28th Conference on Computational Natural Language Learning (CoNLL 2024)

Miami, Florida, USA
15-16 November 2024

ISBN: 979-8-3313-0842-1

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© (2024) by the Association for Computational Linguistics
All rights reserved.

Printed with permission by Curran Associates, Inc. (2025)

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

Words That Stick: Using Keyword Cohesion to Improve Text Segmentation
Amit Maraj, Miguel Vargas Martin and Masoud Makrehchi 1

Investigating large language models for their competence in extracting grammatically sound sentences from transcribed noisy utterances
Alina Wróblewska 10

Multi-Cultural Norm Base: Frame-based Norm Discovery in Multi-Cultural Settings
Viet Thanh Pham, Shilin QU, Farhad Moghimifar, Suraj Sharma, Yuan-Fang Li, Weiqing Wang and Reza Haf 24

Lossy Context Surprisal Predicts Task-Dependent Patterns in Relative Clause Processing
Kate McCurdy and Michael Hahn 36

Global-Pruner: A Stable and Efficient Pruner for Retraining-Free Pruning of Encoder-Based Language Models
Guangzhen Yao, Yuehan Wang, Hui Xu, Long Zhang and MiaoQI MiaoQI 46

Transformer verbatim in-context retrieval across time and scale
Kristijan Armeni, Marko Pranjić and Senja Pollak 56

EditEval: An Instruction-Based Benchmark for Text Improvements
Jane Dwivedi-Yu, Timo Schick, Zhengbao Jiang, Maria Lomeli, Patrick Lewis, Gautier Izacard, Edouard Grave, Sebastian Riedel and Fabio Petroni 69

An Empirical Comparison of Vocabulary Expansion and Initialization Approaches For Language Models
Nandini Mundra, Aditya Nanda Kishore Khandavally, Raj Dabre, Ratish Puduppully, Anoop Kunchukuttan and Mitesh M Khapra 84

Critical Questions Generation: Motivation and Challenges
Blanca Calvo Figueras and Rodrigo Agerri 105

Information Association for Language Model Updating by Mitigating LM-Logical Discrepancy
Pengfei Yu and Heng Ji 117

Causal ATE Mitigates Unintended Bias in Controlled Text Generation
Rahul Madhavan and Kahini Wadhawan 130

On Functional Competence of LLMs for Linguistic Disambiguation
Raihan Kibria, Sheikh Intiser Uddin Dipta and Muhammad Abdullah Adnan 143

AIStorySimilarity: Quantifying Story Similarity Using Narrative for Search, IP Infringement, and Guided Creativity
Jon Chun 161

SPAWNing Structural Priming Predictions from a Cognitively Motivated Parser
Grusha Prasad and Tal Linzen 178

Global Learning with Triplet Relations in Abstractive Summarization
Fengyu Lu, Jiaxin Duan and Junfei Liu 198

TpT-ADE: Transformer Based Two-Phase ADE Extraction
Suryamukhi Kuchibhotla and Manish Singh 209

The Effect of Surprisal on Reading Times in Information Seeking and Repeated Reading
Keren Gruteke Klein, Yoav Meiri, Omer Shubi and Yevgeni Berzak 219

Revisiting Hierarchical Text Classification: Inference and Metrics
Roman Plaud, Matthieu Labeau, Antoine Saillenfest and Thomas Bonald 231

NeLLCom-X: A Comprehensive Neural-Agent Framework to Simulate Language Learning and Group Communication
Yuchen Lian, Tessa Verhoef and Arianna Bisazza 243

A Novel Instruction Tuning Method for Vietnamese Mathematical Reasoning using Trainable Open-Source Large Language Models
Nguyen Quang Vinh, Thanh-Do Nguyen, Vinh Van Nguyen and Nam Khac-Hoai Bui 259

Generalizations across filler-gap dependencies in neural language models
Katherine Howitt, Sathvik Nair, Allison Dods and Robert Melvin Hopkins 269

Of Models and Men: Probing Neural Networks for Agreement Attraction with Psycholinguistic Data
Maxim Bazhukov, Ekaterina Voloshina, Sergey Pletenev, Arseny Anisimov, Oleg Serikov and Svetlana Toldova 280

Is Structure Dependence Shaped for Efficient Communication?: A Case Study on Coordination
Kohei Kajikawa, Yusuke Kubota and Yohei Oseki 291

Large Language Model Recall Uncertainty is Modulated by the Fan Effect
Jesse Roberts, Kyle Moore, Douglas Fisher, Oseremhen Ewaleifoh and Thao Pham 303

Continuous Attentive Multimodal Prompt Tuning for Few-Shot Multimodal Sarcasm Detection
Soumyadeep Jana, Animesh Dey and Ranbir Singh Sanasam 314

Aligning Alignments: Do Colexification and Distributional Similarity Align as Measures of cross-lingual Lexical Alignment?
Taelin Karidi, Eitan Grossman and Omri Abend 327

Text2Afford: Probing Object Affordance Prediction abilities of Language Models solely from Text
Sayantan Adak, Daivik Agrawal, Animesh Mukherjee and Somak Aditya 342

How Are Metaphors Processed by Language Models? The Case of Analogies
Joanne Boisson, Asahi Ushio, Hsuvas Borkakoty, Kiamehr Rezaee, Dimosthenis Antypas, Zara Siddique, Nina White and Jose Camacho-Collados 365

Further Compressing Distilled Language Models via Frequency-aware Partial Sparse Coding of Embeddings
Kohki Tamura, Naoki Yoshinaga and Masato Neishi 388

Translating Across Cultures: LLMs for Intralingual Cultural Adaptation
Pushpdeep Singh, Mayur Patidar and Lovekesh Vig 400

Explaining the Hardest Errors of Contextual Embedding Based Classifiers
Claudio Moisés Valiense De Andrade, Washington Cunha, Guilherme Fonseca, Ana Clara Souza Pagano, Luana De Castro Santos, Adriana Silvina Pagano, Leonardo Chaves Dutra Da Rocha and Marcos André Gonçalves 419

A Multimodal Large Language Model "Foresees" Objects Based on Verb Information but Not Gender
Shuqi Wang, Xufeng Duan and Zhenguang Cai 435

PRACT: Optimizing Principled Reasoning and Acting of LLM Agent
Zhiwei Liu, Weiran Yao, Jianguo Zhang, Zuxin Liu, Liangwei Yang, Rithesh R N, Tian Lan, Ming Zhu, Juntao Tan, Shirley Kokane, Thai Quoc Hoang, Juan Carlos Niebles, Shelby Heinecke, Huan Wang, Silvio Savarese and Caiming Xiong 442

Image-conditioned human language comprehension and psychometric benchmarking of visual language models
Subha Nawer Pushpita and Roger P. Levy 447

Self-supervised speech representations display some human-like cross-linguistic perceptual abilities
Joselyn Rodriguez, Kamala Sreepada, Ruolan Leslie Famularo, Sharon Goldwater and Naomi Feldman 458

One-Vs-Rest Neural Network English Grapheme Segmentation: A Linguistic Perspective
Samuel Rose, Nina Dethlefs and C. Kambhampati 464

CrowdCounter: A benchmark type-specific multi-target counterspeech dataset
Punyajoy Saha, Abhilash Datta, Abhik Jana and Animesh Mukherjee 470

Solving the Challenge Set without Solving the Task: On Winograd Schemas as a Test of Pronominal Coreference Resolution
Ian Porada and Jackie CK Cheung 489

Advancing Arabic Sentiment Analysis: ArSen Benchmark and the Improved Fuzzy Deep Hybrid Network
Yang Fang, Cheng Xu, Shuhao Guan, Nan Yan and Yuke Mei 507

Leveraging a Cognitive Model to Measure Subjective Similarity of Human and GPT-4 Written Content
Tyler Malloy, Maria José Ferreira, Fei Fang and Cleotilde Gonzalez 517