

Call for Papers

Millimeter-Wave and Terahertz Sensing and Networks

Special Session Chair

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Scope and Motivation

The Millimeter-Wave (mmWave) and Terahertz (THz) Sensing and Networks symposium aims to serve as an international forum for experts, researchers, and practitioners from academia, industry, and government to exchange new ideas and results on research and development, as well as to promote and accelerate standardization, applications, and integration of innovative mmWave/THz sensing and networks technologies. This track specifically focuses on the fusion of mmWave/THz communication and sensing, exploring its potential in various critical applications such as health monitoring, object detection, vehicle tracking, and integrated sensing and communication. These technologies enable the development of intelligent, high-performance mmWave/THz sensing and networks system. By advancing the understanding and implementation of mmWave/THz sensing and networks system, the track aims to contribute to the future research in wireless sensing and networking, thereby facilitating advancements in the fields of healthcare, intelligent transportation, smart cities, and other related fields.

Topics of Interest

Our track seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- MmWave and THz research platforms and testbed development
- Object and vehicle detection, localization and tracking using mmWave and THz sensing
- MmWave/THz health monitoring
- MmWave/THz environmental monitoring
- Implantable and wearable mmWave/THz computing
- Medical applications of mmWave and THz sensing systems
- MmWave/THz sensing for smart city applications
- RADAR, imaging systems and techniques for mmWave and THz
- Integrated sensing and communication in the mmWave and THz bands

Important Dates

Paper Submission: 2025-08-15

Notification: 2025-10-01

Camera Ready and Registration: 2025-10-15

How to Submit a Paper

Each submission should include the authors' names, affiliations, an abstract, and 5–10 keywords. Papers are limited to 8 pages, including figures and references. Up to two additional pages may be included with an overlength charge. Full instructions on how to submit papers are provided on the IEEE ICPADS 2025 website: <http://ieee-icpads.org.cn/CFP-research-paper.html>