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研究方向：自然语言处理 信息抽取 鲁棒性与可解释性

主页 <https://guitaowufeng.github.io>

教育背景

复旦大学 硕士、博士 自然语言处理

国防科技大学 本科 计算机仿真

项目经历

中文语义深度计算与阅读理解 2018.01 - 2020.12 自然科学基金应急重点项目

研究设计多层次文本知识统一表示模型，中文 NER 任务目前四项评测数据第一，相关成果发表在 IJCAI2019 和 EMNLP2019。

基于深度神经网络的网络语言结构和语义分析 2020.01 - 2023.12 国家自然科学基金项目

研究预训练模型的网络语言应用。

基于深度神经网络的类脑智能系统研究与应用 2017.01 - 2021.12 上海市科委重大基础项目

研究预训练模型加速解码研究，提出序列标注并行解码模型和篇章级标签依赖模型，序列标注解码速度提升 5-10 倍，相关成果发表在 IJCAI2020, EMNLP2020。

美团、海康威视、字节跳动等公司项目合作负责人

获得奖励

2019 百度奖学金，颁给全球 10 名华人

2019 复旦优秀学生标兵，颁给全校 10 名学生

2020 IBM 奖学金，颁给全国 10 名博士生

2019, 2020 国家奖学金

2021 复旦大学“学术之星”特等奖

COLING2018 领域主席推荐奖， NLPCC2019 亮点论文奖

社会经历

1. 自然语言处理领域顶会 ACL, EMNLP, NAACL 程序委员会成员，专家审稿人

2. 人工智能领域和检索顶会/期刊 TPAMI, AAAI, IJCAI, CIKM 程序委员会成员，专家审稿人

3. 受邀在第十九届中国计算语言学大会 CCL2020、CCL2021 作报告

4. 2 次受中科院和百度邀请在“AI未来说·青年学术论坛”做主旨报告

5. 受邀 NLPCC 2021 做自然语言处理鲁棒性 tutorials

6. 受邀在清华、北大、中科院、百度、科大讯飞、滴滴出行等高校、研究院、企业做学术报告

7. 2021 年开源全球首个自然语言处理多语言鲁棒性验证平台 Textflint

发表文章

1. **Tao Gui**, Qi Zhang, Haoran Huang, Minlong Peng, Xuanjing Huang, Part-of-Speech Tagging for Twitter with Adversarial Neural Networks, In Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP 2017)
2. **Tao Gui**, Qi Zhang, Jingjing Gong, Minlong Peng, Di Liang, Keyu Ding and Xuanjing Huang, Transferring from Formal Newswire Domain with Hypernet for Twitter POS Tagging, In Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)
3. **Tao Gui**, Liang Zhu, Qi Zhang, Minlong Peng, Xu Zhou, Keyu Ding, Zhigang Chen, Cooperative Multimodal Approach to Depression Detection in Twitter, In Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI-19)
4. **Tao Gui**, Qi Zhang, Lujun Zhao, Yaosong Lin, Minlong Peng, Jingjing Gong, Xuanjing Huang, Long Short-Term Memory with Dynamic Skip Connections, In Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI-19)
5. **Tao Gui**, Peng Liu, Qi Zhang, Liang Zhu, Minlong Peng, Yunhua Zhou and Xuanjing Huang, Mention Recommendation in Twitter with Cooperative Multi-Agent Reinforcement Learning, In Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2019)
6. **Tao Gui**, Ruotian Ma, Qi Zhang, Lujun Zhao, Yu-Gang Jiang, Xuanjing Huang, CNN-Based Chinese NER with Lexicon Rethinking, In Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI 2019)
7. **Tao Gui**, Yicheng Zou, Qi Zhang, Minlong Peng, Jinlan Fu, Zhongyu Wei and Xuanjing Huang. A Lexicon-Based Graph Neural Network for Chinese NER, 2019 Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing (EMNLP 2019)
8. **Tao Gui**, Lizhi Qing, Qi Zhang, Jiacheng Ye, Hang Yan, Zichu Fei and Xuanjing Huang. Constructing Multiple Tasks for Augmentation: Improving Neural Image Classification with K-means Features, 34 AAAI Conference on Artificial Intelligence (AAAI 2020)
9. **Tao Gui**, Jiacheng Ye, Qi Zhang, Yaqian Zhou, Yeyun Gong, Xuanjing Huang, *Leveraging Document-Level Label Consistency for Named Entity Recognition*, In Proceedings of the 2020 International Joint Conference on Artificial Intelligence (IJCAI 2020)
10. **Tao Gui**, Jiacheng Ye, Qi Zhang, Zhengyan Li, Zichu Fei, Yeyun Gong and Xuanjing Huang Uncertainty-Aware Label Refinement for Sequence Labeling, In Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP 2020)
11. Jiacheng Ye, **Tao Gui***, Yichao Luo, Yige Xu, and Qi Zhang. ONE2SET: Generating Diverse Keyphrases as a Set, The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL 2021). (* Corresponding author)
12. Ruotian Ma, **Tao Gui***, Linyang Li, Qi Zhang, Xuanjing Huang and Yaqian Zhou. SENT: Sentence-level Distant Relation Extraction via Negative Training, The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL 2021). (* Corresponding author)
13. Hang Yan, **Tao Gui***, Junqi Dai, Qipeng Guo, Zheng Zhang and Xipeng Qiu. A Unified Generative Framework for Various NER Tasks, The Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL 2021). (* Corresponding author)
14. Yicheng Zou, **Tao Gui**, Qi Zhang, Xuanjing Huang, A Lexicon-Based Supervised Attention Model for Neural Sentiment Analysis, In Proceedings of the 27th International Conference on Computational Linguistics (COLING 2018) **Area Chair Favorite Award**.
15. Minlong Peng, Qi Zhang, Xiaoyu Xing, **Tao Gui**, Xuanjing Huang, Yu-Gang Jiang, Keyu Ding, Zhigang Chen, Trainable Undersampling for Class-Imbalance Learning, In Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence (AAAI-19)
16. Di Liang, Fubao Zhang, Weidong Zhang, Qi Zhang, Jinlan Fu, Minlong Peng, **Tao Gui** and Xuanjing Huang, Adaptive Multi-Attention Network Incorporating Answer Information for Duplicate Question Detection, In Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2019)
17. Minlong Peng, Qi Zhang, Xiaoyu Xing, **Tao Gui**, Jinlan Fu, Xuanjing Huang, Learning Task-Specific Representation for Novel Words in Sequence Labeling, In Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI 2019)
18. Jingjing Gong, Xinchi Chen, **Tao Gui**, Xipeng Qiu, Switch-LSTMs for Multi-Criteria Chinese Word Segmentation, In Proceedings of the Thirty-Third AAAI Conference on Artificial Intelligence

(AAAI-19)