Changzhi Sun

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Research Interests

Reasoning over structured data or free text.

Explaining black-box model.

Extracting structured data from free text.

Education

Ph.D. Compute Science, East China Normal University, 2019.

B.S. Compute Science, Anhui Normal University, 2014.

Publications

[*: equal contribution]

Under Review

[1]. *NAIL: A Challenging Benchmark for Naïve Logical Reasoning*
Xinbo Zhang*, **Changzhi Sun***, Yue Zhang, Lei Li and Hao Zhou.
Long paper, submitted to ACL 2023.

[2]. *Can Pre-trained Models Really Generate Single-Step Textual Entailment?*
Liping Yuan, Xinbo Zhang, **Changzhi Sun**, Xiaoqing Zheng and Hao Zhou.
Long paper, rejected by EMNLP 2022

[3]. *Leveraging High-order Interactions for Unified Entity Relation Extraction*
Yijun Wang*, **Changzhi Sun***, Yuanbin Wu, Zhao Zhou, Lei Li and Junchi Yan.
Full paper, rejected by AAAI 2023

Proceedings

[1]. *Factual Error Correction via Iterative Constrained Editing*
Jiangjie Chen, Rui Xu, Wenxuan Zeng, **Changzhi Sun**, Lei Li and Yanghua Xiao.
Full paper, AAAI 2023

[2]. *Few Clean Instances Help Denoising Distant Supervision*
Yufang Liu, Ziyin Huang, Yijun Wang, **Changzhi Sun**, Man Lan, Yuanbin Wu, Xiaofeng Mou and Jian Tang.
Long paper, COLING 2022

[3]. *Causal Intervention Improves Implicit Sentiment Analysis*
Siyin Wang, Jie Zhou, **Changzhi Sun**, Junjie Ye, Tao Gui, Qi Zhang and Xuanjing Huang.
Long paper, COLING 2022

[4]. *E-KAR: A Benchmark for Rationalizing Natural Language Analogical Reasoning*
Jiangjie Chen, Rui Xu, Ziquan Fu, Wei Shi, Zhongqiao Li, Xinbo Zhang, **Changzhi Sun**, Lei Li, Yanghua Xiao and Hao Zhou.
Findings, ACL 2022

[5]. *Logic-Regularized Reasoning for Interpretable Fact Verification*
Jiangjie Chen, Qiaoben Bao, **Changzhi Sun**, Xinbo Zhang, Jiaze Chen, Hao Zhou, Yanghua Xiao and Lei Li.
Full paper, AAAI 2022

[6]. *Learning Logic Rules for Document-Level Relation Extraction*
Dongyu Ru, **Changzhi Sun**, Jiangtao Feng, Lin Qiu, Hao Zhou, Weinan Zhang, Yong Yu and Lei Li.
Long paper, EMNLP 2021

[7]. *Probabilistic Graph Reasoning for Natural Proof Generation*
Changzhi Sun*, Xinbo Zhang*, Jiangjie Chen, Chun Gan, Yuanbin Wu, Jiaze Chen, Hao Zhou and Lei Li.
Findings, ACL 2021

[8]. *UniRE: A Unified Label Space for Entity Relation Extraction*
Yijun Wang*, **Changzhi Sun***, Yuanbin Wu, Zhao Zhou, Lei Li and Junchi Yan.
Long paper, ACL 2021

[9]. ENPAR:*Enhancing Entity and Entity Pair Representations for Joint Entity Relation Extraction*
Yijun Wang, **Changzhi Sun**, Yuanbin Wu, Zhao Zhou, Lei Li and Junchi Yan.
Long paper, EACL 2021

[10]. *Is "hot pizza" Positive or Negative? Mining Target-aware Sentiment Lexicons*
Jie Zhou, Yuanbin Wu, **Changzhi Sun** and Liang He.
Long paper, EACL 2021

[11]. *Pre-training Entity Relation Encoder with Intra-span and Inter-span Information*
Yijun Wang, **Changzhi Sun**, Yuanbin Wu, Junchi Yan, Peng Gao and Guotong Xie.
Long paper, EMNLP 2020

[12]. *BiGCNN:Bidirectional Gated Convolutional Neural Network for Chinese Named Entity Recognition*
Tianyang Zhao, Haoyan Liu, Qianhui Wu, **Changzhi Sun**, Dongdong Zhan and Zhoujun Li.
Full paper, DASFAA 2020

[13]. *Joint Type Inference on Entities and Relations via Graph Convolutional Networks*
Changzhi Sun, Yeyun Gong, Yuanbin Wu, Ming Gong, Daxin Jiang, Man Lan, Shiliang Sun and Nan Duan.
Long paper, ACL 2019

[14]. *Distantly Supervised Entity Relation Extraction with Adapted Manual Annotations*
Changzhi Sun, Yuanbin Wu.
Full paper, AAAI 2019

[15]. *Extracting Entities and Relations with Joint Minimum Risk Training*
    Changzhi Sun, Yuanbin Wu, Man Lan, Shiliang Sun, Wenting Wang, Kuang-Chih Lee, and Kewen Wu.
    Long paper, EMNLP 2018

[16]. *Large-scale Opinion Relation Extraction with Distantly Supervised Neural Network*
    Changzhi Sun, Yuanbin Wu, Man Lan, Shiliang Sun and Qi Zhang.
    Long paper, EACL 2017

Experience

Bytedance   *June. 2020 - Present*

Group:	AI Lab
Position:	Researcher
Host:	Hao Zhou and Lei Li
Topic:	Deep Reasoning in NLP

East China Normal University   *Sep. 2014 - Dec. 2019*

Group:	Natural Language Processing Group
Position:	Ph.D candidate
Supervisor:	Yuanbin Wu and Shiliang Sun
Thesis:	Deep Learning for Joint Entity Relation Extraction

Microsoft Research Asia   *Dec. 2018 - May. 2019*

Group:	Natural Language Computing (NLC)
Position:	Intern
Host:	Yeyun Gong and Nan Duan

Academic Activities

Conference PC member: ARR(ACL Rolling Review), NAACL(2021), AAAI(2022, 2021), ACL(2022, 2021, 2020), EMNLP(2022, 2021, 2020), EACL(2023), COLING(2022, 2020).