

Binggui Zhou

PhD Student

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Education

- **Ph.D. in Electrical and Computer Engineering**
University of Macau Aug. 2021 - present
FST & SKL-IOTSC, Supervisor: Shaodan MA
- **M.Sc. in Electrical and Computer Engineering**
University of Macau Aug. 2018 - Jun. 2021
FST & SKL-IOTSC, Supervisor: Shaodan MA
- **B.Eng. in Electrical Engineering and its Automation**
Jinan University Sep. 2014 - Jun. 2018
School of Electrical and Information Engineering

Publications

Journal Papers.

[J2] Xianda Wu, Xi Yang, Shaodan Ma, **Binggui Zhou**, and Guanghua Yang, "Hybrid Channel Estimation for UPA-Assisted Millimeter-Wave Massive MIMO IoT Systems," IEEE Internet of Things Journal, pp. 1–1, 2021, doi: 10.1109/JIOT.2021.3094990.

[J1] **Binggui Zhou**, Qingkai Liu, Ju Qiu. "Indoor IoT Security System Based on Raspberry Pi and WeChat," Transducer and Microsystem Technologies, 2017, 36(11):109-111+122.

Conference Papers.

[C2] Nan Lin, **Binggui Zhou**, Guanghua Yang, and Shaodan Ma. "Multi-head Attention Networks for Nonintrusive Load Monitoring," 2020 IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC), 2020, pp. 1-5.

[C1] **Binggui Zhou**, Guanghua Yang, and Shaodan Ma. "Product-oriented Product

Service System for Large-scale Vision Inspection," *Procedia CIRP* (2019), vol. 83, pp. 675–679.

Research Interests

- **Intelligent Communications**
 - CSI Feedback, Massive MIMO
- **Artificial Intelligence**
 - Natural Language Processing, Time Series Forecasting, Computer Vision
- **Wireless Sensor Networks**
 - Multi-source Heterogeneous Data Sensing and Processing

Projects

- **Emergency Communications Based on UAV Networks**
 - Feb. 2020 - present, Student Investigator, in charge of prototype design and co-implementation of UAV networks.
 - This project is supported by the Science and Technology Development Fund (FDCT) and the Department of Science and Technology of Guangdong Province (GDST).
- **Joint Design of Controllable and Participatory Sensing Network**
 - Jan. 2019 - present, Research Assistant, in charge of the development of algorithms for spatio modeling with controllable sensing network, and the implementation of simulation platform.
 - This project is supported by the Ministry of Science and Technology (MOST) and the Science and Technology Development Fund (FDCT).

Selected Awards & Honors

- 2020 Macau Science and Technology Awards (Scientific and Technological R&D Award for Postgraduates): Candidates by the University of Macau
- 2018 ASC Student Supercomputer Challenge: The Second Prize
- 2018 Outstanding Student Scholarship of Jinan University: The Third Prize
- 2017 National Encouragement Scholarship

- 2016 National Encouragement Scholarship
- 2015 National Encouragement Scholarship

Academic Services

- Conference Reviewer with IEEE/CIC International Conference on Communications in China (ICCC)