# **Call for papers**

## Mobile and Wireless Networks (MWN) Symposium

### FCN 2024

November 18-22, 2024 Valletta, Malta http://www.future-forum.org.cn/en/fcn2024/index.html

## **Co-Chairs:**

Cheng Li	Simon Fraser University, Canada ( <u>li_cheng@sfu.ca</u> )
Nathalie Mitton	Inria, France ( <u>nathalie.mitton@inria.fr</u> )
Nidal Nasser	Alfaisal University, Saudi Arabia ( <u>nnidal@ieee.org</u> )
Bingying Wang	Nanjing University of Information Science and Technology, China
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# Scope

Mobile and wireless networks serve as critical enablers to empower and promote new technologies and services to data networking, telecommunication, and next-generation networks. The emerging services, in turn, involve wireless networks in various aspects, such as the 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
- 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**

Prospective authors should follow the instructions at <u>http://www.future-forum.org.cn/en/fcn2024/Kit.html</u> to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at <u>http://www.future-forum.org.cn/en/fcn2024/Submission.html</u>.

# **Short Biographies of Co-Chairs**

### Cheng Li

Dr. Cheng Li (M'04-SM'07) received his B.Eng. and M.Eng. degrees from Harbin Institute of Technology, Harbin, China, in 1992 and 1995, respectively, and his Ph.D. degree in Electrical and Computer Engineering from Memorial University, St. John's, Canada, in 2004. He is currently a Full Professor and Director of the School of Engineering Science of Simon Fraser University, Vancouver, Canada. He is also affiliated with the Department of Electrical and Computer Engineering, Memorial University, St. John's, NL, Canada. His research interests include wireless communications and networking, communications signal processing, underwater communications and networks, and mobile ad hoc and wireless sensor networks. He is an IEEE Communications Society Distinguished Lecturer for the 2021-23 term. He is an associate editor of the IEEE Transactions on Communications, IEEE Internet-of-Things Journal, and the IEEE Network Magazine. He has served as the General Co-Chair of the ICNC'23, Q2SWinet'20, WINCOM'19, and AICON'19, and the TPC Co-Chair for the ICNC'20, ADHOCNETS'19, ACOSIS'19, WiCON'17, MSWiM'14, WiMob'11 and QBSC'10. He also served many times as a Technical Program Co-Chair for various technical symposia/tracks of international conferences, including the IEEE GLOBECOM, ICC, WCNC, and VTC. He is the recipient of the Best Paper Award in IEEE ICC'23, Globecom'17 and ICC'10, and the Technical Achievement Award of the IEEE Communications Society Communications Software Technical Committee in 2018. Dr. Li is a registered Professional Engineer (P. Eng.) in Canada and is a Senior Member of the IEEE and a member of the IEEE Communication Society, Computer Society, Vehicular Technology Society, and Ocean Engineering Society.

#### **Nathalie Mitton**

Dr. Nathalie Mitton received the MSc and PhD. degrees in Computer Science from INSA Lyon in 2003 and 2006 respectively. She received her Habilitation à diriger des recherches (HDR) in 2011 from Universit é Lille 1. She is currently an Inria full researcher since 2006 and from 2012, she is the scientific head of the Inria FUN team which designs protocols for wireless communications in constrained networks. Since 2024 she is head of science at Inria center of University of Lille. Her research interests focus on self-organization and communication in wireless constrained and dynamic networks. She has been nominated as one of the 10 women stars in computer Science in 2020 by the IEEE Communication Society. She has published her research in more than 45 international revues and more than 130 international conferences. She coordinates the Horizon Europe SLICES-PP project, participates in different Horizon Europe projects (NEPHELE, etc) and in several program and organization committees such as Infocom (since 2019), PerCom (since 2018), DCOSS (since 2018), ICC (since 2015), Globecom (since 2017), etc.

#### Nidal Nassar

Dr. Nidal Nassar (M'04-SM'14) is a distinguished academic and researcher in the field of wireless communication networks and systems. He holds B.Sc. and M.Sc. degrees with Honors in Computer Engineering from Kuwait University, and a Ph.D. from Queen's University in Canada. Currently, he is a Professor of Software Engineering at Alfaisal University in Saudi Arabia, where he also served as the Dean of the College of Engineering from 2014 to 2017. Dr. Nasser's research contributions are widely recognized, with over 190 journal publications, conference papers, and book chapters to his name. He has received numerous awards, including the Best Research Paper Award at various international conferences, the Faculty Award for Research Excellence at Alfaisal University, and multiple awards from IBM for his expertise in mobile applications, big data, IoT, artificial intelligence, and blockchain development. Dr. Nasser has also been appointed as an associate editor for prestigious journals such as Wiley's International Journal on Communication Systems and Frontiers in Communications and Networks Journal. He has served in various leadership roles at international IEEE conferences and workshops, and is a member of several IEEE Communication Society technical committees. In addition, he has been recognized by Stanford University as one of the "World's Top 2% Scientists" for his significant contributions to the field of networking. Currently, Dr. Nasser is also serving as the IEEE ComSoc Distinguished Lecturer for the class of 2023-2024, further showcasing his expertise and impact in the field.

#### **Bingying Wang**

Dr. Bingying Wang received the Bachelor's degree in communication engineering from Hohai University, Changzhou, China, in 2017, and the Ph.D. degree in information and communication engineering from Southeast University, Nanjing, China, in 2024. She is currently working with the School of Information Science and Engineering, Nanjing University of Information Science and Technology, China. Her research interests include vehicular ad hoc networks, MAC layer communications, C-V2X, radio resource allocation, autonomous-driving platoon systems, etc. She has published her work in major IEEE conferences (ICC, etc.) and premium journals (IEEE Transactions, etc.). She has served as Web Co-Chair of ADHOCNETS 2018 and Publicity Chair of DCOSS-IoT 2024.