



Global 6G Conference 2026

Workshop on 6G Network Empowering Agents

April, 2026 Nanjing, Jiangsu, China

Call for Paper

Workshop Chairs

Guangyi Liu (China Mobile Research Institute, China)

Jiangzhou Wang (Southeast University, U.K.)

Workshop Hosts



WORKSHOP SCOPE

With the rapid advancement of multimodal large models and embodied intelligence, a future populated by vast numbers of autonomous agents is gradually becoming a reality. These agents, capable of perception, decision-making, and action, are poised to become core components of the digital ecosystem. Their large-scale deployment and seamless operation impose fundamental requirements on 6G networks, demanding a shift beyond traditional data connectivity towards native capabilities that support autonomy, collaboration, and collective intelligence. 6G networks are expected to construct the foundational environment and enabling base for agent operation. By flexibly integrating communication, sensing, computing, and intelligence resources, 6G will respond to agent intent and semantics, dynamically manage multi-dimensional resources, and ultimately ensure the efficient and reliable operation of agent applications. However, to fully realize the vision of 6G-empowered agentic systems, key challenges in network architecture, collaboration mechanisms, semantic understanding, trust, and security must be overcome. The primary goal of this workshop is to bring together experts from academia and industry to discuss development pathways and future opportunities, fostering an open and intelligent new 6G ecosystem.

Topics of Interest

This workshop seeks original and unpublished works in the broad area of 6G-empowered agents, including its system architecture, key technologies, and testbed validation. The topics of interest for this workshop include, but are not limited to:

- 6G Network Architecture for Agents.
- Multi-Agent Collaboration and Network-Enabled Collective Intelligence
- Intent-Driven and Semantic Communications for Autonomous Agents
- Energy-Efficient Autonomous Decision-Making and Learning
- Security, Privacy, and Trust for Agentic Systems over 6G
- Network Protocol Optimization for Agent Cooperation
- Testbeds, Prototyping and Standardization for Agentic 6G

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 in IEEE Xplore and then indexed by EI Compindex.

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:

