

Changzhi Sun

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Research Interests

Extracting structured data from free text.
Explaining black-box model.
Reasoning over structured data or 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 ICLR 2022
- [2]. *Can Pre-trained Models Really Generate Single-Step Textual Entailment?*
Liping Yuan, Xinbo Zhang, **Changzhi Sun**, Xiaoqing Zheng and Hao Zhou.
Long paper, submitted to ACL 2022
- [3]. *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.
Long paper, submitted to ACL 2022
- [4]. *Few Clean Instances Help Denoising Distant Supervision*
Ziyin Huang, **Changzhi Sun**, Yijun Wang, Yuanbin Wu and Man Lan.
Long paper, submitted to ACL 2022
- [5]. *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 2022

Proceedings

- [1]. *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
- [2]. *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
- [3]. *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
- [4]. *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
- [5]. *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
- [6]. *Is “hot pizza” Positive or Negative? Mining Target-aware Sentiment Lexicons*
Jie Zhou, Yuanbin Wu, **Changzhi Sun** and Liang He
Long paper, EACL 2021
- [7]. *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
- [8]. *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
- [9]. *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
- [10]. *Distantly Supervised Entity Relation Extraction with Adapted Manual Annotations*
Changzhi Sun, Yuanbin Wu
Full paper, AAAI 2019
- [11]. *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
- [12]. *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(2021, 2020), EMNLP(2021, 2020), COLING(2020).