# **Call for papers**

# Edge and Cloud Computing Networks (ECCN) Symposium

FCN 2025

August 18-22, 2025 Belgrade, Serbia http://www.future-forum.org.cn/en/fcn2025/index.html

# **Co-Chairs**

Nathalie Mitton	Inria Lille-Nord Europe, France ( <u>nathalie.mitton@inria.fr</u> )
Yusheng Ji	National Institute of Informatics, Japan (kei@nii.ac.jp)
Abdellatif Kobbane	Mohammed V University in Rabat, Morocco (abdellatif.kobbane@ensias.um5.ac.ma)
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# Scope

The rapid advancements in computing and communication technologies have led to the emergence of edge and cloud computing networks, transforming the accessibility and location of applications, data storage, and processing resources. While cloud computing offers reliable and cost-efficient computing, there is a growing need for lower latency and real-time interactive applications that require computing centers closer to end devices. This has led to the emergence of edge computing, where small computing centers are placed in proximity to end devices for faster response times. The Edge and Cloud Computing Networks symposium focuses on topics related to all aspects of edge/cloud computing fields, and seeks original unpublished papers focusing on theoretical analysis, algorithm/protocol design, novel system architectures, experimental studies, emerging applications, standardizations, testbeds, etc. The goal is to bring together and disseminate the latest developments and technical solutions concerning all facets of the broad area of edge and cloud computing networks, including emerging intelligent and/or self-aware communications and networking technologies to improve network resource utilization and optimization, and make future communication and networking systems intelligent, autonomous, efficient, and trustworthy. The symposium calls for original, previously unpublished papers on the topics including, but not limited to, the following:

- Edge and Cloud Computing Networks for Industry IoT (IIoT)
- Performance guarantee, QoS, and QoE in Edge and Cloud systems
- Machine Learning approaches for Edge and Cloud Computing Networks
- Cloud network operating systems
- Datacenter(DC)/micro-DC network management
- Intra-cloud and inter-cloud management
- Energy-efficient algorithms, protocols, and designs for Edge and Cloud Computing Networks
- Security, privacy, trust for Edge and Cloud Computing Networks
- Mobile Edge and Cloud networking in next-generation wireless mobile networks
- Optimal resource arrangement/allocation/migration in Edge/Cloud computing centers
- · Hierarchical architecture or hybrid design amid Edge/Cloud computing centers
- Software Defined Networking approaches for Edge and cloud computing
- Edge Computing for Digital Twins
- Mission-critical edge computing and networking

- Hybrid design of Edge/Cloud computing for various AI and IoT applications
- Distributed orchestration for edge and cloud computing
- Federation and overlaying in edge and cloud computing
- Serverless computing and FaaS
- Elasticity and scalability of cloud resources

## **Submission Guidelines**

Perspective authors should follow the instructions at <u>http://www.future-forum.org.cn/en/fcn2025/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/fcn2025/Submission.html</u>.

## **Short Biographies of Co-Chairs**

## 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 Université 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.

## Yusheng Ji

Dr. Yusheng Ji received the B.E., M.E., and Ph.D. degrees in Electrical Engineering from the University of Tokyo. She joined the National Center for Science Information Systems (NACSIS), Tokyo, Japan in 1990. She is currently a Professor at National Institute of Informatics (NII), Tokyo, Japan, and the Graduate University for Advanced Studies (SOKENDAI), Japan. Her research interests include network resource management and mobile computing. She has received many best paper awards, including IEEE ComSoc Outstanding Paper Award, Andrew P. Sage Best Transactions Paper Award, etc. She has served as TPC Co-chair, Symposium Co-Chair and Track Co-chair for IEEE conference such as INFOCOM, ICC, GLOBECOM, VTC, etc. She is an Associate Editor of IEEE VTM, IEEE TCCN, and served as an Editor of IEEE TVT. She is a Fellow of IEEE, and a Distinguished Lecturer of IEEE VTS.

## Abdellatif Kobbane

Dr. Abdellatif Kobbane received the M.S. degree in computer science, telecommunication and multimedia, and the Ph.D. degree in computer science from the Mohammed V-Agdal University, Rabat, Morocco, and the University of Avignon, Avignon, France, in 2003 and September 2008, respectively. He has been a Full Professor with the Ecole Nationale Supirieure d'Informatique et d'Analyse des Systemes, Mohammed V University, Rabat, since 2009. His research interests primarily revolve around wireless mobile networking, performance evaluation,

flexible resource management, and distributed AI in 5G/6G networks utilizing AI and advanced techniques in distributed mean-field game theory. He is the author of numerous scientific publications in prestigious IEEE conferences and journals, such as IEEE ICC, IEEE Globecom, IWCMC, ICNC, IEEE WCNC, etc. Dr. Kobbane's research also delves into the application of artificial intelligence and generative AI mean-field game theory in modeling and evaluating the performance of various systems.

#### **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 the web co-chair of ADHOCNETS 2018, a member of the technical program committee of VTC 2022-Fall, the publicity chair of DCOSS-IoT 2024, the session chair of FCN 2023, and the symposium co-chair of FCN 2024.