LI ZENAN

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Education

Shanghai Jiao Tong University Shanghai, China

B. Eng. in Computer Science and Engineering *September 2019 – June 2023 (Expected)*

- GPA 94.10/100 (or 4.12/4.3), Rank 1/120
- Sensetime Fellowship (only 30 from national-wide cross all undergraduates), Lixin Tang Scholarship, Huawei Fellowship, Zhiyuan Honor Scholarship
- Achieved A+ on more than 30 courses, including specialized courses (Operating System, Computer Architecture, Algorithm, Machine Learning, etc) and all mathematical courses (Mathematical Analysis, Linear Algebra, Probabilistic Theory, etc)
- I served as a reviewer for ICML'22.

Coding Projects

- [Emiyalzn/ICML22-CPA]: Official implementation for: On Collective Robustness of Bagging Against Data Poisoning, which has been accepted by ICML'22.
- [Emiyalzn/Sketch-Recognition]:We implement a series of free-hand sketch recognition baselines based on RNN or CNNs. Furthermore, we propose Trans2CNN, which outperforms all the other algorithms combining the power of Transformer and CNNs.
- [Emiyalzn/Model-Free-Control]:We test and compare some typical model-free RL control algorithms' performance on different environments in this repo. Specifically, we implement D3QN on Atari, SAC and PPO on MuJoCo.
- [Emiyalzn/Ride-Hailing-DataAnalyzer]: A cab traffic analysis software written in C++, based on Qt5 platform. Have implemented functionalities like traffic visualization, time prediction and route planning.
- [Emiyalzn/Online-Bookstore]: An online bookstore application based on React (frontend) and Springboot (backend). Have implemented functionalities like cart management, order management and statistical visualization.
- [Emiyalzn/Eff-mQRCode]: Course project for CS339-Computer Networks. Reproduce the work: mQRCode in MobiCom'19, using Pix2PixGAN to raise mQRCodes' decryption speed and robustness by a large margin.

Experience

Research September 2020 – Present

Shanghai Jiao Tong University *Thinklab*

- Neural Relational Inference for Multi-dimensional Temporal Point Processes via GNNs. 2021.06 – 2021.08
- On Collective Robustness of Bagging Against Data Poisoning (**Accepted by ICML'22**, second author). Responsible for: all the coding, experiments, and visualization; part of theory. 2021.12 – 2022.02
- On Adversarial Attack and Defense for Combinatorial Optimization (submitted to NIPS'22, **co-first author**). Responsible for: idea formulation, coding, experiments, and writing. 2021.08 – Present
- A Scalable Structure Learning Approach for GNNs (submitted to NIPS'22, second author). Responsible for: theory proofs; coding and experiments under one setting. 2021.10 – Present
- Towards Debiased Learning and OOD Detection for Graph Data (submitted to NIPS'22, **first author**). Responsible for: theory, coding, experiments, and writing. 2021.02 – Present

Skills

Languages: Python, C/C++, JavaScript, Java, Rust.
Technical Skills: React (frontend), SpringBoot (backend), Qt (software), MySQL (database).
Machine (Deep) Learning Related Knowledge:

- PyTorch (proficient), TensorFlow (able to read).
- Familiar with popular GNN models (GCN, GAT, GPRGNN, IDGL, etc).
- Understand common DL models (Transformer, GAN, VAE, etc).