

YUANHANG ZHOU

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✉ RESEARCH INTERESTS

Blockchain: Blockchain Application, Security and Privacy, Applied Cryptography

Crowdsensing: Incentive Mechanism, Social network

🎓 EDUCATION

Southeast University Nanjing, Jiangsu 2021.9 – Present

Pursuing Master's degree Cyberspace Security Advisor: **Fei Tong**

Normalized score: 84.63 Ranking 14 (<4%)

Nanjing University of Posts and Telecommunication Nanjing, Jiangsu 2017.9 – 2021.6

Bachelor of Engineering Information Security Advisor: **Jia Xu**

GPA: 3.94/5 Ranking 14/29

🏢 EMPLOYMENT

Southern University of Science and Technology Shenzhen, Guangdong 2023.6 – Present

Visiting Student Department of Computer Science and Engineering Advisor: **Yinqian Zhang, Jianyu Niu**

🏆 HONORS

National Scholarship, *Ministry of Education* 2022

1st “Huawei Cup” Network Security Innovation Competition, Third Prize 2022

First Class Postgraduate Academic Scholarship, *Southeast University* 2021

Excellent Graduation Thesis, *Nanjing University of Posts and Telecommunication* 2021

📖 RESEARCH ACHIEVEMENTS

Google Scholar ORCID Academic Page

Publications

- **Yuanhang Zhou**, Fei Tong, and Shibo He, “Bi-objective Incentive Mechanism for Mobile Crowdsensing with Budget/Cost Constraint,” *IEEE Transactions on Mobile Computing (TMC)*. 2022. **CCF-A**.
- Jia Xu, **Yuanhang Zhou**, Gongyu Chen, et al., “Topic-aware Incentive Mechanism for Task Diffusion in Mobile Crowdsourcing through Social Network,” *ACM Transactions on Internet Technology (TOIT)*. 2022. **CCF-B**.
- Jia Xu, **Yuanhang Zhou**, Yuqing Ding, et al., “Biobjective Robust Incentive Mechanism Design for Mobile Crowdsensing,” *IEEE Internet of Things Journal (IoTJ)*. 2021. **JCR Q1**.
- Jia Xu, Gongyu Chen, **Yuanhang Zhou**, et al., “Incentive Mechanisms for Large-Scale Crowdsourcing Task Diffusion Based on Social Influence,” *IEEE Transactions on Vehicular Technology (TVT)*. 2021. **JCR Q1**.

Unpublished Research

- **Yuanhang Zhou**, Fei Tong, Kaiming Wang, et al., “A Privacy-Preserving Incentive Mechanism for Mobile Crowdsensing based on Blockchain,” *IEEE Transactions on Dependable and Secure Computing (TDSC)*. **Major revision** (Revision submitted). 2023.
- “Towards Efficient, Robust, and Privacy-preserving Incentives for Crowdsensing via Blockchain,” Under research. 2023.
- “BAC-IDS: A Blockchain-Assisted Collaborative Intrusion Detection System for Smart Home IoT,” Under research. 2023.

Patents

- A Privacy-preserving Incentive Mechanism Method for Crowdsensing based on Blockchain, Authorized *First Student Author*
- A Bi-objective Incentive Mechanism Method for Crowdsensing, Authorized *First Student Author*
- A Bi-objective Crowdsensing System and Incentive Method, Authorized *First Student Author*
- A Anomaly User Detection Method for Temporal and Spatial Mobile Crowdsensing, Authorized *Third Author*
- A Topic-aware Task Diffusion Method and Incentive for Crowdsourcing, Authorized *Third Author*

Academic Report

- Long Report, 2nd Distributed Control, Optimization and Security, Zhizhen Academic Forum for Postgraduate, Beijing Institute of Technology, 2022

TECHNICAL ABILITIES

- Programming Language: C/C++ (mastered), Nodejs & Java (competent), experienced in algorithm design
- Platform: Linux (mastered), experienced in Windows server/Ubuntu server management
- Development: experienced in Hyperledger Fabric development, focusing on Chaincode and interface methods
- Software: Latex (proficient), Matlab & Visio (mastered)
- Language: CET-4 602, CET-6 496, experienced in academic writing

OTHER INFO

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- Academic e-mail: 220215212@seu.edu.cn