

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	Jun. 2021
	Excellent graduate of Shenzhen University	Jun. 2019
	Merit Scholarship of Shenzhen University	Sep. 2016, 2017, 2018, 2019
	2 nd Prize, Chinese Undergraduate Mathematics Contest in Modeling	Jul. 2018
	3 rd Prize, Chinese Undergraduate Computer Design Contest	Sep. 2017

RESEARCH EXPERIENCE	Knowledge Engineering Group Advisor : Prof. Jie Tang and Dr. Yuxiao Dong	Tsinghua University Dec. 2020 - Present
	<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	

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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