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## EDUCATION:

### Pursuing a PhD in Information Networking

April 2024 - Present

Osaka University, Osaka, Japan, Supervisor: *Hideyuki Shimonishi*, Click: [Shimonish Lab](#)

### Master of Science in Control Science and Engineering

September 2020 - July 2023

Sun Yat-sen University, Guangzhou, China, GPA: 85/100, Rank:13/31

### Bachelor of Science in Marine Engineering

September 2016 - July 2020

Dalian Maritime University, Dalian, China, GPA: 83/100, Rank:10/500

## PUBLICATIONS:

- B.Gu, **W. Hu\***, Shimin Gong, Zhou Su, and Mohsen Guizani " CBDTF: A Distributed and Trustworthy Data Trading Framework for Mobile Crowdsensing," in *IEEE Transactions on Vehicular Technology*, March 2024, doi: 10.1109/TVT.2023.3327604, **B.Gu and W. Hu contribute equally to this work\***, JCR Q1, IF: 6.8. [Click: PDF](#)
- **W. Hu**, B. Gu, J. Li and Z. Qin, "BC-MCSDT: A Blockchain-based Trusted Mobile Crowdsensing Data Trading Framework," 2022 IEEE Symposium on Computers and Communications , Rhodes, Greece, 2022, pp. 1-7, doi: 10.1109/ISCC55528.2022.9912779. [Click: PDF](#)
- B. Gu, X. Yang, Z. Lin, **W. Hu**, M. Alazab and R. Kharel, "Multiagent Actor-Critic Network-Based Incentive Mechanism for Mobile Crowdsensing in Industrial Systems," in *IEEE Transactions on Industrial Informatics*, vol. 17, no. 9, pp. 6182-6191, Sept. 2021, doi: 10.1109/TII.2020.3024611, JCR Q1, IF: 12.3. [Click: PDF](#)

## RESEARCH EXPERIENCE:

### Research and Development of edge-mobile-core integrated control method in Integrated Sensing and Communication

April 2024 - Present

- Focus on vehicular communication and applications that integrated sensing by automobiles, develop an application that uses the digital twin to maximize automobile's communication quality.

### Research on trusted blockchain consensus and smart contract security protection methods for the Internet of Things

January 2021 - June 2023

- Construct a cross-domain data sharing platform based on blockchain, and solve the interest game between mobile agents based on Stackelberg game theory.

### Research on integrated technology for collaborative optimization of salt lake resources and operational decision

March 2021 - June 2023

- In view of the large distribution range and unbalanced distribution of Salt Lake chemical industry data, the resource allocation decision of Salt Lake chemical industry tasks is solved based on the convex optimization algorithm.

## WORKING EXPERIENCE:

### GAC R&D Center ----- Intelligent Network Center

July 2023 - March 2024

- Hold a post as an automotive functional safety engineer, responsible for ensuring that the safety-critical systems in a vehicle are designed, developed, and tested to meet safety standards such as ISO26262 and ISO21448.

## AWARDS AND HONORS:

2019 Mathematical Contest In Modeling Certificate of Achievement (MCM)----- Meritorious Winner

04/2019

2021/2022 Sun Yat-sen University Second Class Scholarship

2021-2022

## RESEARCH INTEREST

My research interest includes Digital Twin, Integrated Sensing and Communications and Blockchain, including the application of Digital Twin in Integrated Sensing and Communications System.