

ACL 2020

**The 58th Annual Meeting of the
Association for Computational Linguistics**

Proceedings of the Student Research Workshop

July 5 - July 10, 2020

©2020 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 978-1-952148-03-3

Introduction

Welcome to the ACL 2020 Student Research Workshop!

The ACL 2020 Student Research Workshop (SRW) is a forum for student researchers in computational linguistics and natural language processing. The workshop provides a unique opportunity for student participants to present their work and receive valuable feedback from the international research community as well as from faculty mentors.

Following the tradition of the previous student research workshops, we have two tracks: research papers and thesis proposals. The research paper track is a venue for Ph.D. students, Masters students, and advanced undergraduates to describe completed work or work-in-progress along with preliminary results. The thesis proposal track is offered for advanced Masters and Ph.D. students who have decided on a thesis topic and are interested in feedback on their proposal and ideas about future directions for their work.

This year, the student research workshop has received considerable attention, reflecting the growth of the field. We received 137 submissions in total: 10 thesis proposals and 127 research papers. Among these, 12 research papers were non-archival. We accepted 49 papers, with an acceptance rate of 36%. After withdrawals and excluding non-archival papers, 43 papers appear in these proceedings, including six thesis proposals and 37 research papers. All the accepted papers will be presented virtually, as a part of the main conference, spread across three days (July 6th-8th).

Mentoring is at the heart of the SRW. In keeping with previous years, we had a pre-submission mentoring program before the submission deadline. A total of 57 papers participated in the pre-submission mentoring program. This program offered students the opportunity to receive comments from an experienced researcher to improve the writing style and presentation of their submissions. Additionally, authors of accepted SRW papers were matched with mentors to review their camera-ready drafts and conference presentations.

We are deeply grateful to our sponsors, including the National Science Foundation and the Don and Betty Walker Scholarship Fund. We also thank Grammarly for offering writing assistance to the authors of SRW papers. We thank our program committee members for their careful reviews of each paper and all of our mentors for donating their time to provide feedback to our student authors. Thank you to our faculty advisors, Omri Abend, Sujian Li, and Zhou Yu, for their essential advice and guidance, and to the ACL 2020 organizing committee for their support. Finally, thank you to our student participants!

Organizers:

Shruti Rijhwani - Carnegie Mellon University
Rotem Dror - Technion - Israel Institute of Technology
Jiangming Liu - The University of Edinburgh
Yizhong Wang - University of Washington

Faculty Advisors:

Omri Abend - Hebrew University of Jerusalem
Sujian Li - Peking University
Zhou Yu - University of California, Davis

Pre-submission Mentors:

Valerio Basile - University of Turin
Alexandra Birch - The University of Edinburgh
Yufeng Chen - Beijing Jiaotong University
David Chiang - University of Notre Dame
Eunsol Choi - Google AI
Lucia Donatelli - Saarland University
Greg Durrett - The University of Texas, Austin
Yansong Feng - Peking University
Lea Frermann - University of Melbourne
Yang Gao - Beijing Institute of Technology
Matt Gardner - Allen Institute for Artificial Intelligence
Gunhee Kim - Seoul National University
Pengfei Liu - Carnegie Mellon University
Vincent Ng - The University of Texas at Dallas
Dong Nguyen - Utrecht University
Yuval Pinter - Georgia Institute of Technology
Sai Krishna Rallabandi - Carnegie Mellon University
Melissa Roemmle - SDL
Sebastian Ruder - DeepMind
Rachel Rudinger - Allen Institute for Artificial Intelligence
Carolina Scarton - The University of Sheffield
Roy Schwartz - Allen Institute for Artificial Intelligence
Vered Shwartz - Allen Institute for Artificial Intelligence
Sameer Singh - University of California, Irvine
Sunayana Sitaram - Microsoft Research Lab India
David Smith - Northeastern University
Swabha Swayamdipta - Allen Institute for Artificial Intelligence
Alakananda Vempala - Bloomberg
Bonnie Webber - The University of Edinburgh
Arkaitz Zubiaga - Queen Mary University of London

Post-acceptance Mentors:

Sumeet Agarwal - Indian Institute of Technology Delhi
Reinald Kim Amplayo - University of Edinburgh
Jorge Balazs - University of Tokyo
Valerio Basile - University of Turin
Rishi Bommasani - Cornell University
Siddharth Dalmia - Carnegie Mellon University
Chris Develder - Ghent University
Denis Emelin - University of Edinburgh
Amir Feder - Technion - Israel Institute of Technology
Dayne Freitag - SRI International
Diana Galvan-Sosa - Tohoku University
Yang Gao - Beijing Institute of Technology
Tirthankar Ghosal - Indian Institute of Technology Patna
Dan Goldwasser - Purdue University
Nitish Gupta - University of Pennsylvania
Vivek Gupta - University of Utah
Junxian He - Carnegie Mellon University
saghar Hosseini - Microsoft Research
Dirk Hovy - Bocconi University
Ehsan Kamalloo - University of Alberta
Sudipta Kar - University of Houston
Alina Karakanta - University of Trento
Parisa Kordjamshidi - Michigan State University
Sachin Kumar - Carnegie Mellon University
Jonathan K. Kummerfeld - University of Michigan
Debanjan Mahata - Bloomberg
Emma Manning - Georgetown University
Amita Misra - IBM Research
Kenton Murray - Johns Hopkins University
Vincent Ng - University of Texas at Dallas
Vincent Nguyen - Australian National University
Natalie Parde - University of Illinois at Chicago
Jakob Prange - Georgetown University
Sebastian Ruder - DeepMind
sepideh sadeghi - Uber Technologies Inc.
Farig Sadeque - Boston Children's Hospital
Sebastian Schuster - Stanford University
Sunayana Sitaram - Microsoft Research India
Richard Sproat - Google, Japan
Gabriel Stanovsky - University of Washington
Rob Voigt - Northwestern University
Andy Way - Dublin City University
Bonnie Webber - University of Edinburgh
John Wieting - Carnegie Mellon University
Steven Wilson - University of Edinburgh
Michael Yoder - Carnegie Mellon University
Vicky Zayats - University of Washington
Shuyan Zhou - Carnegie Mellon University
Arkaitz Zubiaga - Queen Mary University of London

Program Committee:

Pranav A - Dayta AI
Oshin Agarwal - University of Pennsylvania
Sumeet Agarwal - Indian Institute of Technology Delhi
Piush Aggarwal - University of Duisburg-Essen
Manex Agirrezabal - University of Copenhagen
Afroz Ahamad - BITS Pilani Hyderabad Campus
Chris Alberti - Google
Rami Aly - University of Cambridge
Bharat Ram Ambati - Apple Inc.
Aida Amini - University of Washington
Reinald Kim Amplayo - University of Edinburgh
Maria Antoniak - Cornell University
Mattias Appelgren - University of Edinburgh
Zahra Azin - Istanbul Technical University
Vidhisha Balachandran - Carnegie Mellon University
Anusha Balakrishnan - Microsoft Semantic Machines
Jorge Balazs - University of Tokyo
Valerio Basile - University of Turin
Antonia Baumann - Trinity College Dublin
Rachel Bawden - University of Edinburgh
Eyal Ben-David - Technion - Israel Institute of Technology
Anjali Bhavan - Delhi Technological University
Tatiana Bladier - Heinrich Heine University of Düsseldorf
Eduardo Blanco - University of North Texas
Rishi Bommasani - Cornell University
Samuel R. Bowman - New York University
Rui Cai - University of Edinburgh
Ruket Cakici - NTENT Hispania
Ronald Cardenas - Charles University
Arlene Casey - University of Edinburgh
Lisa Andreevna Chalaguine - UCL
Khyathi Raghavi Chandu - Carnegie Mellon University
Jonathan P. Chang - Cornell University
Aditi Chaudhary - Carnegie Mellon University
Emily Chen - University of Illinois Urbana-Champaign
Liwei Chen - Peking University
Sihao Chen - University of Pennsylvania
Zhouhan Chen - New York University
Leshem Choshen - Hebrew University Jerusalem Israel
J. Alberto Conejero - Universitat Politècnica de València
Xiang Dai - University of Sydney
Siddharth Dalmia - Carnegie Mellon University
Samvit Dammalapati - Indian Institute of Technology Delhi
Alok Debnath - International Institute of Information Technology, Hyderabad
Luciano Del Corro - Goldman Sachs
Pieter Delobelle - KU Leuven
David Demeter - Northwestern University
Neşat Dereli - Boğaziçi University
Chris Develder - Ghent University
Flavio Di Palo - University of Illinois at Chicago

Radina Dobreva - University of Edinburgh
Lucia Donatelli - Saarland University
Rachel Dorn - Johns Hopkins University
Zi-Yi Dou - Carnegie Mellon University
Rafael Ehren - Heinrich-Heine-Universität Düsseldorf
Hicham El Boukkouri - LIMSI, CNRS, Université Paris-Saclay
Denis Emelin - University of Edinburgh
Carlos Escolano - Universitat Politècnica de Catalunya
Kurt Junshean Espinosa - University of the Manchester
Luis Espinosa Anke - Cardiff University
Tina Fang - University of Waterloo
Murhaf Fares - University of Oslo
Amir Feder - Technion - Israel Institute of Technology
Jared Fernandez - Northwestern University
Anjalie Field - Carnegie-Mellon University
Dayne Freitag - SRI International
Lea Frermann - Melbourne University
Daniel Fried - UC Berkeley
Yoshinari Fujinuma - University of Colorado
David Gaddy - University of California, Berkeley
Diana Galvan-Sosa - Tohoku University
Yang Gao - Beijing Institute of Technology
Marcos Garcia - Universidade da Corunha
Reza Ghaeini - Oregon State University
Tirthankar Ghosal - Indian Institute of Technology Patna
Arijit Ghosh Chowdhury - Manipal Institute of Technology
Seraphina Goldfarb-Tarrant - University of Washington
Dan Goldwasser - Purdue University
Vivek Gupta - University of Utah
Nitish Gupta - University of Pennsylvania
Abhinav Gupta - Mila
Sarah Gupta - University of Washington
Wen-Bin Han - National Tsing Hua University
Hardy Hardy - The University of Sheffield
Hiroaki Hayashi - Carnegie Mellon University
Junxian He - Carnegie Mellon University
Ji He - Citadel LLC
Jack Hessel - Cornell University
Barbora Hladka - Charles University
Ari Holtzman - University of Washington
saghar Hosseini - Microsoft Research
Dirk Hovy - Bocconi University
Phu Mon Htut - New York University
Junjie Hu - Carnegie Mellon University
Po-Yao Huang - Carnegie Mellon University
Glorianna Jagfeld - University of Lancaster
Labiba Jahan - Florida International University
Mimansa Jaiswal - University of Michigan
Mona Jalal - Boston University
Jyoti Jha - IIIT Hyderabad
Jad Kabbara - McGill University - MILA

Tomoyuki Kajiwara - Osaka University
Ehsan Kamaloo - University of Alberta
Zara Kancheva - IICT-BAS
Sudipta Kar - University of Houston
Alina Karakanta - Fondazione Bruno Kessler (FBK), University of Trento
Yohan Karunananayake - University of Moratuwa
Divyansh Kaushik - Carnegie Mellon University
Urvashi Khandelwal - Stanford University
Huda Khayrallah - Johns Hopkins University
Najoung Kim - Johns Hopkins University
Ekaterina Kochmar - University of Cambridge
Philipp Koehn - Johns Hopkins University
Taiwo Kolajo - Federal University Lokoja
Mamoru Komachi - Tokyo Metropolitan University
Xiang Kong - Carnegie Mellon University
Parisa Kordjamshidi - Michigan State University
Mandy Korpusik - Loyola Marymount University
Kalpesh Krishna - University of Massachusetts Amherst
Sachin Kumar - Carnegie Mellon University
Jonathan K. Kummerfeld - University of Michigan
Kemal Kurniawan - University of Melbourne
Yash Kumar Lal - Johns Hopkins University
Alexandra Lavrentovich - Amazon Alexa
Yiyuan Li - Carnegie Mellon University
Bowen Li - University of Edinburgh
Lei Li - Xidian University
Juncheng Li - Carnegie Mellon University
Junwei Liang - Carnegie Mellon University
Jasy Suet Yan Liew - Syracuse University
Kevin Lin - University of Washington
Zhengzhong Liu - Carnegie Mellon University
Jingzhou Liu - Carnegie Mellon University
Fei Liu - University of Central Florida
Pengfei Liu - Carnegie Mellon University
Fangyu Liu - University of Cambridge
Robert L Logan IV - University of California, Irvine
Di Lu - Dataminr
Kevin Lybarger - University of Washington
Chunchuan Lyu - The University of Edinburgh
Debanjan Mahata - Bloomberg
Shervin Malmasi - Harvard Medical School
Valentin Malykh - Huawei
Radhika Mamidi - IIIT Hyderabad
Emma Manning - Georgetown University
Pedro Henrique Martins - Instituto de Telecomunicações, Instituto Superior Técnico
Katherine McCurdy - University of Edinburgh
Shikib Mehri - Carnegie Mellon University
Omid Memarrast - University of Illinois at Chicago
Rui Meng - University of Pittsburgh
Antonio Valerio Miceli Barone - The University of Edinburgh
Tsvetomila Mihaylova - Instituto de Telecomunicações

Farjana Sultana Mim - Tohoku University
Koji Mineshima - Keio University
Gosse Minnema - University of Groningen
Amita Misra - IBM Research
Saif Mohammad - NRC
Seungwhan Moon - Facebook Conversational AI
Nora Muheim - University of Zürich
Kenton Murray - Johns Hopkins University
sachin nagargoje - Microsoft
Masaaki Nagata - NTT Corporation
Chirag Nagpal - Carnegie Mellon University
Aakanksha Naik - Carnegie Mellon University
Durgesh Nandini - University of Bamberg
Nikita Nangia - New York University
Nihal V. Nayak - Brown University
Denis Newman-Griffis - National Institutes of Health Clinical Center
Vincent Ng - University of Texas at Dallas
Dat Quoc Nguyen - VinAI Research
Vincent Nguyen - Australian National University, CSIRO Data61
Yasumasa Onoe - The University of Texas at Austin
Silviu Oprea - University of Edinburgh
Naoki Otani - Carnegie Mellon University
Endang Wahyu Pamungkas - University of Turin
Xiaoman Pan - University of Illinois at Urbana-Champaign
Alexander Panchenko - Skolkovo Institute of Science and Technology
Sheena Panthaplatzel - The University of Texas at Austin
Natalie Parde - University of Illinois at Chicago
Archita Pathak - University at Buffalo (SUNY)
Tom Pelsmaeker - University of Edinburgh
Siyao Peng - Georgetown University
Jakob Prange - Georgetown University
Adithya Pratapa - Carnegie Mellon University
Longhua Qian - Soochow University
Yusu Qian - New York University
Ivaylo Radev - IICT-BAS
Sai Krishna Rallabandi - Carnegie Mellon University
Sree Harsha Ramesh - UMass Amherst
Vikas Raunak - CMU
Abhilasha Ravichander - Carnegie Mellon University
Kirk Roberts - University of Texas Health Science Center at Houston
Guy Rotman - Technion, IIT
Sebastian Ruder - DeepMind
Maria Ryskina - Carnegie Mellon University
sepideh sadeghi - Uber Technologies Inc.
Farig Sadeque - Boston Children's Hospital
Jin Sakuma - University of Tokyo
Younes Samih - Qatar Computing Research Institute
Ramon Sanabria - The University Of Edinburgh
Jainisha Sankhvara - DA-IICT
Enrico Santus - MIT
Ryohei Sasano - Nagoya University

Ramit Sawhney - Netaji Subhas Institute of Technology
Michael Sejr Schlichtkrull - University of Amsterdam
Sebastian Schuster - Stanford University
Roy Schwartz - The Allen Institute for AI
Indira Sen - GESIS
Hamed Shahbazi - Oregon State University
Gautam Kishore Shahi - University of Trento, Italy
Muhammad Abu Bakar Siddique - University of California, Riverside
Sonit Singh - Macquarie University
Kushagra Singh - Cure.fit
Sunayana Sitaram - Microsoft Research India
Sergey Smetanin - National Research University Higher School of Economics
Denis Smirnov - National Research University Higher School of Economics
Marco Antonio Sobrevilla Cabezudo - University of São Paulo
Katira Soleymanzadeh - Ege University
Thamar Solorio - UH
Sandeep Soni - Georgia Institute of Technology
Evangelia Spiliopoulou - Carnegie Mellon University
Daniel Spokoyny - CMU
Richard Sproat - Google, Japan
Tejas Srinivasan - Carnegie Mellon University
Marija Stanojevic - Temple University
Gabriel Stanovsky - University of Washington
Sanjay Subramanian - Allen Institute for Artificial Intelligence
Umut Sulubacak - University of Helsinki
Shabnam Tafreshi - The George Washington University
Tan Thongtan - Mahidol University
Taha Tobaili - The Open University
Elena Tutubalina - Kazan Federal University
Muaz Urwa - New York University
Sowmya Vajjala - National Research Council
Aline Villavicencio - University of Sheffield, UK
Rob Voigt - Northwestern University
Teodora Vukovic - University of Zurich
Ivan Vulić - University of Cambridge
Andy Way - ADAPT, Dublin City University
Bonnie Webber - University of Edinburgh
John Wieting - Carnegie Mellon University
Adina Williams - Facebook Inc.
Steven Wilson - University of Edinburgh
Shuly Wintner - University of Haifa
Yumo Xu - University of Edinburgh
Hitomi Yanaka - RIKEN AIP
Fan Yang - University of Houston
Rongtian Ye - Aalto University
Da Yin - Peking University
Michael Yoder - Carnegie Mellon University
Vicky Zayats - University of Washington
Omnia Zayed - PhD Student - National University of Ireland Galway
Meishan Zhang - Tianjin University, China
Haoran Zhang - University of Pittsburgh

Shiyue Zhang - The University of North Carolina at Chapel Hill

Yanpeng Zhao - The University of Edinburgh

Pei Zhou - University of Southern California

Chunting Zhou - Carnegie Mellon University

Zhong Zhou - Carnegie Mellon University

Shuyan Zhou - Carnegie Mellon University

Hao Zhu - Carnegie Mellon University

Arkaitz Zubiaga - Queen Mary University of London

Table of Contents

<i>Adaptive Transformers for Learning Multimodal Representations</i>	
Prajwal Bhargava	1
<i>Story-level Text Style Transfer: A Proposal</i>	
Yusu Qian.....	8
<i>Unsupervised Paraphasia Classification in Aphasic Speech</i>	
Sharan Pai, Nikhil Sachdeva, Prince Sachdeva and Rajiv Ratn Shah	13
<i>HGCN4MeSH: Hybrid Graph Convolution Network for MeSH Indexing</i>	
Miaomiao Yu, Yujiu Yang and Chenhui Li.....	20
<i>Grammatical Error Correction Using Pseudo Learner Corpus Considering Learner's Error Tendency</i>	
Yujin Takahashi, Satoru Katsumata and Mamoru Komachi	27
<i>Research on Task Discovery for Transfer Learning in Deep Neural Networks</i>	
Arda Akdemir	33
<i>RPD: A Distance Function Between Word Embeddings</i>	
Xuhui Zhou, Shujian Huang and Zaixiang Zheng	42
<i>Reflection-based Word Attribute Transfer</i>	
Yoichi Ishibashi, Katsuhito Sudoh, Koichiro Yoshino and Satoshi Nakamura.....	51
<i>Topic Balancing with Additive Regularization of Topic Models</i>	
Eugeniiia Veselova and Konstantin Vorontsov	59
<i>Combining Subword Representations into Word-level Representations in the Transformer Architecture</i>	
Noe Casas, Marta R. Costa-jussà and José A. R. Fonollosa	66
<i>Zero-shot North Korean to English Neural Machine Translation by Character Tokenization and Phoneme Decomposition</i>	
Hwican Kim, Tosho Hirasawa and Mamoru Komachi	72
<i>Media Bias, the Social Sciences, and NLP: Automating Frame Analyses to Identify Bias by Word Choice and Labeling</i>	
Felix Hamborg	79
<i>SCAR: Sentence Compression using Autoencoders for Reconstruction</i>	
Chanakya Malireddy, Tirth Maniar and Manish Srivastava	88
<i>Feature Difference Makes Sense: A medical image captioning model exploiting feature difference and tag information</i>	
Hyeryun Park, Kyungmo Kim, Jooyoung Yoon, Seongkeun Park and Jinwook Choi	95
<i>Multi-Task Neural Model for Agglutinative Language Translation</i>	
Yirong Pan, Xiao Li, Yating Yang and Rui Dong.....	103
<i>Considering Likelihood in NLP Classification Explanations with Occlusion and Language Modeling</i>	
David Harbecke and Christoph Alt	111
<i>Non-Topical Coherence in Social Talk: A Call for Dialogue Model Enrichment</i>	
Alex Luu and Sophia A. Malamud	118

<i>Why is penguin more similar to polar bear than to sea gull? Analyzing conceptual knowledge in distributional models</i>	
Pia Sommerauer	134
<i>A Simple and Effective Dependency Parser for Telugu</i>	
Sneha Nallani, Manish Shrivastava and Dipti Sharma	143
<i>Pointwise Paraphrase Appraisal is Potentially Problematic</i>	
Hannah Chen, Yangfeng Ji and David Evans	150
<i>Let's be Humorous: Knowledge Enhanced Humor Generation</i>	
Hang Zhang, Dayiheng Liu, Jiancheng Lv and Luo Cheng	156
<i>Efficient Neural Machine Translation for Low-Resource Languages via Exploiting Related Languages</i>	
Vikrant Goyal, Sourav Kumar and Dipti Misra Sharma	162
<i>Exploring Interpretability in Event Extraction: Multitask Learning of a Neural Event Classifier and an Explanation Decoder</i>	
Zheng Tang, Gus Hahn-Powell and Mihai Surdeanu	169
<i>Crossing the Line: Where do Demographic Variables Fit into Humor Detection?</i>	
J. A. Meaney	176
<i>Effectively Aligning and Filtering Parallel Corpora under Sparse Data Conditions</i>	
Steinþór Steingrímsson, Hrafn Loftsson and Andy Way	182
<i>Understanding Points of Correspondence between Sentences for Abstractive Summarization</i>	
Logan Lebanoff, John Muchovej, Franck Dernoncourt, Doo Soon Kim, Lidan Wang, Walter Chang and Fei Liu	191
<i>uBLEU: Uncertainty-Aware Automatic Evaluation Method for Open-Domain Dialogue Systems</i>	
Tsuta Yuma, Naoki Yoshinaga and Masashi Toyoda	199
<i>To compress or not to compress? A Finite-State approach to Nen verbal morphology</i>	
Saliha Muradoglu, Nicholas Evans and Hanna Suominen	207
<i>AraDIC: Arabic Document Classification Using Image-Based Character Embeddings and Class-Balanced Loss</i>	
Mahmoud Daif, Shunsuke Kitada and Hitoshi Iyatomi	214
<i>Embeddings of Label Components for Sequence Labeling: A Case Study of Fine-grained Named Entity Recognition</i>	
Takuma Kato, Kaori Abe, Hiroki Ouchi, Shumpei Miyawaki, Jun Suzuki and Kentaro Inui	222
<i>Building a Japanese Typo Dataset from Wikipedia's Revision History</i>	
Yu Tanaka, Yugo Murawaki, Daisuke Kawahara and Sadao Kurohashi	230
<i>Preventing Critical Scoring Errors in Short Answer Scoring with Confidence Estimation</i>	
Hiroaki Funayama, Shota Sasaki, Yuichiro Matsubayashi, Tomoya Mizumoto, Jun Suzuki, Masato Mita and Kentaro Inui	237
<i>How much complexity does an RNN architecture need to learn syntax-sensitive dependencies?</i>	
Gantavya Bhatt, Hritik Bansal, Rishabh Singh and Sumeet Agarwal	244
<i>Unsupervised Multilingual Sentence Embeddings for Parallel Corpus Mining</i>	
Ivana Kvapilová, Mikel Artetxe, Gorka Labaka, Eneko Agirre and Ondřej Bojar	255

<i>Logical Inferences with Comparatives and Generalized Quantifiers</i>	263
Izumi Haruta, Koji Mineshima and Daisuke Bekki	263
<i>Enhancing Word Embeddings with Knowledge Extracted from Lexical Resources</i>	271
Magdalena Biesialska, Bardia Rafieian and Marta R. Costa-jussà	271
<i>Pre-training via Leveraging Assisting Languages for Neural Machine Translation</i>	279
Haiyue Song, Raj Dabre, Zhuoyuan Mao, Fei Cheng, Sadao Kurohashi and Eiichiro Sumita	279
<i>Checkpoint Reranking: An Approach to Select Better Hypothesis for Neural Machine Translation Systems</i>	286
Vinay Pandramish and Dipti Misra Sharma	286
<i>Cross-Lingual Disaster-related Multi-label Tweet Classification with Manifold Mixup</i>	292
Jishnu Ray Chowdhury, Cornelia Caragea and Doina Caragea	292
<i>Inducing Grammar from Long Short-Term Memory Networks by Shapley Decomposition</i>	299
Yuhui Zhang and Allen Nie	299
<i>Exploring the Role of Context to Distinguish Rhetorical and Information-Seeking Questions</i>	306
Yuan Zhuang and Ellen Riloff.....	306
<i>Compositional Generalization by Factorizing Alignment and Translation</i>	313
Jacob Russin, Jason Jo, Randall O'Reilly and Yoshua Bengio	313
<i>#NotAWhole! A Computational Linguistic Perspective of Rape Culture and Victimization on Social Media</i>	328
Ashima Suvarna and Grusha Bhalla	328

