Yifan Zhang
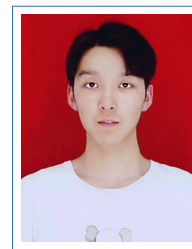
South China University of Technology
Higher Education Mega Center, Guangzhou 510006, China
📞 15521291105
✉ msyifanzhang@mail.scut.edu.cn

Education

South China University of Technology **Guangzhou**
B.E. in School of Civil Engineering & Transportation *Sep. 2017 – Sep. 2018*

South China University of Technology **Guangzhou**
B.E. in Computer Science *Sep. 2018 – 2021(Expected)*

- Overall GPA – **3.95/4.0** (Ranking: **1/134**)
- Core Courses: **Mathematics** -Probability and Mathematical Statistics(97/100)/ Calculus(98/100)/ Linear Algebra and Analytic Geometry(96/100)/ Mathematical analysis(93/100) **Programming** -C++ Programming Foundations(95/100)/ Data Structure(97/100)/ Design and Analysis of Algorithm(94/100)/ Advanced Language Program Design(C++)(97/100)/ Java Programming Language(89/100)/Deep Learning(95/100)/ Python Language Programming(91/100)

Research Experiences

South China University of Technology **Guangzhou**
Research Assistant *Oct. 2018 – May 2020*

- Advisor: Prof. Xinglin Zhang
- Project Name: Incentive mechanism design for crowdsourcing platforms, edge computing platforms, and federal learning platforms.
- Project Description: (1)Online Bi-Objective Incentive Mechanism design for Mobile Crowdsensing. (2)Incentive mechanism design for spatial crowdsensing market with low task unit price and high data reuse rate.

South China University of Technology **Guangzhou**
College students innovation and entrepreneurship project *Apr. 2019 – Apr. 2020*

- Advisor: Prof. Xinglin Zhang
- Project Name: Research on task Allocation Optimization Based on crowdsensing.
- Project Description: Research on task assignment of crowd-sourcing platform and task offloading strategy of edge computing platform: Modeling the interaction between crowdsourcing platform and mobile users or base stations and terminal devices with tools such as convex optimization and stackelberg game, so as to efficiently complete the process of task assignment.

Publication

- Yifan Zhang, Xinglin Zhang, "BundleSense: Task-Bundling-Based Incentive Mechanism for Mobile Crowd Sensing" International Conference on Computer Communication Networks (ICCCN, CCF C) 2020 - accept rate: 28.9%

- Yifan Zhang, Xinglin Zhang, Feng Li "BiCrowd: Online Bi-Objective Incentive Mechanism for Mobile Crowd Sensing " IEEE Internet of Things Journal(IOT-J, JCR Q1, IF=9.515)
- Feng Li, Yifan Zhang, Yingying Ma, Hanlin zhang "Modelling Multi-Exit Large-Venue Pedestrian Evacuation with Dual-Strategy Adaptive Particle Swarm Optimization" IEEE Access (IF=3.557)
- Yifan Zhang, Xinglin Zhang, "Price Learning Based Incentive Mechanism for Mobile Crowd Sensing" under review on IEEE Internet of Things Journal (IOT-J, JCR Q1, IF=9.515)
- Yifan Zhang, Xinglin Zhang, "Incentive Mechanism with Task Bundling for Mobile Crowd Sensing" under review on IEEE Transactions on Mobile Computing(TMC,CCF A)
- One patent had been examining, 2019.

Honors & Awards

- Contemporary Undergraduate Mathematical Contest in Modeling(CUMCM), National first prize, 2019.
- Hongping evergreen foundation students science and technology innovation competition first-class scholarship, 2020
- National Encouragement scholarship (ranking: 1st / 37), 2018.
- Merit Student, South China University of Technology, 2018.
- Merit Student, South China University of Technology, 2019.
- IEEE student member.

Skills

- Programming Language: Experienced in Python, C/C++, LaTeX. Familiar with SQL, Java,
- Mathematical tools: Familiar with Game Theory and convex optimization, and auction theory.
- CET4: 563, CET6: 506.