Zhenyu Lei

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Research Interests

I'm broadly interested in natural language processing, social network analysis, time series analysis, Deep Learning in Science.

Education

University of Virginia, Charlottesville, VA, USA   2023.8-present
Ph.D. in ECE
Advisor: Jundong Li

Xi'an Jiaotong University, Xi'an, Shaanxi, China   2019.8-2023.6
B.S. in Physics
GPA:89.46/100 (3.82/4.3) (**Transcript**)
Advisor: Minnan Luo

Publications

[6] **LMBot: Distilling Graph Knowledge into Language Model for Graph-less Deployment in Twitter Bot Detection**
Zijian Cai, Zhaoxuan Tan, **Zhenyu Lei**, Hongrui Wang, Zifeng Zhu, Qinghua Zheng, Minnan Luo
arXiv 2023

[5] **HOFA: Twitter Bot Detection with Homophily-Oriented Augmentation and Frequency Adaptive Attention**
Sen Ye, Zhaoxuan Tan, **Zhenyu Lei**, Ruijie He, Hongrui Wang, Qinghua Zheng, Minnan Luo
arXiv 2023

[4] **TwiBot-22: Towards graph-based Twitter bot detection**
Shangbin Feng, Zhaoxuan Tan, Herun Wan, Ningnan Wang, Zilong Chen, Binchi Zhang, Qinghua Zheng, Wenqian Zhang, **Zhenyu Lei**, Shujie Yang, Xinshun Feng, Qingyue Zhang, Hongrui Wang, Yuhan Liu, Yuyang Bai, Heng Wang, Zijian Cai, Yanbo Wang, Lijing Zheng, Zihan Ma, Jundong Li, Minnan Luo
Advances in Neural Information Processing Systems 2023

[3] **KALM: Knowledge-Aware Integration of Local, Document, and Global Contexts for Long Document Understanding**
Shangbin Feng, Zhaoxuan Tan, Wenqian Zhang, **Zhenyu Lei**, Yulia Tsvetkov
arXiv 2022

[2] **BIC: Twitter Bot Detection with Text-Graph Interaction and Semantic Consistency**
Zhenyu Lei*, Herun Wan*, Wenqian Zhang, Shangbin Feng, Jundong Li, Qinghua Zheng, Minnan Luo
ACL 2023

[1] **KCD: Knowledge Walks and Textual Cues Enhanced Political Perspective Detection in News Media**
Wenqian Zhang, Shangbin Feng, Zilong Chen, **Zhenyu Lei**, Jundong Li, Minnan Luo
NAACL 2022

Honors and Awards

Scholarship for Outstanding Sichuan Students   2021

First Prize in Shaanxi Province, Contemporary Undergraduate Mathematical Contest in Modeling   2020

Dean's List, Xi'an Jiao Tong University   2020, 2021

Services

Student volunteer for ACL   2023

Reviewer for NeurIPS   2022

Skills

Programming Languages:

-Proficient: Python

-Capable: C/C++, MATLAB, Bash, HTML, SQL