

Peiyuan Si

Postgraduate

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Education:

- **Zhejiang University of Technology, Zhejiang, China** College of Information Engineering bachelor degree Communication Engineering 2014 – 2018
- **Zhejiang University of Technology, Zhejiang, China** College of Information Engineering postgraduate Information and Communication Engineering 2018 – now
Supervisor: Weidang Lu

Scholarship and Prize

- First class scholarship, 2014-2015
- Second class scholarship, 2015-2016
- Second class prize in Zhejiang province advanced mathematics competition, 2014-2015
- First prize in Zhejiang province physics competition, 2014-2015
- Third prize of twin-car group in Zhejiang Division of the 11th "NXP" Cup Smart Car Competition, 2016
- Third prize of the two-wheel upright group in Zhejiang Division of the 12th "NXP" Cup Smart Car Competition, 2017
- First class scholarship, 2018-2019
- First class scholarship, 2019-2020

Relevant courses during postgraduate

- Information theory and coding
- Random process and queuing theory
- Digital communication system
- Signal detection and estimation
- Principle and system of mobile communication
- Machine learning
- Cloud computing technology and application
- Big data

Research Interests:

- UAV communication
- Wireless power transfer
- Spectrum sharing

Publications:

1. Weidang Lu, **Peiyuan Si**, Guoxing Huang, Huimei Han, Liping Qian, Nan Zhao and Yi Gong, "SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network", *IEEE Internet of Things Journal*, DOI: 10.1109/JIOT.2020.3026730, 2020.
2. Weidang Lu, **Peiyuan Si**, Fangwei Lu, Bo Li, Zilong Liu, Su Hu and Yi Gong, "Resource and Trajectory Optimization in UAV-powered Wireless Communication System", *Science China-Information Sciences*, 64(4):1-14, 2020.
3. Weidang Lu, **Peiyuan Si**, Xin Liu, Bo Li, Zilong Liu, Nan Zhao and Yuan Wu, "OFDM Based Bidirectional Multi-Relay SWIPT Strategy for 6G IoT Networks", *China Communications*, 17(12): 80-91, 2020.
4. **Peiyuan Si**, Weidang Lu, Kecai Gu, Xin Liu, Bo Li, Hong Peng and Yi Gong, "Anti-Wiretap Spectrum-Sharing for Cooperative Cognitive Radio Communication Systems", *Sensors*, 19(4142): 1-13, 2019.
5. Weidang Lu, **Peiyuan Si**, Yuan Gao et al., "Trajectory and Resource Optimization in OFDM based UAV-Powered IoT Network", submitted to *IEEE Transactions on Green Communications and Networking*.
6. **Peiyuan Si**, Weidang Lu, Zhijiang Xu and Jingyu Hua, "Optimize Bundle Size in Satellite DTN Links with Markov Method", *MLICOM*, 2018.
7. Weidang Lu, **Peiyuan Si**, Guoxing Huang, Hong Peng, Su Hu and Yuan Gao, "Interference Reducing and Resource Allocation in UAV-Powered Wireless Communication System", *IWCMC*, 2020.

Projects:

- China National Science Foundation ----- Research on Energy Efficiency Optimization in Wireless Sensor Networks Based on OFDM Simultaneous Wireless Information and Power Transfer 2019-2022