

Junqin Huang

Shanghai, China

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RESEARCH INTEREST

His research interests include crowdsensing, cybersecurity, mobile computing, Internet of things, blockchain, etc.

EDUCATION

University of Electronic Science and Technology of China (UESTC)

Bachelor of Computer Science and Technology

Chengdu, China

September 2014 - June 2018

Shanghai Jiao Tong University (SJTU)

Master Candidate in Computer Technology

Shanghai, China

September 2018 - present

PUBLICATIONS

Journal

- **Junqin Huang**, Linghe Kong*, Guihai Chen, Min-You Wu, Xue Liu, Peng Zeng. "Towards Secure Industrial IoT: Blockchain System with Credit-Based Consensus Mechanism". *IEEE Transactions on Industrial Informatics*, vol. 15, no. 6, pp. 3680-3689, June 2019.

Conference

- **Junqin Huang**, Linghe Kong*, Guihai Chen, Long Cheng, Kaishun Wu, Xue Liu. "B-IoT: Blockchain Driven Internet of Things with Credit-Based Consensus Mechanism". *IEEE ICDCS*, Dallas, Texas, USA, 2019.
- **Junqin Huang**, Lingkun Kong, Linghe Kong*, Zhen Liu, Zhiqiang Liu and Guihai Chen. "Blockchain-based Crowd-sensing System". *IEEE HotICN International Conference*, 2018.

Book Chapter

- **Junqin Huang**, Linghe Kong*, Guihai Chen. "Outlier Discrimination and Correction in Intelligent Transportation Systems". *Smart Cities Cybersecurity and Privacy*, Elsevier, 2019.

ACADEMIC PROJECTS

Map Attacker

May 2018 – present

- We observe the fact that navigation apps will collect users' GPS data to calculate the real time traffic status.
- The main idea of this project is to utilize this fact to defraud navigation apps by uploading fake GPS data.

BlockSense: Blockchain + Crowdsensing

July 2018 - present

- We combine blockchain and crowdsensing to build a trustworthy decentralized crowdsensing platform, which breaks the traditional centralized triangular architecture.
- We also propose the Proof-of-Data (POD) consensus mechanism, to leverage miners to verifying data quality while without knowing the content of data.

AWARDS AND ACHIEVEMENTS

- Awarded the honor of outstanding undergraduate student of UESTC in December 2017.
- Won the first prize of National Universities and Colleges Blockchain Competition in December 2018.
- Got National Scholarship in September 2019.