

# COLING 2022

October 12 – 17, 2022 / Gyeongju, Republic of Korea  
The 29th International Conference on Computational Linguistics

<b>Virtual Poster Session 1</b>	
Date	Day 1. Wednesday 12 Oct.
Time	20:40 – 22:00 KST 13:40 - 15:00 CEST 7:40 - 9:00 EDT
Place	<b>Gather Town</b>
Session Chair	Virtual Room 1: Simon Mille Virtual Room 2: Santiago Egea Virtual Room 3: Aswarth Abhilash Dara

## **Subject Verb Agreement Error Patterns in Meaningless Sentences: Humans vs. BERT**

*Karim Lasri, Olga Seminck, Alessandro Lenci and Thierry Poibeau*

## **SOS: Systematic Offensive Stereotyping Bias in Word Embeddings**

*Fatma Elsaoury, Steve R. Wilson, STAMOS KATSIANNIS and Naeem Ramzan*

## **Social Norms-Grounded Machine Ethics in Complex Narrative Situation**

*Tao Shen, Xiubo Geng and Daxin Jiang*

## **Section-Aware Commonsense Knowledge-Grounded Dialogue Generation with Pre-trained Language Model**

*Sixing Wu, Ying Li, Ping Xue, Dawei Zhang and Zhonghai Wu*

## **[DEMO] MuZDG: Multilingual Code-Switching Framework for Zero-shot Dialogue Generation**

*Yongkang Liu, Shi Feng, Daling Wang and Yifei Zhang*

## **SPACE-2: Tree-Structured Semi-Supervised Contrastive Pre-training for Task-Oriented Dialog Understanding**

*Wanwei He, Yinpei Dai, Binyuan Hui, Min Yang, Zheng Cao, Jianbo Dong, Fei Huang, Luo Si and Yongbin Li*

## **DialogueEIN: Emotion Interaction Network for Dialogue Affective Analysis**

*Yuchen Liu, Jinming Zhao, Jingwen Hu, Ruichen Li and Qin Jin*

## **TopKG: Target-oriented Dialog via Global Planning on Knowledge Graph**

*Zhitong Yang, Bo Wang, Jinfeng Zhou, Yue Tan, Dongming Zhao, Kun Huang, Ruifang He and Yuexian Hou*

## **Reciprocal Learning of Knowledge Retriever and Response Ranker for Knowledge-Grounded Conversations**

*Jiazhan Feng, Chongyang Tao, Zhen Li, Chang Liu, Tao Shen and Dongyan Zhao*

## **CGIM: A Cycle Guided Interactive Learning Model for Consistency Identification in Task-oriented Dialogue**

*Libo Qin, Qiguang Chen, Tianbao Xie, Qian Liu, Shijue Huang, Wanxiang Che and Zhou Yu*

## **MuSeCLIR: A Multiple Senses and Cross-lingual Information Retrieval dataset**

*Wing Yan Li, Julie Weeds and David Weir*

## **Exploring Label Hierarchy in a Generative Way for Hierarchical Text Classification**

*Wei Huang, Chen Liu, Bo Xiao, Yihua Zhao, Zhaoming Pan, Zhimin Zhang, Xinyun Yang and Guiquan Liu*

## **DPTDR: Deep Prompt Tuning for Dense Passage Retrieval**

*Zhengyang Tang, Benyou Wang and Ting Yao*

## **Self-Supervised Intermediate Fine-Tuning of Biomedical Language Models for Interpreting Patient Case Descriptions**

*Israa Alghanmi, Luis Espinosa Anke and Steven Schockaert*

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## **Perform Like an Engine: A Closed-Loop Neural-Symbolic Learning Framework for Knowledge Graph Inference**

*Guanglin Niu, Bo Li, Yongfei Zhang and Shiliang Pu*

## **GLAF: Global-to-Local Aggregation and Fission Network for Semantic Level Fact Verification**

*Zhiyuan Ma, Jianjun Li, Guohui Li and Yongjing Cheng*

## **Table-based fact verification with self-labeled keypoint alignment**

*Guangzhen Zhao and Peng Yang*

## **Locate Then Ask: Interpretable Stepwise Reasoning for Multi-hop Question Answering**

*Siyuan Wang, Zhongyu Wei, Zhihao Fan, Qi Zhang and Xuanjing Huang*

## **Exploiting Hybrid Semantics of Relation Paths for Multi-hop Question Answering Over Knowledge Graphs**

*Zile Qiao, Wei Ye, Tong Zhang, Tong Mo, Weiping Li and Shikun Zhang*

## **An Augmented Benchmark Dataset for Geometric Question Answering through Dual Parallel Text Encoding**

*Jie Cao and Jing Xiao*

## **Find the Funding: Entity Linking with Incomplete Funding Knowledge Bases**

*Gizem Aydin, Seyed Amin Tabatabaei, George Tsatsaronis and Faegheh Hasibi*

## **Diverse Multi-Answer Retrieval with Determinantal Point Processes**

*Poojitha Nandigam, Nikhil Rayaprolu and Manish Shrivastava*

## **SCL-RAI: Span-based Contrastive Learning with Retrieval Augmented Inference for Unlabeled Entity Problem in NER**

*Shuzheng Si, Shuang Zeng, Jiaying Lin and Baobao Chang*

## **AiM: Taking Answers in Mind to Correct Chinese Cloze Tests in Educational Applications**

*Yusen Zhang, Zhongli Li, Qingyu Zhou, Ziyi Liu, Chao Li, Mina Ma, Yunbo Cao and Hongzhi Liu*

## **Uncertainty-aware Propagation Structure Reconstruction for Fake News Detection**

*Lingwei Wei, Dou Hu, Wei Zhou and Songlin Hu*

## **Automated Chinese Essay Scoring from Multiple Traits**

*Yaqiong He, Feng Jiang, Xiaomin Chu and Peifeng Li*

## **Continually Detection, Rapidly React: Unseen Rumors Detection based on Continual Prompt-Tuning**

*Yuhui Zuo, Wei Zhu and Guoyong GUET Cai*

## **A Unified Propagation Forest-based Framework for Fake News Detection**

*Lingwei Wei, Dou Hu, Yantong Lai, Wei Zhou and Songlin Hu*

## **[DEMO] PlugAT: A Plug and Play Module to Defend against Textual Adversarial Attack**

*Rui Zheng, Rong Bao, Qin Liu, Tao Gui, Qi Zhang, Xuanjing Huang, Rui Xie and Wei Wu*

## **Can Causal Transformers Process Recursive Nested Constructions, Like Humans?**

*Yair Lakretz, Theo Desbordes, Dieuwke Hupkes and Stanislas Dehaene*

## **Negation, Coordination, and Quantifiers in Contextualized Language Models**

*Aikaterini-Lida Kalouli, Rita Sevastjanova, Christin Beck and Maribel Romero*

## **On the Nature of BERT: Correlating Fine-Tuning and Linguistic Competence**

*Federica Merendi, Felice Dell'Orletta and Giulia Venturi*

## **How About Time? Probing a Multilingual Language Model for Temporal Relations**

*Tommaso Caselli, Irene Dini and Felice Dell'Orletta*

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## **Detecting Suicide Risk in Online Counseling Services: A Study in a Low-Resource Language**

*Amir Bialer, Daniel Izmaylov, Avi Segal, Oren Tsur, Yossi Levi-Belz and Kobi Gal*

## **Biographically Relevant Tweets -- A New Dataset, Linguistic Analysis and Classification Experiments**

*Michael Wiegand, Rebecca Wilm and Katja Markert*

## **CausalQA: A Benchmark for Causal Question Answering**

*Alexander Bondarenko, Magdalena Wolska, Stefan Heindorf, Lukas Blübaum, Axel-Cyrille Ngonga Ngomo, Benno Stein, Pavel Braslavski, Matthias Hagen and Martin Potthast*

## **Layer or Representation Space: What makes BERT-based Evaluation Metrics Robust?**

*Doan Nam Long Vu, Steffen Eger and Nafise Sadat Moosavi*

## **Towards explainable evaluation of language models on the semantic similarity of visual concepts**

*Maria Lymperaïou, George Manoladis, Orfeas Menis Mastromichalakis, Edmund G. Dervakos and Giorgos Stamou*

## **[DEMO] NLG-Metricverse: An End-to-End Library for Evaluating Natural Language Generation**

*Giacomo Frisoni, Antonella Carbonaro, Gianluca Moro, Andrea Zammarchi and Marco Avagnano*

## **TERMinator: A system for scientific texts processing**

*Elena Bruches, Olga Yurievna Tikhobaeva, Yana Yurievna Dementyeva and Tatiana Batura*

## **TempoWiC: An Evaluation Benchmark for Detecting Meaning Shift in Social Media**

*Daniel Loureiro, Aminette D'Souza, Areej Nasser Muhajab, Isabella White, Gabriel Wong, Luis Espinosa Anke, Leonardo Neves, Francesco Barbieri and Jose Camacho-Collados*

## **Does BERT recognize an Agent? Modeling Dowty's Proto-Roles with contextual embeddings**

*Mattia Proietti, Gianluca Leboni and Alessandro Lenci*

## **Testing Large Language Models on Compositionality and Inference with Phrase-Level Adjective-Noun Entailment**

*Lorenzo Bertolini, Julie Weeds and David Weir*

## **Metaphor Detection via Linguistics Enhanced Siamese Network**

*Shenglong Zhang and Ying Liu*

## **Few-Shot Pidgin Text Adaptation via Contrastive Fine-Tuning**

*Ernie Chang, Jesujoba Alabi, David Adelani and Vera Demberg*

## **Noun Class Disambiguation in Runyankore and Related Languages**

*Joan Byamugisha*

## **A simple log-based loss function for ordinal text classification**

*François Castagnos, Martin Mihelich and Charles Dognin*

## **Learn2Weight: Weight Transfer Defense Against Similar-domain Adversarial Attacks**

*Siddhartha Datta*

## **WARM: A Weakly (+Semi) Supervised Math Word Problem Solver**

*Oishik Chatterjee, Isha Pandey, Aashish Waikar, Vishwajeet Kumar and Ganesh Ramakrishnan*

## **Accelerating Inference for Pretrained Language Models by Unified Multi-Perspective Early Exiting**

*Jun Kong, Jin Wang, Liang-Chih Yu and Xuejie Zhang*

## **[DEMO] Topology imbalance and Relation inauthenticity aware Hierarchical Graph Attention Networks for Fake News Detection**

*Li Gao, Lingyun Song, Jie Liu, Bolin Chen and Xuequn Shang*

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## **Multi-level Community-awareness Graph Neural Networks for Neural Machine Translation**

*Binh Nguyen, Long Nguyen and Dien Dinh*

## **Semantically Consistent Data Augmentation for Neural Machine Translation via Conditional Masked Language Model**

*Qiao Cheng, Jin Huang and Yitao Duan*

## **Speeding Up Transformer Decoding via an Attention Refinement Network**

*Kaixin WU, Yue Zhang, Bojie Hu and Tong Zhang*

## **Emergence of hierarchical reference systems in multi-agent communication**

*Xenia Isabel Ohmer, Marko Duda and Elia Bruni*

## **Belief Revision based Caption Re-ranker with Visual Semantic Information**

*Ahmed Sabir, Francesc Moreno Noguera, Pranava Madhyastha and Lluís Padró*

## **Systematic Analysis of Image Schemas in Natural Language through Explainable Multilingual Neural Language Processing**

*Lennart Wachowiak and Dagmar Gromann*

## **A Survey of Automatic Text Summarization using Graph Neural Networks**

*Marco Ferdinand Salchner and Adam Jatowt*

## **Improving Zero-Shot Multilingual Text Generation via Iterative Distillation**

*Ernie Chang, Alex Marin and Vera Demberg*

## **GRETEL: Graph Contrastive Topic Enhanced Language Model for Long Document Extractive Summarization**

*Qianqian Xie, Jimin Huang, Tulika Saha and Sophia Ananiadou*

## **CoLo: A Contrastive Learning based Re-ranking Framework for One-Stage Summarization**

*Chenxin An, Ming Zhong, Zhiyong Wu, Qin Zhu, Xuanjing Huang and Xipeng Qiu*

## **[DEMO] Visual Information Guided Zero-Shot Paraphrase Generation**

*Zhe Lin and Xiaojun Wan*

## **CoCGAN: Contrastive Learning for Adversarial Category Text Generation**

*Xin Sheng, Linli Xu, Yinlong Xu, Changcun Bao, Huang Chen and Bo Ren*

## **LFKQG: A Controlled Generation Framework with Local Fine-tuning for Question Generation over Knowledge Bases**

*Zichu Fei, Xin Zhou, Tao Gui, Qi Zhang and Xuanjing Huang*

## **When to Laugh and How Hard? A Multimodal Approach to Detecting Humor and its Intensity**

*Khalid Alnajjar, Mika Hämmäläinen, Jörg Tiedemann, Jorma Laaksonen and Mikko Kurimo*

## **Detecting Minority Arguments for Mutual Understanding: A Moderation Tool for the Online Climate Change Debate**

*Cedric Waterschoot, Antal van den Bosch and Ernst van den Hemel*

## **Analyzing Persuasion Strategies of Debaters on Social Media**

*Matti Wiegmann, Khalid Al Khatib, Vishal Khanna and Benno Stein*

## **[DEMO] Natural Language Inference Prompts for Zero-shot Emotion Classification in Text across Corpora**

*Miriam Plaza-del-Arco, María-Teresa Martín-Valdivia and Roman Klinger*

## **Sentiment Interpretable Logic Tensor Network for Aspect-Term Sentiment Analysis**

*Bowen Zhang, Xu Huang, Zhichao Huang, Hu Huang, Baoquan Zhang, Xianghua Fu and Liwen Jing*

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**Asymmetric Mutual Learning for Multi-source Unsupervised Sentiment Adaptation with Dynamic Feature Network**

*Rui Li, Cheng Liu and Dazhi Jiang*

**Mere Contrastive Learning for Cross-Domain Sentiment Analysis**

*Yun Luo, Fang Guo, Zihan Liu and Yue Zhang*

**MuCDN: Mutual Conversational Detachment Network for Emotion Recognition in Multi-Party Conversations**

*Weixiang Zhao, Yanyan Zhao and Bing Qin*

**Coalescing Global and Local Information for Procedural Text Understanding**

*Kaixin Ma, Filip Ilievski, Jonathan M. Francis, Eric Nyberg and Alessandro Oltramari*

**Linguistically Motivated Features for Classifying Shorter Text into Fiction and Non-Fiction Genre**

*Arman Kazmi, Sidharth Ranjan, Arpit Sharma and Rajakrishnan Rajkumar*