



# Call for Papers

## IoT & SENSOR NETWORKS SYMPOSIUM

### SYMPOSIUM CO-CHAIRS

**Iyad Dayoub**, University Polytechnique Hauts de France & INSA HdF/IEMN CNRS UMR 8520  
[iyad.dayoub@uphf.fr](mailto:iyad.dayoub@uphf.fr)

**Shahid Mumtaz**, Instituto de Telecomunicações, Portugal  
[smumtaz@av.it.pt](mailto:smumtaz@av.it.pt)

### SCOPE AND MOTIVATION

Ad Hoc networks are highly adaptive and self-organizing networks that do not rely on pre-existing communication infrastructure. Following such a paradigm, sensor, actuator and Internet of Things (IoT) networks consist of multiple devices interacting with their physical environment. These networks promise to revolutionize our lives by opening new possibilities in various domain including smart health, industries, cities, mobilities, etc.

Thanks to an increased connectivity, enabled by forthcoming standards such as 5G, these networks will generate huge volumes of data that will have to be stored, analyzed and processed. Meanwhile, to satisfy new applications such as Internet of Multimedia Things (IoMT), Internet of Vehicles (IoV), Internet of space things (IoST) or massive Machine Type Communication (mMTC), these networks will require higher reliability, lower latency, and scalability. These requirements can only be made with radical changes in terms of architecture and communication solutions.

### TOPICS OF INTEREST

The IoT & Sensor Networks Symposium at FNWF 2022 aims to provide a forum that brings together researchers to present their cutting-edge achievements in all aspects of the field. This track solicits technical papers describing original, unpublished papers related to trends, issues and challenges of the Internet of Things. We invite submissions related but not restricted to the following topics of interest :

- 5G, IoT and beyond 5G/6G networks
- Protocols, Architectures and Applications for IoT
- Standardization for Ad Hoc, Sensor and IoT Networks
- Machine-to-Machine (M2M) Communications in Ad Hoc Networks and IoT
- Massive Machine Type Communications (mMTC)
- Highly Reliable and Low Latency Ad Hoc, Sensor and IoT Networks
- QoS Provisioning for Ad Hoc, Sensor and IoT Networks
- IoT and Haptic Interfaces in Tactile Internet, including 5G Networks and beyond
- Low Power Wide Area Networks and Technologies
- Messaging Technologies for the Industrial IoT (Google QUIC, DDS, AMQP, MQTT, MQTT-SN, etc.)
- Aerial IoT Networks
- Underwater and Underground Sensor and IoT Networks
- IoT Networks for Smart Cities, Smart Grids, Smart Living Spaces, Industry 4.0, Intelligent Transportation Systems, etc.
- Delay-Tolerant Networks and Opportunistic Ad Hoc, Sensor, and IoT Networking
- Ultra-Wide Band Technology for Ad Hoc, Sensor and IoT Networks
- Nano Ad Hoc, Sensor and IoT Networks
- Software Defined Networking (SDN) and Network Function Virtualization (NFV) for IoT
- Cognitive Radio Networks in Ad Hoc, Sensor, and IoT Networks
- Co-existence Issues of Heterogeneous Ad Hoc, Sensor and IoT Networks
- MAC and Routing Protocols for Ad Hoc Networks, Sensor Networks
- Cross-layer Design in Ad Hoc and IoT Networks
- Energy-efficient Design for Green Ad Hoc, Sensor and IoT Networks
- Mobility, Localization and Context-Adaptive IoT
- Data Aggregation and Dissemination in Multi-hop and IoT Networks
- Machine Learning and/or Game Theoretical Models for Ad Hoc, Sensor and IoT Networks
- Fog/Edge Computing to IoT
- Security, Privacy and Trust issues in Wireless Ad Hoc, Sensor and IoT Networks
- Blockchain Technology for IoT
- Energy Saving, Power Control and Energy Scavenging for Ad Hoc, Sensor and IoT Networks
- Service Discovery for IoT
- Pricing, Modeling and Solutions for IoT
- Performance Evaluation and Modeling of Ad Hoc, Sensor and IoT Networks
- Experimental Prototypes and Testbeds for Ad Hoc, Sensor and IoT Networks
- IoT and AR/VR technologies
- Internet of Multimedia Things (IoMT)
- Internet of space things (IoST)
- Internet of Vehicles (IoV)
- Artificial Intelligence and IoT

## IMPORTANT DATES

Paper Submission: **21 August 2022 (firm)**

Notification: Rolling basis until 31 August 2022

Camera Ready and Registration: 7 September 2022

## HOW TO SUBMIT A PAPER

All papers for technical symposia should be submitted via [EDAS](#).

Full instructions on how to submit papers are provided on the IEEE FNWF 2022: <https://fnwf.ieee.org/>

