

27th Conference on Computational Natural Language Learning (CoNLL 2023)

Singapore
6 – 7 December 2023

ISBN: 978-1-7138-8585-6

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2023) by the Association for Computational Linguistics
All rights reserved.

Printed with permission by Curran Associates, Inc. (2024)

For permission requests, please contact the Association for Computational Linguistics
at the address below.

Association for Computational Linguistics
209 N. Eighth Street
Stroudsburg, Pennsylvania 18360

Phone: 1-570-476-8006

Fax: 1-570-476-0860

acl@aclweb.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

<i>Can Language Models Be Tricked by Language Illusions? Easier with Syntax, Harder with Semantics</i> Yuhan Zhang, Edward Gibson and Forrest Davis	1
<i>ToMChallenges: A Principle-Guided Dataset and Diverse Evaluation Tasks for Exploring Theory of Mind</i> Xiaomeng Ma, Lingyu Gao and Qihui Xu	15
<i>The Zipfian Challenge: Learning the statistical fingerprint of natural languages</i> Christian Bentz	27
<i>On the Effects of Structural Modeling for Neural Semantic Parsing</i> Xiang Zhang, Shizhu He, Kang Liu and Jun Zhao	38
<i>Humans and language models diverge when predicting repeating text</i> Aditya Vaidya, Javier Turek and Alexander Huth	58
<i>Investigating the Nature of Disagreements on Mid-Scale Ratings: A Case Study on the Abstractness-Concreteness Continuum</i> Urban Knuples, Diego Frassinelli and Sabine Schulte im Walde	70
<i>ArchBERT: Bi-Modal Understanding of Neural Architectures and Natural Languages</i> Mohammad Akbari, Saeed Ranjbar Alvar, Behnam Kamranian, Amin Banitalebi-Dehkordi and Yong Zhang	87
<i>A Comparative Study on Textual Saliency of Styles from Eye Tracking, Annotations, and Language Models</i> Karin de Langis and Dongyeop Kang	108
<i>PROPRES: Investigating the Projectivity of Presupposition with Various Triggers and Environments</i> Daiki Asami and Saku Sugawara	122
<i>A Minimal Approach for Natural Language Action Space in Text-based Games</i> Dongwon Ryu, Meng Fang, Gholamreza Haffari, Shirui Pan and Ehsan Shareghi	138
<i>Structural Ambiguity and its Disambiguation in Language Model Based Parsers: the Case of Dutch Clause Relativization</i> Gijs Wijnholds and Michael Moortgat	155
<i>On the utility of enhancing BERT syntactic bias with Token Reordering Pretraining</i> Yassir El Mesbahi, Atif Mahmud, Abbas Ghaddar, Mehdi Rezagholizadeh, Phillippe Langlais and Prasanna Parthasarathi	165
<i>Quirk or Palmer: A Comparative Study of Modal Verb Frameworks with Annotated Datasets</i> Risako Owan, Maria Gini and Dongyeop Kang	183
<i>Quantifying Information of Tokens for Simple and Flexible Simultaneous Machine Translation</i> DongHyun Lee, Minkyung Park and Byung-Jun Lee	200
<i>Enhancing Code-mixed Text Generation Using Synthetic Data Filtering in Neural Machine Translation</i> Dama Sravani and Radhika Mamidi	211

<i>Towards Better Evaluation of Instruction-Following: A Case-Study in Summarization</i> Ondrej Skopek, Rahul Aralikkatte, Sian Gooding and Victor Carbune	221
<i>Syntactic Inductive Bias in Transformer Language Models: Especially Helpful for Low-Resource Languages?</i> Luke Gessler and Nathan Schneider	238
<i>Attribution and Alignment: Effects of Local Context Repetition on Utterance Production and Comprehension in Dialogue</i> Aron Molnar, Jaap Jumelet, Mario Giulianelli and Arabella Sinclair	254
<i>The Validity of Evaluation Results: Assessing Concurrence Across Compositionality Benchmarks</i> Kaiser Sun, Adina Williams and Dieuwke Hupkes	274
<i>Mind the instructions: a holistic evaluation of consistency and interactions in prompt-based learning</i> Lucas Weber, Elia Bruni and Dieuwke Hupkes	294
<i>Med-HALT: Medical Domain Hallucination Test for Large Language Models</i> Ankit pal, Logesh Kumar Umapathi and Malaikannan Sankarasubbu	314
<i>Revising with a Backward Glance: Regressions and Skips during Reading as Cognitive Signals for Revision Policies in Incremental Processing</i> Brielen Madureira, Pelin Çelikkol and David Schlangen	335
<i>ChiSCor: A Corpus of Freely-Told Fantasy Stories by Dutch Children for Computational Linguistics and Cognitive Science</i> Bram van Dijk, Max van Duijn, Suzan Verberne and Marco Spruit	352
<i>HNC: Leveraging Hard Negative Captions towards Models with Fine-Grained Visual-Linguistic Comprehension Capabilities</i> Esra Dönmez, Pascal Tilli, Hsiu-Yu Yang, Ngoc Thang Vu and Carina Silberer	364
<i>Theory of Mind in Large Language Models: Examining Performance of 11 State-of-the-Art models vs. Children Aged 7-10 on Advanced Tests</i> Max van Duijn, Bram van Dijk, Tom Kouwenhoven, Werner de Valk, Marco Spruit and Peter vanderPutten	389
<i>A Block Metropolis-Hastings Sampler for Controllable Energy-based Text Generation</i> Jarad Forristal, Fatemehsadat Mireshghallah, Greg Durrett and Taylor Berg-Kirkpatrick	403
<i>How Fragile is Relation Extraction under Entity Replacements?</i> Yiwei Wang, Bryan Hooi, Fei Wang, Yujun Cai, Yuxuan Liang, Wenxuan Zhou, Jing Tang, Manjuan Duan and Muhao Chen	414
<i>JaSPICE: Automatic Evaluation Metric Using Predicate-Argument Structures for Image Captioning Models</i> Yuiga Wada, Kanta Kaneda and Komei Sugiura	424
<i>MuLER: Detailed and Scalable Reference-based Evaluation</i> Taelin Karidi, Leshem Choshen, Gal Patel and Omri Abend	436
<i>The Impact of Familiarity on Naming Variation: A Study on Object Naming in Mandarin Chinese</i> Yunke He, Xixian Liao, Jialing Liang and Gemma Boleda	456

<i>PSST! Prosodic Speech Segmentation with Transformers</i>	
Nathan Roll, Calbert Graham and Simon Todd	476
<i>Alignment via Mutual Information</i>	
Shinjini Ghosh, Yoon Kim, Ramon Fernandez Astudillo, Tahira Naseem and Jacob Andreas . .	488
<i>Challenging the "One Single Vector per Token" Assumption</i>	
Mathieu Dehouck	498
<i>Strategies to Improve Low-Resource Agglutinative Languages Morphological Inflection</i>	
Gulinigeer Abudouwaili, Wayit Ablez, Kahaerjiang Abiderexiti, Aishan Wumaier and Nian Yi	508
<i>Exploring Transformers as Compact, Data-efficient Language Models</i>	
Clayton Fields and Casey Kennington	521
<i>Tree-shape Uncertainty for Analyzing the Inherent Branching Bias of Unsupervised Parsing Models</i>	
Taiga Ishii and Yusuke Miyao	532
<i>Future Lens: Anticipating Subsequent Tokens from a Single Hidden State</i>	
Koyena Pal, Jiuding Sun, Andrew Yuan, Byron Wallace and David Bau	548
<i>Cross-Document Event Coreference Resolution: Instruct Humans or Instruct GPT?</i>	
Jin Zhao, Nianwen Xue and Bonan Min	561
<i>Implications of Annotation Artifacts in Edge Probing Test Datasets</i>	
Sagnik Ray Choudhury and Jushaan Kalra	575
<i>REFER: An End-to-end Rationale Extraction Framework for Explanation Regularization</i>	
Mohammad Reza Ghasemi Madani and Pasquale Minervini	587