



Global 6G Conference 2026

1st Workshop on Terahertz Integrated Sensing and Communications (T-ISAC)

April, 2026 Nanjing, Jiangsu, China

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Call for Paper

WORKSHOP SCOPE

The ultra-wide bandwidth of terahertz waves allows high-speed communication and high-precision sensing to be achieved simultaneously, providing a powerful foundation for next-generation 6G ISAC applications such as smart factories and immersive communication. As research on terahertz ISAC (T-ISAC) continues to expand, a broad set of opportunities is emerging in areas including mobility management, integrated waveform and signal design, joint processing, and bidirectional interaction between communication and sensing functions. This workshop aims to bring together global experts and scholars to discuss recent progress and explore key advances in theory, algorithms, system architecture, and experimental validation that will shape future T-ISAC systems.

Topics of interest include, but are not limited to:

- Channel measurements and modeling for T-ISAC
- Joint channel estimation, tracking, and prediction in T-ISAC
- Waveform and frame structure design for T-ISAC
- Beamforming, beam tracking, and beam management for T-ISAC
- Unified performance metrics, assessment, and theoretical limits
- Resource allocation, optimization and co-design for T-ISAC
- System and algorithm design for mobile T-ISAC systems
- Sensing-assisted communications for T-ISAC
- Environment sensing based on T-ISAC systems
- Multi-user, multi-antenna, and distributed T-ISAC access
- Joint architecture design across low-frequency and THz ISAC
- Near-field and hybrid-field design for T-ISAC
- Experiments, testbeds, prototype and applications for T-ISAC

SUBMISSION GUIDELINES

Papers should be submitted via EDAS (<https://edas.info>). Prospective authors should prepare their manuscripts in accordance with the standard IEEE camera-ready format. Submitted papers must not have been previously published and must be within the length limit. All accepted papers must be presented on site at the conference. Accepted papers will be submitted for inclusion into IEEE Xplore and then indexed by EI Compendex.

Important Dates

- **Submission Deadline:** Feb. 1, 2026
- **Acceptance Notification:** Mar. 14, 2026
- **Registration Deadline for Authors:** Mar. 30, 2026
- **Camera-ready Submission:** Apr. 1, 2026
- **Presentation Submission:** Apr. 11, 2026



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