

SIGHAN-10 2024

**The 10th SIGHAN Workshop on Chinese Language
Processing**

Proceedings of the Workshop

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Introduction

We are excited to welcome you to SIGHAN-10, the 10th SIGHAN workshop on Chinese language processing. This year, the 10th SIGHAN workshop returned and co-located with the 62nd Annual Meeting of the Association for Computational Linguistics (ACL-2024) in Bangkok, Thailand on August 11–16, 2024. Furthermore, SIGHAN 10 provides a shared task, namely Chinese Dimensional Aspect-Based Sentiment Analysis, dimABSA.

In an increasingly interconnected world, the importance of Chinese language processing cannot be overstated. As one of the most widely spoken languages, Chinese presents unique challenges and opportunities in the current research of artificial intelligence. Effective processing of the Chinese language opens doors to vast markets and cultural exchanges, fostering global collaboration and understanding. It serves as a critical tool in bridging linguistic divides and unlocking the rich textual heritage and contemporary content in Chinese. The focus of this workshop delves into the challenges in processing of the Chinese language, especially within the technology explosion of large language model, to explore how the Chinese specific tasks can be optimised to effectively understand as well as generating Chinese text.

We received 29 submissions this year, comprising 21 papers from the main workshop, and 8 papers from the shared task (dimABSA). We had two Area Chair (AC) members for the main workshop and one AC for the shared task, guiding the discussion process and writing a meta-review. For the main workshop, we accepted 10 papers. The acceptance rate for main workshop papers is 47.6%.

This year, SIGHAN-10 held in a hybrid format. Kang Liu from Institute of Automation, Chinese Academy of Sciences presents a keynote on “Beyond Facts: Understanding and Inducing Rule-based Knowledge in LLMs”. Further, there are also several oral sessions, including five oral papers from the main workshop and three oral papers from the shared task.

We thank our Program Committee members and all reviewers. We specially thank our three Area Chairs: Runcong Zhao (King’s College London), Bin Liang (The Chinese University of Hong Kong), and Lung-Hao Lee (National Yang Ming Chiao Tung University). They did an excellent job in reviewing the submitted papers, and we thank them for their essential role in selecting the accepted papers and helping produce a high-quality program for the conference.

We extend special thanks to all authors who have submitted papers this year and those who have shown interest in SIGHAN-10. We also thank all attendees for their participation and support.

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Keynote Talk
**Beyond Facts: Understanding and Inducing Rule-based
Knowledge in LLMs**

Kang Liu

Institute of Automation, Chinese Academy of Sciences

2024-08-16 09:30:00 – Room: TBD

Abstract: Large language models (LLM) have been proven to be able to learn knowledge from massive data. Most research currently discusses the relationship between implicit knowledge in LLMs and symbolic factual knowledge in Knowledge Graphs. Besides facts, human knowledge contains more types, such as rules. How does a LLM understand a rule and promote reasoning ability? Whether a LLM induce new rules from the given data? This talk will introduce our latest research work on these questions.

Bio: Kang Liu is a full professor at Institute of Automation, Chinese Academy of Sciences. He is also a youth scientist of Beijing Academy of Artificial Intelligence and a professor of University of Chinese Academy of Sciences. His research interests include Knowledge Graphs, Information Extraction, Question Answering and Large Language Models. He has published over 80 research papers in AI conferences and journals, like ACL, EMNLP, NAACL, COLING, et al. His work has over 20,000 citations on Google Scholar. He received the Best Paper Award at COLING-2014, Best PosterDemo Award at ISWC-2023, and the Google Focused Research Award in 2015 and 2016.

Table of Contents

Automatic Quote Attribution in Chinese Literary Works

Xingxing Yang and Yu Wang 1

TeleChat: An Open-source Bilingual Large Language Model

Zihan Wang, liuxz2@chinatelecom.cn liuxz2@chinatelecom.cn, liusx14@chinatelecom.cn liusx14@chinatelecom.cn, Yitong Yao, huangyy121@chinatelecom.cn huangyy121@chinatelecom.cn, Li Mengxiang, Zhongjiang He, liyx25@chinatelecom.cn liyx25@chinatelecom.cn, pulw@chinatelecom.cn pulw@chinatelecom.cn, xuhn@chinatelecom.cn xuhn@chinatelecom.cn, Chao Wang and Shuangyong Song 10

Few-shot Question Generation for Reading Comprehension

Yin Poon, John Sie Yuen Lee, yuylam@hkmu.edu.hk yuylam@hkmu.edu.hk, wlsuen@hkmu.edu.hk wlsuen@hkmu.edu.hk, eong@hkmu.edu.hk eong@hkmu.edu.hk and skwchu@hkmu.edu.hk skwchu@hkmu.edu.hk 21

Adversarial Learning for Multi-Lingual Entity Linking

Bingbing Wang, Bin Liang, Zhixin Bai and Yongzhuo Ma 28

Incremental pre-training from smaller language models

Han Zhang, Hui Wang and Ruifeng Xu 36

Holistic Exploration on Universal Decompositional Semantic Parsing: Architecture, Data Augmentation, and LLM Paradigm

Hexuan Deng, Xin Zhang, Meishan Zhang, Xuebo Liu and Min Zhang 45

Who Responded to Whom: The Joint Effects of Latent Topics and Discourse in Conversation Structure

Lu Ji, Lei Chen, Jing Li, Zhongyu Wei, Qi Zhang and Xuanjing Huang 58

Cantonese Natural Language Processing in the Transformers Era

Rong Xiang, Ming Liao and Jing Li 69

Auto-ACE: An Automatic Answer Correctness Evaluation Method for Conversational Question Answering

Zhixin Bai, Bingbing Wang, Bin Liang and Ruifeng Xu 80

TMAK-Plus at SIGHAN-2024 dimABSA Task: Multi-Agent Collaboration for Transparent and Rational Sentiment Analysis

Xin Kang, Zhifei Zhang, , raino.wu@datarobotics.com raino.wu@datarobotics.com, 2020010107@mail.hfut.edu.cn 2020010107@mail.hfut.edu.cn and Kazuyuki Matsumoto 88

YNU-HPCC at SIGHAN-2024 dimABSA Task: Using PLMs with a Joint Learning Strategy for Dimensional Intensity Prediction

wangzehui@stu.ynu.edu.cn wangzehui@stu.ynu.edu.cn, You Zhang, Jin Wang, Dan Xu and Xuejie Zhang 96

CCIIPLab at SIGHAN-2024 dimABSA Task: Contrastive Learning-Enhanced Span-based Framework for Chinese Dimensional Aspect-Based Sentiment Analysis

Zeliang Tong and Wei Wei 102

Senbin Zhu, Hanjie Zhao, Wxr Wxr, 18437919080@163.com 18437919080@163.com, Yuxiang Jia and Hongying Zan 112

<i>JN-NLP at SIGHAN-2024 dimABSA Task: Extraction of Sentiment Intensity Quadruples Based on Paraphrase Generation</i>	
Yunfan Jiang, liutianci@stu.jiangnan.edu.cn liutianci@stu.jiangnan.edu.cn and Heng-yang Lu	121
<i>DS-Group at SIGHAN-2024 dimABSA Task: Constructing In-context Learning Structure for Dimensional Aspect-Based Sentiment Analysis</i>	
Ling-ang Meng, Tianyu Zhao and Dawei Song	127
<i>Fine-tuning after Prompting: an Explainable Way for Classification</i>	
Zezhong Wang, Luyao Ye, Hongru Wang, Boyang Xue, Yiming Du, Bin Liang and Kam-Fai Wong	133
<i>CausalBench: A Comprehensive Benchmark for Evaluating Causal Reasoning Capabilities of Large Language Models</i>	
Zeyu Wang	143
<i>PerLTQA: A Personal Long-Term Memory Dataset for Memory Classification, Retrieval, and Fusion in Question Answering</i>	
Yiming Du, Hongru Wang, Zhengyi Zhao, Bin Liang, Baojun Wang, Wanjun Zhong, Zezhong Wang and Kam-Fai Wong	152
<i>Overview of the SIGHAN 2024 shared task for Chinese dimensional aspect-based sentiment analysis</i>	
Lung-Hao Lee, Liang-Chih Yu, Suge Wang and Jian Liao	165
<i>HITSZ-HLT at SIGHAN-2024 dimABSA Task: Integrating BERT and LLM for Chinese Dimensional Aspect-Based Sentiment Analysis</i>	
Hongling Xu, Delong Zhang, Yice Zhang and Ruifeng Xu	175