

Yi Zhang(Joey)

Assistant Professor · Xiamen University

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EDUCATION

National Taiwan University

Ph.D. in Communication Engineering

Sept. 2017 - Jul. 2020

National Taiwan University

M.S. in Communication Engineering

Sept. 2014 - Jul. 2016

Xiamen University

B.S. in Software Engineering

Sept. 2010 - Jun. 2014

WORK EXPERIENCE

School of Informatics, Xiamen University

Assistant professor with Department of Information and Communication Engineering

Xiamen, China

Nov. 2020 - Current

Haixi Institutes, Chinese Academy of Sciences

Assistant engineer with Quanzhou Institute of Equipment Manufacturing

Quanzhou, China

Nov. 2016 - May 2017

Chinasoft International Limited

Student internship

Xiamen, China

Jul. 2013 - Aug. 2013

Xiamen University

Team member of RCS robot team

Xiamen, China

Aug. 2012 - Jul. 2013

HONORS & AWARDS

- **2023** The C-class high-level personnel, Fujian Province
- **2022** The C-class high-level personnel, Xiamen City
- **2021** High-level overseas-educated personnel, Xiamen City
- **2017** Core member of bringing in "optical fiber sensor based Internet-of-things (IoT)" team with high-caliber personnel to the fund of "Harbour Project" of Quanzhou City
- **2016** The fifth class outstanding person award of Jinjiang City
- **2013** Embedded system designer of the national technical qualification examination for professional computer and software technologies, China
- **2013** The second award of domestic contest of ABU Asia-Pacific Robo Contest (ABU Robocon), China

SERVICE & LEADERSHIP

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- Senior Member of China Institute of Communications (CIC)
- Professional Member of IEEE
- Vice President (2022-2024) and AC (2021-2024) of Xiamen Chapter of CCF YOCSEF
- TPC of ICA3PP 2021 (CCF Rank-C conference), BlockchainEvo 2022, BigCom 2022, ICICA 2022, BigCom2023, ICICA 2023, WCNC 2024, ICICA 2024, WCNC 2025
- Organizing Committee of IEEE/CIC ICC 2021
- *Journal article reviewer* IEEE Transactions on Mobile Computing (TMC), IEEE/ACM Transactions on Networking (TNET), IEEE Transactions on Dependable and Secure Computing (TDSC), IEEE Transactions on Wireless Communications (TWC), IEEE Transactions on Communications (TCOM), IEEE Internet of Things Journal (IoT-J), IEEE Transactions on Vehicular Technology (TVT), IEEE Transactions on Network Science and Engineering (TNSE), IEEE Transactions on Knowledge and Data Engineering (TKDE), IEEE Transactions on Industrial Informatics (TII), IEEE Systems Journal (ISJ), IEEE Communications Letters (COMML), China Communications (CNCOMM), IEEE Access, IEEE/CAA Journal of Automatica Sinica (JAS), Wireless Communications and Mobile Computing (WCMC)
- *Conference & proceeding paper reviewer* IEEE Vehicular Technology Conference (VTC), IEEE Vehicular Networking Conference (VNC), International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP), International Conference on Big Data Computing and Communications (BigCom), Conference on Web and Internet Economics (WINE), International Conference on Information Communication and Applications (ICICA)

TEACHING

- **Fall 2022, Fall 2023, Fall 2024** Embedded Microcontroller *Engineering Elective*
- **Spring 2021, Spring 2022, Spring 2023, Spring 2024** Foundations of Network Security: Attack and Defense *Major Core* Joint program with ANT SECURITY LAB of ANT GROUP and QI-ANXIN
- **Fall 2021, Fall 2022, Fall 2023** Fundamentals of Information Security *Disciplinary Elective* Cooperative teaching with Prof. Liang Xiao
- **Fall 2021** Wireless Communication Networks *Postgraduate* Cooperative teaching with Prof. Liang Xiao

RESEARCH INTERESTS

- Mobile and wireless networking
- Fog/edge computing and networking
- Game theory models, pricing, and incentive mechanism design

SELECTED PUBLICATIONS

Journals.....

- [1] Y. Chiang, Y. Zhang, H. Luo, T.-Y. Chen, G.-H. Chen, H.-T. Chen, Y.-J. Wang, H.-Y. Wei, and C.-T. Chou, "Management and orchestration of edge computing for iot: A comprehensive survey," *IEEE Internet of Things Journal*, vol. 10, no. 16, pp. 14 307–14 331, 2023.
- [2] Y. Xiao, L. Xiao, K. Wan, H. Yang, Y. Zhang, Y. Wu, and Y. Zhang, "Reinforcement learning based energy-efficient collaborative inference for mobile edge computing," *IEEE Transactions on Communications*, vol. 71, no. 2, pp. 864–876, 2023.
- [3] L. Xiao, H. Li, S. Yu, Y. Zhang, L.-C. Wang, and S. Ma, "Reinforcement learning based network coding for drone-aided secure wireless communications," *IEEE Transactions on Communications*, vol. 70, no. 9, pp. 5975–5988, 2022.
- [4] Y. Zhang and H.-Y. Wei, "Risk-aware cloud-edge computing framework for delay-sensitive industrial iots," *IEEE Transactions on Network and Service Management*, vol. 18, no. 3, pp. 2659–2671, 2021.

- [5] Y. Zhang, J. H. Liu, C. Y. Wang, and H. Y. Wei, "Decomposable intelligence on cloud-edge iot framework for live video analytics," *IEEE Internet of Things Journal*, vol. 7, no. 9, pp. 8860–8873, 2020.
- [6] Y. Zhang, Z. Chen, and H. I. Hee, "Noninvasive Measurement of Heart Rate and Respiratory Rate for Perioperative Infants," *Journal of Lightwave Technology*, vol. 37, no. 11, pp. 2807–2814, June 2019.
- [7] Y. Zhang, C. Wang, and H. Wei, "Parking Reservation Auction for Parked Vehicle Assistance in Vehicular Fog Computing," *IEEE Transactions on Vehicular Technology*, vol. 68, no. 4, pp. 3126–3139, April 2019.
- [8] Y. Zhang, C. Wang, and H. Wei, "Incentive Compatible Overlay D2D System: A Group-Based Framework without CQI Feedback," *IEEE Transactions on Mobile Computing*, vol. 17, no. 9, pp. 2069–2086, Sep. 2018.

Conferences.....

- [1] H. Hong, Y. Zhang, and Y. Xie, "Energy-limited uav visiting planning for age-aware wireless-powered sensor networks," in *2023 IEEE 98th Vehicular Technology Conference (VTC2023-Fall)*, 2023, pp. 1–6.
- [2] Y. Zhang, C. Wang, and H. Wei, "Parked Vehicle Assisted VFC System with Smart Parking: An Auction Approach," in *2018 IEEE Global Communications Conference (GLOBECOM)*, Dec 2018, pp. 1–7.
- [3] Y. Zhang, C. Wang, and H. Wei, "Incentive Compatible Mode Selection and Spectrum Partitioning in Overlay D2D-Enabled Network," in *2015 IEEE Globecom Workshops (GC Wkshps)*, Dec 2015, pp. 1–6.