

# Tao Han

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## Education

### New Jersey Institute of Technology

PH.D. IN ELECTRICAL ENGINEERING

Newark, NJ

May 2015

### Beijing University of Posts of Telecommunications

M.E. IN COMPUTER ENGINEERING

Beijing, China

April 2009

### Dalian University of Technology

B.E. IN ELECTRICAL AND COMPUTER ENGINEERING

Dalian, China

July 2006

## Research Area

- Machine learning for networked and distributed computing systems.
- Mobile mixed/augmented/virtual reality (MR/AR/VR) with edge computing.
- Autonomous driving systems, cyber-physical systems, smart grid.

## Work Experience

### New Jersey Institute of Technology

ASSOCIATE PROFESSOR IN ECE DEPARTMENT

Newark, NJ

Jul. 2021 - Present

### The University of North Carolina at Charlotte

ASSISTANT PROFESSOR IN ECE DEPARTMENT

Charlotte, NC

Aug. 2015 - Jun. 2021

### InterDigital

RESEARCH INTERN

King of Prussia, PA

Jan. 2014 - Jun. 2014

### FutureWei Media Lab.

RESEARCH INTERN

Bridgewater, NJ

May. 2011 - Aug. 2011

### Intel China Research Center

RESEARCH INTERN

Beijing, China

Oct. 2008 - Apr. 2009

## Funded Research Projects

### Current Projects

1. **NSF:** CAREER: *AutoEdge: Deep Reinforcement Learning Methods and Systems for Network Automation at Wireless Edge*, 05/15/2021 - 04/30/2026. Role: **PI**.
2. **NSF:** Collaborative Research: CNS Core: *AirEdge: Robust Airborne Wireless Edge Computing Network using Swarming UAVs*, 10/01/2020 - 09/30/2023. Role: **Lead PI, Lead Institution** (Co-PI: Pu Wang, UNC-Charlotte).
3. **NSF:** CNS Core: *UbiVision: Ubiquitous Machine Vision with Adaptive Wireless Networking and Edge Computing*, 10/01/2019 - 09/30/2022. Role: **Lead PI** (Co-PI: Chen Chen, UNC-Charlotte).
4. **NSF:** I-CORPS Teams: *TeleView: Low-Cost Holographic TelePresence System*, Team is selected for Winter 2021 Cohorts. Role: **Lead PI** (Co-PI: Chen Chen, UNC-Charlotte).
5. **DoE:** ASSIST: *Optimal Reconfiguration and Resilient Control Framework for Real-Time Photovoltaic Dispatch to Manage Critical Infrastructure (ReDis-PV)*, 06/01/2019 - 05/31/2022. Role: **Co-PI** (Lead PI: Sukumar Kamalasadan, UNC-Charlotte. Subcontractors: Michigan Tech, Idaho National Laboratory, Clemson University, Argonne National Laboratory, New Mexico State University, OPAL-RT Technologies, Duke Energy).
6. **NSF:** ECCS Core: *Data-Driven Operation and Control of Active Power Distribution Systems with High Penetration of Distributed Energy Resources and Energy Storage*, 08/15/2018 - 07/31/2022. Role: **Co-PI** (Lead PI: Sukumar Kamalasadan, UNC-Charlotte).

## Completed Projects

1. **NSF:** SpecEES: *Intelligent Energy Efficient Spectrum Access for Wireless IoT*, 08/15/2017 - 07/31/2021. Role: **Co-PI** (Lead PI: Jiang (Linda) Xie, Co-PI: Thomas Weldon, UNC-Charlotte).
2. **Coastal Study Institute:** *Reliability Oriented Control for OCEC-Based Underwater Microgrid Using Underwater Communication Network*, 07/01/2017 - 06/30/2021. Role: **Co-PI** (Lead PI: Tiefu Zhao, UNC-Charlotte).
3. **NSF:** SCC-Planning: *Pedestrian Safe and Secure Communities with Ambient Machine Vision*, 09/01/2017 - 08/31/2018. Role: **Co-PI** (Lead PI: Hamed Tabkhi, Co-PIs: Shannon Reid, Arun Ravindran, and Srinivas Pulugurtha, UNC-Charlotte).
4. **UTC Foundation:** *Cyber security as it applies to electric power grid control systems (EMS & SCADA) and the utility telecommunications infrastructure*, 08/01/2017 - 04/30/2018. Role: **Co-PI** (Lead-PI: Sukumar Kamalasadan)
5. UNCC Faculty Research Grant: *Accelerating Mobile Augmented Reality via Edge Computing*, 01/15/2018 - 05/31/2019. Role: **Lead PI**.
6. UNCC Faculty Research Grant: *Media Access Control Protocol for Interneting Large Numbers of Things*, 05/31/2016 - 12/31/2017. Role: **Lead PI**.

## Publication

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### Book and Book Chapter

1. Nirwan Ansari, and **Tao Han**, "Green Mobile Networks: A Networking Perspective", IEEE-Wiley, 2017.
2. **Tao Han**, Jingjing Zhang, and Nirwan Ansari, "Chapter 17: Green Broadband Access Networks", in Elsevier Handbook Green Information and Communication System, Academic Press, 2013.

### Journal Articles

1. Yang Deng, **Tao Han**, and Nirwan Ansari, "FedVision: Federated Video Analytics With Edge Computing", in IEEE Open Journal of the Computer Society, vol. 1, pp. 62-72, 2020.
2. Qiang Liu, **Tao Han**, and Nirwan Ansari, "Learning-Assisted Secure End-to-End Network Slicing for Cyber-Physical Systems", in *IEEE Network Magazine (Network)*, vol. 34, no. 3, pp. 37-43, May/June 2020.
3. Luocheng Wang, Jiangbiao He, **Tao Han**, and Tiefu Zhao, "Finite Control Set Model Predictive Control with Secondary Problem Formulation for Power Loss and Thermal Stress Reductions", in *IEEE Transactions on Industry Applications (TIA)*, DOI: 10.1109/TIA.2020.2991646.
4. Johnson Opadere, Qiang Liu, **Tao Han**, and Nirwan Ansari, "Energy-efficient Virtual Radio Access Networks for Multi-Operators Cooperative Cellular Networks", in *IEEE Transactions on Green Communications and Networking (TCGN)*, vol. 3, no. 3, pp. 603-614, Sept. 2019.
5. Jingjing Yao, **Tao Han**, and Nirwan Ansari, "On Mobile Edge Caching", in *IEEE Communications Surveys & Tutorials (COMST)*, vol. 21, no. 3, pp. 2525-2553, Third Quarter 2019.
6. Laha Ale, Ning Zhang, Huici Wu, Dajiang Chen, and **Tao Han**, "Online Proactive Caching in Mobile Edge Computing Using Bidirectional Deep Recurrent Neural Network", in *IEEE Internet of Things Journal (IoT-J)*, vol. 6, no. 3, pp. 5520-5530, June 2019.
7. Qiang Liu, **Tao Han**, Nirwan Ansari and Gang Wu, "On Designing Energy-Efficient Heterogeneous Cloud Radio Access Networks", in *IEEE Transactions on Green Communications and Networking (TCGN)*, vol. 2, no. 3, pp. 721-734, Sept. 2018.
8. Liang Zhang, **Tao Han**, and Nirwan Ansari, "Energy-Aware Virtual Machine Management in Inter-datacenter Networks over Elastic Optical Infrastructure", in *IEEE Transactions on Green Communications and Networking (TCGN)*, vol. 2, no. 1, pp. 305-315, March 2018.

9. Mohammad Yousefvand, **Tao Han**, Nirwan Ansari, and Abdallah Khreishah, "Distributed Energy-Spectrum Trading in Green Cognitive Radio Cellular Networks", in *IEEE Transactions on Green Communications and Networking (TCGN)*, vol. 1, no. 3, pp. 253-263, Sept. 2017.
10. Xueqing Huang, **Tao Han** and Nirwan Ansari, "Smart Grid Enabled Mobile Networks: Jointly Optimizing BS Operation and Power Distribution", in *IEEE/ACM Transactions on Networking (ToN)*, vol. 25, no. 3, pp. 1832-1845, June 2017.
11. **Tao Han** and Nirwan Ansari, "Network Utility Aware Traffic Loading Balancing in Backhaul-constrained Cache-enabled Small Cell Networks with Hybrid Power Supplies", in *IEEE Transactions on Mobile Computing (TMC)*, vol. 16, no. 10, pp. 2819-2832, Oct. 2017.
12. **Tao Han** and Nirwan Ansari, "Provisioning Green Energy for Base Stations in Heterogeneous Networks", in *IEEE Transactions on Vehicular Technology (TVT)*, vol. 65, no. 7, pp. 5439-5448, Jul. 2016.
13. Nirwan Ansari, **Tao Han** and Mina Taheri, "GATE: Greening At The Edge", in *IEEE Wireless Communications Magazine (WCM)*, vol. 23, no. 2, pp. 62-69, April 2016.
14. **Tao Han** and Nirwan Ansari, "A Traffic Load Balancing Framework for Software-defined Radio Access Networks Powered by Hybrid Energy Sources", in *IEEE/ACM Transactions on Networking (ToN)*, vol. 24, no. 2, pp. 1038-1051, April 2016.
15. Nirwan Ansari and **Tao Han**, "FreeNet: Spectrum and Energy Harvesting Wireless Networks", in *IEEE Network Magazine (Network)*, vol. 30, no. 1, pp. 66-71, Jan. 2016.
16. Xueqing Huang, **Tao Han**, and Nirwan Ansari, "On Green Energy Powered Cognitive Radio Networks", in *IEEE Communications Surveys & Tutorials (COMST)*, vol. 17, no. 2, pp. 827-842, Second Quarter 2015.
17. **Tao Han** and Nirwan Ansari, "RADIATE: Radio Over Fiber as Antenna Extender for High Speed Train Communications", in *IEEE Wireless Communications Magazine (WCM)*, vol.22, no.1, pp.130-137, Feb. 2015.
18. **Tao Han** and Nirwan Ansari, "Offloading Mobile Traffic via Green Content Broker", in *IEEE Internet of Things Journal (IoT-J)*, vol.1, no.2, pp.161-170, Apr. 2014.
19. **Tao Han** and Nirwan Ansari, "Enabling Mobile Traffic Offloading via Energy Spectrum Trading", in *IEEE Transactions on Wireless Communications (TWC)*, vol.13, no.6, pp.3317-3328, June 2014.
20. **Tao Han** and Nirwan Ansari, "Powering Mobile Networks with Green Energy", in *IEEE Wireless Communications Magazine (WCM)*, vol.21, no.1, pp.90-96, Feb. 2014.
21. **Tao Han** and Nirwan Ansari, "On Optimizing Green Energy Utilization for Cellular Networks with Hybrid Energy Supplies", in *IEEE Transactions on Wireless Communications (TWC)*, vol.12, no.8, pp.3872-3882, Aug. 2013.
22. **Tao Han**, Nirwan Ansari, Mingquan Wu, and Heather Yu, "On Accelerating Content Delivery in Mobile Networks", in *IEEE Communications Surveys and Tutorials (COMST)*, vol.15, no.3, pp.1314-1333, Third Quarter 2013.
23. **Tao Han** and Nirwan Ansari, "On Greening Cellular Networks via Multicell Cooperation", in *IEEE Wireless Communications Magazine (WCM)*, vol.20, no.1, pp.82-89, Feb. 2013.
24. **Tao Han** and Nirwan Ansari, "ICE: Intelligent Cell BrEathing to Optimize the Utilization of Green Energy", in *IEEE Communications Letters (COML)*, Vol. 12, No. 6, pp. 866-869, June 2012.
25. **Tao Han** and Nirwan Ansari, "Energy Efficient Wireless Multicasting", in *IEEE Communications Letters (COML)*, Vol. 15, No. 6, pp.620-622, June 2011.

## Conference Papers

1. Qiang Liu, **Tao Han**, Jiang (Linda) Xie, and BaekGyu Kim, "LiveMap: Real-Time Dynamic Map in Automotive Edge Computing", in *IEEE International Conference on Computer Communications (INFOCOM)*, 2021. (acceptance rate: 19.9%).

2. Qiang Liu, **Tao Han**, Ephraim Moges, “EdgeSlice: Slicing Wireless Edge Computing Network with Decentralized Deep Reinforcement Learning”, in *IEEE International Conference on Distributed Computing Systems (ICDCS)*, 2020. (acceptance rate: 18%).
3. Xueyu Hou and **Tao Han**, “TrustServing: A Quality Inspection Sampling Approach for Remote DNN Services”, in *IEEE International Conference on Sensing, Communication, and Networking (SECON)*, 2020. (accept rate: 27.9%).
4. Qiang Liu, **Tao Han**, Ning Zhang, Ye Wang “DeepSlicing: Deep Reinforcement Learning Assisted Resource Allocation for Network Slicing”, in *IEEE Global Communications Conference (GLOBECOM)*, 2020.
5. Luocheng Wang, Yongjie Guan, Tianze Chen, **Tao Han**, and Tiefu Zhao, “Evaluation of Wireless Communication Networks on Secondary Frequency Restoration in Underwater Islanded Microgrid”, in *IEEE Energy Conversion Congress & Expo (ECCE)*, 2020.
6. Yuanqi Chen, Yongjie Guan, and **Tao Han**, “Distributed Video Analysis for Mobile Live Broadcasting Services”, in *IEEE Wireless Communications and Networking Conference (WCNC)*, 2020.
7. Ephraim Moges and **Tao Han**, “DecOp: Decentralized Network Operations in Software Defined Networking using Blockchain”, in *IEEE INFOCOM Workshop: Blockchain for Secure Software-defined Networking in Smart Communities (BlockSecSDN)*, 2020.
8. Qiang Liu and **Tao Han**, “VirtualEdge: Multi-Domain Resource Orchestration and Virtualization in Cellular Edge Computing”, in *IEEE International Conference on Distributed Computing Systems (ICDCS)*, July 2019. (acceptance rate: 19.6%).
9. Qiang Liu and **Tao Han**, “DIRECT: Distributed Cross-Domain Resource Orchestration in Cellular Edge Computing”, in *ACM International Symposium on Mobile Ad Hoc Networking and Computing (MOBIHOC)*, July 2019. (accept rate: 23.7%).
10. Johnson Opadere, Qiang Liu, Ning Zhang and **Tao Han**, “Joint Computation and Communication Resource Allocation for Energy-Efficient Mobile Edge Networks”, in *IEEE International Conference on Communications (ICC)*, June 2019. (**IEEE ICC Best Paper Award & IEEE TAOS Best Paper Award**).
11. Siqi Huang, **Tao Han**, Jiang (Linda) Xie, “A Smart-Decision System for Real-time Mobile AR Applications”, in *IEEE Globe Communications Conference (GLOBECOM)*, Dec. 2019.
12. Luocheng Wang, **Tao Han**, Jiangbiao He and Tiefu Zhao, “Model Predictive Control with Secondary Objective Functions for Power Module Loss Reduction”, in *IEEE Energy Conversion Congress and Exposition (ECCE)*, Sept. 2019.
13. Luocheng Wang, **Tao Han**, and Tiefu Zhao, “Model Predictive Speed Control with Dynamic Reference for Electric Drive of Permanent Magnet Synchronous Machine”, in *IEEE Energy Conversion Congress and Exposition (ECCE)*, Sept. 2019.
14. Qiang Liu and **Tao Han**, “DARE: Dynamic Adaptive Mobile Augmented Reality with Edge Computing”, in *IEEE International Conference on Network Protocols (ICNP)*, Oct. 2018. (acceptance rate: 17.8%).
15. Qiang Liu, Siqi Huang, Johnson Opadere, and **Tao Han**, “An Edge Network Orchestrator for Mobile Augmented Reality”, in *IEEE International Conference on Computer Communications (INFOCOM)*, April 2018. (acceptance rate: 19.2%).
16. Qiang Liu, **Tao Han**, and Nirwan Ansari, “Joint Radio and Computation Resource Management for Low Latency Mobile Edge Computing”, in *IEEE Globe Communications Conference (GLOBECOM)*, Dec. 2018.
17. Qiang Liu, **Tao Han**, and Nirwan Ansari, “Energy-Efficient On-demand Cloud Radio Access Networks Virtualization”, in *IEEE Globe Communications Conference (GLOBECOM)*, Dec. 2018.
18. Haoxin wang, Jiang Xie, and **Tao Han**, “A Smart Service Rebuilding Scheme Across Cloudlets via Mobile AR Frame Feature Mapping”, in *IEEE International Conference on Communications (ICC)*, May 2018.
19. Siqi Huang, **Tao Han**, and Nirwan Ansari, “Data-Driven Network Optimization in Ultra-Dense Radio Access Networks”, in *IEEE Global Communications Conference (GLOBECOM)*, Dec. 2017.

20. Johnson Opadere, Qiang Liu, and **Tao Han**, “Energy-Efficient RRH Sleep Mode for Virtual Cloud Radio Access Networks”, in *IEEE Global Communications Conference (GLOBECOM)*, Dec. 2017.
21. Siqi Huang, **Tao Han**, and Nirwan Ansari, “Big-Data-Driven Network Partitioning for Ultra-Dense Radio Access Networks”, in *IEEE International Conference on Communications (ICC)*, May 2017.
22. Haoxin Wang, Jiang (Linda) Xie, and **Tao Han**, “V-Handoff: A Practical Energy Efficient Handoff for 802.11 Infrastructure Networks”, in *IEEE International Conference on Communications (ICC)*, May 2017.
23. Ying Mao, Jenna Oak, Anthony Pompili, Daniel Beer, **Tao Han** and Peizhao Hu, “DRAPS: Dynamic and Resource-Aware Placement Scheme for Docker Containers in a Heterogeneous Cluster”, in *IEEE International Performance Computing and Communications Conference (IPCCC)*, Dec. 2017.
24. Qiang Liu, **Tao Han**, and Gang Wu, “Computing Resource Aware Energy Saving Scheme for Cloud Radio Access Networks”, in *IEEE International Conference on Sustainable Computing and Communications (SustainCom)*, Oct. 2016.
25. Liang Zhang, **Tao Han**, and Nirwan Ansari, “Revenue Driven Virtual Machine Management in Green Datacenter Networks Towards Big Data”, in *IEEE Global Communications Conference (GLOBECOM)*, Dec. 2016.
26. Xilong Liu, **Tao Han**, and Nirwan Ansari, “Intelligent Battery Management for Cellular Networks with Hybrid Energy Supplies”, in *IEEE Wireless Communications and Networking Conference (WCNC)*, April 2016.
27. Liang Zhang, **Tao Han**, and Nirwan Ansari, “Renewable Energy-Aware Inter-datacenter Virtual Machine Migration over Elastic Optical Networks”, in *IEEE International Conference on Cloud Computing Technology and Science (CloudCom)*, Dec. 2015.
28. **Tao Han** and Nirwan Ansari, “User Association in Backhaul Constrained Small Cell Networks”, in *IEEE Wireless Communications and Networking Conference (WCNC)*, May 2015.
29. **Tao Han** and Nirwan Ansari, “Provisioning Green Energy for Small Cell BSs”, in *IEEE Global Communications Conference (GLOBECOM)*, Dec. 2014.
30. **Tao Han** and Nirwan Ansari, “Smart Grid Enabled Mobile Networks: Jointly Optimizing BS Operation and Power Distribution”, in *IEEE International Conference on Communications (ICC)*, May 2014.
31. **Tao Han** and Nirwan Ansari, “Heuristic Relay Assignments for Green Relay Assisted Device to Device Communications”, in *IEEE Global Communications Conference (GLOBECOM)*, Dec. 2013.
32. **Tao Han** and Nirwan Ansari, “Green-energy Aware and Latency Aware User Associations in Heterogeneous Cellular Networks”, in *IEEE Global Communications Conference (GLOBECOM)*, Dec. 2013.
33. **Tao Han** and Nirwan Ansari, “Auction-based Energy-Spectrum Trading in Green Cognitive Cellular Networks”, in *IEEE International Conference on Communications (ICC)*, May 2013.
34. **Tao Han** and Nirwan Ansari, “Energy Agile Packet Scheduling to Leverage Green Energy for Next Generation Cellular Networks”, in *IEEE International Conference on Communications (ICC)*, May 2013.
35. **Tao Han** and Nirwan Ansari, “Optimizing Cell Size for Energy Saving in Cellular Networks with Hybrid Energy Supplies”, in *IEEE Global Communications Conference (GLOBECOM)*, Dec. 2012.
36. **Tao Han** and Nirwan Ansari, Mingquan Wu, and Heather Yu, “TCP-Mobile Edge: Accelerating Delivery in Mobile Networks”, in *IEEE International Conference on Communications (ICC)*, May 2012.
37. **Tao Han** and Nirwan Ansari, “Opportunistic Content Pushing via WiFi Hotspots”, in *IEEE International Conference on Network Infrastructure and Digital Content (IC-NIDC)*, Sept. 2012.

## U.S. Patents

1. Zhuo Chen, Qing Li, Hongkun Li, Paul L. Russell, Jr., Chonggang Wang, and **Tao Han**, “Apparatus and method of using time reuse frame structures for multi-hop communications”, U.S. Patent Number 10136425B2, Issued on Nov. 2018.

2. Hongkun Li, Qing Li, Zhuo Chen, Paul L. Russell, Jr., Chonggang Wang, and **Tao Han**, “Multi-hop peer-to-peer communications”, U.S. Patent Number 9762362B2, Issued on Sep. 2017.
3. Nirwan Ansari and **Tao Han**, “Trading Spectrum for Energy Savings in Green Cognitive Cellular Networks”, U.S. Patent Number 9516589, Issued on Dec. 2016.
4. **Tao Han**, Nirwan Ansari, Mingquan Wu and Heather Yu, “System and Method for Transmission Control Protocol Service Delivery in Wireless Communications Systems”, U.S. Patent Number 9456377, Issued on Sep. 2016.
5. Nirwan Ansari and **Tao Han**, “Cell Size Optimization for Energy Savings in Cellular Networks with Hybrid Energy Supplies”, U.S. Patent Number 9277497, Issued Mar. 2016.
6. Nirwan Ansari and **Tao Han**, “Association through Green Energy and Latency Awareness in Wireless Networks”, US Patent Number 9253719, Issued Feb. 2016.

## Patent Applications

1. Chonggang Wang, Qing Li, Hongkun Li, Zhuo Chen, **Tao Han** and Paul L. Russell, “Managing application relationships in machine-to-machine systems”, U.S. Non-provisional Patent Application Number US 2017/0337088 A1, filed on Oct. 2015.
2. **Tao Han**, Qiang Liu and Siqi Huang, “Dynamic Approximative Mobile Artificial Intelligence System”, U.S. Provision Patent Application No. 62/583,824, filed on Nov. 2018.

## Demonstrations, Posters and Workshops

1. Qiang Liu and **Tao Han**, “When Network Slicing meets Deep Reinforcement Learning”, in *the 15th International Conference on emerging Networking Experiments and Technologies (CoNEXT)*, Dec. 2019. (Student Workshop).
2. Qiang Liu, Siqi Huang, and **Tao Han**, “Demo: Fast and Accurate Object Analysis at the Edge for Mobile Augmented Reality”, in *ACM/IEEE Symposium on Edge Computing (SEC)*, Oct. 2017. (Demo Abstract).
3. Yang Deng, Arun Ravindran, and **Tao Han**, “Poster: Edge Datastore for Distributed Vision Analytics”, in *ACM/IEEE Symposium on Edge Computing (SEC)*, Oct. 2017. (Poster).
4. Qiang Liu, Siqi Huang, Yang Deng, and **Tao Han**, “Demo Abstract: MExR: Mobile Edge Resource Management for Mixed Reality Applications”, in *IEEE International Conference on Computer Communications (INFOCOM)*, April 2017. (Demo Abstract).

## Award and Honor

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- National Science Foundation CAREER Award 2021.
- Alliances for Graduate Education and the Professoriate (AGEP) Fellow, North Carolina, 2019 - 2021
- IEEE International Conference on Communications (ICC) Best Paper Award 2019
- IEEE Communications Society’s Transmission, Access, and Optical Systems (TAOS) Best Paper Award 2019
- Newark College of Engineering Outstanding Dissertation Award 2016
- The NJIT Hashimoto Prize 2015
- New Jersey Inventors Hall of Fame Graduate Student Award 2014

## Teaching

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### Undergraduate Courses

- ECGR 3123 Data Communications and Networks I
- ECGR 4124/5124 Digital Signal Processing
- ECGR 4187/5187 Data Communication and Networks II

## Graduate Courses

- ECGR 6188/8188 Fundamental of Wireless Systems and Protocols
- ECGR 6120/8120 Wireless Communications and Networking

## Editorial Services

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- **Associate Editor:** IEEE Open Journal of Computer Society, Frontiers in Space Technologies, Wireless Communications and Mobile Computing
- **Workshop Chair/Co-Chair:** International Workshop on Mobile Edge Networks and Systems for Immersive Computing and IoT, 2018 and 2019
- **Guest Editor:** IEEE Transactions on Industrial Informatics, IEEE Access, IEEE Transactions on Cognitive Communications and Networking, Wireless Communications and Mobile Computing, International Journal of Distributed Sensor Networks, International Journal of Digital Crime and Forensics
- **TPC Member:** IEEE ICNP 2020, IEEE GLOBECOM 2015-2021, ICC 2020-2021, IEEE WCNC 2015-2020, ACM MSWiM 2017-2019, IEEE 5G World Forum 2018-2020, IEEE VTC 2017-2019, IEEE SECON 2017, etc.
- **Journal Reviewer:** ACM/IEEE Transactions on Networking, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Wireless Communications, IEEE Transactions on Big Data, IEEE Transactions on Communications, IEEE Transactions on Mobile Computing, IEEE Transactions on Cognitive Communications and Networking, IEEE Transactions on Cloud Computing, IEEE Communications Magazine, IEEE Wireless Communications Magazine, IEEE Journal of Internet of Things, etc.