

Tinglin Huang

RESEARCH ASSISTANT, TSINGHUA UNIVERSITY

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EDUCATION	Tsinghua University Beijing, China Visiting student at Department of Computer Science and Technology Dec. 2020 - Jun. 2021 • Advisor: Prof. Jie Tang
	National University of Singapore Singapore Visiting student at NExT++ Research Center May. 2020 - Nov. 2020 • Advisor: Prof. Tat-Seng Chua
	Zhejiang University Hangzhou, China M.Eng. in Software Engineering Sep. 2019 - Jun. 2021
	Shenzhen University Shenzhen, China B.Eng. in Software Engineering with honor Sep. 2015 - Jun. 2019 • GPA: 3.96/4.5 Ranking: Top 5% • Advisor: Prof. Joshua Zhexue Huang

RESEARCH INTERESTS	Data Mining: Recommendation System, Network Embedding, Knowledge Graph Reasoning, Social Networks Machine Learning: Graph Neural Network, Self-Supervised Learning, Semi-Supervised Learning
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PUBLICATIONS & PREPRINTS	Wenzheng Feng, Yuxiao Dong, Tinglin Huang , Ziqi Yin, Xu Cheng, Evgeny Kharlamov and Jie Tang. “GRAND+: Scalable Graph-based Semi-Supervised Learning with Better Generalization”. Submitted to <i>WWW</i> , 2022. Tinglin Huang , Yuxiao Dong, Ming Ding, Zhen Yang, Wenzheng Feng, Xinyu Wang and Jie Tang. “MixGCF: An Improved Training Method for Graph Neural Network-based Recommender Systems”. In <i>KDD</i> , 2021 Xiang Wang*, Tinglin Huang *, Dingxian Wang, Yancheng Yuan, Zhenguang Liu, Xiangnan He and Tat-Seng Chua. “Learning Intents behind Interactions with Knowledge Graph for Recommendation”. In <i>WWW</i> , 2021 (Oral Presentation, Best Paper Track) Tinglin Huang , Yulin He, Dexin Dai, Wenting Wang and Joshua Zhexue Huang. “Neural Network-Based Deep Encoding for Mixed-Attribute Data Classification”. In <i>PAKDD</i> , 2019 Yingying Zhu, Min Tong, Tinglin Huang , Zhengkun Wen and Qi Tian. “Learning Affective Features Based on VIP for Video Affective Content Analysis”. In <i>PCM</i> , 2018
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AWARDS & ACHIEVEMENTS	Excellent graduate scholarship of Zhejiang University (Top 1%) Jun. 2021 Excellent graduate of Shenzhen University (Top 1%) Jun. 2019 Merit Scholarship of Shenzhen University (Top 5%) Sep. 2016, 2017, 2018, 2019 2 nd Prize, Chinese Undergraduate Mathematics Contest in Modeling (Top 2%) Jul. 2018 3 rd Prize, Chinese Undergraduate Computer Design Contest (Top 5%) Sep. 2017
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RESEARCH
EXPERIENCE

Knowledge Engineering Group

Advisor : Prof. *Jie Tang* and Dr. *Yuxiao Dong*

Tsinghua University

Dec. 2020 - Present

MixGCF: An Improved Training Method for Graph Neural Network-based Recommender Systems

- Explored a general negative sampling plugin for graph neural network-based CF method, which applies the hop mixing technique to synthesize hard negatives rather than sampling existing ones.
- Performed experiments to show our proposed method can significantly improve the performance of recommenders.

GRAND+: Scalable Graph-based Semi-Supervised Learning with Better Generalization

- Proposed GRAND+, which applies an advanced consistency loss and matrix approximation approach for leveraging unlabeled node and achieving good scalability.
- Conducted experiments to demonstrate that the proposed model scales well and achieves the best accuracy.

NExT++ Center

Advisor : Prof. *Tat-Seng Chua* and Dr. *Xiang Wang*

National University of Singapore

May. 2020 - Nov. 2020

Learning Intents behind Interactions with Knowledge Graph for Recommendation

- Proposed a knowledge graph-based recommendation model, KGIN, which consider user-item relationships at the finer granularity of intents and long-range semantics of relational paths under the GNN paradigm.
- Empirical studies show that KGIN achieves significant improvements across three benchmark datasets.

National Laboratory for Big Data System Computing

Advisor : Prof. *Joshua Zhexue Huang*

Shenzhen University

May. 2017 - May. 2018

Neural Network-Based Deep Encoding for Mixed-Attribute Data Classification

- Proposed an auto-encoder with a new regularization based on weighted entropy to deal with mixed attribute data.
 - Conducted experiments to verify that it can help classifiers to achieve better performance compared with traditional methods.
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