Call for papers

Mobile and Wireless Networks (MWN) Symposium

FCN 2025

Belgrade, Serbia, on August 18-22, 2025

http://www.future-forum.org.cn/en/fcn2025/index.html

Co-Chairs:

Baoxian Zhang	The University of Chinese Academy of Sciences, China (bxzhang@ucas.ac.cn)
Hyunbum Kim	Incheon National University, Korea (hyunbumkim@inu.ac.kr)
Jalel Ben othman	Université Paris Est Créteil, France (jalel.ben-othman@u-pec.fr)
Jiang (Linda) Xie	University of North Carolina, Charlotte, USA (linda.xie@charlotte.edu)

Scope

Mobile and wireless networks play a pivotal role in enabling and advancing cutting-edge technologies and services across data networking, telecommunications, and next-generation networks. These emerging services, in turn, are reshaping wireless networks in multiple dimensions — from communication paradigms and novel topologies to innovative technologies, efficient protocols, and groundbreaking applications. This symposium aims to showcase original research and developments in these rapidly evolving areas, including new tools and methodologies for the design, analysis, and optimization of wireless networks. Topics of interest for this symposium include, but are not limited to:

- 4G/5G/6G networks and beyond
- Small cells and femtocell networks
- Wireless mesh networks
- Cognitive radio networks
- Vehicular wireless networks (V2X communications)
- Unmanned Aerial Vehicle (UAV) networks
- Underwater wireless communication networks
- Delay-tolerant and disruption-tolerant wireless networks
- Software-defined wireless networks (SDWN)
- Wireless multimedia and real-time communication networks
- Millimeter-wave (mmWave) and Terahertz (THz) wireless networks
- Energy harvesting and self-sustainable wireless systems
- Wireless optical communication (LiFi and FSO) networks
- Artificial Intelligence (AI) and Machine Learning (ML) for wireless networking
- Wireless network virtualization and network slicing
- Edge, fog, and cloud-assisted wireless networking
- Pervasive, wearable, and body-area networks
- WLAN, WPAN, WBAN, and other personal/home networking technologies
- Ultra-reliable low-latency communication (URLLC)
- Coexistence and interoperability of heterogeneous wireless networks in shared/unlicensed spectrum
- Device-to-device (D2D) and machine-to-machine (M2M) communications

- Innovative network architectures and protocols for wireless systems
- Medium access control (MAC) protocols
- Routing protocols and algorithms for wireless networks
- Flow and congestion control mechanisms
- Topology control and network scalability
- Mobility management, handoff strategies, and location-aware services
- Quality of Service (QoS) and Quality of Experience (QoE) provisioning
- Tracking, positioning, and localization technologies
- Resource allocation, scheduling, and interference management
- Cross-layer design, optimization, and performance analysis
- Traffic modeling, prediction, and intelligent traffic management
- Reliability, fault tolerance, and self-healing mechanisms
- Testbeds, simulations, and real-world deployment of wireless systems
- Standardization efforts and emerging wireless communication protocols
- Security, privacy, and trust in wireless networks
- Green and sustainable wireless networking
- Integration of 6G, satellite, and non-terrestrial network technologies
- Mobile crowdsensing

Submission Guidelines

Prospective authors should follow the instructions at http://www.future-forum.org.cn/en/fcn2025/Kit.html to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at http://www.future-forum.org.cn/en/fcn2025/Submission.html

Short Biographies of Co-Chairs

Baoxian Zhang

Prof. Baoxian Zhang received his B.S., M.Sc., Ph.D. degrees in electrical engineering from Beijing Jiaotong University, China, in 1994, 1997, 2000, respectively. He is currently a Full Professor with the Research Center of Ubiquitous Sensor Networks at the University of Chinese Academy of Sciences (UCAS), Beijing, China. Prior to joining UCAS, he was a research scientist with the School of Information Technology and Engineering, University of Ottawa, Canada from 2002 to 2005. From 2001 to 2002, he was a postdoctoral fellow with the Department of Electrical and Computer Engineering, Queen's University, Kingston, Canada. He is currently an Associate Editor of IEEE TRANSACTIONS ON COGNITIVE COMMUNICATIONS AND NETWORKING, IEEE Communications Magazine, and IEEE SYSTEMS JOURNAL. He has served as Symposium Co-Chairs for IEEE GLOBECOM 2023/2021 and IEEE ICC 2026/2020. He is the co-recipients of best paper awards of AdHocNets'18 and WSCP'12. He has published over 200 refereed technical papers in archival journals and conference proceedings. His research interests cover network protocol and algorithm design, wireless ad hoc and sensor networks, Internet of Things, IP networks, and mobile edge computing. He is a Senior Member of the IEEE.

Hyunbum Kim

Prof. Hyunbum Kim received his Ph.D. degree in computer science from the University of Texas at Dallas, USA, in 2013. He is currently an Associate Professor in the Department of Embedded Systems Engineering at Incheon National University, South Korea and a lab founder of intelligent computing and next generation system lab (ICONS). His research interests include algorithm design and performance analysis in various areas including next generation frameworks, reinforced surveillance, intelligent transportation systems, sustainable computing, beneficial platforms, virtual emotion system, smart cities, cyber security. He is a Senior Member of IEEE.

Jalel Ben Othman

Prof. Ben-Othman received his PhD degree from the University of Versailles, France, in 1998. He is currently full professor at the University of Paris Est Créteil since 2024. Dr. Ben-Othman's research interests are in the area of wireless ad hoc and sensor networks, VANETs, IoT, performance evaluation and security in wireless networks in general. He was the recipient of the IEEE COMSOC Communication Software technical committee Recognition Award in 2016, the IEEE computer society Meritorious Service Award in 2016, and he is a Golden Core Member of IEEE Computer Society, AHSN Exceptional Service and Contribution Award in 2018 and the VEHCOM Fabio Neri award in 2018. He has served as steering committee member of IEEE Transaction on Mobile computing (IEEE TMC), he is currently a senior Editor of IEEE communication letters (IEEE COMML) and an editorial board member of several journals (IEEE Networks, IEEE IoT journal, JCN, IJCS, SPY, Sensors, …). He has also served as TPC Co-Chair for IEEE Globecom and ICC conferences and other conferences as (WCNC, IWCMC, VTC, ComComAp, ICNC, WCSP, Q2SWinet, P2MNET, WLN, ...). He was the chair of the IEEE Ad Hoc and sensor networks technical committee (January 2016-2018). He has been appointed as IEEE COMSOC distinguished lecturer (2015-2018) and IEEE VTS distinguished lecturer (2019-2023).

Jiang (Linda) Xie

Prof. Jiang (Linda) Xie receiver the PhD degree from Georgia Institute of Technology, USA, in 2004. She is currently a Professor in the Department of Electrical and Computer Engineering at the University of North Carolina at Charlotte, USA. Her research interests are in wireless networking and mobile computing. She has been awarded a Best Paper Award from IEEE INFOCOM 2025, GLOBECOM 2017, and IEEE/ACM International Conference on Intelligent Agent Technology (IAT 2010). She has served as a tireless volunteer in IEEE ComSoc for 20 years, contributing concretely to conferences, publications, and technical activities. She was the TPC Co-Chair of GLOBECOM 2023, TPC Vice-Chair of ICC 2016, Tutorial Co-Chair of GLOBECOM 2011, Symposium Co-Chair of GLOBECOM 2012, 2010, and 2009, Workshop Co-Chair of INFOCOM 2017, and Area TPC Chair of INFOCOM 2016~2025. She was/has been on the Editorial Boards of IEEE Communications Surveys & Tutorial (2010-2015), IEEE Transactions on Mobile Computing (2013-2019), IEEE/ACM Transactions on Networking (2016-2021), IEEE Transactions on Wireless Communications (2021-2023), IEEE Transactions on Sustainable Computing (2021 - present), and ACM Transactions on Internet Technology (2025 – present). She is a Fellow of the IEEE.