

Call for papers

Integrated Sensing and Communication (ISAC) Symposium

FCN 2026

Bologna, Italy, on Oct. 28 – Nov. 1, 2026

<http://www.future-forum.org.cn/en/fcn2026/index.html>

Co-Chairs:

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Scope

Integrated Sensing and Communication (ISAC) has become a transformative paradigm for future networks, unifying wireless communication and sensing with shared radio resources and network platforms. ISAC enables diverse applications like autonomous driving, smart cities, and IoT, while offering major benefits: integration gain for resource efficiency and coordination gain for performance optimization. As 5G evolves and 6G emerges, ISAC research faces challenges in waveform design, resource allocation, hardware integration, as well as security and privacy. This symposium invites contributions on advancements, methodologies, and novel use cases to shape the future of intelligent wireless systems. The scope of this symposium includes, but is not limited to:

- Fundamental performance limits and information theoretical bounds for ISAC
- Waveform design and signal processing techniques for ISAC
- Transceiver structures and hardware implementation for ISAC
- Spectrum analysis, management, and coexistence strategies for ISAC
- Full duplex and interference management in ISAC systems
- Precoding, modulation, and receiver design for ISAC
- Security, privacy, and trust issues in ISAC networks
- Machine learning and AI-driven approaches for ISAC optimization
- MIMO, Massive MIMO, and intelligent reflecting surface (IRS) technologies for ISAC
- Millimeter-wave and THz communication for ISAC applications
- ISAC-based multi-functional networks and architectures
- ISAC for unmanned aerial vehicles (UAV) and vehicular-to-everything (V2X) networks
- Human activity recognition, eHealth, and indoor localization using ISAC
- Delay-Doppler signal processing and tracking algorithms for ISAC
- Integrated sensing, communication, and computing paradigms
- Wi-Fi sensing, positioning, and detection techniques for ISAC
- Experimental demonstrations, prototypes, and testbeds for ISAC
- Standardization progress and future directions of ISAC

Submission Guidelines

Prospective authors should follow the instructions at <http://www.future-forum.org.cn/en/fcn2026/Kit.html> to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at <http://www.future-forum.org.cn/en/fcn2026/Submission.html>.