

Call for Papers

Intelligent IoT and Sensor Networks (IoTSN) Symposium

The 21st International Conference on Wireless Communications and Mobile Computing

Website: <http://iwcmc.org/2025/>

Submission Link: <https://edas.info/newPaper.php?c=32919>

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Scope

With the advancement of Internet of Things (IoT) transforming our society by connecting the world around us, future wireless services will focus on improving the quality of life by enabling various applications, such as extended reality, brain-computer interaction, and healthcare. These applications will have diverse performance requirements (e.g., user-defined quality of experience metrics, latency, and reliability) which will be challenging to be fulfilled by existing wireless systems. To meet the diverse requirements of the emerging applications, the concept of smart IoT has recently been proposed and used. IoT using computing technologies used in smart city communications between connected devices requires high reliability, low latency, and sufficient scalability. On the other hand, MTC (machine type communications) and M2M (machine-to-machine) communications have struggled to meet the demand of the large data being collected. Thus, fog and edge computing have been proposed to reduce the heavy burden on the network due to the centralized processing and storing of the massive IoT data. The latter is close to the user for pre-processing and pre-cleaning of the data before sharing it with the cloud. That can reduce the overload on the network by keeping the data local and reducing the delay. In addition, different AI/ML techniques are being used to help mitigate other challenges.

This Symposium is soliciting original papers on research and development topics in the field of wireless IoT ad-hoc and sensor networks. Prospective authors are cordially invited to submit original technical papers.

Topics

Accepted papers will be published in the IEEE IWCMC 2025 proceedings and will be submitted to the IEEE digital library (IEEE Xplore). Authors are welcome to submit original papers (not published before and/or simultaneously to another venue) with topics that include but are not limited to:

- Smart IoT, ad-hoc and sensor networks
- Artificial intelligence and IoT
- Federated learning for IoT networks
- IoT security, trust, and trustworthy
- Intelligent sensor and actuator networks
- Emerging IoT protocols and standards
- Ultra-low power IoT technologies and embedded systems architectures

- Wearables, body sensor networks, smart portable edge devices
- Internet of nano things
- Internet of Underwater Things
- IoT data management and mining
- Distributed IoT and routing research issues
- IoT edge/fog computing
- IoT M2M and MTC communications
- Emerging technologies for the industrial IoT (IIoT)
- IoT for connected cars, UAVs, drones and smart city applications
- Interoperability methodologies for heterogeneous IoT
- IoT big data management and analysis
- IoT networks crowdsensing
- IoT interoperability and multi-platform integration

Submitted papers are encouraged to address novel technical challenges or industrial and standard aspects of the key technologies related to the conference theme(s).

Important Dates

Deadlines will follow the main conference announced dates.

Note: Within this Symposium, there will be one Best Paper Award.