Education

Beihang University (Rank 0.3% in the university entrance exam)

BSE Mechanical Engineering GPA:3.82/4 Weighted Score:91.5/100 Ranking: 3/49 IELTS:7.0

The Chinese University of Hong Kong

Forthcoming

Ph.D. in Computer Science and Engineering Supervised by Prof. Hong Xu Research Interests: Federated Learning

Publication List

Sebastian Wandelt, Lin Wei, et al. "From random failures to targeted attacks in network dismantling." Reliability Engineering & System Safety (2021): 108146 DOI

Lin Wei, Sebastian Wandelt, and Xiaoqian Sun. "Efficient network dismantling through genetic algorithms." Soft Computing (2021): 1-19. DOI

Research Experience

Impact of Non-Pharmaceutical Interventions in the COVID-19 Pandemic

March 2022 - December 2022

Sep. 2019 – June 2023(expected)

Research Intern Supervised by Prof. Jia Li

- Proposed a method based on deep point process to predict the trajectory of confirmed case.
- Model and study the impact of government policies on the spread of pandemic.

Graph learning on Hyperbolic Space

March 2022 - August 2022

Research Intern Supervised by Prof. Irwin King

- Studying how to build graph neutral networks in a Riemannian space.
- Study the application of hyperbolic graph neural networks in recommendation system.

From Random Failures to Targeted Attacks in Network Dismantling

January 2021 – April 2021

Undergraduate Researcher Supervised by Prof. Sebastian Wandelt

- Proposed an efficient transformation process that is able to convert a collection of random failure traces generated by purely random node sequences into highly effective attacks, inspired by recent works on the node explosive percolation.
- Designed an iterative framework for the scalable computation of network attacks, which gradually performs moree detailed attack revisions.
- Performed a sensitivity analysis to do the parameter tuning on the proposed framework.

Efficient Network Dismantling Through Genetic Algorithm

July 2020 - March 2021

Undergraduate Researcher Supervised by Prof. Sebastian Wandelt

- Designed an exact method for measuring the effectiveness of a dismantling strategy for a network with linear runtime of the network size, which is significant faster than existing methods.
- Proposed a novel network dismantle technique based on genetic algorithms.
- Perform sensitivity analysis on variants of our method, including different choices of the initial population and genetic parameters.
- · Applied the Bayesian signed-up rank Test to compare our algorithm with other state-of-the-art methods.

Contest Experience

Finalist in Interdisciplinary Contest In Modeling (Top 1% among competitors worldwide)

2021

Theme: Unveil the Mystery behind Musical Evolution

- Build up a computational framework to evaluate the effect of musical influence on the temporal and spatial development of artist
 and genre.
- Use Heterogeneous Euclidean-Overlap Metric to measure the music similarity.
- Propose the General Index of Genre Development based on the combined effect of I-index, popularity and release frequency of intra-genre artists.

Teaching Experience

Teaching Assistance, Computer science and Programming

September 2020 – January 2021

Teaching Assistance, Data Management and Artificial Intelligent

March 2021 - June 2021

- Python Fundamental.
- Data Structure.
- Database System and SQL.
- · Heuristic searching algorithms.

Scholarship/Award

2019-2020, 2020-2021, 2021-2022 Learning Excellent Scholarship of BUAA

2019-2020 Excellent Student of BUAA

2020-2021, 2021-2022 Merit student of BUAA

2020-2021 Discipline Competition Scholarship of BUAA

2020-2021, 2021-2022 Social Work Outstanding Scholarship of BUAA

artist