IEEE International Conference on Communications
9-13 June 2024 // Denver, CO, USA
Scaling the Peaks of Global Communications

IEEE ICC

Call for Papers
Mobile and Wireless Networks Symposium

Symposium Co-Chairs

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Scope and Motivation

The Mobile and Wireless Networking Symposium aims to serve as an international forum for experts, researchers, and practitioners from academia, industry, and government to exchange new ideas and results on research and development, as well as to promote and accelerate standardization, applications, and services of current and future wireless networks. This symposium invites contributions and participation from academic and industry researchers in wireless networking technologies, services, architectures, and protocols. The overall goal is to present the latest snapshot of the ongoing research, as well as to shed further light on future directions in mobile and wireless networking systems. As Colorado is a national hub for the Cable, Space, and Satellite Communication Industries, submissions on topics of interest to these industries are especially encouraged. Authors are invited to submit papers presenting novel technical studies and position and vision papers comprising hypothetical/speculative scenarios.

Topics of Interest

The Mobile and Wireless Networks Symposium seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related to mobile and wireless networks:
- 5G/6G networks and beyond
- Reconfigurable wireless networks
- Integration of terrestrial and non-terrestrial networks
- User cooperation and incentive techniques in wireless networks
- Small cell networks
- Wireless mesh networks
- Vehicular wireless networks
- UAV networks
- Underwater wireless networks
- Delay-tolerant wireless networks
- Software-defined wireless networks
- Wireless multimedia networks
- mmWave and Terahertz wireless networks
- Free-space optical networks

- Opportunistic wireless networks
- Network slicing on wireless networks
- Inter-networking of wireless heterogeneous networks
- Energy harvesting and self-sustainable networks
- Dual-powered cellular networks
- Green mobile and wireless networks
- Artificial Intelligence (AI)/Machine Learning (ML)-based wireless networking technologies
- Wireless network virtualization technologies
- Wireless edge computing, fog computing, and cloud computing
- Pervasive and wearable computing and networking technologies
- WLAN, WPAN, and other home/personal networking technologies
- Coexistence of heterogeneous wireless networks
- Device-to-device and machine-to-machine communications
- Cell-free wireless networks
- Network architectural design
- Medium access control
- Routing and path selection
- Flow and congestion control
- Fault-tolerance and traffic engineering
- Mobility management
- Resource management
- Power management
- Cross-layer design and optimization
- Fault-tolerance and reliability testbeds and deployment of wireless networks
- Standardization activities of emerging wireless technologies
- Fixed/mobile network convergence

Important Dates

Paper Submission: 11 October 2023
Notification: 18 January 2024
Camera Ready and Registration: 15 February 2024

How to Submit a Paper

All papers for the technical symposium should be submitted via EDAS. Full instructions on how to submit papers are provided on the IEEE ICC 2024 website: https://icc2024.ieee-icc.org/

Journal Publication Opportunity

The authors of selected papers from this symposium will be invited to submit an extended version of their work for fast-track review and possible publication in the IEEE Open Journal of the Communications Society.