

# Call for papers

## Mobile and Wireless Networking Symposium (MWN)

IEEE ICNC 2023

Honolulu, Hawaii, USA, Feb 20-22, 2023

<http://www.conf-icnc.org/2023>

### Symposium Co-chairs

Peter Chong, Auckland University of Technology, New Zealand ([peter.chong@aut.ac.nz](mailto:peter.chong@aut.ac.nz))

Walid Saad, Virginia Tech, USA ([walids@vt.edu](mailto:walids@vt.edu))

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### Scope

Mobile and wireless networks serve as a critical enabler to empower and promote new technologies and services to data networking, telecommunication, and next generation networks. The emerging services, in turn, evolve wireless networks in various aspects, such as wireless communication revolution, new topologies, advanced technologies, more efficient protocols, new applications and systems, etc. This symposium will present original work on the research and development of all these new advancements, including the new tools and methodologies for designing and analyzing wireless networks. The scope of this symposium includes, and is not limited to:

- 4G/5G/6G networks and beyond
- Small cells and femtocell networks
- Wireless mesh networks
- Cognitive radio networks
- Vehicular wireless networks
- Unmanned Aerial Vehicle networks
- Underwater wireless networks
- Delay tolerant wireless networks
- Software-defined wireless networks
- Wireless multimedia networks
- mmWave and TeraHertz wireless networks
- Energy harvesting and self-sustainable networks
- Ultra-wideband wireless networks
- Wireless personal area networks
- Wireless LANs
- Personal/Home/Neighborhood area networks
- Wireless optical communication networks
- AI-based wireless networking technologies
- Wireless network virtualization technologies
- Wireless edge/fog/computing
- Pervasive and wearable computing and networking technologies
- WLAN, WPAN, and other home/personal networking technologies
- Ultra-reliability and low-latency technologies for wireless networks

- Coexistence of heterogeneous wireless networks in unlicensed spectrum
- Device-to-device communications and machine-to-machine communications
- Network architectural design
- Medium access control
- Routing
- Flow and congestion control
- Topology control
- Mobility, handoff, and location management
- QoS provisioning
- Tracking and localization
- Resource allocation and management
- Cross-layer design and optimization
- Traffic modeling and management
- Fault-tolerance and reliability
- Testbeds and deployment of wireless networks
- Wireless networking standards

### **Submission Guidelines**

Perspective authors should follow the instructions at <http://www.conf-icnc.org/2023/author.htm> to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at <http://www.conf-icnc.org/2023/cfp.htm>.

### **Short Biographies of Co-Chairs**

**Peter Han Joo Chong** is a Full Professor and currently an Associate Head of School (Research), School of Engineering, Computer and Mathematical Sciences, at Auckland University of Technology, New Zealand. He is an Adjunct Professor at the Department of Information Engineering, Chinese University of Hong Kong, Hong Kong. He was previously an Associate Professor (tenured) in the School of Electrical and Electronic Engineering at Nanyang Technological University, Singapore. His research interests are in the areas of mobile communications systems including, V2X, Internet of Things/Vehicles, artificial intelligence for wireless networks, and 5G networks. He has published over 300 research articles. He is a Fellow of The Institution of Engineering and Technology (FIET).

**Walid Saad** received his Ph.D degree from the University of Oslo in 2010. Currently, he is a Professor at the Department of Electrical and Computer Engineering at Virginia Tech where he leads the Network sciEnce, Wireless, and Security (NEWS) laboratory, and he is the Wireless Faculty Lead at Virginia Tech's Innovation Campus. His research interests include wireless networks (5G/6G/beyond), machine learning, game theory, cybersecurity, unmanned aerial vehicles, semantic communications, and cyber-physical systems. Dr. Saad was the author/co-author of ten conference best paper awards and of the 2015 and 2022 IEEE ComSoc Fred W. Ellersick Prize. He was a co-author of the 2019 IEEE Communications Society Young Author Best Paper and of the 2021 IEEE Communications Society Young Author Best Paper. He is a Fellow of the IEEE. He is an Area Editor for the IEEE Transactions on Network Science and Engineering and the Editor-in-Chief for the IEEE Transactions on Machine Learning for Communications.

**Zhi Sun** is currently an Associate Professor at Department of Electronics Engineering, Tsinghua University, China. He was an Associate Professor at University at Buffalo, the State University of New York till 2021, which he joined in 2012 as an Assistant Professor. Zhi's research focuses on the fields of underground and underwater wireless communications and networking, as well as physical layer security. He was a recipient of the US NSF CAREER Award in 2017 and the UB Exceptional Scholar-Young Investigator Award in 2017. To date, he has published over 100 peer-reviewed journal and conference papers. He received the Best Demo Award at IEEE Infocom in 2017 and the Best Paper Award at IEEE Globecom in 2010.