

# Wei Guo

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## Education

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<b>The Chinese University of Hong Kong, Shenzhen (CUHK-Shenzhen)</b>	Jan. 2020 – Present
Ph.D., Computer and Information Engineering. Advisor: <a href="#">Prof. Chuan Huang</a>	Shenzhen, China
<b>University of Electronic Science and Technology of China (UESTC)</b>	Sept. 2013 – Jun. 2017
B.Eng., Electrical Engineering	Chengdu, China

## Academic Visits

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<b>Purple Mountain Laboratories</b>	Sept. 2021 – Nov. 2021
Participating in National Key Research and Development Program of China	Nanjing, China
<b>The Future Network of Intelligence Institute (FNii), CUHK-Shenzhen</b>	Jun. 2019 – Dec. 2019
Visiting student. Advisors: <a href="#">Prof. Chuan Huang</a> and <a href="#">Prof. Shuguang Cui</a>	Shenzhen, China
<b>Shenzhen Research Institute of Big Data (SRIBD)</b>	Feb. 2017 – Jun. 2017
Visiting student. Advisors: <a href="#">Prof. Wenye Li</a> and <a href="#">Prof. Shuguang Cui</a>	Shenzhen, China

## Current Research Interests

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Wireless Communications, Over-the-Air Computing, Federated Learning, Wireless AI

## Publications

### Journals:

- **Wei Guo**, Chuan Huang, Xiaoqi Qin, Lian Yang, and Wei Zhang, “[Dynamic Clustering and Power Control for Two-Tier Wireless Federated Learning](#),” *IEEE Trans. Wireless Commun.* (TWC), early access, doi: 10.1109/TWC.2023.3288606, 2023.
- **Wei Guo**, Ran Li, Chuan Huang, Xiaoqi Qin, Kaiming Shen, and Wei Zhang, “[Joint Device Selection and Power Control for Wireless Federated Learning](#),” *IEEE J. Sel. Areas Commun.* (JSAC), vol. 40, no. 8, pp. 2395-2410, Aug. 2022.
- **Wei Guo**, Han Zhang, and Chuan Huang, “[Energy Efficiency of Two-Way Communications under Various Duplex Modes](#),” *IEEE Internet Things J.* (IoT-J), vol. 8, no. 3, pp. 1921-1933, Feb. 2021.

### Conference Proceedings:

- **Wei Guo**, Ran Li, Chuan Huang, Xiaoqi Qin, Kaiming Shen, and Wei Zhang, “[Optimized Device Selection and Power Control for Wireless Federated Learning](#),” in *Proc. IEEE Glob. Commun. Conf. (GlobeCom)*, Dec. 2022.
- **Wei Guo**, Chuan Huang, Xiaoqi Qin, Lian Yang, and Wei Zhang, “[Dynamic Clustering and Power Control for Two-Tier Over-the-Air Federated Learning](#),” in *Proc. IEEE/CIC Int. Conf. Commun. China (ICCC)*, Aug. 2022.
- **Wei Guo** and Chuan Huang, “[Energy Efficiency of Full-Duplex Two-Way Channels](#),” in *Proc. Glob. Conf. Signal Inf. Process. (GlobalSIP)*, Nov. 2019.

### Patents:

- CN patent: “一种面向无线联邦学习的用户协同传输方法”, 黄川, 崔曙光, 郭玮. 专利申请号: 202211032064.0, 2022.

## Teachings

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### Teaching assistant at CUHK-Shenzhen:

EIE4006 Performances Evaluation of Communication Networks	Sum' 2020-21
CIE6126 Performances Analysis of Computer and Communication Networks	Sum' 2020-21
EIE3001 Signals and Systems	Spr' 2021

## Awards

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Exemplary Reviewer of IEEE Wireless Communications Letters	2020
Outstanding Bachelor's Degree Thesis in UESTC	2017

## Academic Services

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### TPC Member:

- IEEE Global Communications Conference (Globecom): 2019-2023
- IEEE/CIC International Conference on Communications in China (ICCC): 2019-2023

### Journal Referee:

- IEEE Transactions on Wireless Communications
- IEEE Wireless Communications Letters
- IEEE Systems Journal
- China Communications
- Journal of Communications and Information Networks

## Presentations

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2022 IEEE Globecom, Rio de Janeiro, Brazil, virtual presentation  
 2022 IEEE/CIC ICC, Foshan, China, Oral presentation  
 2019 IEEE GlobalSIP, Ottawa, Canada, Oral presentation