanath	1510
<i>Auto-Encoding Dictionary Definitions into Consistent Word Embeddings</i>	
Tom Bosc and Pascal Vincent	1522
<i>Spot the Odd Man Out: Exploring the Associative Power of Lexical Resources</i>	
Gabriel Stanovsky and Mark Hopkins	1533
<i>Neural Multitask Learning for Simile Recognition</i>	
Lizhen Liu, Xiao Hu, Wei Song, Ruiji Fu, Ting Liu and Guoping Hu	1543
<i>Structured Alignment Networks for Matching Sentences</i>	
Yang Liu, Matt Gardner and Mirella Lapata	1554
<i>Compare, Compress and Propagate: Enhancing Neural Architectures with Alignment Factorization for Natural Language Inference</i>	
Yi Tay, Anh Tuan Luu and Siu Cheung Hui	1565
<i>Convolutional Interaction Network for Natural Language Inference</i>	
Jingjing Gong, Xipeng Qiu, Xinchu Chen, Dong Liang and Xuanjing Huang	1576
<i>Lessons from Natural Language Inference in the Clinical Domain</i>	
Alexey Romanov and Chaitanya Shivade	1586
<i>Question Generation from SQL Queries Improves Neural Semantic Parsing</i>	
Daya Guo, Yibo Sun, Duyu Tang, Nan Duan, Jian Yin, Hong Chi, James Cao, Peng Chen and Ming Zhou	1597
<i>SemRegex: A Semantics-Based Approach for Generating Regular Expressions from Natural Language Specifications</i>	
Zexuan Zhong, Jiaqi Guo, Wei Yang, Jian Peng, Tao Xie, Jian-Guang Lou, Ting Liu and Dongmei Zhang	1608
<i>Decoupling Structure and Lexicon for Zero-Shot Semantic Parsing</i>	
Jonathan Herzig and Jonathan Berant	1619
<i>A Span Selection Model for Semantic Role Labeling</i>	
Hiroki Ouchi, Hiroyuki Shindo and Yuji Matsumoto	1630
<i>Mapping Language to Code in Programmatic Context</i>	
Srinivasan Iyer, Ioannis Konstas, Alvin Cheung and Luke Zettlemoyer	1643
<i>SyntaxSQLNet: Syntax Tree Networks for Complex and Cross-Domain Text-to-SQL Task</i>	
Tao Yu, Michihiro Yasunaga, Kai Yang, Rui Zhang, Dongxu Wang, Zifan Li and Dragomir Radev	1653
<i>Cross-lingual Compositional Semantic Parsing</i>	
Sheng Zhang, Xutai Ma, Rachel Rudinger, Kevin Duh and Benjamin Van Durme	1664
<i>Learning to Learn Semantic Parsers from Natural Language Supervision</i>	
Igor Labutov, Bishan Yang and Tom Mitchell	1676

<i>DeepCx: A transition-based approach for shallow semantic parsing with complex constructional triggers</i> Jesse Dunietz, Jaime Carbonell and Lori Levin	1691
<i>What It Takes to Achieve 100% Condition Accuracy on WikiSQL</i> Semih Yavuz, Izzeddin Gur, Yu Su and Xifeng Yan	1702
<i>Better Transition-Based AMR Parsing with a Refined Search Space</i> Zhijiang Guo and Wei Lu	1712
<i>Heuristically Informed Unsupervised Idiom Usage Recognition</i> Changsheng Liu and Rebecca Hwa	1723
<i>Coming to Your Senses: on Controls and Evaluation Sets in Polysemy Research</i> Haim Dubossarsky, Eitan Grossman and Daphna Weinshall	1732
<i>Predicting Semantic Relations using Global Graph Properties</i> Yuval Pinter and Jacob Eisenstein	1741
<i>Learning Scalar Adjective Intensity from Paraphrases</i> Anne Cocos, Veronica Wharton, Ellie Pavlick, Marianna Apidianaki and Chris Callison-Burch	1752
<i>Pointwise HSIC: A Linear-Time Kernelized Co-occurrence Norm for Sparse Linguistic Expressions</i> Sho Yokoi, Sosuke Kobayashi, Kenji Fukumizu, Jun Suzuki and Kentaro Inui	1763
<i>Neural Related Work Summarization with a Joint Context-driven Attention Mechanism</i> Yongzhen Wang, Xiaozhong Liu and Zheng Gao	1776
<i>Improving Neural Abstractive Document Summarization with Explicit Information Selection Modeling</i> Wei Li, Xinyan Xiao, Yajuan Lyu and Yuanzhuo Wang	1787
<i>Don't Give Me the Details, Just the Summary! Topic-Aware Convolutional Neural Networks for Extreme Summarization</i> Shashi Narayan, Shay B. Cohen and Mirella Lapata	1797
<i>Improving Abstraction in Text Summarization</i> Wojciech Kryściński, Romain Paulus, Caiming Xiong and Richard Socher	1808
<i>Content Selection in Deep Learning Models of Summarization</i> Chris Kedzie, Kathleen McKeown and Hal Daume III	1818
<i>Improved Semantic-Aware Network Embedding with Fine-Grained Word Alignment</i> Dinghan Shen, Xinyuan Zhang, Ricardo Henao and Lawrence Carin	1829
<i>Learning Context-Sensitive Convolutional Filters for Text Processing</i> Dinghan Shen, Martin Renqiang Min, Yitong Li and Lawrence Carin	1839
<i>Deep Relevance Ranking Using Enhanced Document-Query Interactions</i> Ryan McDonald, George Brokos and Ion Androutsopoulos	1849
<i>Learning Neural Representation for CLIR with Adversarial Framework</i> Bo Li and Ping Cheng	1861
<i>AD3: Attentive Deep Document Dater</i> Swayambhu Nath Ray, Shib Sankar Dasgupta and Partha Talukdar	1871

<i>Gromov-Wasserstein Alignment of Word Embedding Spaces</i>	
David Alvarez-Melis and Tommi Jaakkola	1881
<i>Deep Probabilistic Logic: A Unifying Framework for Indirect Supervision</i>	
Hai Wang and Hoifung Poon	1891
<i>Deriving Machine Attention from Human Rationales</i>	
Yujia Bao, Shiyu Chang, Mo Yu and Regina Barzilay	1903
<i>Semi-Supervised Sequence Modeling with Cross-View Training</i>	
Kevin Clark, Minh-Thang Luong, Christopher D. Manning and Quoc Le	1914
<i>A Probabilistic Annotation Model for Crowdsourcing Coreference</i>	
Silviu Paun, Jon Chamberlain, Udo Kruschwitz, Juntao Yu and Massimo Poesio	1926
<i>A Deterministic Algorithm for Bridging Anaphora Resolution</i>	
Yufang Hou	1938
<i>A Knowledge Hunting Framework for Common Sense Reasoning</i>	
Ali Emami, Noelia De La Cruz, Adam Trischler, Kaheer Suleman and Jackie Chi Kit Cheung	1949
<i>Mapping Text to Knowledge Graph Entities using Multi-Sense LSTMs</i>	
Dimitri Kartsaklis, Mohammad Taher Pilehvar and Nigel Collier	1959
<i>Differentiating Concepts and Instances for Knowledge Graph Embedding</i>	
Xin Lv, Lei Hou, Juanzi Li and Zhiyuan Liu	1971
<i>One-Shot Relational Learning for Knowledge Graphs</i>	
Wenhan Xiong, Mo Yu, Shiyu Chang, Xiaoxiao Guo and William Yang Wang	1980
<i>Regular Expression Guided Entity Mention Mining from Noisy Web Data</i>	
Shanshan Zhang, Lihong He, Slobodan Vucetic and Eduard Dragut	1991
<i>HyTE: Hyperplane-based Temporally aware Knowledge Graph Embedding</i>	
Shib Sankar Dasgupta, Swayambhu Nath Ray and Partha Talukdar	2001
<i>Neural Adaptation Layers for Cross-domain Named Entity Recognition</i>	
Bill Yuchen Lin and Wei Lu	2012
<i>Entity Linking within a Social Media Platform: A Case Study on Yelp</i>	
Hongliang Dai, Yangqiu Song, Liwei Qiu and Rijia Liu	2023
<i>Annotation of a Large Clinical Entity Corpus</i>	
Pinal Patel, Disha Davey, Vishal Panchal and Parth Pathak	2033
<i>Visual Supervision in Bootstrapped Information Extraction</i>	
Matthew Berger, Ajay Nagesh, Joshua Levine, Mihai Surdeanu and Helen Zhang	2043
<i>Learning Named Entity Tagger using Domain-Specific Dictionary</i>	
Jingbo Shang, Liyuan Liu, Xiaotao Gu, Xiang Ren, Teng Ren and Jiawei Han	2054
<i>Zero-Shot Open Entity Typing as Type-Compatible Grounding</i>	
Ben Zhou, Daniel Khashabi, Chen-Tse Tsai and Dan Roth	2065
<i>Attention-Guided Answer Distillation for Machine Reading Comprehension</i>	
Minghao Hu, Yuxing Peng, Furu Wei, Zhen Huang, Dongsheng Li, Nan Yang and Ming Zhou	2077

<i>Interpretation of Natural Language Rules in Conversational Machine Reading</i>	
Marzieh Saeidi, Max Bartolo, Patrick Lewis, Sameer Singh, Tim Rocktäschel, Mike Sheldon, Guillaume Bouchard and Sebastian Riedel	2087
<i>A State-transition Framework to Answer Complex Questions over Knowledge Base</i>	
Sen Hu, Lei Zou and Xinbo Zhang	2098
<i>A Multi-answer Multi-task Framework for Real-world Machine Reading Comprehension</i>	
Jiahua Liu, Wan Wei, Maosong Sun, Hao Chen, Yantao Du and Dekang Lin	2109
<i>Logician and Orator: Learning from the Duality between Language and Knowledge in Open Domain</i>	
Mingming Sun, Xu Li and Ping Li	2119
<i>MemoReader: Large-Scale Reading Comprehension through Neural Memory Controller</i>	
Seohyun Back, Seunghak Yu, Sathish Reddy Indurthi, Jihie Kim and Jaegul Choo	2131
<i>Multi-Granular Sequence Encoding via Dilated Compositional Units for Reading Comprehension</i>	
Yi Tay, Anh Tuan Luu and Siu Cheung Hui	2141
<i>Neural Compositional Denotational Semantics for Question Answering</i>	
Nitish Gupta and Mike Lewis	2152
<i>Cross-Pair Text Representations for Answer Sentence Selection</i>	
Kateryna Tymoshenko and Alessandro Moschitti	2162
<i>QuAC: Question Answering in Context</i>	
Eunsol Choi, He He, Mohit Iyyer, Mark Yatskar, Wen-tau Yih, Yejin Choi, Percy Liang and Luke Zettlemoyer	2174
<i>Knowledge Base Question Answering via Encoding of Complex Query Graphs</i>	
Kangqi Luo, Fengli Lin, Xusheng Luo and Kenny Zhu	2185
<i>Neural Relation Extraction via Inner-Sentence Noise Reduction and Transfer Learning</i>	
Tianyi Liu, Xinsong Zhang, Wanhao Zhou and Weijia Jia	2195
<i>Graph Convolution over Pruned Dependency Trees Improves Relation Extraction</i>	
Yuhao Zhang, Peng Qi and Christopher D. Manning	2205
<i>Multi-Level Structured Self-Attentions for Distantly Supervised Relation Extraction</i>	
Jinhua Du, Jingguang Han, Andy Way and Dadong Wan	2216
<i>N-ary Relation Extraction using Graph-State LSTM</i>	
Linfeng Song, Yue Zhang, Zhiguo Wang and Daniel Gildea	2226
<i>Hierarchical Relation Extraction with Coarse-to-Fine Grained Attention</i>	
Xu Han, Pengfei Yu, Zhiyuan Liu, Maosong Sun and Peng Li	2236
<i>Label-Free Distant Supervision for Relation Extraction via Knowledge Graph Embedding</i>	
Guanying Wang, Wen Zhang, Ruoxu Wang, Yalin Zhou, Xi Chen, Wei Zhang, Hai Zhu and Huajun Chen	2246
<i>Extracting Entities and Relations with Joint Minimum Risk Training</i>	
Changzhi Sun, Yuanbin Wu, Man Lan, Shiliang Sun, Wenting Wang, Kuang-Chih Lee and Kewen Wu	2256

<i>Large-scale Exploration of Neural Relation Classification Architectures</i>	
Hoang-Quynh Le, Duy-Cat Can, Sinh T. Vu, Thanh Hai Dang, Mohammad Taher Pilehvar and Nigel Collier	2266
<i>Possessors Change Over Time: A Case Study with Artworks</i>	
Dhivya Chinnappa and Eduardo Blanco	2278
<i>Using Lexical Alignment and Referring Ability to Address Data Sparsity in Situated Dialog Reference Resolution</i>	
Todd Shore and Gabriel Skantze	2288
<i>Subgoal Discovery for Hierarchical Dialogue Policy Learning</i>	
Da Tang, Xiujun Li, Jianfeng Gao, Chong Wang, Lihong Li and Tony Jebara	2298
<i>Supervised Clustering of Questions into Intents for Dialog System Applications</i>	
Iryna Haponchyk, Antonio Uva, Seunghak Yu, Olga Uryupina and Alessandro Moschitti	2310
<i>Towards Exploiting Background Knowledge for Building Conversation Systems</i>	
Nikita Moghe, Siddhartha Arora, Suman Banerjee and Mitesh M. Khapra	2322
<i>Decoupling Strategy and Generation in Negotiation Dialogues</i>	
He He, Derek Chen, Anusha Balakrishnan and Percy Liang	2333
<i>Large-scale Cloze Test Dataset Created by Teachers</i>	
Qizhe Xie, Guokun Lai, Zihang Dai and Eduard Hovy	2344
<i>emrQA: A Large Corpus for Question Answering on Electronic Medical Records</i>	
Anusri Pampari, Preethi Raghavan, Jennifer Liang and Jian Peng	2357
<i>HotpotQA: A Dataset for Diverse, Explainable Multi-hop Question Answering</i>	
Zhilin Yang, Peng Qi, Saizheng Zhang, Yoshua Bengio, William Cohen, Ruslan Salakhutdinov and Christopher D. Manning	2369
<i>Can a Suit of Armor Conduct Electricity? A New Dataset for Open Book Question Answering</i>	
Todor Mihaylov, Peter Clark, Tushar Khot and Ashish Sabharwal	2381
<i>Evaluating Theory of Mind in Question Answering</i>	
Aida Nematzadeh, Kaylee Burns, Erin Grant, Alison Gopnik and Tom Griffiths	2392
<i>A Unified Syntax-aware Framework for Semantic Role Labeling</i>	
Zuchao Li, Shexia He, Jiaxun Cai, Zhuosheng Zhang, Hai Zhao, Gongshen Liu, Linlin Li and Luo Si	2401
<i>Semantics as a Foreign Language</i>	
Gabriel Stanovsky and Ido Dagan	2412
<i>An AMR Aligner Tuned by Transition-based Parser</i>	
Yijia Liu, Wanxiang Che, Bo Zheng, Bing Qin and Ting Liu	2422
<i>Dependency-based Hybrid Trees for Semantic Parsing</i>	
Zhanming Jie and Wei Lu	2431
<i>Policy Shaping and Generalized Update Equations for Semantic Parsing from Denotations</i>	
Dipendra Misra, Ming-Wei Chang, Xiaodong He and Wen-tau Yih	2442

<i>Sentence Compression for Arbitrary Languages via Multilingual Pivoting</i>	
Jonathan Mallinson, Rico Sennrich and Mirella Lapata	2453
<i>Unsupervised Cross-lingual Transfer of Word Embedding Spaces</i>	
Ruochen Xu, Yiming Yang, Naoki Otani and Yuexin Wu	2465
<i>XNLI: Evaluating Cross-lingual Sentence Representations</i>	
Alexis Conneau, Ruty Rinott, Guillaume Lample, Adina Williams, Samuel Bowman, Holger Schwenk and Veselin Stoyanov	2475
<i>Joint Multilingual Supervision for Cross-lingual Entity Linking</i>	
Shyam Upadhyay, Nitish Gupta and Dan Roth	2486
<i>Fine-grained Coordinated Cross-lingual Text Stream Alignment for Endless Language Knowledge Acquisition</i>	
Tao Ge, Qing Dou, Heng Ji, Lei Cui, Baobao Chang, Zhifang Sui, Furu Wei and Ming Zhou .	2496
<i>WECA: A WordNet-Encoded Collocation-Attention Network for Homographic Pun Recognition</i>	
Yufeng Diao, Hongfei Lin, Di Wu, Liang Yang, Kan Xu, Zhihao Yang, Jian Wang, Shaowu Zhang, Bo Xu and Dongyu Zhang	2507
<i>A Hybrid Approach to Automatic Corpus Generation for Chinese Spelling Check</i>	
Dingmin Wang, Yan Song, Jing Li, Jialong Han and Haisong Zhang	2517
<i>Neural Quality Estimation of Grammatical Error Correction</i>	
Shamil Chollampatt and Hwee Tou Ng	2528
<i>Transferring from Formal Newswire Domain with Hypernet for Twitter POS Tagging</i>	
Tao Gui, Qi Zhang, Jingjing Gong, Minlong Peng, di liang, Keyu Ding and Xuanjing Huang .	2540
<i>Free as in Free Word Order: An Energy Based Model for Word Segmentation and Morphological Tagging in Sanskrit</i>	
Amrith Krishna, Bishal Santra, Sasi Prasanth Bandaru, Gaurav Sahu, Vishnu Dutt Sharma, Pavankumar Satuluri and Pawan Goyal	2550
<i>A Challenge Set and Methods for Noun-Verb Ambiguity</i>	
Ali Elkahky, Kellie Webster, Daniel Andor and Emily Pitler	2562
<i>What do character-level models learn about morphology? The case of dependency parsing</i>	
Clara Vania, Andreas Grivas and Adam Lopez	2573
<i>Learning Better Internal Structure of Words for Sequence Labeling</i>	
Yingwei Xin, Ethan Hart, Vibhuti Mahajan and Jean David Ruvini	2584
<i>ICON: Interactive Conversational Memory Network for Multimodal Emotion Detection</i>	
Devamanyu Hazarika, Soujanya Poria, Rada Mihalcea, Erik Cambria and Roger Zimmermann	2594
<i>Discriminative Learning of Open-Vocabulary Object Retrieval and Localization by Negative Phrase Augmentation</i>	
Ryota Hinami and Shin'ichi Satoh	2605
<i>Grounding Semantic Roles in Images</i>	
Carina Silberer and Manfred Pinkal	2616
<i>Commonsense Justification for Action Explanation</i>	
Shaohua Yang, Qiaozi Gao, Sari Sadiya and Joyce Chai	2627

<i>Learning Personas from Dialogue with Attentive Memory Networks</i>	
Eric Chu, Prashanth Vijayaraghavan and Deb Roy	2638
<i>Grounding language acquisition by training semantic parsers using captioned videos</i>	
Candace Ross, Andrei Barbu, Yevgeni Berzak, Battushig Myanganbayar and Boris Katz.....	2647
<i>Translating Navigation Instructions in Natural Language to a High-Level Plan for Behavioral Robot Navigation</i>	
Xiaoxue Zang, Ashwini Pokle, Marynel Vázquez, Kevin Chen, Juan Carlos Niebles, Alvaro Soto and Silvio Savarese.....	2657
<i>Mapping Instructions to Actions in 3D Environments with Visual Goal Prediction</i>	
Dipendra Misra, Andrew Bennett, Valts Blukis, Eyvind Niklasson, Max Shatkhin and Yoav Artzi	2667
<i>Deconvolutional Time Series Regression: A Technique for Modeling Temporally Diffuse Effects</i>	
Cory Shain and William Schuler	2679
<i>Is this Sentence Difficult? Do you Agree?</i>	
Dominique Brunato, Lorenzo De Mattei, Felice Dell’Orletta, Benedetta Iavarone and Giulia Venturi	2690
<i>Neural Transition Based Parsing of Web Queries: An Entity Based Approach</i>	
Rivka Malca and Roi Reichart	2700
<i>An Investigation of the Interactions Between Pre-Trained Word Embeddings, Character Models and POS Tags in Dependency Parsing</i>	
Aaron Smith, Miryam de Lhoneux, Sara Stymne and Joakim Nivre	2711
<i>Depth-bounding is effective: Improvements and evaluation of unsupervised PCFG induction</i>	
Lifeng Jin, Finale Doshi-Velez, Timothy Miller, William Schuler and Lane Schwartz.....	2721
<i>Incremental Computation of Infix Probabilities for Probabilistic Finite Automata</i>	
Marco Cognitiona, Yo-Sub Han and Soon Chan Kwon	2732
<i>Syntax Encoding with Application in Authorship Attribution</i>	
Richong Zhang, Zhiyuan Hu, Hongyu Guo and Yongyi Mao	2742
<i>Sanskrit Word Segmentation Using Character-level Recurrent and Convolutional Neural Networks</i>	
Oliver Hellwig and Sebastian Nehrlich	2754
<i>Session-level Language Modeling for Conversational Speech</i>	
Wayne Xiong, Lingfeng Wu, Jun Zhang and Andreas Stolcke	2764
<i>Towards Less Generic Responses in Neural Conversation Models: A Statistical Re-weighting Method</i>	
Yahui Liu, Wei Bi, Jun Gao, Xiaojiang Liu, Jian Yao and Shuming Shi.....	2769
<i>Training Millions of Personalized Dialogue Agents</i>	
Pierre-Emmanuel Mazare, Samuel Humeau, Martin Raison and Antoine Bordes	2775
<i>Towards Universal Dialogue State Tracking</i>	
Liliang Ren, Kaige Xie, Lu Chen and Kai Yu.....	2780
<i>Semantic Parsing for Task Oriented Dialog using Hierarchical Representations</i>	
Sonal Gupta, Rushin Shah, Mrinal Mohit, Anuj Kumar and Mike Lewis.....	2787

<i>The glass ceiling in NLP</i>	
Natalie Schluter	2793
<i>Reducing Gender Bias in Abusive Language Detection</i>	
Ji Ho Park, Jamin Shin and Pascale Fung	2799
<i>SafeCity: Understanding Diverse Forms of Sexual Harassment Personal Stories</i>	
Sweta Karlekar and Mohit Bansal	2805
<i>Learning multiview embeddings for assessing dementia</i>	
Chloé Pou-Prom and Frank Rudzicz	2812
<i>WikiConv: A Corpus of the Complete Conversational History of a Large Online Collaborative Community</i>	
Yiqing Hua, Cristian Danescu-Niculescu-Mizil, Dario Taraborelli, Nithum Thain, Jeffery Sorensen and Lucas Dixon	2818
<i>Marginal Likelihood Training of BiLSTM-CRF for Biomedical Named Entity Recognition from Disjoint Label Sets</i>	
Nathan Greenberg, Trapit Bansal, Patrick Verga and Andrew McCallum	2824
<i>Adversarial training for multi-context joint entity and relation extraction</i>	
Giannis Bekoulis, Johannes Deleu, Thomas Demeester and Chris Develder	2830
<i>Structured Multi-Label Biomedical Text Tagging via Attentive Neural Tree Decoding</i>	
Gaurav Singh, James Thomas, Iain Marshall, John Shawe-Taylor and Byron C. Wallace	2837
<i>Deep Exhaustive Model for Nested Named Entity Recognition</i>	
Mohammad Golam Sohrab and Makoto Miwa	2843
<i>Evaluating the Utility of Hand-crafted Features in Sequence Labelling</i>	
Minghao Wu, Fei Liu and Trevor Cohn	2850
<i>Improved Dependency Parsing using Implicit Word Connections Learned from Unlabeled Data</i>	
Wenhui Wang, Baobao Chang and Mairgup Mansur	2857
<i>A Framework for Understanding the Role of Morphology in Universal Dependency Parsing</i>	
Mathieu Dehouck and Pascal Denis	2864
<i>The Lazy Encoder: A Fine-Grained Analysis of the Role of Morphology in Neural Machine Translation</i>	
Arianna Bisazza and Clara Tump	2871
<i>Imitation Learning for Neural Morphological String Transduction</i>	
Peter Makarov and Simon Clematide	2877
<i>An Encoder-Decoder Approach to the Paradigm Cell Filling Problem</i>	
Miikka Silfverberg and Mans Hulden	2883
<i>Generating Natural Language Adversarial Examples</i>	
Moustafa Alzantot, Yash Sharma, Ahmed Elgohary, Bo-Jhang Ho, Mani Srivastava and Kai-Wei Chang	2890
<i>Multi-Head Attention with Disagreement Regularization</i>	
Jian Li, Zhaopeng Tu, Baosong Yang, Michael R. Lyu and Tong Zhang	2897

<i>Deep Bayesian Active Learning for Natural Language Processing: Results of a Large-Scale Empirical Study</i>	
Aditya Siddhant and Zachary C. Lipton	2904
<i>Bayesian Compression for Natural Language Processing</i>	
Nadezhda Chirkova, Ekaterina Lobacheva and Dmitry Vetrov	2910
<i>Multimodal neural pronunciation modeling for spoken languages with logographic origin</i>	
Minh Nguyen, Gia H Ngo and Nancy Chen	2916
<i>Chinese Pinyin Aided IME, Input What You Have Not Keystroked Yet</i>	
Yafang Huang and Hai Zhao	2923
<i>Estimating Marginal Probabilities of n-grams for Recurrent Neural Language Models</i>	
Thanapon Noraset, Doug Downey and Lidong Bing	2930
<i>How to represent a word and predict it, too: Improving tied architectures for language modelling</i>	
Kristina Gulordava, Laura Aina and Gemma Boleda	2936
<i>The Importance of Generation Order in Language Modeling</i>	
Nicolas Ford, Daniel Duckworth, Mohammad Norouzi and George Dahl	2942
<i>Document-Level Neural Machine Translation with Hierarchical Attention Networks</i>	
Lesly Miculicich, Dhananjay Ram, Nikolaos Pappas and James Henderson	2947
<i>Three Strategies to Improve One-to-Many Multilingual Translation</i>	
Yining Wang, Jiajun Zhang, Feifei Zhai, Jingfang Xu and Chengqing Zong	2955
<i>Multi-Source Syntactic Neural Machine Translation</i>	
Anna Currey and Kenneth Heafield	2961
<i>Fixing Translation Divergences in Parallel Corpora for Neural MT</i>	
Minh Quang Pham, Josep Crego, Jean Senellart and François Yvon	2967
<i>Adversarial Evaluation of Multimodal Machine Translation</i>	
Desmond Elliott	2974
<i>Loss in Translation: Learning Bilingual Word Mapping with a Retrieval Criterion</i>	
Armand Joulin, Piotr Bojanowski, Tomas Mikolov, Hervé Jégou and Edouard Grave	2979
<i>Learning When to Concentrate or Divert Attention: Self-Adaptive Attention Temperature for Neural Machine Translation</i>	
Junyang Lin, Xu Sun, Xuancheng Ren, Muyu Li and Qi Su	2985
<i>Accelerating Asynchronous Stochastic Gradient Descent for Neural Machine Translation</i>	
Nikolay Bogoychev, Kenneth Heafield, Alham Fikri Aji and Marcin Junczys-Dowmunt	2991
<i>Learning to Jointly Translate and Predict Dropped Pronouns with a Shared Reconstruction Mechanism</i>	
Longyue Wang, Zhaopeng Tu, Andy Way and Qun Liu	2997
<i>Getting Gender Right in Neural Machine Translation</i>	
Eva Vanmassenhove, Christian Hardmeier and Andy Way	3003
<i>Towards Two-Dimensional Sequence to Sequence Model in Neural Machine Translation</i>	
Parnia Bahar, Christopher Brix and Hermann Ney	3009

<i>End-to-End Non-Autoregressive Neural Machine Translation with Connectionist Temporal Classification</i> Jindřich Libovický and Jindřich Helcl	3016
<i>Prediction Improves Simultaneous Neural Machine Translation</i> Ashkan Alinejad, Maryam Siahbani and Anoop Sarkar	3022
<i>Training Deeper Neural Machine Translation Models with Transparent Attention</i> Ankur Bapna, Mia Chen, Orhan Firat, Yuan Cao and Yonghui Wu	3028
<i>Context and Copying in Neural Machine Translation</i> Rebecca Knowles and Philipp Koehn	3034
<i>Encoding Gated Translation Memory into Neural Machine Translation</i> Qian Cao and Deyi Xiong	3042
<i>Automatic Post-Editing of Machine Translation: A Neural Programmer-Interpreter Approach</i> Thuy-Trang Vu and Gholamreza Haffari	3048
<i>Breaking the Beam Search Curse: A Study of (Re-)Scoring Methods and Stopping Criteria for Neural Machine Translation</i> Yilin Yang, Liang Huang and Mingbo Ma	3054
<i>Multi-Multi-View Learning: Multilingual and Multi-Representation Entity Typing</i> Yadollah Yaghoobzadeh and Hinrich Schütze	3060
<i>Word Embeddings for Code-Mixed Language Processing</i> Adithya Pratapa, Monojit Choudhury and Sunayana Sitaram	3067
<i>On the Strength of Character Language Models for Multilingual Named Entity Recognition</i> Xiaodong Yu, Stephen Mayhew, Mark Sammons and Dan Roth	3073
<i>Code-switched Language Models Using Dual RNNs and Same-Source Pretraining</i> Saurabh Garg, Tanmay Parekh and Preethi Jyothi	3078
<i>Part-of-Speech Tagging for Code-Switched, Transliterated Texts without Explicit Language Identification</i> Kelsey Ball and Dan Garrette	3084
<i>Zero-shot User Intent Detection via Capsule Neural Networks</i> Congying Xia, Chenwei Zhang, Xiaohui Yan, Yi Chang and Philip Yu	3090
<i>Hierarchical Neural Networks for Sequential Sentence Classification in Medical Scientific Abstracts</i> Di Jin and Peter Szolovits	3100
<i>Investigating Capsule Networks with Dynamic Routing for Text Classification</i> Min Yang, Wei Zhao, Jianbo Ye, Zeyang Lei, Zhou Zhao and Soufei Zhang	3110
<i>Topic Memory Networks for Short Text Classification</i> Jichuan Zeng, Jing Li, Yan Song, Cuiyun Gao, Michael R. Lyu and Irwin King	3120
<i>Few-Shot and Zero-Shot Multi-Label Learning for Structured Label Spaces</i> Anthony Rios and Ramakanth Kavuluru	3132
<i>Automatic Poetry Generation with Mutual Reinforcement Learning</i> Xiaoyuan Yi, Maosong Sun, Ruoyu Li and Wenhao Li	3143

<i>Variational Autoregressive Decoder for Neural Response Generation</i>	
Jiachen Du, Wenjie Li, Yulan He, Ruifeng Xu, Lidong Bing and Xuan Wang	3154
<i>Integrating Transformer and Paraphrase Rules for Sentence Simplification</i>	
Sanqiang Zhao, Rui Meng, Daqing He, Andi Saptono and Bambang Parmanto	3164
<i>Learning Neural Templates for Text Generation</i>	
Sam Wiseman, Stuart Shieber and Alexander Rush	3174
<i>Multi-Reference Training with Pseudo-References for Neural Translation and Text Generation</i>	
Renjie Zheng, Mingbo Ma and Liang Huang	3188
<i>Knowledge Graph Embedding with Hierarchical Relation Structure</i>	
Zhao Zhang, Fuzhen Zhuang, Meng Qu, Fen Lin and Qing He	3198
<i>Embedding Multimodal Relational Data for Knowledge Base Completion</i>	
Pouya Pezeshkpour, Liyan Chen and Sameer Singh	3208
<i>Multi-Task Identification of Entities, Relations, and Coreference for Scientific Knowledge Graph Construction</i>	
Yi Luan, Luheng He, Mari Ostendorf and Hannaneh Hajishirzi	3219
<i>Playing 20 Question Game with Policy-Based Reinforcement Learning</i>	
Huang Hu, Xianchao Wu, Bingfeng Luo, Chongyang Tao, Can Xu, wei wu and Zhan Chen ..	3233
<i>Multi-Hop Knowledge Graph Reasoning with Reward Shaping</i>	
Xi Victoria Lin, Richard Socher and Caiming Xiong	3243
<i>Neural Transductive Learning and Beyond: Morphological Generation in the Minimal-Resource Setting</i>	
Katharina Kann and Hinrich Schütze	3254
<i>Implicational Universals in Stochastic Constraint-Based Phonology</i>	
Giorgio Magri	3265
<i>Explaining Character-Aware Neural Networks for Word-Level Prediction: Do They Discover Linguistic Rules?</i>	
Frédéric Godin, Kris Demuynck, Joni Dambre, Wesley De Neve and Thomas Demeester	3275
<i>Adapting Word Embeddings to New Languages with Morphological and Phonological Subword Representations</i>	
Aditi Chaudhary, Chunting Zhou, Lori Levin, Graham Neubig, David R. Mortensen and Jaime Carbonell	3285
<i>A Computational Exploration of Exaggeration</i>	
Enrica Troiano, Carlo Strapparava, Gözde Özbal and Serra Sinem Tekiroglu	3296
<i>Building Context-aware Clause Representations for Situation Entity Type Classification</i>	
Zeyu Dai and Ruihong Huang	3305
<i>Hierarchical Dirichlet Gaussian Marked Hawkes Process for Narrative Reconstruction in Continuous Time Domain</i>	
Yeon Seonwoo, Alice Oh and Sungjoon Park	3316
<i>Investigating the Role of Argumentation in the Rhetorical Analysis of Scientific Publications with Neural Multi-Task Learning Models</i>	
Anne Lauscher, Goran Glavaš, Simone Paolo Ponzetto and Kai Eckert	3326

<i>Neural Ranking Models for Temporal Dependency Structure Parsing</i> Yuchen Zhang and Nianwen Xue	3339
<i>Causal Explanation Analysis on Social Media</i> Youngseo Son, Nipun Bayas and H. Andrew Schwartz	3350
<i>LRMM: Learning to Recommend with Missing Modalities</i> Cheng Wang, Mathias Niepert and Hui Li	3360
<i>Content Explorer: Recommending Novel Entities for a Document Writer</i> Michal Lukasik and Richard Zens	3371
<i>A Genre-Aware Attention Model to Improve the Likability Prediction of Books</i> Suraj Maharjan, Manuel Montes, Fabio A. González and Thamar Solorio	3381
<i>Thread Popularity Prediction and Tracking with a Permutation-invariant Model</i> Hou Pong Chan and Irwin King	3392
<i>IARM: Inter-Aspect Relation Modeling with Memory Networks in Aspect-Based Sentiment Analysis</i> Navonil Majumder, Soujanya Poria, Alexander Gelbukh, Md Shad Akhtar, Erik Cambria and Asif Ekbal	3402
<i>Limbic: Author-Based Sentiment Aspect Modeling Regularized with Word Embeddings and Discourse Relations</i> Zhe Zhang and Munindar Singh	3412
<i>An Interpretable Neural Network with Topical Information for Relevant Emotion Ranking</i> Yang Yang, Deyu ZHOU and Yulan He	3423
<i>Multi-grained Attention Network for Aspect-Level Sentiment Classification</i> Feifan Fan, Yansong Feng and Dongyan Zhao	3433
<i>Attentive Gated Lexicon Reader with Contrastive Contextual Co-Attention for Sentiment Classification</i> Yi Tay, Anh Tuan Luu, Siu Cheung Hui and Jian Su	3443
<i>Contextual Inter-modal Attention for Multi-modal Sentiment Analysis</i> Deepanway Ghosal, Md Shad Akhtar, Dushyant Chauhan, Soujanya Poria, Asif Ekbal and Pushpak Bhattacharyya	3454
<i>Adaptive Semi-supervised Learning for Cross-domain Sentiment Classification</i> Ruidan He, Wee Sun Lee, Hwee Tou Ng and Daniel Dahlmeier	3467
<i>ExtRA: Extracting Prominent Review Aspects from Customer Feedback</i> Zhiyi Luo, Shanshan Huang, Frank F. Xu, Bill Yuchen Lin, Hanyuan Shi and Kenny Zhu	3477
<i>Cross-Lingual Cross-Platform Rumor Verification Pivoting on Multimedia Content</i> Weiming Wen, Songwen Su and Zhou Yu	3487
<i>Extractive Adversarial Networks: High-Recall Explanations for Identifying Personal Attacks in Social Media Posts</i> Samuel Carton, Qiaozhu Mei and Paul Resnick	3497
<i>Automatic Detection of Vague Words and Sentences in Privacy Policies</i> Logan Lebanoff and Fei Liu	3508

<i>Multi-view Models for Political Ideology Detection of News Articles</i>	
Vivek Kulkarni, Junting Ye, Steve Skiena and William Yang Wang	3518
<i>Predicting Factuality of Reporting and Bias of News Media Sources</i>	
Ramy Baly, Georgi Karadzhov, Dimitar Alexandrov, James Glass and Preslav Nakov	3528
<i>Legal Judgment Prediction via Topological Learning</i>	
Haoxi Zhong, Guo Zhipeng, Cunchao Tu, Chaojun Xiao, Zhiyuan Liu and Maosong Sun	3540
<i>Hierarchical CVAE for Fine-Grained Hate Speech Classification</i>	
Jing Qian, Mai ElSherief, Elizabeth Belding and William Yang Wang	3550
<i>Residualized Factor Adaptation for Community Social Media Prediction Tasks</i>	
Mohammadzaman Zamani, H. Andrew Schwartz, Veronica Lynn, Salvatore Giorgi and Niranjana Balasubramanian	3560
<i>Framing and Agenda-setting in Russian News: a Computational Analysis of Intricate Political Strategies</i>	
Anjalie Field, Doron Kliger, Shuly Wintner, Jennifer Pan, Dan Jurafsky and Yulia Tsvetkov ..	3570
<i>Identifying the sentiment styles of YouTube's vloggers</i>	
Bennett Kleinberg, Maximilian Mozes and Isabelle van der Vegt	3581
<i>Native Language Identification with User Generated Content</i>	
Gili Goldin, Ella Rabinovich and Shuly Wintner	3591
<i>Beyond Error Propagation in Neural Machine Translation: Characteristics of Language Also Matter</i>	
Lijun Wu, Xu Tan, Di He, Fei Tian, Tao Qin, Jianhuang Lai and Tie-Yan Liu	3602
<i>A Study of Reinforcement Learning for Neural Machine Translation</i>	
Lijun Wu, Fei Tian, Tao Qin, Jianhuang Lai and Tie-Yan Liu	3612
<i>Meta-Learning for Low-Resource Neural Machine Translation</i>	
Jiatao Gu, Yong Wang, Yun Chen, Victor O. K. Li and Kyunghyun Cho	3622
<i>Unsupervised Statistical Machine Translation</i>	
Mikel Artetxe, Gorka Labaka and Eneko Agirre	3632
<i>A Visual Attention Grounding Neural Model for Multimodal Machine Translation</i>	
Mingyang Zhou, Runxiang Cheng, Yong Jae Lee and Zhou Yu	3643
<i>Sentiment Classification towards Question-Answering with Hierarchical Matching Network</i>	
Chenlin Shen, Changlong Sun, Jingjing Wang, Yangyang Kang, Shoushan Li, Xiaozhong Liu, Luo Si, Min Zhang and Guodong Zhou	3654
<i>Cross-topic Argument Mining from Heterogeneous Sources</i>	
Christian Stab, Tristan Miller, Benjamin Schiller, Pranav Rai and Iryna Gurevych	3664
<i>Summarizing Opinions: Aspect Extraction Meets Sentiment Prediction and They Are Both Weakly Supervised</i>	
Stefanos Angelidis and Mirella Lapata	3675
<i>CARER: Contextualized Affect Representations for Emotion Recognition</i>	
Elvis Saravia, Hsien-Chi Toby Liu, Yen-Hao Huang, Junlin Wu and Yi-Shin Chen	3687

<i>Noise Contrastive Estimation and Negative Sampling for Conditional Models: Consistency and Statistical Efficiency</i>	
Zhuang Ma and Michael Collins	3698
<i>CaLcs: Continuously Approximating Longest Common Subsequence for Sequence Level Optimization</i>	
Semih Yavuz, Chung-Cheng Chiu, Patrick Nguyen and Yonghui Wu	3708
<i>Pathologies of Neural Models Make Interpretations Difficult</i>	
Shi Feng, Eric Wallace, Alvin Grissom II, Mohit Iyyer, Pedro Rodriguez and Jordan Boyd-Graber	
3719	
<i>Phrase-level Self-Attention Networks for Universal Sentence Encoding</i>	
Wei Wu, Houfeng Wang, Tianyu Liu and Shuming Ma	3729
<i>BanditSum: Extractive Summarization as a Contextual Bandit</i>	
Yue Dong, Yikang Shen, Eric Crawford, Herke van Hoof and Jackie Chi Kit Cheung	3739
<i>A Word-Complexity Lexicon and A Neural Readability Ranking Model for Lexical Simplification</i>	
Mounica Maddela and Wei Xu	3749
<i>Learning Latent Semantic Annotations for Grounding Natural Language to Structured Data</i>	
Guanghui Qin, Jin-Ge Yao, Xuening Wang, Jinpeng Wang and Chin-Yew Lin	3761
<i>Syntactic Scaffolds for Semantic Structures</i>	
Swabha Swayamdipta, Sam Thomson, Kenton Lee, Luke Zettlemoyer, Chris Dyer and Noah A. Smith	3772
<i>Hierarchical Quantized Representations for Script Generation</i>	
Noah Weber, Leena Shekhar, Niranjan Balasubramanian and Nate Chambers	3783
<i>Semantic Role Labeling for Learner Chinese: the Importance of Syntactic Parsing and L2-L1 Parallel Data</i>	
Zi Lin, Yuguang Duan, Yuanyuan Zhao, Weiwei Sun and Xiaojun Wan	3793
<i>A Teacher-Student Framework for Maintainable Dialog Manager</i>	
Weikang Wang, Jiajun Zhang, Han Zhang, Mei-Yuh Hwang, Chengqing Zong and Zhifei Li .	3803
<i>Discriminative Deep Dyna-Q: Robust Planning for Dialogue Policy Learning</i>	
Shang-Yu Su, Xiujuan Li, Jianfeng Gao, Jingjing Liu and Yun-Nung Chen	3813
<i>A Self-Attentive Model with Gate Mechanism for Spoken Language Understanding</i>	
Changliang Li, Liang Li and Ji Qi	3824
<i>Learning End-to-End Goal-Oriented Dialog with Multiple Answers</i>	
Janarthanan Rajendran, Jatin Ganhotra, Satinder Singh and Lazaros Polymenakos	3834
<i>AirDialogue: An Environment for Goal-Oriented Dialogue Research</i>	
Wei Wei, Quoc Le, Andrew Dai and Jia Li	3844
<i>QuaSE: Sequence Editing under Quantifiable Guidance</i>	
Yi Liao, Lidong Bing, Piji Li, Shuming Shi, Wai Lam and Tong Zhang	3855
<i>Paraphrase Generation with Deep Reinforcement Learning</i>	
Zichao Li, Xin Jiang, Lifeng Shang and Hang Li	3865

<i>Operation-guided Neural Networks for High Fidelity Data-To-Text Generation</i>	
Feng Nie, Jinpeng Wang, Jin-Ge Yao, Rong Pan and Chin-Yew Lin	3879
<i>Generating Classical Chinese Poems via Conditional Variational Autoencoder and Adversarial Training</i>	
Juntao Li, Yan Song, Haisong Zhang, Dongmin Chen, Shuming Shi, Dongyan Zhao and Rui Yan	3890
<i>Paragraph-level Neural Question Generation with Maxout Pointer and Gated Self-attention Networks</i>	
Yao Zhao, Xiaochuan Ni, Yuanyuan Ding and Qifa Ke	3901
<i>Spider: A Large-Scale Human-Labeled Dataset for Complex and Cross-Domain Semantic Parsing and Text-to-SQL Task</i>	
Tao Yu, Rui Zhang, Kai Yang, Michihiro Yasunaga, Dongxu Wang, Zifan Li, James Ma, Irene Li, Qingning Yao, Shanelle Roman, Zilin Zhang and Dragomir Radev	3911
<i>Unsupervised Natural Language Generation with Denoising Autoencoders</i>	
Markus Freitag and Scott Roy	3922
<i>Answer-focused and Position-aware Neural Question Generation</i>	
Xingwu Sun, Jing Liu, Yajuan Lyu, Wei He, Yanjun Ma and Shi Wang	3930
<i>Diversity-Promoting GAN: A Cross-Entropy Based Generative Adversarial Network for Diversified Text Generation</i>	
Jingjing Xu, Xuancheng Ren, Junyang Lin and Xu Sun	3940
<i>Towards a Better Metric for Evaluating Question Generation Systems</i>	
Preksha Nema and Mitesh M. Khapra	3950
<i>Stylistic Chinese Poetry Generation via Unsupervised Style Disentanglement</i>	
Cheng Yang, Maosong Sun, Xiaoyuan Yi and Wenhao Li	3960
<i>Generating More Interesting Responses in Neural Conversation Models with Distributional Constraints</i>	
Ashutosh Baheti, Alan Ritter, Jiwei Li and Bill Dolan	3970
<i>Better Conversations by Modeling, Filtering, and Optimizing for Coherence and Diversity</i>	
Xinnuo Xu, Ondřej Dušek, Ioannis Konstas and Verena Rieser	3981
<i>Incorporating Background Knowledge into Video Description Generation</i>	
Spencer Whitehead, Heng Ji, Mohit Bansal, Shih-Fu Chang and Clare Voss	3992
<i>Multimodal Differential Network for Visual Question Generation</i>	
Badri Narayana Patro, Sandeep Kumar, Vinod Kumar Kurmi and Vinay Namboodiri	4002
<i>Entity-aware Image Caption Generation</i>	
Di Lu, Spencer Whitehead, Lifu Huang, Heng Ji and Shih-Fu Chang	4013
<i>Learning to Describe Differences Between Pairs of Similar Images</i>	
Harsh Jhamtani and Taylor Berg-Kirkpatrick	4024
<i>Object Hallucination in Image Captioning</i>	
Anna Rohrbach, Lisa Anne Hendricks, Kaylee Burns, Trevor Darrell and Kate Saenko	4035
<i>Abstractive Text-Image Summarization Using Multi-Modal Attentional Hierarchical RNN</i>	
Jingqiang Chen and Hai Zhuge	4046

<i>Keyphrase Generation with Correlation Constraints</i>	
Jun Chen, Xiaoming Zhang, Yu Wu, Zhao Yan and Zhoujun Li	4057
<i>Closed-Book Training to Improve Summarization Encoder Memory</i>	
Yichen Jiang and Mohit Bansal	4067
<i>Improving Neural Abstractive Document Summarization with Structural Regularization</i>	
Wei Li, Xinyan Xiao, Yajuan Lyu and Yuanzhuo Wang	4078
<i>Iterative Document Representation Learning Towards Summarization with Polishing</i>	
Xiuying Chen, Shen Gao, Chongyang Tao, Yan Song, Dongyan Zhao and Rui Yan	4088
<i>Bottom-Up Abstractive Summarization</i>	
Sebastian Gehrmann, Yuntian Deng and Alexander Rush	4098
<i>Controlling Length in Abstractive Summarization Using a Convolutional Neural Network</i>	
Yizhu Liu, Zhiyi Luo and Kenny Zhu	4110
<i>APRIL: Interactively Learning to Summarise by Combining Active Preference Learning and Reinforcement Learning</i>	
Yang Gao, Christian M. Meyer and Iryna Gurevych	4120
<i>Adapting the Neural Encoder-Decoder Framework from Single to Multi-Document Summarization</i>	
Logan Lebanoff, Kaiqiang Song and Fei Liu	4131
<i>Semi-Supervised Learning for Neural Keyphrase Generation</i>	
Hai Ye and Lu Wang	4142
<i>MSMO: Multimodal Summarization with Multimodal Output</i>	
Junnan Zhu, Haoran Li, Tianshang Liu, Yu Zhou, Jiajun Zhang and Chengqing Zong	4154
<i>Frustratingly Easy Model Ensemble for Abstractive Summarization</i>	
Hayato Kobayashi	4165
<i>Automatic Pyramid Evaluation Exploiting EDU-based Extractive Reference Summaries</i>	
Tsutomu Hirao, Hidetaka Kamigaito and Masaaki Nagata	4177
<i>Learning to Encode Text as Human-Readable Summaries using Generative Adversarial Networks</i>	
Yaushian Wang and Hung-yi Lee	4187
<i>Joint Multitask Learning for Community Question Answering Using Task-Specific Embeddings</i>	
Shafiq Joty, Lluís Màrquez and Preslav Nakov	4196
<i>What Makes Reading Comprehension Questions Easier?</i>	
Saku Sugawara, Kentaro Inui, Satoshi Sekine and Akiko Aizawa	4208
<i>Commonsense for Generative Multi-Hop Question Answering Tasks</i>	
Lisa Bauer, Yicheng Wang and Mohit Bansal	4220
<i>Open Domain Question Answering Using Early Fusion of Knowledge Bases and Text</i>	
Haitian Sun, Bhuwan Dhingra, Manzil Zaheer, Kathryn Mazaitis, Ruslan Salakhutdinov and William Cohen	4231
<i>A Nil-Aware Answer Extraction Framework for Question Answering</i>	
Souvik Kundu and Hwee Tou Ng	4243

<i>Exploiting Deep Representations for Neural Machine Translation</i>	
Zi-Yi Dou, Zhaopeng Tu, Xing Wang, Shuming Shi and Tong Zhang	4253
<i>Why Self-Attention? A Targeted Evaluation of Neural Machine Translation Architectures</i>	
Gongbo Tang, Mathias Müller, Annette Rios and Rico Sennrich	4263
<i>Simplifying Neural Machine Translation with Addition-Subtraction Twin-Gated Recurrent Networks</i>	
Biao Zhang, Deyi Xiong, jinsong su, Qian Lin and Huiji Zhang	4273
<i>Speeding Up Neural Machine Translation Decoding by Cube Pruning</i>	
Wen Zhang, Liang Huang, Yang Feng, Lei Shen and Qun Liu	4284
<i>Revisiting Character-Based Neural Machine Translation with Capacity and Compression</i>	
Colin Cherry, George Foster, Ankur Bapna, Orhan Firat and Wolfgang Macherey	4295
<i>A Skeleton-Based Model for Promoting Coherence Among Sentences in Narrative Story Generation</i>	
Jingjing Xu, Xuancheng Ren, Yi Zhang, Qi Zeng, Xiaoyan Cai and Xu Sun	4306
<i>NEXUS Network: Connecting the Preceding and the Following in Dialogue Generation</i>	
Xiaoyu Shen, Hui Su, Wenjie Li and Dietrich Klakow	4316
<i>A Neural Local Coherence Model for Text Quality Assessment</i>	
Mohsen Mesgar and Michael Strube	4328
<i>Deep Attentive Sentence Ordering Network</i>	
Baiyun Cui, Yingming Li, Ming Chen and Zhongfei Zhang	4340
<i>Getting to "Hearer-old": Charting Referring Expressions Across Time</i>	
Ieva Staliūnaitė, Hannah Rohde, Bonnie Webber and Annie Louis	4350
<i>Making "fetch" happen: The influence of social and linguistic context on nonstandard word growth and decline</i>	
Ian Stewart and Jacob Eisenstein	4360
<i>Analyzing Correlated Evolution of Multiple Features Using Latent Representations</i>	
Yugo Murawaki	4371
<i>Capturing Regional Variation with Distributed Place Representations and Geographic Retrofitting</i>	
Dirk Hovy and Christoph Purschke	4383
<i>Characterizing Interactions and Relationships between People</i>	
Farzana Rashid and Eduardo Blanco	4395
<i>Why Swear? Analyzing and Inferring the Intentions of Vulgar Expressions</i>	
Eric Holgate, Isabel Cachola, Daniel Preoticiu-Pietro and Junyi Jessy Li	4405
<i>Is it Time to Swish? Comparing Deep Learning Activation Functions Across NLP tasks</i>	
Steffen Eger, Paul Youssef and Iryna Gurevych	4415
<i>Hard Non-Monotonic Attention for Character-Level Transduction</i>	
Shijie Wu, Pamela Shapiro and Ryan Cotterell	4425
<i>Speed Reading: Learning to Read ForBackward via Shuttle</i>	
Tsu-Jui Fu and Wei-Yun Ma	4439

<i>Modeling Localness for Self-Attention Networks</i>	
Baosong Yang, Zhaopeng Tu, Derek F. Wong, Fandong Meng, Lidia S. Chao and Tong Zhang	4449
<i>Chargrid: Towards Understanding 2D Documents</i>	
Anoop R Katti, Christian Reisswig, Cordula Guder, Sebastian Brarda, Steffen Bickel, Johannes Höhne and Jean Baptiste Faddoul	4459
<i>Simple Recurrent Units for Highly Parallelizable Recurrence</i>	
Tao Lei, Yu Zhang, Sida I. Wang, Hui Dai and Yoav Artzi	4470
<i>NPRF: A Neural Pseudo Relevance Feedback Framework for Ad-hoc Information Retrieval</i>	
Canjia Li, Yingfei Sun, Ben He, Le Wang, Kai Hui, Andrew Yates, Le Sun and Jungang Xu	4482
<i>Co-Stack Residual Affinity Networks with Multi-level Attention Refinement for Matching Text Sequences</i>	
Yi Tay, Anh Tuan Luu and Siu Cheung Hui	4492
<i>Spherical Latent Spaces for Stable Variational Autoencoders</i>	
Jiacheng Xu and Greg Durrett	4503
<i>Learning Universal Sentence Representations with Mean-Max Attention Autoencoder</i>	
Minghua Zhang, Yunfang Wu, Weikang Li and Wei Li	4514
<i>Word Mover's Embedding: From Word2Vec to Document Embedding</i>	
Lingfei Wu, Ian En-Hsu Yen, Kun Xu, Fangli Xu, Avinash Balakrishnan, Pin-Yu Chen, Pradeep Ravikumar and Michael J. Witbrock	4524
<i>Multilingual Clustering of Streaming News</i>	
Sebastião Miranda, Arturs Znotins, Shay B. Cohen and Guntis Barzdins	4535
<i>Multi-Task Label Embedding for Text Classification</i>	
Honglun Zhang, Liqiang Xiao, Wenqing Chen, Yongkun Wang and Yaohui Jin	4545
<i>Semantic-Unit-Based Dilated Convolution for Multi-Label Text Classification</i>	
Junyang Lin, Qi Su, Pengcheng Yang, Shuming Ma and Xu Sun	4554
<i>MCapsNet: Capsule Network for Text with Multi-Task Learning</i>	
Liqiang Xiao, Honglun Zhang, Wenqing Chen, Yongkun Wang and Yaohui Jin	4565
<i>Uncertainty-aware generative models for inferring document class prevalence</i>	
Katherine Keith and Brendan O'Connor	4575
<i>Challenges of Using Text Classifiers for Causal Inference</i>	
Zach Wood-Doughty, Ilya Shpitser and Mark Dredze	4586
<i>Direct Output Connection for a High-Rank Language Model</i>	
Sho Takase, Jun Suzuki and Masaaki Nagata	4599
<i>Disfluency Detection using Auto-Correlational Neural Networks</i>	
Paria Jamshid Lou, Peter Anderson and Mark Johnson	4610
<i>Pyramidal Recurrent Unit for Language Modeling</i>	
Sachin Mehta, Rik Koncel-Kedziorski, Mohammad Rastegari and Hannaneh Hajishirzi	4620
<i>On Tree-Based Neural Sentence Modeling</i>	
Haoyue Shi, Hao Zhou, Jiaze Chen and Lei Li	4631

<i>Language Modeling with Sparse Product of Sememe Experts</i>	
Yihong Gu, Jun Yan, Hao Zhu, Zhiyuan Liu, Ruobing Xie, Maosong Sun, Fen Lin and Leyu Lin	4642
<i>Siamese Network-Based Supervised Topic Modeling</i>	
Minghui Huang, Yanghui Rao, Yuwei Liu, Haoran Xie and Fu Lee Wang	4652
<i>GraphBTM: Graph Enhanced Autoencoded Variational Inference for Biterm Topic Model</i>	
Qile Zhu, Zheng Feng and Xiaolin Li	4663
<i>Modeling Online Discourse with Coupled Distributed Topics</i>	
Akshay Srivatsan, Zachary Wojtowicz and Taylor Berg-Kirkpatrick	4673
<i>Learning Disentangled Representations of Texts with Application to Biomedical Abstracts</i>	
Sarthak Jain, Edward Banner, Jan-Willem van de Meent, Iain J Marshall and Byron C. Wallace	4683
<i>Multi-Source Domain Adaptation with Mixture of Experts</i>	
Jiang Guo, Darsh Shah and Regina Barzilay	4694
<i>A Neural Model of Adaptation in Reading</i>	
Marten van Schijndel and Tal Linzen	4704
<i>Understanding Deep Learning Performance through an Examination of Test Set Difficulty: A Psychometric Case Study</i>	
John Lalor, Hao Wu, Tsendsuren Munkhdalai and Hong Yu	4711
<i>Lexicosyntactic Inference in Neural Models</i>	
Aaron Steven White, Rachel Rudinger, Kyle Rawlins and Benjamin Van Durme	4717
<i>Dual Fixed-Size Ordinally Forgetting Encoding (FOFE) for Competitive Neural Language Models</i>	
Sedtawut Watcharawittayakul, Mingbin Xu and Hui Jiang	4725
<i>The Importance of Being Recurrent for Modeling Hierarchical Structure</i>	
Ke Tran, Arianna Bisazza and Christof Monz	4731
<i>Joint Learning for Targeted Sentiment Analysis</i>	
Dehong Ma, Sujian Li and Houfeng Wang	4737
<i>Revisiting the Importance of Encoding Logic Rules in Sentiment Classification</i>	
Kalpesh Krishna, Preethi Jyothi and Mohit Iyyer	4743
<i>A Co-Attention Neural Network Model for Emotion Cause Analysis with Emotional Context Awareness</i>	
Xiangju Li, Kaisong Song, Shi Feng, Daling Wang and Yifei Zhang	4752
<i>Modeling Empathy and Distress in Reaction to News Stories</i>	
Sven Buechel, Anneke Buffone, Barry Slaff, Lyle Ungar and Joao Sedoc	4758
<i>Interpretable Emoji Prediction via Label-Wise Attention LSTMs</i>	
Francesco Barbieri, Luis Espinosa Anke, Jose Camacho-Collados, Steven Schockaert and Horacio Saggion	4766
<i>A Tree-based Decoder for Neural Machine Translation</i>	
Xinyi Wang, Hieu Pham, Pengcheng Yin and Graham Neubig	4772
<i>Greedy Search with Probabilistic N-gram Matching for Neural Machine Translation</i>	
Chenze Shao, Xilin Chen and Yang Feng	4778

<i>Exploring Recombination for Efficient Decoding of Neural Machine Translation</i>	
Zhisong Zhang, Rui Wang, Masao Utiyama, Eiichiro Sumita and Hai Zhao	4785
<i>Has Machine Translation Achieved Human Parity? A Case for Document-level Evaluation</i>	
Samuel Läubli, Rico Sennrich and Martin Volk	4791
<i>Automatic Reference-Based Evaluation of Pronoun Translation Misses the Point</i>	
Liane Guillou and Christian Hardmeier	4797
<i>FewRel: A Large-Scale Supervised Few-Shot Relation Classification Dataset with State-of-the-Art Evaluation</i>	
Xu Han, Hao Zhu, Pengfei Yu, Ziyun Wang, Yuan Yao, Zhiyuan Liu and Maosong Sun	4803
<i>A strong baseline for question relevancy ranking</i>	
Ana Gonzalez, Isabelle Augenstein and Anders Søgaard	4810
<i>Learning Sequence Encoders for Temporal Knowledge Graph Completion</i>	
Alberto Garcia-Duran, Sebastijan Dumančić and Mathias Niepert	4816
<i>Similar but not the Same: Word Sense Disambiguation Improves Event Detection via Neural Representation Matching</i>	
Weiye Lu and Thien Huu Nguyen	4822
<i>Learning Word Representations with Cross-Sentence Dependency for End-to-End Co-reference Resolution</i>	
Hongyin Luo and Jim Glass	4829
<i>Word Relation Autoencoder for Unseen Hypernym Extraction Using Word Embeddings</i>	
Hong-You Chen, Cheng-Syuan Lee, Keng-Te Liao and Shou-de Lin	4834
<i>Refining Pretrained Word Embeddings Using Layer-wise Relevance Propagation</i>	
Akira Utsumi	4840
<i>Learning Gender-Neutral Word Embeddings</i>	
Jieyu Zhao, Yichao Zhou, Zeyu Li, Wei Wang and Kai-Wei Chang	4847
<i>Learning Concept Abstractness Using Weak Supervision</i>	
Ella Rabinovich, Benjamin Sznajder, Artem Spector, Ilya Shnayderman, Ranit Aharonov, David Konopnicki and Noam Slonim	4854
<i>Word Sense Induction with Neural biLM and Symmetric Patterns</i>	
Asaf Amrami and Yoav Goldberg	4860
<i>InferLite: Simple Universal Sentence Representations from Natural Language Inference Data</i>	
Jamie Kiros and William Chan	4868
<i>Similarity-Based Reconstruction Loss for Meaning Representation</i>	
Olga Kovaleva, Anna Rumshisky and Alexey Romanov	4875
<i>What can we learn from Semantic Tagging?</i>	
Mostafa Abdou, Artur Kulmizev, Vinit Ravishankar, Lasha Abzianidze and Johan Bos	4881
<i>Conditional Word Embedding and Hypothesis Testing via Bayes-by-Backprop</i>	
Rujun Han, Michael Gill, Arthur Spirling and Kyunghyun Cho	4890

<i>Classifying Referential and Non-referential It Using Gaze</i>	
Victoria Yaneva, Le An Ha, Richard Evans and Ruslan Mitkov	4896
<i>State-of-the-art Chinese Word Segmentation with Bi-LSTMs</i>	
Ji Ma, Kuzman Ganchev and David Weiss	4902
<i>Sanskrit Sandhi Splitting using seq2(seq)2</i>	
Rahul Aralikkatte, Neelamadhav Gantayat, Naveen Panwar, Anush Sankaran and Senthil Mani	4909
<i>Unsupervised Neural Word Segmentation for Chinese via Segmental Language Modeling</i>	
Zhiqing Sun and Zhi-Hong Deng	4915
<i>LemmaTag: Jointly Tagging and Lemmatizing for Morphologically Rich Languages with BRNNs</i>	
Daniel Kondratyuk, Tomáš Gavenčiak, Milan Straka and Jan Hajič	4921
<i>Recovering Missing Characters in Old Hawaiian Writing</i>	
Brendan Shillingford and OIwi Parker Jones	4929
<i>When data permutations are pathological: the case of neural natural language inference</i>	
Natalie Schluter and Daniel Varab	4935
<i>Bridging Knowledge Gaps in Neural Entailment via Symbolic Models</i>	
Dongyeop Kang, Tushar Khot, Ashish Sabharwal and Peter Clark	4940
<i>The BQ Corpus: A Large-scale Domain-specific Chinese Corpus For Sentence Semantic Equivalence Identification</i>	
Jing Chen, Qingcai Chen, Xin Liu, Haijun Yang, Daohe Lu and Buzhou Tang	4946
<i>Interpreting Recurrent and Attention-Based Neural Models: a Case Study on Natural Language Inference</i>	
Reza Ghaeini, Xiaoli Fern and Prasad Tadepalli	4952
<i>Towards Semi-Supervised Learning for Deep Semantic Role Labeling</i>	
Sanket Vaibhav Mehta, Jay Yoon Lee and Jaime Carbonell	4958
<i>Identifying Domain Adjacent Instances for Semantic Parsers</i>	
James Ferguson, Janara Christensen, Edward Li and Edgar González	4964
<i>Mapping natural language commands to web elements</i>	
Panupong Pasupat, Tian-Shun Jiang, Evan Liu, Kelvin Guu and Percy Liang	4970
<i>Wronging a Right: Generating Better Errors to Improve Grammatical Error Detection</i>	
Sudhanshu Kasewa, Pontus Stenetorp and Sebastian Riedel	4977
<i>Modeling Input Uncertainty in Neural Network Dependency Parsing</i>	
Rob van der Goot and Gertjan van Noord	4984
<i>Parameter sharing between dependency parsers for related languages</i>	
Miryam de Lhoneux, Johannes Bjerva, Isabelle Augenstein and Anders Søgaard	4992
<i>Grammar Induction with Neural Language Models: An Unusual Replication</i>	
Phu Mon Htut, Kyunghyun Cho and Samuel Bowman	4998
<i>Data Augmentation via Dependency Tree Morphing for Low-Resource Languages</i>	
Gozde Gul Sahin and Mark Steedman	5004

<i>How Much Reading Does Reading Comprehension Require? A Critical Investigation of Popular Benchmarks</i>	
Divyansh Kaushik and Zachary C. Lipton	5010
<i>MultiWOZ - A Large-Scale Multi-Domain Wizard-of-Oz Dataset for Task-Oriented Dialogue Modelling</i>	
Paweł Budzianowski, Tsung-Hsien Wen, Bo-Hsiang Tseng, Iñigo Casanueva, Stefan Ultes, Osman Ramadan and Milica Gasic	5016
<i>Linguistically-Informed Self-Attention for Semantic Role Labeling</i>	
Emma Strubell, Patrick Verga, Daniel Andor, David Weiss and Andrew McCallum	5027
<i>Phrase-Based & Neural Unsupervised Machine Translation</i>	
Guillaume Lample, Myle Ott, Alexis Conneau, Ludovic Denoyer and Marc’Aurelio Ranzato .	5039

Conference Program

Friday, November 2, 2018

09:00–09:30 *Opening remarks (Gold Hall)*

09:30–10:30 *Keynote I: Julia Hirschberg "Truth or Lie? Spoken Indicators of Deception in Speech" (Gold Hall)*

10:30–11:00 *Coffee Break*

11:00–12:30 *Long Papers and Demos (Orals and Posters) I*

Session 1A: Social Applications I (Gold Hall)

11:00–11:18 *Privacy-preserving Neural Representations of Text*
Maximin Coavoux, Shashi Narayan and Shay B. Cohen

11:18–11:36 *Adversarial Removal of Demographic Attributes from Text Data*
Yanai Elazar and Yoav Goldberg

11:36–11:54 *DeClarE: Debunking Fake News and False Claims using Evidence-Aware Deep Learning*
Kashyap Popat, Subhabrata Mukherjee, Andrew Yates and Gerhard Weikum

11:54–12:12 *It's going to be okay: Measuring Access to Support in Online Communities*
Zijian Wang and David Jurgens

12:12–12:30 *Detecting Gang-Involved Escalation on Social Media Using Context*
Serina Chang, Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond Patton, William Frey, Chris Kedzie and Kathy McKeown

Friday, November 2, 2018 (continued)

Session 1B: Semantics I (Copper Hall)

- 11:00–11:18 *Reasoning about Actions and State Changes by Injecting Commonsense Knowledge*
Niket Tandon, Bhavana Dalvi, Joel Grus, Wen-tau Yih, Antoine Bosselut and Peter Clark
- 11:18–11:36 *Collecting Diverse Natural Language Inference Problems for Sentence Representation Evaluation*
Adam Poliak, Aparajita Haldar, Rachel Rudinger, J. Edward Hu, Ellie Pavlick, Aaron Steven White and Benjamin Van Durme
- 11:36–11:54 *Textual Analogy Parsing: What’s Shared and What’s Compared among Analogous Facts*
Matthew Lamm, Arun Chaganty, Christopher D. Manning, Dan Jurafsky and Percy Liang
- 11:54–12:12 *SWAG: A Large-Scale Adversarial Dataset for Grounded Commonsense Inference*
Rowan Zellers, Yonatan Bisk, Roy Schwartz and Yejin Choi
- 12:12–12:30 *TwoWingOS: A Two-Wing Optimization Strategy for Evidential Claim Verification*
Wenpeng Yin and Dan Roth

Session 1C: Vision (Silver Hall)

- 11:00–11:18 *Associative Multichannel Autoencoder for Multimodal Word Representation*
Shaonan Wang, Jiajun Zhang and Chengqing Zong
- 11:18–11:36 *Game-Based Video-Context Dialogue*
Ramakanth Pasunuru and Mohit Bansal
- 11:36–11:54 *simNet: Stepwise Image-Topic Merging Network for Generating Detailed and Comprehensive Image Captions*
Fenglin Liu, Xuancheng Ren, Yuanxin Liu, Houfeng Wang and Xu Sun
- 11:54–12:12 *Multimodal Language Analysis with Recurrent Multistage Fusion*
Paul Pu Liang, Ziyin Liu, AmirAli Bagher Zadeh and Louis-Philippe Morency
- 12:12–12:30 *Temporally Grounding Natural Sentence in Video*
Jingyuan Chen, Xinpeng Chen, Lin Ma, Zequn Jie and Tat-Seng Chua

Friday, November 2, 2018 (continued)

Session 1D: Entities and Coreference (Hall 100)

- 11:00–11:18 *PreCo: A Large-scale Dataset in Preschool Vocabulary for Coreference Resolution*
Hong Chen, Zhenhua Fan, Hao Lu, Alan Yuille and Shu Rong
- 11:18–11:36 *Adversarial Transfer Learning for Chinese Named Entity Recognition with Self-Attention Mechanism*
Pengfei Cao, Yubo Chen, Kang Liu, Jun Zhao and Shengping Liu
- 11:36–11:54 *Using Linguistic Features to Improve the Generalization Capability of Neural Coreference Resolvers*
Nafise Sadat Moosavi and Michael Strube
- 11:54–12:12 *Neural Segmental Hypergraphs for Overlapping Mention Recognition*
Bailin Wang and Wei Lu
- 12:12–12:30 *Variational Sequential Labelers for Semi-Supervised Learning*
Mingda Chen, Qingming Tang, Karen Livescu and Kevin Gimpel

Session 1E: Machine Translation and Multilingual Methods (Posters and Demos, Grand Hall 2)

Joint Representation Learning of Cross-lingual Words and Entities via Attentive Distant Supervision
Yixin Cao, Lei Hou, Juanzi Li, Zhiyuan Liu, Chengjiang Li, Xu Chen and Tiansi Dong

Deep Pivot-Based Modeling for Cross-language Cross-domain Transfer with Minimal Guidance
Yftah Ziser and Roi Reichart

Multi-lingual Common Semantic Space Construction via Cluster-consistent Word Embedding
Lifu Huang, Kyunghyun Cho, Boliang Zhang, Heng Ji and Kevin Knight

Unsupervised Multilingual Word Embeddings
Xilun Chen and Claire Cardie

CLUSE: Cross-Lingual Unsupervised Sense Embeddings
Ta Chung Chi and Yun-Nung Chen

Friday, November 2, 2018 (continued)

Adversarial Propagation and Zero-Shot Cross-Lingual Transfer of Word Vector Specialization

Edoardo Maria Ponti, Ivan Vulić, Goran Glavaš, Nikola Mrkšić and Anna Korhonen

Improving Cross-Lingual Word Embeddings by Meeting in the Middle

Yerai Doval, Jose Camacho-Collados, Luis Espinosa Anke and Steven Schockaert

WikiAtomicEdits: A Multilingual Corpus of Wikipedia Edits for Modeling Language and Discourse

Manaal Faruqui, Ellie Pavlick, Ian Tenney and Dipanjan Das

On the Relation between Linguistic Typology and (Limitations of) Multilingual Language Modeling

Daniela Gerz, Ivan Vulić, Edoardo Maria Ponti, Roi Reichart and Anna Korhonen

A Fast, Compact, Accurate Model for Language Identification of Codemixed Text

Yuan Zhang, Jason Riesa, Daniel Gillick, Anton Bakalov, Jason Baldridge and David Weiss

Personalized Microblog Sentiment Classification via Adversarial Cross-lingual Multi-task Learning

Weichao Wang, Shi Feng, Wei Gao, Daling Wang and Yifei Zhang

Cross-lingual Knowledge Graph Alignment via Graph Convolutional Networks

Zhichun Wang, Qingsong Lv, Xiaohan Lan and Yu Zhang

Cross-lingual Lexical Sememe Prediction

Fanchao Qi, Yankai Lin, Maosong Sun, Hao Zhu, Ruobing Xie and Zhiyuan Liu

Neural Cross-Lingual Named Entity Recognition with Minimal Resources

Jiateng Xie, Zhilin Yang, Graham Neubig, Noah A. Smith and Jaime Carbonell

A Stable and Effective Learning Strategy for Trainable Greedy Decoding

Yun Chen, Victor O.K. Li, Kyunghyun Cho and Samuel Bowman

Addressing Troublesome Words in Neural Machine Translation

Yang Zhao, Jiajun Zhang, Zhongjun He, Chengqing Zong and Hua Wu

Top-down Tree Structured Decoding with Syntactic Connections for Neural Machine Translation and Parsing

Jetic Gū, Hassan S. Shavarani and Anoop Sarkar

Friday, November 2, 2018 (continued)

XL-NBT: A Cross-lingual Neural Belief Tracking Framework

Wenhu Chen, Jianshu Chen, Yu Su, Xin Wang, Dong Yu, Xifeng Yan and William Yang Wang

Contextual Parameter Generation for Universal Neural Machine Translation

Emmanouil Antonios Platanios, Mrinmaya Sachan, Graham Neubig and Tom Mitchell

Back-Translation Sampling by Targeting Difficult Words in Neural Machine Translation

Marzieh Fadaee and Christof Monz

Multi-Domain Neural Machine Translation with Word-Level Domain Context Discrimination

Jiali Zeng, Jinsong Su, Huating Wen, Yang Liu, Jun Xie, Yongjing Yin and Jianqiang Zhao

A Discriminative Latent-Variable Model for Bilingual Lexicon Induction

Sebastian Ruder, Ryan Cotterell, Yova Kementchedjieva and Anders Søgaard

Non-Adversarial Unsupervised Word Translation

Yedid Hoshen and Lior Wolf

Semi-Autoregressive Neural Machine Translation

Chunqi Wang, Ji Zhang and Haiqing Chen

Understanding Back-Translation at Scale

Sergey Edunov, Myle Ott, Michael Auli and David Grangier

Bootstrapping Transliteration with Constrained Discovery for Low-Resource Languages

Shyam Upadhyay, Jordan Kodner and Dan Roth

NORMA: Neighborhood Sensitive Maps for Multilingual Word Embeddings

Ndapa Nakashole

Adaptive Multi-pass Decoder for Neural Machine Translation

Xinwei Geng, Xiaocheng Feng, Bing Qin and Ting Liu

Improving the Transformer Translation Model with Document-Level Context

Jiacheng Zhang, Huanbo Luan, Maosong Sun, Feifei Zhai, Jingfang Xu, Min Zhang and Yang Liu

Friday, November 2, 2018 (continued)

MTNT: A Testbed for Machine Translation of Noisy Text

Paul Michel and Graham Neubig

Demo: CytonMT: an Efficient Neural Machine Translation Open-source Toolkit
Implemented in C++

Xiaolin Wang, Masao Utiyama, and Eiichiro Sumita

Demo: SentencePiece: A simple and language independent subword tokenizer and
detokenizer for Neural Text Processing

Taku Kudo and John Richardson

12:30–13:45 *Lunch*

13:45–14:45 *Short Papers (Orals and Posters) I*

Session 2A: Question Answering I (Gold Hall)

13:45–13:57 *SimpleQuestions Nearly Solved: A New Upperbound and Baseline Approach*

Michael Petrochuk and Luke Zettlemoyer

13:57–14:09 *Phrase-Indexed Question Answering: A New Challenge for Scalable Document
Comprehension*

Minjoon Seo, Tom Kwiatkowski, Ankur Parikh, Ali Farhadi and Hannaneh Hajishirzi

14:09–14:21 *Ranking Paragraphs for Improving Answer Recall in Open-Domain Question An-
swering*

Jinhyuk Lee, Seongjun Yun, Hyunjae Kim, Miyoung Ko and Jaewoo Kang

14:21–14:33 *Cut to the Chase: A Context Zoom-in Network for Reading Comprehension*

Sathish Reddy Indurthi, Seunghak Yu, Seohyun Back and Heriberto Cuayahuitl

14:33–14:45 *Adaptive Document Retrieval for Deep Question Answering*

Bernhard Kratzwald and Stefan Feuerriegel

Friday, November 2, 2018 (continued)

Session 2B: Semantics II (Copper Hall)

- 13:45–13:57 *Why is unsupervised alignment of English embeddings from different algorithms so hard?*
Mareike Hartmann, Yova Kementchedjhieva and Anders Søgaard
- 13:57–14:09 *Quantifying Context Overlap for Training Word Embeddings*
Yimeng Zhuang, Jinghui Xie, Yinhe Zheng and Xuan Zhu
- 14:09–14:21 *Neural Latent Relational Analysis to Capture Lexical Semantic Relations in a Vector Space*
Koki Washio and Tsuneaki Kato
- 14:21–14:33 *Generalizing Word Embeddings using Bag of Subwords*
Jinman Zhao, Sidharth Mudgal and Yingyu Liang
- 14:33–14:45 *Neural Metaphor Detection in Context*
Ge Gao, Eunsol Choi, Yejin Choi and Luke Zettlemoyer

Session 2C: Multilingual Methods I (Silver Hall)

- 13:45–13:57 *Distant Supervision from Disparate Sources for Low-Resource Part-of-Speech Tagging*
Barbara Plank and Željko Agić
- 13:57–14:09 *Unsupervised Bilingual Lexicon Induction via Latent Variable Models*
Zi-Yi Dou, Zhi-Hao Zhou and Shujian Huang
- 14:09–14:21 *Learning Unsupervised Word Translations Without Adversaries*
Tanmoy Mukherjee, Makoto Yamada and Timothy Hospedales
- 14:21–14:33 *Adversarial Training for Multi-task and Multi-lingual Joint Modeling of Utterance Intent Classification*
Ryo Masumura, Yusuke Shinohara, Ryuichiro Higashinaka and Yushi Aono
- 14:33–14:45 *Surprisingly Easy Hard-Attention for Sequence to Sequence Learning*
Shiv Shankar, Siddhant Garg and Sunita Sarawagi

Friday, November 2, 2018 (continued)

Session 2D: Social Media (Hall 100)

- 13:45–13:57 *Joint Learning for Emotion Classification and Emotion Cause Detection*
Ying Chen, Wenjun Hou, Xiyao Cheng and Shoushan Li
- 13:57–14:09 *Exploring Optimism and Pessimism in Twitter Using Deep Learning*
Cornelia Caragea, Liviu P. Dinu and Bogdan Dumitru
- 14:09–14:21 *Predicting News Headline Popularity with Syntactic and Semantic Knowledge Using Multi-Task Learning*
Sotiris Lamprinidis, Daniel Hardt and Dirk Hovy
- 14:21–14:33 *Hybrid Neural Attention for Agreement/Disagreement Inference in Online Debates*
Di Chen, Jiachen Du, Lidong Bing and Ruifeng Xu
- 14:33–14:45 *Increasing In-Class Similarity by Retrofitting Embeddings with Demographic Information*
Dirk Hovy and Tommaso Fornaciari

Session 2E: Short Posters I (Grand Hall 2)

- A Syntactically Constrained Bidirectional-Asynchronous Approach for Emotional Conversation Generation*
Jingyuan Li and Xiao Sun
- Auto-Dialabel: Labeling Dialogue Data with Unsupervised Learning*
Chen Shi, Qi Chen, Lei Sha, Sujian Li, Xu Sun, Houfeng Wang and Lintao Zhang
- Extending Neural Generative Conversational Model using External Knowledge Sources*
Prasanna Parthasarathi and Joelle Pineau
- Modeling Temporality of Human Intentions by Domain Adaptation*
Xiaolei Huang, Lixing Liu, Kate Carey, Joshua Woolley, Stefan Scherer and Brian Borsari
- An Auto-Encoder Matching Model for Learning Utterance-Level Semantic Dependency in Dialogue Generation*
Liangchen Luo, Jingjing Xu, Junyang Lin, Qi Zeng and Xu Sun

Friday, November 2, 2018 (continued)

A Dataset for Document Grounded Conversations

Kangyan Zhou, Shrimai Prabhumoye and Alan W Black

Out-of-domain Detection based on Generative Adversarial Network

Seonghan Ryu, Sangjun Koo, Hwanjo Yu and Gary Geunbae Lee

Listening Comprehension over Argumentative Content

Shachar Mirkin, Guy Moshkovich, Matan Orbach, Lili Kotlerman, Yoav Kantor, Tamar Lavee, Michal Jacovi, Yonatan Bilu, Ranit Aharonov and Noam Slonim

Using active learning to expand training data for implicit discourse relation recognition

Yang Xu, Yu Hong, Huibin Ruan, Jianmin Yao, Min Zhang and Guodong Zhou

Learning To Split and Rephrase From Wikipedia Edit History

Jan A. Botha, Manaal Faruqui, John Alex, Jason Baldridge and Dipanjan Das

BLEU is Not Suitable for the Evaluation of Text Simplification

Elior Sulem, Omri Abend and Ari Rappoport

S2SPMN: A Simple and Effective Framework for Response Generation with Relevant Information

Jiaxin Pei and Chenliang Li

Improving Reinforcement Learning Based Image Captioning with Natural Language Prior

Tszhang Guo, Shiyu Chang, Mo Yu and Kun Bai

Training for Diversity in Image Paragraph Captioning

Luke Melas-Kyriazi, Alexander Rush and George Han

A Graph-theoretic Summary Evaluation for ROUGE

Elaheh ShafieiBavani, Mohammad Ebrahimi, Raymond Wong and Fang Chen

Guided Neural Language Generation for Abstractive Summarization using Abstract Meaning Representation

Hardy Hardy and Andreas Vlachos

Evaluating Multiple System Summary Lengths: A Case Study

Ori Shapira, David Gabay, Hadar Ronen, Judit Bar-Ilan, Yael Amsterdamer, Ani Nenkova and Ido Dagan

Friday, November 2, 2018 (continued)

Neural Latent Extractive Document Summarization

Xingxing Zhang, Mirella Lapata, Furu Wei and Ming Zhou

On the Abtractiveness of Neural Document Summarization

Fangfang Zhang, Jin-ge Yao and Rui Yan

Automatic Essay Scoring Incorporating Rating Schema via Reinforcement Learning

Yucheng Wang, Zhongyu Wei, Yaqian Zhou and Xuanjing Huang

Identifying Well-formed Natural Language Questions

Manaal Faruqui and Dipanjan Das

15:00–15:12 *Self-Governing Neural Networks for On-Device Short Text Classification*

Sujith Ravi and Zornitsa Kozareva

HFT-CNN: Learning Hierarchical Category Structure for Multi-label Short Text Categorization

Kazuya Shimura, Jiye Li and Fumiyo Fukumoto

A Hierarchical Neural Attention-based Text Classifier

Koustuv Sinha, Yue Dong, Jackie Chi Kit Cheung and Derek Ruths

Labeled Anchors and a Scalable, Transparent, and Interactive Classifier

Jeffrey Lund, Stephen Cowley, Wilson Fearn, Emily Hales and Kevin Seppi

Coherence-Aware Neural Topic Modeling

Ran Ding, Ramesh Nallapati and Bing Xiang

Utilizing Character and Word Embeddings for Text Normalization with Sequence-to-Sequence Models

Daniel Watson, Nasser Zalmout and Nizar Habash

Topic Intrusion for Automatic Topic Model Evaluation

Shraey Bhatia, Jey Han Lau and Timothy Baldwin

Supervised and Unsupervised Methods for Robust Separation of Section Titles and Prose Text in Web Documents

Abhijith Athreya Mysore Gopinath, Shomir Wilson and Norman Sadeh

Friday, November 2, 2018 (continued)

14:45–15:00 *Mini-Break*

15:00–16:00 *Short Papers (Orals and Posters) II*

Session 3A: Machine Translation I (Gold Hall)

- 15:00–15:12 *SwitchOut: an Efficient Data Augmentation Algorithm for Neural Machine Translation*
Xinyi Wang, Hieu Pham, Zihang Dai and Graham Neubig
- 15:12–15:24 *Improving Unsupervised Word-by-Word Translation with Language Model and Denoising Autoencoder*
Yunsu Kim, Jiahui Geng and Hermann Ney
- 15:24–15:36 *Decipherment of Substitution Ciphers with Neural Language Models*
Nishant Kambhatla, Anahita Mansouri Bigvand and Anoop Sarkar
- 15:36–15:48 *Rapid Adaptation of Neural Machine Translation to New Languages*
Graham Neubig and Junjie Hu
- 15:48–16:00 *Compact Personalized Models for Neural Machine Translation*
Joern Wuebker, Patrick Simianer and John DeNero

Session 3B: Machine Learning I (Copper Hall)

- 15:00–15:12 *Self-Governing Neural Networks for On-Device Short Text Classification*
Sujith Ravi and Zornitsa Kozareva
- 15:12–15:24 *Supervised Domain Enablement Attention for Personalized Domain Classification*
Joo-Kyung Kim and Young-Bum Kim
- 15:24–15:36 *A Deep Neural Network Sentence Level Classification Method with Context Information*
Xingyi Song, Johann Petrak and Angus Roberts

Friday, November 2, 2018 (continued)

15:36–15:48 *Towards Dynamic Computation Graphs via Sparse Latent Structure*
Vlad Niculae, André F. T. Martins and Claire Cardie

15:48–16:00 *Convolutional Neural Networks with Recurrent Neural Filters*
Yi Yang

Session 3C: Semantic Parsing / Generation (Silver Hall)

15:00–15:12 *Exploiting Rich Syntactic Information for Semantic Parsing with Graph-to-Sequence Model*
Kun Xu, Lingfei Wu, Zhiguo Wang, Mo Yu, Liwei Chen and Vadim Sheinin

15:12–15:24 *Retrieval-Based Neural Code Generation*
Shirley Anugrah Hayati, Raphael Olivier, Pravalika Avvaru, Pengcheng Yin, Anthony Tomasic and Graham Neubig

15:24–15:36 *SQL-to-Text Generation with Graph-to-Sequence Model*
Kun Xu, Lingfei Wu, Zhiguo Wang, Yansong Feng and Vadim Sheinin

15:36–15:48 *Generating Syntactic Paraphrases*
Emilie Colin and Claire Gardent

15:48–16:00 *Neural-Davidsonian Semantic Proto-role Labeling*
Rachel Rudinger, Adam Teichert, Ryan Culkin, Sheng Zhang and Benjamin Van Durme

Friday, November 2, 2018 (continued)

Session 3D: Vision / Discourse (Hall 100)

- 15:00–15:12 *Conversational Decision-Making Model for Predicting the King’s Decision in the Annals of the Joseon Dynasty*
JinYeong Bak and Alice Oh
- 15:12–15:24 *Toward Fast and Accurate Neural Discourse Segmentation*
Yizhong Wang, Sujian Li and Jingfeng Yang
- 15:24–15:36 *A Dataset for Telling the Stories of Social Media Videos*
Spandana Gella, Mike Lewis and Marcus Rohrbach
- 15:36–15:48 *Cascaded Mutual Modulation for Visual Reasoning*
Yiqun Yao, Jiaming Xu, Feng Wang and Bo Xu
- 15:48–16:00 *How agents see things: On visual representations in an emergent language game*
Diane Bouchacourt and Marco Baroni

Session 3E: Short Posters II (Grand Hall 2)

- Attention-Based Capsule Networks with Dynamic Routing for Relation Extraction*
Ningyu Zhang, Shumin Deng, Zhanling Sun, Xi Chen, Wei Zhang and Huajun Chen
- Put It Back: Entity Typing with Language Model Enhancement*
Ji Xin, Hao Zhu, Xu Han, Zhiyuan Liu and Maosong Sun
- Event Detection with Neural Networks: A Rigorous Empirical Evaluation*
Walker Orr, Prasad Tadepalli and Xiaoli Fern
- PubSE: A Hierarchical Model for Publication Extraction from Academic Home-pages*
Yiqing Zhang, Jianzhong Qi, Rui Zhang and Chuandong Yin
- A Neural Transition-based Model for Nested Mention Recognition*
Bailin Wang, Wei Lu, Yu Wang and Hongxia Jin

Friday, November 2, 2018 (continued)

Genre Separation Network with Adversarial Training for Cross-genre Relation Extraction

Ge Shi, Chong Feng, Lifu Huang, Boliang Zhang, Heng Ji, Lejian Liao and Heyan Huang

Effective Use of Context in Noisy Entity Linking

David Mueller and Greg Durrett

Exploiting Contextual Information via Dynamic Memory Network for Event Detection

Shaobo Liu, Rui Cheng, Xiaoming Yu and Xueqi Cheng

Do explanations make VQA models more predictable to a human?

Arjun Chandrasekaran, Viraj Prabhu, Deshraj Yadav, Prithvijit Chattopadhyay and Devi Parikh

Facts That Matter

Marco Ponza, Luciano Del Corro and Gerhard Weikum

Entity Tracking Improves Cloze-style Reading Comprehension

Luong Hoang, Sam Wiseman and Alexander Rush

Adversarial Domain Adaptation for Duplicate Question Detection

Darsh Shah, Tao Lei, Alessandro Moschitti, Salvatore Romeo and Preslav Nakov

Translating a Math Word Problem to a Expression Tree

Lei Wang, Yan Wang, Deng Cai, Dongxiang Zhang and Xiaojiang Liu

Semantic Linking in Convolutional Neural Networks for Answer Sentence Selection

Massimo Nicosia and Alessandro Moschitti

A dataset and baselines for sequential open-domain question answering

Ahmed Elgohary, Chen Zhao and Jordan Boyd-Graber

Improving the results of string kernels in sentiment analysis and Arabic dialect identification by adapting them to your test set

Radu Tudor Ionescu and Andrei M. Butnaru

Parameterized Convolutional Neural Networks for Aspect Level Sentiment Classification

Binxuan Huang and Kathleen Carley

Friday, November 2, 2018 (continued)

Improving Multi-label Emotion Classification via Sentiment Classification with Dual Attention Transfer Network

Jianfei Yu, Luis Marujo, Jing Jiang, Pradeep Karuturi and William Brendel

Learning Sentiment Memories for Sentiment Modification without Parallel Data

Yi Zhang, Jingjing Xu, Pengcheng Yang and Xu Sun

Joint Aspect and Polarity Classification for Aspect-based Sentiment Analysis with End-to-End Neural Networks

Martin Schmitt, Simon Steinheber, Konrad Schreiber and Benjamin Roth

Representing Social Media Users for Sarcasm Detection

Y. Alex Kolchinski and Christopher Potts

Syntactical Analysis of the Weaknesses of Sentiment Analyzers

Rohil Verma, Samuel Kim and David Walter

Is Nike female? Exploring the role of sound symbolism in predicting brand name gender

Sridhar Moorthy, Ruth Pogacar, Samin Khan and Yang Xu

Improving Large-Scale Fact-Checking using Decomposable Attention Models and Lexical Tagging

Nayeon Lee, Chien-Sheng Wu and Pascale Fung

Harnessing Popularity in Social Media for Extractive Summarization of Online Conversations

Ryuji Kano, Yasuhide Miura, Motoki Taniguchi, Yan-Ying Chen, Francine Chen and Tomoko Ohkuma

Identifying Locus of Control in Social Media Language

Masoud Rouhizadeh, Kokil Jaidka, Laura Smith, H. Andrew Schwartz, Anneke Buffone and Lyle Ungar

Somm: Into the Model

Shengli Hu

Fine-Grained Emotion Detection in Health-Related Online Posts

Hamed Khanpour and Cornelia Caragea

The Remarkable Benefit of User-Level Aggregation for Lexical-based Population-Level Predictions

Salvatore Giorgi, Daniel Preotjuc-Pietro, Anneke Buffone, Daniel Rieman, Lyle Ungar and H. Andrew Schwartz

Friday, November 2, 2018 (continued)

16:00–16:30 *Coffee Break*

16:30–18:00 *Long Papers and Demos (Orals and Posters) II*

Session 4A: Language Models (Gold Hall)

- 16:30–16:48 *Deterministic Non-Autoregressive Neural Sequence Modeling by Iterative Refinement*
Jason Lee, Elman Mansimov and Kyunghyun Cho
- 16:48–17:06 *Large Margin Neural Language Model*
Jiaji Huang, Yi Li, Wei Ping and Liang Huang
- 17:06–17:24 *Targeted Syntactic Evaluation of Language Models*
Rebecca Marvin and Tal Linzen
- 17:24–17:42 *Rational Recurrences*
Hao Peng, Roy Schwartz, Sam Thomson and Noah A. Smith
- 17:42–18:00 *Efficient Contextualized Representation: Language Model Pruning for Sequence Labeling*
Liyuan Liu, Xiang Ren, Jingbo Shang, Xiaotao Gu, Jian Peng and Jiawei Han

Session 4B: Information Extraction (Copper Hall)

- 16:30–16:48 *Automatic Event Saliency Identification*
Zhengzhong Liu, Chenyan Xiong, Teruko Mitamura and Eduard Hovy
- 16:48–17:06 *Temporal Information Extraction by Predicting Relative Time-lines*
Artuur Leeuwenberg and Marie-Francine Moens
- 17:06–17:24 *Jointly Multiple Events Extraction via Attention-based Graph Information Aggregation*
Xiao Liu, Zhunchen Luo and Heyan Huang

Friday, November 2, 2018 (continued)

17:24–17:42 *RESIDE: Improving Distantly-Supervised Neural Relation Extraction using Side Information*

Shikhar Vashishth, Rishabh Joshi, Sai Suman Prayaga, Chiranjib Bhattacharyya and Partha Talukdar

17:42–18:00 *Collective Event Detection via a Hierarchical and Bias Tagging Networks with Gated Multi-level Attention Mechanisms*

Yubo Chen, Hang Yang, Kang Liu, Jun Zhao and Yantao Jia

Session 4C: Syntactic Parsing (Silver Hall)

16:30–16:48 *Valency-Augmented Dependency Parsing*

Tianze Shi and Lillian Lee

16:48–17:06 *Unsupervised Learning of Syntactic Structure with Invertible Neural Projections*

Junxian He, Graham Neubig and Taylor Berg-Kirkpatrick

17:06–17:24 *Dynamic Oracles for Top-Down and In-Order Shift-Reduce Constituent Parsing*

Daniel Fernández-González and Carlos Gómez-Rodríguez

17:24–17:42 *Constituent Parsing as Sequence Labeling*

Carlos Gómez-Rodríguez and David Vilares

17:42–18:00 *Synthetic Data Made to Order: The Case of Parsing*

Dingquan Wang and Jason Eisner

Friday, November 2, 2018 (continued)

Session 4D: Visual QA (Hall 100)

- 16:30–16:48 *Tell-and-Answer: Towards Explainable Visual Question Answering using Attributes and Captions*
Qing Li, Jianlong Fu, Dongfei Yu, Tao Mei and Jiebo Luo
- 16:48–17:06 *Learning a Policy for Opportunistic Active Learning*
Aishwarya Padmakumar, Peter Stone and Raymond Mooney
- 17:06–17:24 *RecipeQA: A Challenge Dataset for Multimodal Comprehension of Cooking Recipes*
Semih Yagcioglu, Aykut Erdem, Erkut Erdem and Nazli Ikizler-Cinbis
- 17:24–17:42 *TVQA: Localized, Compositional Video Question Answering*
Jie Lei, Licheng Yu, Mohit Bansal and Tamara Berg
- 17:42–18:00 *Localizing Moments in Video with Temporal Language*
Lisa Anne Hendricks, Oliver Wang, Eli Shechtman, Josef Sivic, Trevor Darrell and Bryan Russell

Session 4E: Semantics III (Posters and Demos, Grand Hall 2)

- Card-660: Cambridge Rare Word Dataset - a Reliable Benchmark for Infrequent Word Representation Models*
Mohammad Taher Pilehvar, Dimitri Kartsaklis, Victor Prokhorov and Nigel Collier
- Leveraging Gloss Knowledge in Neural Word Sense Disambiguation by Hierarchical Co-Attention*
Fuli Luo, Tianyu Liu, Zexue He, Qiaolin Xia, Zhifang Sui and Baobao Chang
- Weeding out Conventionalized Metaphors: A Corpus of Novel Metaphor Annotations*
Erik-Lân Do Dinh, Hannah Wieland and Iryna Gurevych
- Streaming word similarity mining on the cheap*
Olof Görnerup and Daniel Gillblad
- Memory, Show the Way: Memory Based Few Shot Word Representation Learning*
Jingyuan Sun, Shaonan Wang and Chengqing Zong

Friday, November 2, 2018 (continued)

Disambiguated skip-gram model

Karol Grzegorzczak and Marcin Kurdziel

Picking Apart Story Salads

Su Wang, Eric Holgate, Greg Durrett and Katrin Erk

Dynamic Meta-Embeddings for Improved Sentence Representations

Douwe Kiela, Chaghan Wang and Kyunghyun Cho

A Probabilistic Model for Joint Learning of Word Embeddings from Texts and Images

Melissa Ailem, Bowen Zhang, Aurélien Bellet, Pascal Denis and Fei Sha

Transfer and Multi-Task Learning for Noun–Noun Compound Interpretation

Murhaf Fares, Stephan Oepen and Erik Velldal

Dissecting Contextual Word Embeddings: Architecture and Representation

Matthew Peters, Mark Neumann, Luke Zettlemoyer and Wen-tau Yih

Preposition Sense Disambiguation and Representation

Hongyu Gong, Jiaqi Mu, Suma Bhat and Pramod Viswanath

Auto-Encoding Dictionary Definitions into Consistent Word Embeddings

Tom Bosc and Pascal Vincent

Spot the Odd Man Out: Exploring the Associative Power of Lexical Resources

Gabriel Stanovsky and Mark Hopkins

Friday, November 2, 2018 (continued)

(TACL) Linear Algebraic Structure of Word Senses, with Applications to Polysemy
Sanjeev Arora, Yuanzhi Li, Yingyu Liang, Tengyu Ma, and Andrej Risteski

Neural Multitask Learning for Simile Recognition

Lizhen Liu, Xiao Hu, Wei Song, Ruiji Fu, Ting Liu and Guoping Hu

Structured Alignment Networks for Matching Sentences

Yang Liu, Matt Gardner and Mirella Lapata

Compare, Compress and Propagate: Enhancing Neural Architectures with Alignment Factorization for Natural Language Inference

Yi Tay, Anh Tuan Luu and Siu Cheung Hui

Convolutional Interaction Network for Natural Language Inference

Jingjing Gong, Xipeng Qiu, Xinchu Chen, Dong Liang and Xuanjing Huang

Lessons from Natural Language Inference in the Clinical Domain

Alexey Romanov and Chaitanya Shivade

Question Generation from SQL Queries Improves Neural Semantic Parsing

Daya Guo, Yibo Sun, Duyu Tang, Nan Duan, Jian Yin, Hong Chi, James Cao, Peng Chen and Ming Zhou

SemRegex: A Semantics-Based Approach for Generating Regular Expressions from Natural Language Specifications

Zexuan Zhong, Jiaqi Guo, Wei Yang, Jian Peng, Tao Xie, Jian-Guang Lou, Ting Liu and Dongmei Zhang

Decoupling Structure and Lexicon for Zero-Shot Semantic Parsing

Jonathan Herzig and Jonathan Berant

A Span Selection Model for Semantic Role Labeling

Hiroki Ouchi, Hiroyuki Shindo and Yuji Matsumoto

Mapping Language to Code in Programmatic Context

Srinivasan Iyer, Ioannis Konstas, Alvin Cheung and Luke Zettlemoyer

SyntaxSQLNet: Syntax Tree Networks for Complex and Cross-Domain Text-to-SQL Task

Tao Yu, Michihiro Yasunaga, Kai Yang, Rui Zhang, Dongxu Wang, Zifan Li and Dragomir Radev

Friday, November 2, 2018 (continued)

Cross-lingual Decompositional Semantic Parsing

Sheng Zhang, Xutai Ma, Rachel Rudinger, Kevin Duh and Benjamin Van Durme

Learning to Learn Semantic Parsers from Natural Language Supervision

Igor Labutov, Bishan Yang and Tom Mitchell

DeepCx: A transition-based approach for shallow semantic parsing with complex constructional triggers

Jesse Dunietz, Jaime Carbonell and Lori Levin

What It Takes to Achieve 100% Condition Accuracy on WikiSQL

Semih Yavuz, Izzeddin Gur, Yu Su and Xifeng Yan

Better Transition-Based AMR Parsing with a Refined Search Space

Zhijiang Guo and Wei Lu

Demo: TRANX: A Transition-based Neural Abstract Syntax Parser for Semantic Parsing and Code Generation

Xiaolin Wang, Masao Utiyama, and Eiichiro Sumita

Demo: Visual Interrogation of Attention-Based Models for Natural Language Inference and Machine Comprehension

Shusen Liu, Tao Li, Zhimin Liu, Vivek Srikumar, Valerio Pascucci, and Peer-Timo Bremer

Demo: Magnitude: A Fast, Efficient Universal Vector Embedding Utility Package

Ajay Patel, Alexander Sands, Chris Callison-Burch, and Marianna Apidianaki

Demo: Universal Sentence Encoder for English

Daniel Cer, Yinfei Yang, Sheng-yi Kong, Nan Hua, Nicole Limtiaco, Rhomni St. John, Noah Constant, Mario Guajardo-Cespedes, Steve Yuan, Chris Tar, Brian Strope, and Ray Kurzweil

Saturday, November 3, 2018

09:00–10:30 *Long Papers and Demos (Orals and Posters) III*

Session 5A: Semantics IV (Gold Hall)

- 09:00–09:18 *Heuristically Informed Unsupervised Idiom Usage Recognition*
Changsheng Liu and Rebecca Hwa
- 09:18–09:36 *Coming to Your Senses: on Controls and Evaluation Sets in Polysemy Research*
Haim Dubossarsky, Eitan Grossman and Daphna Weinshall
- 09:36–09:54 *Predicting Semantic Relations using Global Graph Properties*
Yuval Pinter and Jacob Eisenstein
- 09:54–10:12 *Learning Scalar Adjective Intensity from Paraphrases*
Anne Cocos, Veronica Wharton, Ellie Pavlick, Marianna Apidianaki and Chris Callison-Burch
- 10:12–10:30 *Pointwise HSIC: A Linear-Time Kernelized Co-occurrence Norm for Sparse Linguistic Expressions*
Sho Yokoi, Sosuke Kobayashi, Kenji Fukumizu, Jun Suzuki and Kentaro Inui

Session 5B: Summarization (Copper Hall)

- 09:00–09:18 *Neural Related Work Summarization with a Joint Context-driven Attention Mechanism*
Yongzhen Wang, Xiaozhong Liu and Zheng Gao
- 09:18–09:36 *Improving Neural Abstractive Document Summarization with Explicit Information Selection Modeling*
Wei Li, Xinyan Xiao, Yajuan Lyu and Yuanzhuo Wang
- 09:36–09:54 *Don't Give Me the Details, Just the Summary! Topic-Aware Convolutional Neural Networks for Extreme Summarization*
Shashi Narayan, Shay B. Cohen and Mirella Lapata
- 09:54–10:12 *Improving Abstraction in Text Summarization*
Wojciech Kryściński, Romain Paulus, Caiming Xiong and Richard Socher

Saturday, November 3, 2018 (continued)

- 10:12–10:30 *Content Selection in Deep Learning Models of Summarization*
Chris Kedzie, Kathleen McKeown and Hal Daume III

Session 5C: IR / Text Mining (Silver Hall)

- 09:00–09:18 *Improved Semantic-Aware Network Embedding with Fine-Grained Word Alignment*
Dinghan Shen, Xinyuan Zhang, Ricardo Henao and Lawrence Carin
- 09:18–09:36 *Learning Context-Sensitive Convolutional Filters for Text Processing*
Dinghan Shen, Martin Renqiang Min, Yitong Li and Lawrence Carin
- 09:36–09:54 *Deep Relevance Ranking Using Enhanced Document-Query Interactions*
Ryan McDonald, George Brokos and Ion Androutsopoulos
- 09:54–10:12 *Learning Neural Representation for CLIR with Adversarial Framework*
Bo Li and Ping Cheng
- 10:12–10:30 *AD3: Attentive Deep Document Dater*
Swayambhu Nath Ray, Shib Sankar Dasgupta and Partha Talukdar

Session 5D: Machine Learning II (Hall 100)

- 09:00–09:18 *Gromov-Wasserstein Alignment of Word Embedding Spaces*
David Alvarez-Melis and Tommi Jaakkola
- 09:18–09:36 *Deep Probabilistic Logic: A Unifying Framework for Indirect Supervision*
Hai Wang and Hoifung Poon
- 09:36–09:54 *Deriving Machine Attention from Human Rationales*
Yujia Bao, Shiyu Chang, Mo Yu and Regina Barzilay
- 09:54–10:12 *Semi-Supervised Sequence Modeling with Cross-View Training*
Kevin Clark, Minh-Thang Luong, Christopher D. Manning and Quoc Le

Saturday, November 3, 2018 (continued)

10:12–10:30 (TACL) Comparing Bayesian Models of Annotation
Silviu Paun, Bob Carpenter, Jon Chamberlain, Dirk Hovy, Udo Kruschwitz, and
Massimo Poesio

**Session 5E: Information Extraction, Question Answering (Posters and Demos,
Grand Hall 2)**

A Probabilistic Annotation Model for Crowdsourcing Coreference

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

A Deterministic Algorithm for Bridging Anaphora Resolution

Yufang Hou

A Knowledge Hunting Framework for Common Sense Reasoning

Ali Emami, Noelia De La Cruz, Adam Trischler, Kaheer Suleman and Jackie Chi
Kit Cheung

Mapping Text to Knowledge Graph Entities using Multi-Sense LSTMs

Dimitri Kartsaklis, Mohammad Taher Pilehvar and Nigel Collier

Differentiating Concepts and Instances for Knowledge Graph Embedding

Xin Lv, Lei Hou, Juanzi Li and Zhiyuan Liu

One-Shot Relational Learning for Knowledge Graphs

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

Regular Expression Guided Entity Mention Mining from Noisy Web Data

Shanshan Zhang, Lihong He, Slobodan Vucetic and Eduard Dragut

HyTE: Hyperplane-based Temporally aware Knowledge Graph Embedding

Shib Sankar Dasgupta, Swayambhu Nath Ray and Partha Talukdar

Neural Adaptation Layers for Cross-domain Named Entity Recognition

Bill Yuchen Lin and Wei Lu

Entity Linking within a Social Media Platform: A Case Study on Yelp

Hongliang Dai, Yangqiu Song, Liwei Qiu and Rijia Liu

Saturday, November 3, 2018 (continued)

Annotation of a Large Clinical Entity Corpus

Pinal Patel, Disha Davey, Vishal Panchal and Parth Pathak

Visual Supervision in Bootstrapped Information Extraction

Matthew Berger, Ajay Nagesh, Joshua Levine, Mihai Surdeanu and Helen Zhang

Learning Named Entity Tagger using Domain-Specific Dictionary

Jingbo Shang, Liyuan Liu, Xiaotao Gu, Xiang Ren, Teng Ren and Jiawei Han

Zero-Shot Open Entity Typing as Type-Compatible Grounding

Ben Zhou, Daniel Khashabi, Chen-Tse Tsai and Dan Roth

Attention-Guided Answer Distillation for Machine Reading Comprehension

Minghao Hu, Yuxing Peng, Furu Wei, Zhen Huang, Dongsheng Li, Nan Yang and Ming Zhou

Interpretation of Natural Language Rules in Conversational Machine Reading

Marzieh Saeidi, Max Bartolo, Patrick Lewis, Sameer Singh, Tim Rocktäschel, Mike Sheldon, Guillaume Bouchard and Sebastian Riedel

A State-transition Framework to Answer Complex Questions over Knowledge Base

Sen Hu, Lei Zou and Xinbo Zhang

A Multi-answer Multi-task Framework for Real-world Machine Reading Comprehension

Jiahua Liu, Wan Wei, Maosong Sun, Hao Chen, Yantao Du and Dekang Lin

Logician and Orator: Learning from the Duality between Language and Knowledge in Open Domain

Mingming Sun, Xu Li and Ping Li

MemoReader: Large-Scale Reading Comprehension through Neural Memory Controller

Seohyun Back, Seunghak Yu, Sathish Reddy Indurthi, Jihie Kim and Jaegul Choo

Multi-Granular Sequence Encoding via Dilated Compositional Units for Reading Comprehension

Yi Tay, Anh Tuan Luu and Siu Cheung Hui

Neural Compositional Denotational Semantics for Question Answering

Nitish Gupta and Mike Lewis

Saturday, November 3, 2018 (continued)

Cross-Pair Text Representations for Answer Sentence Selection

Kateryna Tymoshenko and Alessandro Moschitti

QuAC: Question Answering in Context

Eunsol Choi, He He, Mohit Iyyer, Mark Yatskar, Wen-tau Yih, Yejin Choi, Percy Liang and Luke Zettlemoyer

Knowledge Base Question Answering via Encoding of Complex Query Graphs

Kangqi Luo, Fengli Lin, Xusheng Luo and Kenny Zhu

Neural Relation Extraction via Inner-Sentence Noise Reduction and Transfer Learning

Tianyi Liu, Xinsong Zhang, Wanhao Zhou and Weijia Jia

Graph Convolution over Pruned Dependency Trees Improves Relation Extraction

Yuhao Zhang, Peng Qi and Christopher D. Manning

Multi-Level Structured Self-Attentions for Distantly Supervised Relation Extraction

Jinhua Du, Jingguang Han, Andy Way and Dadong Wan

N-ary Relation Extraction using Graph-State LSTM

Linfeng Song, Yue Zhang, Zhiguo Wang and Daniel Gildea

Hierarchical Relation Extraction with Coarse-to-Fine Grained Attention

Xu Han, Pengfei Yu, Zhiyuan Liu, Maosong Sun and Peng Li

Label-Free Distant Supervision for Relation Extraction via Knowledge Graph Embedding

Guanying Wang, Wen Zhang, Ruoxu Wang, Yalin Zhou, Xi Chen, Wei Zhang, Hai Zhu and Huajun Chen

Extracting Entities and Relations with Joint Minimum Risk Training

Changzhi Sun, Yuanbin Wu, Man Lan, Shiliang Sun, Wenting Wang, Kuang-Chih Lee and Kewen Wu

Large-scale Exploration of Neural Relation Classification Architectures

Hoang-Quynh Le, Duy-Cat Can, Sinh T. Vu, Thanh Hai Dang, Mohammad Taher Pilehvar and Nigel Collier

Possessors Change Over Time: A Case Study with Artworks

Dhivya Chinnappa and Eduardo Blanco

Saturday, November 3, 2018 (continued)

Demo: CogCompTime: A Tool for Understanding Time in Natural Language
Qiang Ning, Ben Zhou, Zhili Feng, Haoruo Peng, and Dan Roth

Demo: DERE: A Task and Domain-Independent Slot Filling Framework for Declarative Relation Extraction
Heike Adel, Laura Ana Maria Bostan, Sean Papay, Sebastian Padó, and Roman Klinger

Demo: Integrating Knowledge-Supported Search into the INCEpTION Annotation Platform
Beto Boudlosa, Richard Eckart de Castilho, Naveen Kumar, Jan-Christoph Klie, and Iryna Gurevych

Demo: OpenKE: An Open Toolkit for Knowledge Embedding
Xu Han, Shulin Cao, Xin Lv, Yankai Lin, Zhiyuan Liu, Maosong Sun, and Juanzi Li

Demo: An Interactive Web-Interface for Visualizing the Inner Workings of the Question Answering LSTM
Ekaterina Loginova and Günter Neumann

Demo: An Interface for Annotating Science Questions
Michael Boratko, Harshit Padigela, Divyendra Mikkilineni, Pritish Yuvraj, Rajarshi Das, Andrew McCallum, Maria Chang, Achille Fokoue, Pavan Kapanipathi, Nicholas Mattei, Ryan Musa, Kartik Talamadupula, and Michael Witbrock

Demo: Interactive Instance-based Evaluation of Knowledge Base Question Answering
Daniil Sorokin and Iryna Gurevych

10:30–11:00 *Coffee Break*

11:00–12:30 *Long Papers and Demos (Orals and Posters) IV*

Saturday, November 3, 2018 (continued)

Session 6A: Dialogue I (Gold Hall)

- 11:00–11:18 *Using Lexical Alignment and Referring Ability to Address Data Sparsity in Situated Dialog Reference Resolution*
Todd Shore and Gabriel Skantze
- 11:18–11:36 *Subgoal Discovery for Hierarchical Dialogue Policy Learning*
Da Tang, Xiujuan Li, Jianfeng Gao, Chong Wang, Lihong Li and Tony Jebara
- 11:36–11:54 *Supervised Clustering of Questions into Intents for Dialog System Applications*
Iryna Haponchyk, Antonio Uva, Seunghak Yu, Olga Uryupina and Alessandro Moschitti
- 11:54–12:12 *Towards Exploiting Background Knowledge for Building Conversation Systems*
Nikita Moghe, Siddhartha Arora, Suman Banerjee and Mitesh M. Khapra
- 12:12–12:30 *Decoupling Strategy and Generation in Negotiation Dialogues*
He He, Derek Chen, Anusha Balakrishnan and Percy Liang

Session 6B: Question Answering II (Copper Hall)

- 11:00–11:18 *Large-scale Cloze Test Dataset Created by Teachers*
Qizhe Xie, Guokun Lai, Zihang Dai and Eduard Hovy
- 11:18–11:36 *emrQA: A Large Corpus for Question Answering on Electronic Medical Records*
Anusri Pampari, Preethi Raghavan, Jennifer Liang and Jian Peng
- 11:36–11:54 *HotpotQA: A Dataset for Diverse, Explainable Multi-hop Question Answering*
Zhilin Yang, Peng Qi, Saizheng Zhang, Yoshua Bengio, William Cohen, Ruslan Salakhutdinov and Christopher D. Manning
- 11:54–12:12 *Can a Suit of Armor Conduct Electricity? A New Dataset for Open Book Question Answering*
Todor Mihaylov, Peter Clark, Tushar Khot and Ashish Sabharwal
- 12:12–12:30 *Evaluating Theory of Mind in Question Answering*
Aida Nematzadeh, Kaylee Burns, Erin Grant, Alison Gopnik and Tom Griffiths

Saturday, November 3, 2018 (continued)

Session 6C: Semantics V (Silver Hall)

- 11:00–11:18 *A Unified Syntax-aware Framework for Semantic Role Labeling*
Zuchao Li, Shexia He, Jiaxun Cai, Zhuosheng Zhang, Hai Zhao, Gongshen Liu,
Linlin Li and Luo Si
- 11:18–11:36 *Semantics as a Foreign Language*
Gabriel Stanovsky and Ido Dagan
- 11:36–11:54 *An AMR Aligner Tuned by Transition-based Parser*
Yijia Liu, Wanxiang Che, Bo Zheng, Bing Qin and Ting Liu
- 11:54–12:12 *Dependency-based Hybrid Trees for Semantic Parsing*
Zhanming Jie and Wei Lu
- 12:12–12:30 *Policy Shaping and Generalized Update Equations for Semantic Parsing from De-
notations*
Dipendra Misra, Ming-Wei Chang, Xiaodong He and Wen-tau Yih

Session 6D: Multilingual Methods II (Hall 100)

- 11:00–11:18 *Sentence Compression for Arbitrary Languages via Multilingual Pivoting*
Jonathan Mallinson, Rico Sennrich and Mirella Lapata
- 11:18–11:36 *Unsupervised Cross-lingual Transfer of Word Embedding Spaces*
Ruochen Xu, Yiming Yang, Naoki Otani and Yuexin Wu
- 11:36–11:54 *XNLI: Evaluating Cross-lingual Sentence Representations*
Alexis Conneau, Ruty Rinott, Guillaume Lample, Adina Williams, Samuel Bow-
man, Holger Schwenk and Veselin Stoyanov
- 11:54–12:12 *Joint Multilingual Supervision for Cross-lingual Entity Linking*
Shyam Upadhyay, Nitish Gupta and Dan Roth
- 12:12–12:30 *Fine-grained Coordinated Cross-lingual Text Stream Alignment for Endless Lan-
guage Knowledge Acquisition*
Tao Ge, Qing Dou, Heng Ji, Lei Cui, Baobao Chang, Zhifang Sui, Furu Wei and
Ming Zhou

Saturday, November 3, 2018 (continued)

Session 6E: Syntax, Morphology, Vision and Language I (Posters and Demos, Grand Hall 2)

WECA: A WordNet-Encoded Collocation-Attention Network for Homographic Pun Recognition

Yufeng Diao, Hongfei Lin, Di Wu, Liang Yang, Kan Xu, Zhihao Yang, Jian Wang, Shaowu Zhang, Bo Xu and Dongyu Zhang

A Hybrid Approach to Automatic Corpus Generation for Chinese Spelling Check

Dingmin Wang, Yan Song, Jing Li, Jialong Han and Haisong Zhang

Neural Quality Estimation of Grammatical Error Correction

Shamil Chollampatt and Hwee Tou Ng

Transferring from Formal Newswire Domain with Hypernet for Twitter POS Tagging

Tao Gui, Qi Zhang, Jingjing Gong, Minlong Peng, di liang, Keyu Ding and Xuan-jing Huang

Free as in Free Word Order: An Energy Based Model for Word Segmentation and Morphological Tagging in Sanskrit

Amrith Krishna, Bishal Santra, Sasi Prasanth Bandaru, Gaurav Sahu, Vishnu Dutt Sharma, Pavankumar Satuluri and Pawan Goyal

A Challenge Set and Methods for Noun-Verb Ambiguity

Ali Elkahky, Kellie Webster, Daniel Andor and Emily Pitler

What do character-level models learn about morphology? The case of dependency parsing

Clara Vania, Andreas Grivas and Adam Lopez

Learning Better Internal Structure of Words for Sequence Labeling

Yingwei Xin, Ethan Hart, Vibhuti Mahajan and Jean David Ruvini

ICON: Interactive Conversational Memory Network for Multimodal Emotion Detection

Devamanyu Hazarika, Soujanya Poria, Rada Mihalcea, Erik Cambria and Roger Zimmermann

Discriminative Learning of Open-Vocabulary Object Retrieval and Localization by Negative Phrase Augmentation

Ryota Hinami and Shin'ichi Satoh

Grounding Semantic Roles in Images

Carina Silberer and Manfred Pinkal

Saturday, November 3, 2018 (continued)

Commonsense Justification for Action Explanation

Shaohua Yang, Qiaozi Gao, Sari Sadiya and Joyce Chai

Learning Personas from Dialogue with Attentive Memory Networks

Eric Chu, Prashanth Vijayaraghavan and Deb Roy

Grounding language acquisition by training semantic parsers using captioned videos

Candace Ross, Andrei Barbu, Yevgeni Berzak, Battushig Myanganbayar and Boris Katz

Translating Navigation Instructions in Natural Language to a High-Level Plan for Behavioral Robot Navigation

Xiaoxue Zang, Ashwini Pokle, Marynel Vázquez, Kevin Chen, Juan Carlos Niebles, Alvaro Soto and Silvio Savarese

Mapping Instructions to Actions in 3D Environments with Visual Goal Prediction

Dipendra Misra, Andrew Bennett, Valts Blukis, Eyvind Niklasson, Max Shatkhin and Yoav Artzi

Deconvolutional Time Series Regression: A Technique for Modeling Temporally Diffuse Effects

Cory Shain and William Schuler

Is this Sentence Difficult? Do you Agree?

Dominique Brunato, Lorenzo De Mattei, Felice Dell’Orletta, Benedetta Iavarone and Giulia Venturi

Neural Transition Based Parsing of Web Queries: An Entity Based Approach

Rivka Malca and Roi Reichart

An Investigation of the Interactions Between Pre-Trained Word Embeddings, Character Models and POS Tags in Dependency Parsing

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

Depth-bounding is effective: Improvements and evaluation of unsupervised PCFG induction

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

Saturday, November 3, 2018 (continued)

(TACL) In-Order Transition-based Constituent Parsing
Jiangming Liu and Yue Zhang

(TACL) Surface Statistics of an Unknown Language Indicate How to Parse It
Dingquan Wang and Jason Eisner

Incremental Computation of Infix Probabilities for Probabilistic Finite Automata
Marco Cognetta, Yo-Sub Han and Soon Chan Kwon

Syntax Encoding with Application in Authorship Attribution
Richong Zhang, Zhiyuan Hu, Hongyu Guo and Yongyi Mao

Sanskrit Word Segmentation Using Character-level Recurrent and Convolutional Neural Networks
Oliver Hellwig and Sebastian Nehrlich

(TACL) Universal Word Segmentation: Implementation and Interpretation
Yan Shao, Christian Hardmeier, and Joakim Nivre

Demo: MorAz: an Open-source Morphological Analyzer for Azerbaijani Turkish
Berke Özenç, Razieh Ehsani, and Ercan Solak

Demo: Juman++: A Morphological Analysis Toolkit for Scriptio Continua
Arseny Tolmachev, Daisuke Kawahara, and Sadao Kurohashi

12:30–13:45 *Lunch*

13:45–14:45 *Short Papers (Orals and Posters) III*

Saturday, November 3, 2018 (continued)

Session 7A: Dialogue II (Gold Hall)

- 13:45–13:57 *Session-level Language Modeling for Conversational Speech*
Wayne Xiong, Lingfeng Wu, Jun Zhang and Andreas Stolcke
- 13:57–14:09 *Towards Less Generic Responses in Neural Conversation Models: A Statistical Re-weighting Method*
Yahui Liu, Wei Bi, Jun Gao, Xiaojiang Liu, Jian Yao and Shuming Shi
- 14:09–14:21 *Training Millions of Personalized Dialogue Agents*
Pierre-Emmanuel Mazare, Samuel Humeau, Martin Raison and Antoine Bordes
- 14:21–14:33 *Towards Universal Dialogue State Tracking*
Liliang Ren, Kaige Xie, Lu Chen and Kai Yu
- 14:33–14:45 *Semantic Parsing for Task Oriented Dialog using Hierarchical Representations*
Sonal Gupta, Rushin Shah, Mrinal Mohit, Anuj Kumar and Mike Lewis

Session 7B: Social Applications II (Copper Hall)

- 13:45–13:57 *The glass ceiling in NLP*
Natalie Schluter
- 13:57–14:09 *Reducing Gender Bias in Abusive Language Detection*
Ji Ho Park, Jamin Shin and Pascale Fung
- 14:09–14:21 *SafeCity: Understanding Diverse Forms of Sexual Harassment Personal Stories*
Sweta Karlekar and Mohit Bansal
- 14:21–14:33 *Learning multiview embeddings for assessing dementia*
Chloé Pou-Prom and Frank Rudzicz
- 14:33–14:45 *WikiConv: A Corpus of the Complete Conversational History of a Large Online Collaborative Community*
Yiqing Hua, Cristian Danescu-Niculescu-Mizil, Dario Taraborelli, Nithum Thain, Jeffery Sorensen and Lucas Dixon

Saturday, November 3, 2018 (continued)

Session 7C: NER (Silver Hall)

- 13:45–13:57 *Marginal Likelihood Training of BiLSTM-CRF for Biomedical Named Entity Recognition from Disjoint Label Sets*
Nathan Greenberg, Trapit Bansal, Patrick Verga and Andrew McCallum
- 13:57–14:09 *Adversarial training for multi-context joint entity and relation extraction*
Giannis Bekoulis, Johannes Deleu, Thomas Demeester and Chris Develder
- 14:09–14:21 *Structured Multi-Label Biomedical Text Tagging via Attentive Neural Tree Decoding*
Gaurav Singh, James Thomas, Iain Marshall, John Shawe-Taylor and Byron C. Wallace
- 14:21–14:33 *Deep Exhaustive Model for Nested Named Entity Recognition*
Mohammad Golam Sohrab and Makoto Miwa
- 14:33–14:45 *Evaluating the Utility of Hand-crafted Features in Sequence Labelling*
Minghao Wu, Fei Liu and Trevor Cohn

Session 7D: Morphology / Parsing (Hall 100)

- 13:45–13:57 *Improved Dependency Parsing using Implicit Word Connections Learned from Unlabeled Data*
Wenhui Wang, Baobao Chang and Mairgup Mansur
- 13:57–14:09 *A Framework for Understanding the Role of Morphology in Universal Dependency Parsing*
Mathieu Dehouck and Pascal Denis
- 14:09–14:21 *The Lazy Encoder: A Fine-Grained Analysis of the Role of Morphology in Neural Machine Translation*
Arianna Bisazza and Clara Tump
- 14:21–14:33 *Imitation Learning for Neural Morphological String Transduction*
Peter Makarov and Simon Clematide
- 14:33–14:45 *An Encoder-Decoder Approach to the Paradigm Cell Filling Problem*
Miikka Silfverberg and Mans Hulden

Saturday, November 3, 2018 (continued)

Session 7E: Short Posters III (Grand Hall 2)

Generating Natural Language Adversarial Examples

Moustafa Alzantot, Yash Sharma, Ahmed Elgohary, Bo-Jhang Ho, Mani Srivastava and Kai-Wei Chang

Multi-Head Attention with Disagreement Regularization

Jian Li, Zhaopeng Tu, Baosong Yang, Michael R. Lyu and Tong Zhang

Deep Bayesian Active Learning for Natural Language Processing: Results of a Large-Scale Empirical Study

Aditya Siddhant and Zachary C. Lipton

Bayesian Compression for Natural Language Processing

Nadezhda Chirkova, Ekaterina Lobacheva and Dmitry Vetrov

Multimodal neural pronunciation modeling for spoken languages with logographic origin

Minh Nguyen, Gia H Ngo and Nancy Chen

Chinese Pinyin Aided IME, Input What You Have Not Keystroked Yet

Yafang Huang and Hai Zhao

Estimating Marginal Probabilities of n-grams for Recurrent Neural Language Models

Thanapon Noraset, Doug Downey and Lidong Bing

How to represent a word and predict it, too: Improving tied architectures for language modelling

Kristina Gulordava, Laura Aina and Gemma Boleda

The Importance of Generation Order in Language Modeling

Nicolas Ford, Daniel Duckworth, Mohammad Norouzi and George Dahl

Document-Level Neural Machine Translation with Hierarchical Attention Networks

Lesly Miculicich, Dhananjay Ram, Nikolaos Pappas and James Henderson

Three Strategies to Improve One-to-Many Multilingual Translation

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

Saturday, November 3, 2018 (continued)

Multi-Source Syntactic Neural Machine Translation

Anna Currey and Kenneth Heafield

Fixing Translation Divergences in Parallel Corpora for Neural MT

Minh Quang Pham, Josep Crego, Jean Senellart and François Yvon

Adversarial Evaluation of Multimodal Machine Translation

Desmond Elliott

Loss in Translation: Learning Bilingual Word Mapping with a Retrieval Criterion

Armand Joulin, Piotr Bojanowski, Tomas Mikolov, Hervé Jégou and Edouard Grave

Learning When to Concentrate or Divert Attention: Self-Adaptive Attention Temperature for Neural Machine Translation

Junyang Lin, Xu Sun, Xuancheng Ren, Muyu Li and Qi Su

Accelerating Asynchronous Stochastic Gradient Descent for Neural Machine Translation

Nikolay Bogoychev, Kenneth Heafield, Alham Fikri Aji and Marcin Junczys-Dowmunt

Learning to Jointly Translate and Predict Dropped Pronouns with a Shared Reconstruction Mechanism

Longyue Wang, Zhaopeng Tu, Andy Way and Qun Liu

Getting Gender Right in Neural Machine Translation

Eva Vanmassenhove, Christian Hardmeier and Andy Way

Towards Two-Dimensional Sequence to Sequence Model in Neural Machine Translation

Parnia Bahar, Christopher Brix and Hermann Ney

End-to-End Non-Autoregressive Neural Machine Translation with Connectionist Temporal Classification

Jindřich Libovický and Jindřich Helcl

Prediction Improves Simultaneous Neural Machine Translation

Ashkan Alinejad, Maryam Siahbani and Anoop Sarkar

Training Deeper Neural Machine Translation Models with Transparent Attention

Ankur Bapna, Mia Chen, Orhan Firat, Yuan Cao and Yonghui Wu

Saturday, November 3, 2018 (continued)

Context and Copying in Neural Machine Translation

Rebecca Knowles and Philipp Koehn

Encoding Gated Translation Memory into Neural Machine Translation

Qian Cao and Deyi Xiong

Automatic Post-Editing of Machine Translation: A Neural Programmer-Interpreter Approach

Thuy-Trang Vu and Gholamreza Haffari

Breaking the Beam Search Curse: A Study of (Re-)Scoring Methods and Stopping Criteria for Neural Machine Translation

Yilin Yang, Liang Huang and Mingbo Ma

Multi-Multi-View Learning: Multilingual and Multi-Representation Entity Typing

Yadollah Yaghoobzadeh and Hinrich Schütze

Word Embeddings for Code-Mixed Language Processing

Adithya Pratapa, Monojit Choudhury and Sunayana Sitaram

On the Strength of Character Language Models for Multilingual Named Entity Recognition

Xiaodong Yu, Stephen Mayhew, Mark Sammons and Dan Roth

Code-switched Language Models Using Dual RNNs and Same-Source Pretraining

Saurabh Garg, Tanmay Parekh and Preethi Jyothi

Part-of-Speech Tagging for Code-Switched, Transliterated Texts without Explicit Language Identification

Kelsey Ball and Dan Garrette

14:45–15:00 *Mini-Break*

15:00–16:00 *Keynote II: Gideon Mann "Understanding the News that Moves Markets" (Gold Hall)*

16:00–16:30 *Coffee Break*

Saturday, November 3, 2018 (continued)

16:30–18:00 *Long Papers and Demos (Orals and Posters) V*

Session 8A: Text Categorization (Gold Hall)

- 16:30–16:48 *Zero-shot User Intent Detection via Capsule Neural Networks*
Congying Xia, Chenwei Zhang, Xiaohui Yan, Yi Chang and Philip Yu
- 16:48–17:06 *Hierarchical Neural Networks for Sequential Sentence Classification in Medical Scientific Abstracts*
Di Jin and Peter Szolovits
- 17:06–17:24 *Investigating Capsule Networks with Dynamic Routing for Text Classification*
Min Yang, Wei Zhao, Jianbo Ye, Zeyang Lei, Zhou Zhao and Soufei Zhang
- 17:24–17:42 *Topic Memory Networks for Short Text Classification*
Jichuan Zeng, Jing Li, Yan Song, Cuiyun Gao, Michael R. Lyu and Irwin King
- 17:42–18:00 *Few-Shot and Zero-Shot Multi-Label Learning for Structured Label Spaces*
Anthony Rios and Ramakanth Kavuluru

Session 8B: Generation (Copper Hall)

- 16:30–16:48 *Automatic Poetry Generation with Mutual Reinforcement Learning*
Xiaoyuan Yi, Maosong Sun, Ruoyu Li and Wenhao Li
- 16:48–17:06 *Variational Autoregressive Decoder for Neural Response Generation*
Jiachen Du, Wenjie Li, Yulan He, Ruifeng Xu, Lidong Bing and Xuan Wang
- 17:06–17:24 *Integrating Transformer and Paraphrase Rules for Sentence Simplification*
Sanqiang Zhao, Rui Meng, Daqing He, Andi Saptono and Bambang Parmanto
- 17:24–17:42 *Learning Neural Templates for Text Generation*
Sam Wiseman, Stuart Shieber and Alexander Rush

Saturday, November 3, 2018 (continued)

- 17:42–18:00 *Multi-Reference Training with Pseudo-References for Neural Translation and Text Generation*
Renjie Zheng, Mingbo Ma and Liang Huang

Session 8C: Knowledge Graphs (Silver Hall)

- 16:30–16:48 *Knowledge Graph Embedding with Hierarchical Relation Structure*
Zhao Zhang, Fuzhen Zhuang, Meng Qu, Fen Lin and Qing He
- 16:48–17:06 *Embedding Multimodal Relational Data for Knowledge Base Completion*
Pouya Pezeshkpour, Liyan Chen and Sameer Singh
- 17:06–17:24 *Multi-Task Identification of Entities, Relations, and Coreference for Scientific Knowledge Graph Construction*
Yi Luan, Luheng He, Mari Ostendorf and Hannaneh Hajishirzi
- 17:24–17:42 *Playing 20 Question Game with Policy-Based Reinforcement Learning*
Huang Hu, Xianchao Wu, Bingfeng Luo, Chongyang Tao, Can Xu, wei wu and Zhan Chen
- 17:42–18:00 *Multi-Hop Knowledge Graph Reasoning with Reward Shaping*
Xi Victoria Lin, Richard Socher and Caiming Xiong

Session 8D: Morphology / Phonology (Hall 100)

- 16:30–16:48 *Neural Transductive Learning and Beyond: Morphological Generation in the Minimal-Resource Setting*
Katharina Kann and Hinrich Schütze
- 16:48–17:06 *Implicational Universals in Stochastic Constraint-Based Phonology*
Giorgio Magri
- 17:06–17:24 *Explaining Character-Aware Neural Networks for Word-Level Prediction: Do They Discover Linguistic Rules?*
Frédéric Godin, Kris Demuynck, Joni Dambre, Wesley De Neve and Thomas De-meester
- 17:24–17:42 *Adapting Word Embeddings to New Languages with Morphological and Phonological Subword Representations*
Aditi Chaudhary, Chunting Zhou, Lori Levin, Graham Neubig, David R. Mortensen and Jaime Carbonell

Saturday, November 3, 2018 (continued)

17:42–18:00 (TACL) Recurrent Neural Networks in Linguistic Theory: Revisiting Pinker and Prince (1988) and the Past Tense Debate
Christo Kirov and Ryan Cotterell

Session 8E: Sentiment, Social Applications, Multimodal Semantics, Discourse (Posters and Demos, Grand Hall 2)

A Computational Exploration of Exaggeration

Enrica Troiano, Carlo Strapparava, Gözde Özbal and Serra Sinem Tekiroglu

Building Context-aware Clause Representations for Situation Entity Type Classification

Zeyu Dai and Ruihong Huang

Hierarchical Dirichlet Gaussian Marked Hawkes Process for Narrative Reconstruction in Continuous Time Domain

Yeon Seonwoo, Alice Oh and Sungjoon Park

Investigating the Role of Argumentation in the Rhetorical Analysis of Scientific Publications with Neural Multi-Task Learning Models

Anne Lauscher, Goran Glavaš, Simone Paolo Ponzetto and Kai Eckert

Neural Ranking Models for Temporal Dependency Structure Parsing

Yuchen Zhang and Nianwen Xue

Causal Explanation Analysis on Social Media

Youngseo Son, Nipun Bayas and H. Andrew Schwartz

LRMM: Learning to Recommend with Missing Modalities

Cheng Wang, Mathias Niepert and Hui Li

Content Explorer: Recommending Novel Entities for a Document Writer

Michal Lukasik and Richard Zens

A Genre-Aware Attention Model to Improve the Likability Prediction of Books

Suraj Maharjan, Manuel Montes, Fabio A. González and Thamar Solorio

Thread Popularity Prediction and Tracking with a Permutation-invariant Model

Hou Pong Chan and Irwin King

Saturday, November 3, 2018 (continued)

IARM: Inter-Aspect Relation Modeling with Memory Networks in Aspect-Based Sentiment Analysis

Navonil Majumder, Soujanya Poria, Alexander Gelbukh, Md Shad Akhtar, Erik Cambria and Asif Ekbal

Limbic: Author-Based Sentiment Aspect Modeling Regularized with Word Embeddings and Discourse Relations

Zhe Zhang and Munindar Singh

An Interpretable Neural Network with Topical Information for Relevant Emotion Ranking

Yang Yang, Deyu ZHOU and Yulan He

Multi-grained Attention Network for Aspect-Level Sentiment Classification

Feifan Fan, Yansong Feng and Dongyan Zhao

Attentive Gated Lexicon Reader with Contrastive Contextual Co-Attention for Sentiment Classification

Yi Tay, Anh Tuan Luu, Siu Cheung Hui and Jian Su

Contextual Inter-modal Attention for Multi-modal Sentiment Analysis

Deepanway Ghosal, Md Shad Akhtar, Dushyant Chauhan, Soujanya Poria, Asif Ekbal and Pushpak Bhattacharyya

Adaptive Semi-supervised Learning for Cross-domain Sentiment Classification

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

ExtRA: Extracting Prominent Review Aspects from Customer Feedback

Zhiyi Luo, Shanshan Huang, Frank F. Xu, Bill Yuchen Lin, Hanyuan Shi and Kenny Zhu

Cross-Lingual Cross-Platform Rumor Verification Pivoting on Multimedia Content

Weiming Wen, Songwen Su and Zhou Yu

Extractive Adversarial Networks: High-Recall Explanations for Identifying Personal Attacks in Social Media Posts

Samuel Carton, Qiaozhu Mei and Paul Resnick

Automatic Detection of Vague Words and Sentences in Privacy Policies

Logan Lebanoff and Fei Liu

Multi-view Models for Political Ideology Detection of News Articles

Vivek Kulkarni, Junting Ye, Steve Skiena and William Yang Wang

Saturday, November 3, 2018 (continued)

Predicting Factuality of Reporting and Bias of News Media Sources

Ramy Baly, Georgi Karadzhov, Dimitar Alexandrov, James Glass and Preslav Nakov

Legal Judgment Prediction via Topological Learning

Haoxi Zhong, Guo Zhipeng, Cunchao Tu, Chaojun Xiao, Zhiyuan Liu and Maosong Sun

Hierarchical CVAE for Fine-Grained Hate Speech Classification

Jing Qian, Mai ElSherief, Elizabeth Belding and William Yang Wang

Residualized Factor Adaptation for Community Social Media Prediction Tasks

Mohammadzaman Zamani, H. Andrew Schwartz, Veronica Lynn, Salvatore Giorgi and Niranjana Balasubramanian

Framing and Agenda-setting in Russian News: a Computational Analysis of Intricate Political Strategies

Anjalie Field, Doron Kliger, Shuly Wintner, Jennifer Pan, Dan Jurafsky and Yulia Tsvetkov

Identifying the sentiment styles of YouTube's vloggers

Bennett Kleinberg, Maximilian Mozes and Isabelle van der Vegt

Native Language Identification with User Generated Content

Gili Goldin, Ella Rabinovich and Shuly Wintner

Demo: Visualization of the Topic Space of Argument Search Results in args.me

Yamen Ajjour, Henning Wachsmuth, Dora Kiesel, Patrick Riehmann, Fan Fan, Giuliano Castiglia, Rosemary Adejoh, Bernd Fröhlich, and Benno Stein

Saturday, November 3, 2018 (continued)

Demo: A Multilingual Information Extraction Pipeline for Investigative Journalism
Gregor Wiedemann, Seid Muhie Yimam, and Chris Biemann

Demo: When science journalism meets artificial intelligence : An interactive demonstration
Raghuram Vadapalli, Bakhtiyar Syed, Nishant Prabhu, Balaji Vasan Srinivasan, and Vasudeva Varma

19:00–22:00 *Social Event (Royal Museums of Fine Arts of Belgium)*

Sunday, November 4, 2018

09:00–10:30 *Long Papers and Demos (Orals and Posters) VI*

Session 9A: Machine Translation II (Gold Hall)

09:00–09:18 *Beyond Error Propagation in Neural Machine Translation: Characteristics of Language Also Matter*

Lijun Wu, Xu Tan, Di He, Fei Tian, Tao Qin, Jianhuang Lai and Tie-Yan Liu

09:18–09:36 *A Study of Reinforcement Learning for Neural Machine Translation*

Lijun Wu, Fei Tian, Tao Qin, Jianhuang Lai and Tie-Yan Liu

09:36–09:54 *Meta-Learning for Low-Resource Neural Machine Translation*

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

09:54–10:12 *Unsupervised Statistical Machine Translation*

Mikel Artetxe, Gorka Labaka and Eneko Agirre

10:12–10:30 *A Visual Attention Grounding Neural Model for Multimodal Machine Translation*

Mingyang Zhou, Runxiang Cheng, Yong Jae Lee and Zhou Yu

Sunday, November 4, 2018 (continued)

Session 9B: Sentiment I (Copper Hall)

- 09:00–09:18 *Sentiment Classification towards Question-Answering with Hierarchical Matching Network*
Chenlin Shen, Changlong Sun, Jingjing Wang, Yangyang Kang, Shoushan Li, Xiaozhong Liu, Luo Si, Min Zhang and Guodong Zhou
- 09:18–09:36 *Cross-topic Argument Mining from Heterogeneous Sources*
Christian Stab, Tristan Miller, Benjamin Schiller, Pranav Rai and Iryna Gurevych
- 09:36–09:54 *Summarizing Opinions: Aspect Extraction Meets Sentiment Prediction and They Are Both Weakly Supervised*
Stefanos Angelidis and Mirella Lapata
- 09:54–10:12 *CARER: Contextualized Affect Representations for Emotion Recognition*
Elvis Saravia, Hsien-Chi Toby Liu, Yen-Hao Huang, Junlin Wu and Yi-Shin Chen
- 10:12–10:30 (TACL) Adversarial Deep Averaging Networks for Cross-Lingual Sentiment Classification
Xilun Chen, Yu Sun, Ben Athiwaratkun, Claire Cardie, and Kilian Weinberger

Session 9C: Machine Learning III (Silver Hall)

- 09:00–09:18 *Noise Contrastive Estimation and Negative Sampling for Conditional Models: Consistency and Statistical Efficiency*
Zhuang Ma and Michael Collins
- 09:18–09:36 *CaLcs: Continuously Approximating Longest Common Subsequence for Sequence Level Optimization*
Semih Yavuz, Chung-Cheng Chiu, Patrick Nguyen and Yonghui Wu
- 09:36–09:54 *Pathologies of Neural Models Make Interpretations Difficult*
Shi Feng, Eric Wallace, Alvin Grissom II, Mohit Iyyer, Pedro Rodriguez and Jordan Boyd-Graber
- 09:54–10:12 *Phrase-level Self-Attention Networks for Universal Sentence Encoding*
Wei Wu, Houfeng Wang, Tianyu Liu and Shuming Ma
- 10:12–10:30 *BanditSum: Extractive Summarization as a Contextual Bandit*
Yue Dong, Yikang Shen, Eric Crawford, Herke van Hoof and Jackie Chi Kit Cheung

Sunday, November 4, 2018 (continued)

Session 9D: Semantics VI (Hall 100)

- 09:00–09:18 *A Word-Complexity Lexicon and A Neural Readability Ranking Model for Lexical Simplification*
Mounica Maddela and Wei Xu
- 09:18–09:36 *Learning Latent Semantic Annotations for Grounding Natural Language to Structured Data*
Guanghui Qin, Jin-Ge Yao, Xuening Wang, Jinhong Wang and Chin-Yew Lin
- 09:36–09:54 *Syntactic Scaffolds for Semantic Structures*
Swabha Swayamdipta, Sam Thomson, Kenton Lee, Luke Zettlemoyer, Chris Dyer and Noah A. Smith
- 09:54–10:12 *Hierarchical Quantized Representations for Script Generation*
Noah Weber, Leena Shekhar, Niranjan Balasubramanian and Nate Chambers
- 10:12–10:30 *Semantic Role Labeling for Learner Chinese: the Importance of Syntactic Parsing and L2-L1 Parallel Data*
Zi Lin, Yuguang Duan, Yuanyuan Zhao, Weiwei Sun and Xiaojun Wan

Session 9E: Generation, Dialog, Summarization; Vision and Language II (Posters and Demos, Grand Hall 2)

- A Teacher-Student Framework for Maintainable Dialog Manager*
Weikang Wang, Jiajun Zhang, Han Zhang, Mei-Yuh Hwang, Chengqing Zong and Zhifei Li
- Discriminative Deep Dyna-Q: Robust Planning for Dialogue Policy Learning*
Shang-Yu Su, Xiujuan Li, Jianfeng Gao, Jingjing Liu and Yun-Nung Chen
- A Self-Attentive Model with Gate Mechanism for Spoken Language Understanding*
Changliang Li, Liang Li and Ji Qi
- Learning End-to-End Goal-Oriented Dialog with Multiple Answers*
Janarthanan Rajendran, Jatin Ganhotra, Satinder Singh and Lazaros Polymenakos
- AirDialogue: An Environment for Goal-Oriented Dialogue Research*
Wei Wei, Quoc Le, Andrew Dai and Jia Li

Sunday, November 4, 2018 (continued)

(TACL) Polite Dialogue Generation Without Parallel Data
Tong Niu and Mohit Bansal

QuaSE: Sequence Editing under Quantifiable Guidance
Yi Liao, Lidong Bing, Piji Li, Shuming Shi, Wai Lam and Tong Zhang

Paraphrase Generation with Deep Reinforcement Learning
Zichao Li, Xin Jiang, Lifeng Shang and Hang Li

Operation-guided Neural Networks for High Fidelity Data-To-Text Generation
Feng Nie, Jinpeng Wang, Jin-Ge Yao, Rong Pan and Chin-Yew Lin

Generating Classical Chinese Poems via Conditional Variational Autoencoder and Adversarial Training
Juntao Li, Yan Song, Haisong Zhang, Dongmin Chen, Shuming Shi, Dongyan Zhao and Rui Yan

Paragraph-level Neural Question Generation with Maxout Pointer and Gated Self-attention Networks
Yao Zhao, Xiaochuan Ni, Yuanyuan Ding and Qifa Ke

Spider: A Large-Scale Human-Labeled Dataset for Complex and Cross-Domain Semantic Parsing and Text-to-SQL Task
Tao Yu, Rui Zhang, Kai Yang, Michihiro Yasunaga, Dongxu Wang, Zifan Li, James Ma, Irene Li, Qingning Yao, Shanelle Roman, Zilin Zhang and Dragomir Radev

Unsupervised Natural Language Generation with Denoising Autoencoders
Markus Freitag and Scott Roy

Answer-focused and Position-aware Neural Question Generation
Xingwu Sun, Jing Liu, Yajuan Lyu, Wei He, Yanjun Ma and Shi Wang

Diversity-Promoting GAN: A Cross-Entropy Based Generative Adversarial Network for Diversified Text Generation
Jingjing Xu, Xuancheng Ren, Junyang Lin and Xu Sun

Towards a Better Metric for Evaluating Question Generation Systems
Preksha Nema and Mitesh M. Khapra

Stylistic Chinese Poetry Generation via Unsupervised Style Disentanglement
Cheng Yang, Maosong Sun, Xiaoyuan Yi and Wenhao Li

Sunday, November 4, 2018 (continued)

Generating More Interesting Responses in Neural Conversation Models with Distributional Constraints

Ashutosh Baheti, Alan Ritter, Jiwei Li and Bill Dolan

Better Conversations by Modeling, Filtering, and Optimizing for Coherence and Diversity

Xinnuo Xu, Ondřej Dušek, Ioannis Konstas and Verena Rieser

Incorporating Background Knowledge into Video Description Generation

Spencer Whitehead, Heng Ji, Mohit Bansal, Shih-Fu Chang and Clare Voss

Multimodal Differential Network for Visual Question Generation

Badri Narayana Patro, Sandeep Kumar, Vinod Kumar Kurmi and Vinay Namboodiri

Entity-aware Image Caption Generation

Di Lu, Spencer Whitehead, Lifu Huang, Heng Ji and Shih-Fu Chang

Learning to Describe Differences Between Pairs of Similar Images

Harsh Jhamtani and Taylor Berg-Kirkpatrick

Object Hallucination in Image Captioning

Anna Rohrbach, Lisa Anne Hendricks, Kaylee Burns, Trevor Darrell and Kate Saenko

Abstractive Text-Image Summarization Using Multi-Modal Attentional Hierarchical RNN

Jingqiang Chen and Hai Zhuge

Keyphrase Generation with Correlation Constraints

Jun Chen, Xiaoming Zhang, Yu Wu, Zhao Yan and Zhoujun Li

Closed-Book Training to Improve Summarization Encoder Memory

Yichen Jiang and Mohit Bansal

Improving Neural Abstractive Document Summarization with Structural Regularization

Wei Li, Xinyan Xiao, Yajuan Lyu and Yuanzhuo Wang

Iterative Document Representation Learning Towards Summarization with Polishing

Xiuying Chen, Shen Gao, Chongyang Tao, Yan Song, Dongyan Zhao and Rui Yan

Sunday, November 4, 2018 (continued)

Bottom-Up Abstractive Summarization

Sebastian Gehrmann, Yuntian Deng and Alexander Rush

Controlling Length in Abstractive Summarization Using a Convolutional Neural Network

Yizhu Liu, Zhiyi Luo and Kenny Zhu

APRIL: Interactively Learning to Summarise by Combining Active Preference Learning and Reinforcement Learning

Yang Gao, Christian M. Meyer and Iryna Gurevych

Adapting the Neural Encoder-Decoder Framework from Single to Multi-Document Summarization

Logan Lebanoff, Kaiqiang Song and Fei Liu

Semi-Supervised Learning for Neural Keyphrase Generation

Hai Ye and Lu Wang

MSMO: Multimodal Summarization with Multimodal Output

Junnan Zhu, Haoran Li, Tianshang Liu, Yu Zhou, Jiajun Zhang and Chengqing Zong

Frustratingly Easy Model Ensemble for Abstractive Summarization

Hayato Kobayashi

Automatic Pyramid Evaluation Exploiting EDU-based Extractive Reference Summaries

Tsutomu Hirao, Hidetaka Kamigaito and Masaaki Nagata

Learning to Encode Text as Human-Readable Summaries using Generative Adversarial Networks

Yaushian Wang and Hung-yi Lee

Sunday, November 4, 2018 (continued)

Demo: Visualizing Group Dynamics based on Multiparty Meeting Understanding
Ni Zhang, Tongtao Zhang, Indrani Bhattacharya, Heng Ji, and Rich Radke

Demo: PizzaPal: Conversational Pizza Ordering using a High-Density Conversational AI Platform
Antoine Raux, Yi Ma, Paul Yang, and Felicia Wong

Demo: Developing Production-Level Conversational Interfaces with Shallow Semantic Parsing
Arushi Raghuvanshi, Lucien Carroll, and Karthik Raghunathan

Demo: SyntaViz: Visualizing Voice Queries through a Syntax-Driven Hierarchical Ontology
Md Iftekhar Tanveer and Ferhan Ture

Demo: LIA: A Natural Language Programmable Personal Assistant
Igor Labutov, Shashank Srivastava, and Tom Mitchell

Demo: Data2Text Studio: Automated Text Generation from Structured Data
Longxu Dou, Guanghui Qin, Jinpeng Wang, Jin-Ge Yao, and Chin-Yew Lin

Demo: Demonstrating Par4Sem - A Semantic Writing Aid with Adaptive Paraphrasing
Seid Muhie Yimam and Chris Biemann

10:30–11:00 *Coffee Break*

11:00–12:30 *Long Papers and Demos (Orals and Posters) VII*

Sunday, November 4, 2018 (continued)

Session 10A: Question Answering III (Gold Hall)

- 11:00–11:18 *Joint Multitask Learning for Community Question Answering Using Task-Specific Embeddings*
Shafiq Joty, Lluís Màrquez and Preslav Nakov
- 11:18–11:36 *What Makes Reading Comprehension Questions Easier?*
Saku Sugawara, Kentaro Inui, Satoshi Sekine and Akiko Aizawa
- 11:36–11:54 *Commonsense for Generative Multi-Hop Question Answering Tasks*
Lisa Bauer, Yicheng Wang and Mohit Bansal
- 11:54–12:12 *Open Domain Question Answering Using Early Fusion of Knowledge Bases and Text*
Haitian Sun, Bhuwan Dhingra, Manzil Zaheer, Kathryn Mazaitis, Ruslan Salakhutdinov and William Cohen
- 12:12–12:30 *A Nil-Aware Answer Extraction Framework for Question Answering*
Souvik Kundu and Hwee Tou Ng

Session 10B: Machine Translation III (Copper Hall)

- 11:00–11:18 *Exploiting Deep Representations for Neural Machine Translation*
Zi-Yi Dou, Zhaopeng Tu, Xing Wang, Shuming Shi and Tong Zhang
- 11:18–11:36 *Why Self-Attention? A Targeted Evaluation of Neural Machine Translation Architectures*
Gongbo Tang, Mathias Müller, Annette Rios and Rico Sennrich
- 11:36–11:54 *Simplifying Neural Machine Translation with Addition-Subtraction Twin-Gated Recurrent Networks*
Biao Zhang, Deyi Xiong, jinsong su, Qian Lin and Huiji Zhang
- 11:54–12:12 *Speeding Up Neural Machine Translation Decoding by Cube Pruning*
Wen Zhang, Liang Huang, Yang Feng, Lei Shen and Qun Liu
- 12:12–12:30 *Revisiting Character-Based Neural Machine Translation with Capacity and Compression*
Colin Cherry, George Foster, Ankur Bapna, Orhan Firat and Wolfgang Macherey

Sunday, November 4, 2018 (continued)

Session 10C: Discourse (Silver Hall)

- 11:00–11:18 *A Skeleton-Based Model for Promoting Coherence Among Sentences in Narrative Story Generation*
Jingjing Xu, Xuancheng Ren, Yi Zhang, Qi Zeng, Xiaoyan Cai and Xu Sun
- 11:18–11:36 *NEXUS Network: Connecting the Preceding and the Following in Dialogue Generation*
Xiaoyu Shen, Hui Su, Wenjie Li and Dietrich Klakow
- 11:36–11:54 *A Neural Local Coherence Model for Text Quality Assessment*
Mohsen Mesgar and Michael Strube
- 11:54–12:12 *Deep Attentive Sentence Ordering Network*
Baiyun Cui, Yingming Li, Ming Chen and Zhongfei Zhang
- 12:12–12:30 *Getting to "Hearer-old": Charting Referring Expressions Across Time*
Ieva Staliūnaitė, Hannah Rohde, Bonnie Webber and Annie Louis

Session 10D: Evolution / Sociolinguistics (Hall 100)

- 11:00–11:18 *Making "fetch" happen: The influence of social and linguistic context on nonstandard word growth and decline*
Ian Stewart and Jacob Eisenstein
- 11:18–11:36 *Analyzing Correlated Evolution of Multiple Features Using Latent Representations*
Yugo Murawaki
- 11:36–11:54 *Capturing Regional Variation with Distributed Place Representations and Geographic Retrofitting*
Dirk Hovy and Christoph Purschke
- 11:54–12:12 *Characterizing Interactions and Relationships between People*
Farzana Rashid and Eduardo Blanco
- 12:12–12:30 *Why Swear? Analyzing and Inferring the Intentions of Vulgar Expressions*
Eric Holgate, Isabel Cachola, Daniel Preoțiuc-Pietro and Junyi Jessy Li

Sunday, November 4, 2018 (continued)

Session 10E: Machine Learning (Posters and Demos, Grand Hall 2)

Is it Time to Swish? Comparing Deep Learning Activation Functions Across NLP tasks

Steffen Eger, Paul Youssef and Iryna Gurevych

Hard Non-Monotonic Attention for Character-Level Transduction

Shijie Wu, Pamela Shapiro and Ryan Cotterell

Speed Reading: Learning to Read ForBackward via Shuttle

Tsu-Jui Fu and Wei-Yun Ma

Modeling Localness for Self-Attention Networks

Baosong Yang, Zhaopeng Tu, Derek F. Wong, Fandong Meng, Lidia S. Chao and Tong Zhang

Chargrid: Towards Understanding 2D Documents

Anoop R Katti, Christian Reisswig, Cordula Guder, Sebastian Brarda, Steffen Bickel, Johannes Höhne and Jean Baptiste Faddoul

Simple Recurrent Units for Highly Parallelizable Recurrence

Tao Lei, Yu Zhang, Sida I. Wang, Hui Dai and Yoav Artzi

NPRF: A Neural Pseudo Relevance Feedback Framework for Ad-hoc Information Retrieval

Canjia Li, Yingfei Sun, Ben He, Le Wang, Kai Hui, Andrew Yates, Le Sun and Jungang Xu

Co-Stack Residual Affinity Networks with Multi-level Attention Refinement for Matching Text Sequences

Yi Tay, Anh Tuan Luu and Siu Cheung Hui

Spherical Latent Spaces for Stable Variational Autoencoders

Jiacheng Xu and Greg Durrett

Learning Universal Sentence Representations with Mean-Max Attention Autoencoder

Minghua Zhang, Yunfang Wu, Weikang Li and Wei Li

Word Mover's Embedding: From Word2Vec to Document Embedding

Lingfei Wu, Ian En-Hsu Yen, Kun Xu, Fangli Xu, Avinash Balakrishnan, Pin-Yu Chen, Pradeep Ravikumar and Michael J. Witbrock

Sunday, November 4, 2018 (continued)

Multilingual Clustering of Streaming News

Sebastião Miranda, Arturs Znotins, Shay B. Cohen and Guntis Barzdins

Multi-Task Label Embedding for Text Classification

Honglun Zhang, Liqiang Xiao, Wenqing Chen, Yongkun Wang and Yaohui Jin

Semantic-Unit-Based Dilated Convolution for Multi-Label Text Classification

Junyang Lin, Qi Su, Pengcheng Yang, Shuming Ma and Xu Sun

MCapsNet: Capsule Network for Text with Multi-Task Learning

Liqiang Xiao, Honglun Zhang, Wenqing Chen, Yongkun Wang and Yaohui Jin

Uncertainty-aware generative models for inferring document class prevalence

Katherine Keith and Brendan O'Connor

Challenges of Using Text Classifiers for Causal Inference

Zach Wood-Doughty, Ilya Shpitser and Mark Dredze

Direct Output Connection for a High-Rank Language Model

Sho Takase, Jun Suzuki and Masaaki Nagata

Disfluency Detection using Auto-Correlational Neural Networks

Paria Jamshid Lou, Peter Anderson and Mark Johnson

Pyramidal Recurrent Unit for Language Modeling

Sachin Mehta, Rik Koncel-Kedziorski, Mohammad Rastegari and Hannaneh Hajishirzi

On Tree-Based Neural Sentence Modeling

Haoyue Shi, Hao Zhou, Jiaze Chen and Lei Li

Language Modeling with Sparse Product of Sememe Experts

Yihong Gu, Jun Yan, Hao Zhu, Zhiyuan Liu, Ruobing Xie, Maosong Sun, Fen Lin and Leyu Lin

Sunday, November 4, 2018 (continued)

(TACL) Language Modeling for Morphologically Rich Languages: Character-Aware Modeling for Word-Level Prediction

Daniela Gerz, Ivan Vulic, Edoardo Maria, Jason Naradowsky, Roi Reichart, and Anna Korhonen

(TACL) Low-rank RNN Adaptation for Context-Aware Language Modeling

Aaron Jaech and Mari Ostendorf

Siamese Network-Based Supervised Topic Modeling

Minghui Huang, Yanghui Rao, Yuwei Liu, Haoran Xie and Fu Lee Wang

GraphBTM: Graph Enhanced Autoencoded Variational Inference for Biterm Topic Model

Qile Zhu, Zheng Feng and Xiaolin Li

Modeling Online Discourse with Coupled Distributed Topics

Akshay Srivatsan, Zachary Wojtowicz and Taylor Berg-Kirkpatrick

Learning Disentangled Representations of Texts with Application to Biomedical Abstracts

Sarthak Jain, Edward Banner, Jan-Willem van de Meent, Iain J Marshall and Byron C. Wallace

Multi-Source Domain Adaptation with Mixture of Experts

Jiang Guo, Darsh Shah and Regina Barzilay

Demo: Sisypheus, a Workflow Manager Designed for Machine Translation and Automatic Speech Recognition

Jan-Thorsten Peter, Eugen Beck, and Hermann Ney

Demo: APLenty: annotation tool for creating high-quality datasets using active and proactive learning

Minh-Quoc Nghiem and Sophia Ananiadou

Sunday, November 4, 2018 (continued)

Demo: KT-Speech-Crawler: Automatic Dataset Construction for Speech Recognition from YouTube Videos

Egor Lakomkin, Sven Magg, Cornelius Weber, and Stefan Wermter

Demo: Term Set Expansion based NLP Architect by Intel AI Lab

Jonathan Mamou, Oren Pereg, Moshe Wasserblat, Alon Eirew, Yael Green, Shira Guskin, Peter Izsak, and Daniel Korat

12:30–13:45 *Lunch*

13:00–13:45 *Business Meeting*

13:45–14:45 *Short Papers (Orals and Posters) IV*

Session 11A: Analyzing Models (Gold Hall)

13:45–13:57 *A Neural Model of Adaptation in Reading*

Marten van Schijndel and Tal Linzen

13:57–14:09 *Understanding Deep Learning Performance through an Examination of Test Set Difficulty: A Psychometric Case Study*

John Lalor, Hao Wu, Tsendsuren Munkhdalai and Hong Yu

14:09–14:21 *Lexicosyntactic Inference in Neural Models*

Aaron Steven White, Rachel Rudinger, Kyle Rawlins and Benjamin Van Durme

14:21–14:33 *Dual Fixed-Size Ordinally Forgetting Encoding (FOFE) for Competitive Neural Language Models*

Sedtawut Watcharawittayakul, Mingbin Xu and Hui Jiang

14:33–14:45 *The Importance of Being Recurrent for Modeling Hierarchical Structure*

Ke Tran, Arianna Bisazza and Christof Monz

Sunday, November 4, 2018 (continued)

Session 11B: Sentiment II (Copper Hall)

- 13:45–13:57 *Joint Learning for Targeted Sentiment Analysis*
Dehong Ma, Sujian Li and Houfeng Wang
- 13:57–14:09 *Revisiting the Importance of Encoding Logic Rules in Sentiment Classification*
Kalpesh Krishna, Preethi Jyothi and Mohit Iyyer
- 14:09–14:21 *A Co-Attention Neural Network Model for Emotion Cause Analysis with Emotional Context Awareness*
Xiangju Li, Kaisong Song, Shi Feng, Daling Wang and Yifei Zhang
- 14:21–14:33 *Modeling Empathy and Distress in Reaction to News Stories*
Sven Buechel, Anneke Buffone, Barry Slaff, Lyle Ungar and Joao Sedoc
- 14:33–14:45 *Interpretable Emoji Prediction via Label-Wise Attention LSTMs*
Francesco Barbieri, Luis Espinosa Anke, Jose Camacho-Collados, Steven Schockaert and Horacio Saggion

Session 11C: Machine Translation IV (Silver Hall)

- 13:45–13:57 *A Tree-based Decoder for Neural Machine Translation*
Xinyi Wang, Hieu Pham, Pengcheng Yin and Graham Neubig
- 13:57–14:09 *Greedy Search with Probabilistic N-gram Matching for Neural Machine Translation*
Chenze Shao, Xilin Chen and Yang Feng
- 14:09–14:21 *Exploring Recombination for Efficient Decoding of Neural Machine Translation*
Zhisong Zhang, Rui Wang, Masao Utiyama, Eiichiro Sumita and Hai Zhao
- 14:21–14:33 *Has Machine Translation Achieved Human Parity? A Case for Document-level Evaluation*
Samuel Läubli, Rico Sennrich and Martin Volk
- 14:33–14:45 *Automatic Reference-Based Evaluation of Pronoun Translation Misses the Point*
Liane Guillou and Christian Hardmeier

Sunday, November 4, 2018 (continued)

Session 11D: QA / Knowledge Graphs (Hall 100)

- 13:45–13:57 *FewRel: A Large-Scale Supervised Few-Shot Relation Classification Dataset with State-of-the-Art Evaluation*
Xu Han, Hao Zhu, Pengfei Yu, Ziyun Wang, Yuan Yao, Zhiyuan Liu and Maosong Sun
- 13:57–14:09 *A strong baseline for question relevancy ranking*
Ana Gonzalez, Isabelle Augenstein and Anders Søgaard
- 14:09–14:21 *Learning Sequence Encoders for Temporal Knowledge Graph Completion*
Alberto Garcia-Duran, Sebastijan Dumančić and Mathias Niepert
- 14:21–14:33 *Similar but not the Same: Word Sense Disambiguation Improves Event Detection via Neural Representation Matching*
Weiyi Lu and Thien Huu Nguyen
- 14:33–14:45 *Learning Word Representations with Cross-Sentence Dependency for End-to-End Co-reference Resolution*
Hongyin Luo and Jim Glass

Session 11E: Short Posters IV (Grand Hall 2)

- Word Relation Autoencoder for Unseen Hypernym Extraction Using Word Embeddings*
Hong-You Chen, Cheng-Syuan Lee, Keng-Te Liao and Shou-de Lin
- Refining Pretrained Word Embeddings Using Layer-wise Relevance Propagation*
Akira Utsumi
- Learning Gender-Neutral Word Embeddings*
Jieyu Zhao, Yichao Zhou, Zeyu Li, Wei Wang and Kai-Wei Chang
- Learning Concept Abstractness Using Weak Supervision*
Ella Rabinovich, Benjamin Sznajder, Artem Spector, Ilya Shnayderman, Ranit Aharonov, David Konopnicki and Noam Slonim
- Word Sense Induction with Neural biLM and Symmetric Patterns*
Asaf Amrami and Yoav Goldberg

Sunday, November 4, 2018 (continued)

InferLite: Simple Universal Sentence Representations from Natural Language Inference Data

Jamie Kiros and William Chan

Similarity-Based Reconstruction Loss for Meaning Representation

Olga Kovaleva, Anna Rumshisky and Alexey Romanov

What can we learn from Semantic Tagging?

Mostafa Abdou, Artur Kulmizev, Vinit Ravishankar, Lasha Abzianidze and Johan Bos

Conditional Word Embedding and Hypothesis Testing via Bayes-by-Backprop

Rujun Han, Michael Gill, Arthur Spirling and Kyunghyun Cho

Classifying Referential and Non-referential It Using Gaze

Victoria Yaneva, Le An Ha, Richard Evans and Ruslan Mitkov

State-of-the-art Chinese Word Segmentation with Bi-LSTMs

Ji Ma, Kuzman Ganchev and David Weiss

Sanskrit Sandhi Splitting using seq2(seq)2

Rahul Aralikatte, Neelamadhav Gantayat, Naveen Panwar, Anush Sankaran and Senthil Mani

Unsupervised Neural Word Segmentation for Chinese via Segmental Language Modeling

Zhiqing Sun and Zhi-Hong Deng

LemmaTag: Jointly Tagging and Lemmatizing for Morphologically Rich Languages with BRNNs

Daniel Kondratyuk, Tomáš Gavenčíak, Milan Straka and Jan Hajič

Recovering Missing Characters in Old Hawaiian Writing

Brendan Shillingford and Oiwi Parker Jones

When data permutations are pathological: the case of neural natural language inference

Natalie Schluter and Daniel Varab

Bridging Knowledge Gaps in Neural Entailment via Symbolic Models

Dongyeop Kang, Tushar Khot, Ashish Sabharwal and Peter Clark

Sunday, November 4, 2018 (continued)

The BQ Corpus: A Large-scale Domain-specific Chinese Corpus For Sentence Semantic Equivalence Identification

Jing Chen, Qingcai Chen, Xin Liu, Haijun Yang, Daohe Lu and Buzhou Tang

Interpreting Recurrent and Attention-Based Neural Models: a Case Study on Natural Language Inference

Reza Ghaeini, Xiaoli Fern and Prasad Tadepalli

Towards Semi-Supervised Learning for Deep Semantic Role Labeling

Sanket Vaibhav Mehta, Jay Yoon Lee and Jaime Carbonell

Identifying Domain Adjacent Instances for Semantic Parsers

James Ferguson, Janara Christensen, Edward Li and Edgar González

Mapping natural language commands to web elements

Panupong Pasupat, Tian-Shun Jiang, Evan Liu, Kelvin Guu and Percy Liang

Wronging a Right: Generating Better Errors to Improve Grammatical Error Detection

Sudhanshu Kasewa, Pontus Stenetorp and Sebastian Riedel

Modeling Input Uncertainty in Neural Network Dependency Parsing

Rob van der Goot and Gertjan van Noord

Parameter sharing between dependency parsers for related languages

Miryam de Lhoneux, Johannes Bjerva, Isabelle Augenstein and Anders Søgaard

Grammar Induction with Neural Language Models: An Unusual Replication

Phu Mon Htut, Kyunghyun Cho and Samuel Bowman

Data Augmentation via Dependency Tree Morphing for Low-Resource Languages

Gozde Gul Sahin and Mark Steedman

14:45–15:00 *Mini-Break*

15:00–16:00 *Keynote III: Johan Bos "The Moment of Meaning and the Future of Computational Semantics" (Gold Hall)*

Sunday, November 4, 2018 (continued)

16:00–16:30 *Coffee Break*

16:30–18:00 *Best Paper Awards and Closing (Gold Hall)*

16:30–16:42 *How Much Reading Does Reading Comprehension Require? A Critical Investigation of Popular Benchmarks*

Divyansh Kaushik and Zachary C. Lipton

16:42–17:00 *MultiWOZ - A Large-Scale Multi-Domain Wizard-of-Oz Dataset for Task-Oriented Dialogue Modelling*

Paweł Budzianowski, Tsung-Hsien Wen, Bo-Hsiang Tseng, Iñigo Casanueva, Stefan Ultes, Osman Ramadan and Milica Gasic

17:00–17:18 *Linguistically-Informed Self-Attention for Semantic Role Labeling*

Emma Strubell, Patrick Verga, Daniel Andor, David Weiss and Andrew McCallum

17:18–17:36 *Phrase-Based & Neural Unsupervised Machine Translation*

Guillaume Lample, Myle Ott, Alexis Conneau, Ludovic Denoyer and Marc’Aurelio Ranzato