

# IEEE GLOBECOM 2023

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## CALL FOR PAPERS

*Intelligent Communications for Shared Prosperity*

# Mobile and Wireless Networks Symposium

## Co-Chairs

- Abdallah Shami, The University of Western Ontario, Canada <Abdallah.Shami@uwo.ca>
- Abd-Elhamid M. Taha, Alfaisal University, Saudi Arabia <hamid.taha@gmail.com>
- Miao Pan, University of Houston, USA <mpan2@uh.edu>
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## Scope and Motivation

The Mobile and Wireless Networking Symposium welcomes contributions and participation from both academic and industry researchers working in the areas of wireless networking technologies, services, architectures, and protocols. This symposium aims to serve as an international forum where experts, researchers, and practitioners from academia, industry, and government can exchange ideas and novel results on research and development. It is also envisioned to promote and accelerate standardization, applications, and services of current and future wireless networks. The overall goal is to present the latest snapshot of the ongoing research as well as to shed further light on future directions in this space. Authors are invited to submit papers presenting novel technical studies as well as position and vision papers comprising hypothetical/speculative scenarios.

## Topics of Interest

The Mobile and Wireless Networking Symposium seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Emerging broadband wireless networks
- 5G/6G networks and beyond
- Semantic networks/communications
- WLAN, WPAN, and other home/personal networking technologies
- Security and privacy in mobile wireless networks
- Pervasive and wearable computing and networking
- Small cells and femtocell networks
- Wireless mesh networks
- Vehicular wireless networks
- Mobile networking aspects in cognitive radio networks
- Underwater wireless networks
- Delay-tolerant wireless networks

- mmWave wireless networks
- Zero-touch networks management and orchestration
- Software-defined wireless networks
- Reconfigurable wireless networks
- Free space optical networks
- Wireless edge computing, fog computing, and cloud computing
- Device-to-device communications
- Machine-to-machine communications
- Medium access control
- Routing and path selection
- Mobile social network
- Green wireless network
- Machine learning over wireless networks
- Flow and congestion control
- Power management and energy conservation techniques
- User cooperation and incentive techniques
- Cross-layer design and optimization
- Fault-tolerance and traffic engineering
- AI for wireless networking
- Testbeds and deployment of wireless networks
- Standardization activities of emerging wireless technologies
- Non-terrestrial networks
- Communication paradigms based on emerging wireless technologies
- Integration of satellite and terrestrial networks

## Biographies of the Co-Chairs

**Abdallah Shami** is the Acting Associate Dean Research and a Professor at the ECE department at Western University, Ontario, Canada. Dr. Shami's research interests are in the area of future networks, network automation and smart systems. He is currently an Associate Editor for IEEE Transactions on Mobile Computing, IEEE Internet of Things Journal, and IEEE Communications Tutorials and Survey. He was the elected Chair of the IEEE Communications Society Technical Committee on Communications Software and IEEE London Ontario Section Chair (2016-2018).

**Abd-Elhamid M. Taha** is the Director of Research and Innovation and an Associate Professor in electrical engineering at Alfaisal University. He also holds an adjunct post at the School of Computing at Queen's. His general research interest is computer networks and communications, specifically focusing on the combined applications of IoT, affective sensing, and AI. He serves as an Area Editor for the Canadian Journal of Electrical and Computer Engineering and Associate Editor for the IEEE Communications Magazine.

**Miao Pan** is an Associate Professor in the Department of Electrical and Computer Engineering at University of Houston. He was a recipient of NSF CAREER Award in 2014. His research interests include wireless/AI for AI/wireless, deep learning privacy, wireless networks, underwater communications and networking, and cybersecurity. His work won 5 best paper awards. He is an Associate Editor for ACM Computing Surveys, an Editor for IEEE Open Journal of Vehicular Technology and an Associate Editor for IEEE Internet of Things (IoT) Journal (Area 5: Artificial Intelligence for IoT).

**Zehui Xiong** is an Assistant Professor at Singapore University of Technology and Design, and also an Honorary Adjunct Senior Research Scientist with Alibaba-NTU Singapore Joint Research Institute, Singapore. His research interests include wireless communications, Internet of Things, blockchain, edge intelligence, and Metaverse. He is now serving as the editor or guest editor for many leading journals including IEEE JSAC, TVT, IoTJ, TNSE and TCCN. He is now serving as the Associate Director of Future Communications R&D Programme, Singapore.

## How to Submit a Paper

All papers for technical symposia should be submitted via EDAS. Full instructions on how to submit papers and important deadlines are posted at <https://globecom2023.ieee-globecom.org/>