Call for papers

Mobile and Wireless Networking Symposium (MWN)

IEEE ICNC 2024

Big Island, Hawaii, USA, Feb 19-22, 2024

http://www.conf-icnc.org/2024

Symposium Co-chairs

Claudio Casetti, Politecnico di Torino, Italy. Email: claudio.casetti@polito.it

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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 Arial 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/2024/author.htm to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at http://www.conf-icnc.org/2024/cfp.htm.

Short Biographies of Co-Chairs

Claudio Casetti is a Full Professor at the Department of Control and Computer Engineering, Politecnico di Torino, Italy. He has published over 250 papers in peer-refereed international journals and conferences on the following topics: vehicular networks, Intelligent Transportation Systems, 5G/6G networks, IoT systems. According to Google Scholar, his H-index is 42. He is a Senior Member of IEEE.
He chaired the Turin Urban Digital Mobility working group within the Smart Roads project fostered by the City of Turin between 2018 and 2022. He has given Tutorials on vehicular networks at major IEEE Conferences, including IEEE ICC, IEEE Globecom, IEEE CCNC and IEEE VTC.
He is Senior Editor for Mobile Radio of IEEE Vehicular Technology Magazine.

Xiang Sun is an assistant professor with the Department of Electrical and Computer Engineering at the University of New Mexico. He received his Ph.D. degree in Electrical Engineering from New Jersey Institute of Technology (NJIT) in 2018, and his M.E. and B.E. degrees both from Hebei University of Engineering in 2011 and 2008, respectively. His research interests include free space optics, wireless networks, federated learning, Internet of Things, edge computing, and UAV swarm control. He has received several honors and awards, including 2016 IEEE International Conference on Communications Best Paper Award, 2017 IEEE Communications Letters Exemplary Reviewers Award, 2018 NJIT Hashimoto Price, 2019 IEICE Communications Society Best Tutorial Paper Award, 2019 NJIT Outstanding Doctoral Dissertation, and 2022 Digital Communications and Networks Outstanding Associate Editor Award. He is an associate editor of the IEEE Open Journal of the Computer Society and Digital Communications and Networks.

Lotfi Mhamdi received the Master of Philosophy (MPhil.) degree in computer science from the Hong Kong University of Science and Technology (HKUST) in 2002 and the PhD. degree in computer engineering from Delft University of Technology (TU Delft), The Netherlands, in 2007. He worked at TU Delft as post- doctoral researcher, focussing on high-performance networking tropics within various European Union funded research

projects. Since July 2011, he has been a faculty member within the school of Electronic and Electrical Engineering at the University of Leeds, UK.

Dr. Mhamdi is/was participating in the TPC committees on conferences, editorial boards as well as chairing conferences and workshops. In particular, he chaired several conferences and workshops, served as Guest Editor for IEEE Network Magazine (2020-2022), lead TPC co-chair for IEEE Globecom 2020 and 2022 Next Generation Networking and Internet Symposium (NGNI), TPC Co-Chair for International Conference on Computing, Networking and Communications (ICNC 2023) Wireless Communications Symposium, TPC Co-Chair for Green Computing, Networking, and Communications Symposium (GCNC 2020). He is also active in the IEEE ComSoc having served as the Secretary of the IEEE ComSoc Technical Committee on Communication Switching and Routing (TC-CSR), its Vice-Chair and he is now being voted as its Chair. His research work spans the area of high-performance networks including the architecture, design, and security. He is a member of the IEEE.