2026 IEEE 26th International Conference on Communication Technology

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Special Session 6

Space-Air-Ground Integrated Communication Networks

The Space-Air-Ground Integrated Network (SAGIN) is emerging as a cornerstone of next-generation global connectivity, bridging terrestrial 5G/6G systems with non-terrestrial platforms including LEO/MEO/GEO satellites, high-altitude platforms, and UAV swarms. This special session focuses on the key technologies that enable seamless interoperability, intelligent resource orchestration, and ultra-reliable communications across these heterogeneous domains. Topics of interest span network architecture and protocol design, AI-driven mobility management and handover, integrated sensing and communication, multi-tier edge computing and caching, as well as security and resilience mechanisms for multi-domain environments. We invite original contributions addressing theoretical advances, algorithmic innovations, and system-level solutions that push forward the state of the art in SAGIN. Both foundational research and experimental studies are welcome.

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Topic of Interest

- Heterogeneous Network Architecture and Protocol Design for SAGIN
- Non-Terrestrial Networks (NTN) and 5G/6G Convergence
- LEO/MEO/GEO Satellite Constellation Deployment and Resource Orchestration
- High-Altitude Platform Stations (HAPS) and UAV-Assisted Communications
- Intelligent Mobility Management and Seamless Handover
- AI-Driven Network Slicing and Resource Allocation in Multi-Domain Networks
- Integrated Sensing and Communication (ISAC) in SAGIN
- Physical Layer Technologies for Ultra-Reliable Space-Air-Ground Links
- Edge Computing, Caching, and Distributed Intelligence in SAGIN
- Security, Privacy, and Resilience in Integrated Space-Air-Ground Networks

Important Dates

Submission Due:	2026-July 1st
Notification Due:	2026-July 25
Camera-ready Due:	2026-August 10

Submission

Submission Link:
https://easychair.org/conferences/?conf=icct2026
(Please choose Special Session 6)

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