TINGLIN HUANG

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EDUCATION

Zhejiang University *Sep. 2019 - Present*
MEng in Software Engineering
Advisor: Prof. Xinyu Wang
Shenzhen University *Sep. 2015 - Jun. 2019*
BEng in Software Engineering with honor, GPA: 3.96/4.5 (Top 5%)

PUBLICATIONS

[1] **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. KDD 2021.

[2] 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. WWW 2021. (co-first author)

[3] **Tinglin Huang**, Yinlin He, Dexin Dai, Wenting Wang, Joshua Zhexue Huang. Neural Network-Based Deep Encoding for Mixed-Attribute Data Classification. PAKDD 2019.

[4] Yingying Zhu, Min Tong, **Tinglin Huang**, Zhengkun Wen, Qi Tian. Learning Affective Features Based on VIP for Video Affective Content Analysis. PCM 2018.

RESEARCH INTERESTS

Machine Learning, Graph Neural Network, Self-supervised Learning, Recommendation System, Reinforcement Learning

RESEARCH EXPERIENCE

NExT++ Center, National University of Singapore *May. 2020 - Nov. 2020*
Research Intern

- Advised by Prof. Tat-Seng Chua and Dr. Xiang Wang, I explored the potential of applying knowledge graph to the recommendation system.
- During this internship, I proposed a relational path-aware convolution network, which provides an efficient way to aggregate the multi-hop neighbors in different relational space and explicitly enriches the representations of users.
- Compared to other state-of-the-art knowledge-aware recommendation methods, the proposed method significantly exhibits substantial improvements (about 10.0% relative improvement on average) on three benchmark datasets. The paper is accepted by WWW 2021.

DiDi Inc. *Nov. 2019 - Mar. 2020*
Machine Learning Intern

- During this internship, I explored the potential of applying reinforcement learning methods to recommendation system ranking task. Specifically, the system recommends the appropriate funder for each user who applies for a loan.
- Developed a model based on duelingDQN and doubleDQN, and modified the training process of model and completed the reward shaping.

- The model is currently launched online. In the first week, the loan per user is greatly improved (10.15%).

National Laboratory for Big Data System Computing *May. 2017 - May. 2019*
Student Researcher Assistant

- Advised by Prof. Joshua Zhexue Huang, I mastered how to apply Machine Learning to big data analysis, and assist in some research projects.
- Explored the data preprocessing technologies like auto-encoder for handling discrete value attributes, and proposed an auto-encoder with a new loss function which is obtained by adding the original loss function and weighted entropy.
- The experimental results prove the effectiveness of the algorithm (accuracy is improved by 2%-3%), and the paper has been included in a workshop of the conference PAKDD 2019.

SELECTED AWARDS AND HONORS

Excellent graduates of Shenzhen University	*Jun. 2019*
Chinese Undergraduate Mathematics Contest in Modeling (national second prize)	*Jul. 2018*
Chinese Undergraduate Computer Design Contest (national third prize)	*Sep. 2017*
Four years of Merit Scholarship	*2016-2019*

TEACHING EXPERIENCE

Teaching Assistant in C++ Program Design	*Fall 2016, Fall 2017*
Teaching Assistant in Introduction to Computer Science	*Spring 2017, Spring 2018*