

Call for Papers

Next Generation Systems and Networks (NGSN) Symposium

The 16th International Wireless Communications & Mobile Computing Conference

Limassol, Cyprus; June 15 — 19, 2020

IWCMC 2020 Website: <https://iwcmc.org/2020/>

Submission Link: <https://edas.info/newPaper.php?c=26206>

Technically sponsored by IEEE

Symposium Chairs

Sameh Sorour, Queen's University, Canada (sameh.sorour@queensu.ca)

Ayman Radwan, Instituto de Telecomunicações, Portugal (aradwan@ua.pt)

Ahmed Hussein, Manhattan College, USA (ahmed.refaey@gmail.com)

Mohamed Hefeida, University of Idaho, USA (hefeida@uidaho.edu)

Hina Tabassum, York University, Canada (hina.tabassum@lassonde.yorku.ca)

Scope:

As one of the technical symposia of the 2020 International Wireless Communication and Mobile Computing Conference (IWCMC 2020), the Next Generation Systems and Networks (NGSN) Symposium is dedicated to addressing the existing and emerging theoretical and practical challenges in the design, analysis, development and implementation of algorithms, protocols, architectures, and applications for next generation wireless communications and mobile computing technologies, and their applications in smart systems and cities. Examples of such technologies and applications include mobile cloud and fog networking/computing, device-to-device networks, network virtualization, autonomous systems (vehicles, robots, UAV, etc), machine learning for smart systems, smart grids, intelligent transportation systems, and smart connected systems and infrastructures for smart cities. The goal of this symposium is to bring together people from academia and industry, who have interest in the area of next generation systems and networks, to present their latest works and synergistically engage in further innovation to shape the future of wireless communications and mobile computing.

Accepted papers will be published in the IEEE IWCMC 2020 proceedings and will be submitted to the IEEE digital library (IEEE Xplore). Selected papers will be further considered for possible publication in five special issues in the following Journals:

- *Wiley Journal of Wireless Communications and Mobile Computing (WCMC)*
- *The International Journal of Sensor Networks (IJSNet)*
- *The International Journal of Autonomous and Adaptive Communications Systems (IJAACS)*
- *KSII Transactions on Internet and Information Systems*
- *Peer-to-Peer Networking & Applications*

Topics of interest include, but are not limited to:

- Cloud and edge radio access architectures

- Cloud computing
- Mobile edge computing, learning, and intelligence
- Hybrid cloud-edge architectures
- Energy-efficient data centers and networks
- Next generation backhauling solutions
- Big/real-time data analytics for cloud/edge networks
- Tactile Internet
- Autonomous vehicles
- Device-to-device networking
- Distributed and federated learning on edge devices
- Software applications for big data, cloud, fog and IoT infrastructure
- Network functions virtualization and software defined networking
- Autonomous systems and their applications
- Industrial Internet of Things
- Location/topology discovery and autonomous relocation/coordination techniques
- Centralized and distributed learning schemes for smart cities and autonomous systems
- Connected vehicles, pedestrians, and infrastructure for smart cities
- Smart mobility and assistance applications using connected systems
- Traffic characterization, engineering and measurements for NSGN
- Cross-layer design and optimization methods for NSGN
- Implementation and testing of NSGN prototypes and test-beds
- Performance modeling and analysis of NSGN
- Resource management and quality of service guarantees for NSGN
- Applications, operating system, and middleware support for NSGN
- Trust, security and privacy protocols for NSGN

Submission Guidelines:

Prospective authors are invited to submit original technical papers—up to 6 pages of length, using the EDAS link <https://edas.info/newPaper.php?c=26206> for possible publication in the IWCMC 2020 Conference Proceedings, which will be submitted to the IEEE Xplore, and considered for possible publication in the aforementioned special issues.

Note: The conference organization committee will grant best paper awards, best symposium awards and best workshop awards.

Important Dates:

Paper Submission Date:	January 10, 2020
Paper Acceptance Notification:	March 30, 2020
Registration/Camera-ready:	April 30, 2020