Global 6G Conference 2026

Workshop on Multimodal Unified Communication (MUC) toward Space-Air-Ground Integrated Network (SAGIN)

April, 2026 Nanjing, Jiangsu, China

Call for Paper

Conference General Chair

Xiaohu You (Purple Mountain Laboratories, Southeast University, FuTURE FORUM, China)

Workshop Chairs

Min Zhu (Southeast University, China)
Jiao Zhang (Purple Mountain Laboratories, China)
Zhenda Xie (Nanjing University, China)
Ye Zhu (Innovation Academy for Microsatellites of CAS, China)

WORKSHOP SCOPE

In recent years, the research and application of global Space-Air-Ground Integrated Networks (SAGIN) have entered a new phase of rapid development. The 6G network will break through terrestrial limitations and expand to multi-dimensional domains, including space, air, ground, and sea. Currently, the air interface transmission for SAGIN primarily relies on radio frequency (RF) communication technologies—such as microwave, millimeter-wave, and terahertz—or free-space optical (FSO) communication technologies. RF and FSO exhibit complementary transmission characteristics; to overcome the limitations of relying solely on either single communication technology, the integration of these two technologies through multi-modal collaboration has become a critical technical pathway to achieve high-speed and highly reliable transmission in SAGIN. This workshop aims to bring together global experts and scholars, focusing on the field of RF/FSO multi-modal integrated communication for SAGIN. It will facilitate joint discussions on the latest research progress and explore key breakthroughs in areas including theory, devices, algorithms, system architecture, and experimental verification.

Workshop Hosts

东南大学 SOUTHEAST UNIVERSITY
紫金山实验室 Purple Mountain Laboratories
南京大学 NANJING UNIVERSITY
microsat 中国科学院微小卫星创新研究院 Innovation Academy for Microsatellites of Chinese Academy of Sciences

Topics of Interest

Topics of interest include, but are not limited to:

- RF/FSO devices, frontend and antenna (electrical, photonic) for SAGIN
- RF/FSO channel measurements and modeling for SAGIN
- RF/FSO joint channel estimation, tracking, and prediction in SAGIN
- RF/FSO waveform and frame structure design for SAGIN
- RF/FSO beamforming, beam tracking, and beam management for SAGIN
- RF/FSO unified performance metrics, assessment, and theoretical limits in SAGIN
- RF/FSO resource allocation, optimization and co-design for SAGIN
- RF/FSO system and algorithm design for SAGIN
- RF/FSO joint architecture design for SAGIN
- RF/FSO experiments, testbeds, prototype and applications for SAGIN

Paper Submission Guidelines

Papers should be submitted via EDAS (https://edas.info/newPaper.php?c=34433). Prospective authors should prepare their manuscripts in accordance with the standard IEEE camera-ready format. Submitted papers must not have been previously published in or under consideration for publication in another journal or conference. The Global 6G Conference organizing committee reserves the right not to review papers that either exceed the length limit or have been submitted or published elsewhere. All accepted papers must be presented onsite at the conference. Accepted papers will be submitted for inclusion into IEEE Xplore and then indexed by EI Compendex.

Important Dates

- **Paper submission:** Feb. 1, 2026
- **Notification of acceptance:** 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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For more information, visit the conference website: https://en.g6gconference.com/

Conference Hosts:

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