Yuankai Luo

Ph.D STUDENT

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Research areas: Artificial Intelligence, Machine Learning, Graph Neural Networks

Education

The Hong Kong Polytechnic University (PolyU) Hong Kong
Joint PhD Supervision Student. Mentor: Xiao-Ming Wu. 2023.10 – Present

Beihang University Beijing
PhD Student in Computer Science. ***GPA: 3.81 (10/109).*** Mentor: Lei Shi. 2021.9 – Present

Chongqing University of Posts and Telecommunications Chongqing
BA in Computer Science. ***GPA: 3.67 (5/303).*** Mentor: Qun Liu. 2017.9 – 2021.6

Honors

Top Reviewer of NeurIPS 2024 **(Top 8% of all reviewers)** 2024
Huawei Scholarship 2024
The 2023 Computer Star (Star of Science and Technology), Beihang University
(1/all PhD students of the Computer Department) 2023
Graduate First-Class Academic Scholarship, Beihang University 2023
Outstanding Bachelor's Thesis, Chongqing University of Posts and Telecommunications
(Top 1%) 2021
The 2020 ACM ICPC Asia Kunming Regional Contest Bronze Medal 2020
The 2020 ACM ICPC Asia Shanghai Regional Contest Bronze Medal 2020
The 2019 ACM ICPC Asia-East Continent Final Contest Bronze Medal 2019

Publications

Classic GNNs are Strong Baselines: Reassessing GNNs for Node Classification

Yuankai Luo, Lei Shi, Xiao-Ming Wu.
Thirty-eighth Conference on Neural Information Processing Systems ***(NeurIPS)****, 2024.* *CCF-A*

Enhancing Graph Transformers with Hierarchical Distance Structural Encoding
Yuankai Luo, Hongkang Li, Lei Shi, Xiao-Ming Wu.
Thirty-eighth Conference on Neural Information Processing Systems ***(NeurIPS)****, 2024.* *CCF-A*

Transformers over Directed Acyclic Graphs
Yuankai Luo, Veronika Thost, Lei Shi.
Thirty-seventh Conference on Neural Information Processing Systems ***(NeurIPS)****, 2023.* *CCF-A*

Improving Self-supervised Molecular Representation Learning using Persistent Homology
Yuankai Luo, Lei Shi, Veronika Thost.
Thirty-seventh Conference on Neural Information Processing Systems ***(NeurIPS)****, 2023.* *CCF-A*

Impact-Oriented Contextual Scholar Profiling using Self-Citation Graphs

Yuankai Luo, Lei Shi, Mufan Xu, Yuwen Ji, Fengli Xiao, Chunming Hu, Zhiguang Shan.

*Twenty-ninth ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2023. CCF-A*

Mobility Inference on Long-Tailed Sparse Trajectory

Lei Shi, **Yuankai Luo**, Shuai Ma, Hanghang Tong, Zhetao Li, Xiatian Zhang, Zhiguang Shan.

*ACM Transactions on Intelligent Systems and Technology **(ACM TIST)**, 2023 SCI-Q1*

Node Identifiers: Compact, Discrete Representations for Efficient Graph Learning

Yuankai Luo, Hongkang Li, Qijiong Liu, Lei Shi, Xiao-Ming Wu.

Arxiv, 2024