

Call for Papers

Next Generation Networks and Internet Symposium (NGNI)

FCN 2025

August 18-22, 2025 Belgrade, Serbia

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

Co-Chairs:

Sihai Zhang University of Science and Technology of China, China (shzhang@ustc.edu.cn)
Roberto Rojas-Cessa New Jersey Institute of Technology, USA (roberto.rojas-cessa@njit.edu)
Peter Chong Auckland University of Technology, New Zealand (peter.chong@aut.ac.nz)
Yan Zhang University of Oslo, Norway (yanzhang@ieee.org)

Scope

The Next Generation Networks and Internet Applications Symposium focuses on topics related to aspects of agile future networking infrastructures and the applications supported by these new technologies. Of special interest are papers reporting on novel and practical solutions to timely and compelling problems in the Internet design space. To ensure complete coverage of the advances in network designs and Internet applications, this symposium presents original contributions in, but not limited to, the following topical areas:

- Architectures, Frameworks, and Toolkits for Next Generation Networks
- Internet Applications including Interactive Media, Voice, Video, and Games
- Database, Data Mining, and Big Data Applications
- Best Practices, Open Testbeds, and Living Labs
- Peer-to-Peer Computing
- Grid, Cluster, Distributed, Edge, and Fog Computing Solutions
- Cloud Network Services
- Quality of Service (QoS) / Quality of Experience (QoE)
- End-to-End Performance Measurement
- Admission Control
- Routing: Unicast, Multicast, Anycast, Multi-Path
- End-to-End Network Programming
- Resilience and Sustainability of Next Generation Networks
- Network Visualization, Virtual Private Networks and Services
- Content Distribution Networks
- Connecting Mobile/Wireless Devices to the Internet
- Web Applications
- Application Case Studies
- Impact of Wireless on the Internet
- Internet of Things Services and Applications
- Content-Centric Networking Service

Submission Guidelines

Perspective 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

Sihai Zhang

Dr. Sihai Zhang received the Ph.D. degree from the Department of Computer Science and Technology, University of Science and Technology of China (USTC), Hefei, China, in 2006. His research interests include wireless intelligence and wireless big data for communications and networking, machine learning and AI driven semiconductor manufacturing. He is currently an associate professor of School of Micro-Electronic, USTC. He has authored or co-authored over 60 technical papers. He is the organization chair of wireless big data forum in China from 2014 till now, which initiated the wireless bigdata research. He is a senior member of the IEEE.

Roberto Rojas-Cessa

Dr. Roberto Rojas-Cessa received the M.S. and Ph.D. degrees in computer and electrical engineering from Polytechnic University, Brooklyn, NY, USA. He is currently a Professor with the Department of Electrical and Computer Engineering, New Jersey Institute of Technology (NJIT). He has authored the books Advanced Internet Protocols, Services, and Applications (Wiley, 2012) and Interconnections for Computer Communications and Packet Networks (CRC Press, 2017). His research interests include the wide area of networking, cyber-physical systems, energy, intelligent systems and learning, and emergency communications and systems. He was an invited fellow of the Japanese Society for the Advancement of Science, in 2009. He was a recipient of the Excellence in Teaching Award from the Newark College of Engineering from NJIT and the NewJersey Inventors Hall of Fame—Innovators Award, in 2013. He was a recipient of the Excellence Progress in Research by the Department of Electrical and Computer Engineering, in 2005. He was the General Chair of IEEE Sarnoff Symposium, in 2011, and IEEE International Conference on High Performance Switching and Routing, in 2020. In addition, he has been the Technical Program Committee Chair of the two flagship conferences of the Communications Society: International Conference on Communications (ICC) and Global Communications (Globecom). He serves in different capacities for IEEE conferences and specialized journals as a Reviewer and an Editor and as a Panelist for U.S. National Science Foundation and U.S. Department of Energy.

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Peter Chong

Dr. Peter Han Joo Chong is a full professor and an Associate Head of School (Research), School of Engineering, Computer and Mathematical Sciences, at Auckland University of Technology, New Zealand. He received the Ph.D. degree from the University of British Columbia, Canada, in 2000. He was previously an Associate Professor (tenured) in the School of Electrical and Electronic Engineering at Nanyang Technological University, Singapore. Between 2013 and 2016, he was a Director of Infinitus, Centre for Infocomm Technology, at NTU. From February 2001 to May 2002, he was a Research Engineer at Nokia Research Center, Finland. Between July 2000 and January 2001, he worked in the Advanced Networks Division at Agilent Technologies Canada Inc., Canada. His research interests are in the areas of mobile communications systems including MANETs/VANETs, V2X, Internet of Things/Vehicles, artificial

intelligence for wireless networks, and 5G networks. He has published over 300 research articles. He is a Fellow of The Institution of Engineering and Technology (FIET). He is an Adjunct Professor at the Department of Information Engineering, Chinese University of Hong Kong, Hong Kong and an Honorary Professor at Amity University, India.

Yan Zhang

Dr. Yan Zhang is currently a Full Professor at the School of Information Engineering at the University of Oslo, Norway. He received his bachelor's, master's and doctorate degrees from Nanjing University of Posts and Telecommunications, Beihang University and Nanyang Technological University, Singapore, respectively. His research interests include sixth generation (6G) wireless communication networks and secure and smart Internet of Things (IoT). He has been selected as the world's most "Highly Cited Scientist" for three consecutive years since 2018, and was listed among the Top 1000 Scientists Ranking for Computer Science & Electronics presented by Guide2Research in 2020. He is the chairman of the IEEE Technical Committee on Green Communications and Computing, the distinguished lecturer of the IEEE Communication Society, and the distinguished lecturer of the IEEE Vehicular Technology Society. He is also a senior member of CCF, a member of the CCF Blockchain Committee and a CCF Distinguished Speaker. He is currently serving as an editor of 10 top IEEE Transactions/Magazine journals, including IEEE Network Magazine, IEEE Communications Surveys & Tutorials, IEEE Transactions on Industrial Informatics, IEEE Transactions on Vehicular Technology, IEEE Transactions on Green Communications and Networking, IEEE Transactions on Networks Science and Engineering, IEEE Internet of Things, IEEE Systems Journal, IEEE Vehicular Technology Magazine, and IEEE Blockchain Technical Briefs.