

Tinglin Huang

VISITING STUDENT, TSINGHUA UNIVERSITY

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EDUCATION	Tsinghua University Visiting student at Department of Computer Science and Technology • Advisor: Prof. Jie Tang	Beijing, China Dec. 2020 - Present
	Zhejiang University M.Eng. in Software Engineering • Advisor: Prof. Xinyu Wang	Hangzhou, China Sep. 2019 - Present
	Shenzhen University B.Eng. in Software Engineering with honor • GPA: 3.96/4.5 Ranking: Top 5%	Shenzhen, China Sep. 2015 - Jun. 2019

RESEARCH INTERESTS	Data Mining: Recommendation System, Network Embedding Machine Learning: Graph Neural Network, Self-Supervised Learning
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PUBLICATIONS	Tinglin Huang , Yuxiao Dong, Ming Ding, Zhen Yang, Wenzheng Feng, Xinyu Wang, Jie Tang. “MixGCF: An Improved Training Method for Graph Neural Network-based Recommender Systems”. In <i>Conference on Knowledge Discovery and Data Mining (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>International World Wide Web Conferences (WWW)</i> , 2021 (Oral Presentation, Best Paper Shortlist)
	Tinglin Huang , Yinlin He, Dexin Dai, Wenting Wang, Joshua Zhexue Huang. “Neural Network-Based Deep Encoding for Mixed-Attribute Data Classification”. In <i>Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)</i> , 2019
	Yingying Zhu, Min Tong, Tinglin Huang , Zhengkun Wen, Qi Tian. “Learning Affective Features Based on VIP for Video Affective Content Analysis”. In <i>Pacific Rim Conference on Multimedia (PCM)</i> , 2018

AWARDS & ACHIEVEMENTS	Excellent graduate scholarship of Zhejiang University Excellent graduates of Shenzhen University Four years of Merit Scholarship 2nd Prize, Chinese Undergraduate Mathematics Contest in Modeling 3rd Prize, Chinese Undergraduate Computer Design Contest	Jun. 2021 Jun. 2019 Sep. 2016, 2018, 2019 Jul. 2018 Sep. 2017
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RESEARCH EXPERIENCE	Knowledge Engineering Group Advisor : Prof. Jie Tang and Dr. Yuxiao Dong <i>MixGCF: An Improved Training Method for Graph Neural Network-based Recommender Systems</i> - Given a user, the task of collaborative filtering (CF) is to provide a ranked list of items, where a fundamental challenge is to distill negative signals from the implicit feedback. - Explored a general negative sampling plugin (MixGCF) for Graph Neural Network based CF method, which applies the hop mixing technique to synthesize hard negatives rather than	Tsinghua University Dec. 2020 - Present
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sampling existing ones.

- Experimental results show that MixGCF yields the best performance over the other baseline models, with which the GNN-based recommender can be significant improved, e.g., 26% for LightGCN on NDCG@20.

NExT++ Center

National University of Singapore

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

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 in terms of all measures, w.r.t. ndcg@20 by 14.51%, 13.97%, and 5.91% in Amazon-Book, Last-FM, and Alibaba-iFashion, respectively.
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