Global 6G Conference 2026

Workshop on AI Edge for Mobile Agentic Network

April, 2026 Nanjing, Jiangsu, China

Call for Paper

General Chair:
Jihong Park (Singapore University of Technology and Design, Singapore)

Workshop Chairs
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Yue Wang (China Telecommunications Corporation, China)
Tingting Yang (Peng Cheng Laboratory, China)

WORKSHOP SCOPE

The sixth-generation (6G) mobile communication system aims to achieve a profound evolution from "Connecting Things" to "Connecting Intelligence." Beyond providing reliable connectivity capabilities, future networks must embed autonomous and distributed agents within the wireless infrastructure. To realize this vision, AI Edge emerges as a pivotal enabler. Edge nodes are set to evolve into intelligent agents endowed with capabilities for learning, sensing, reasoning, and adaptive decision-making. Leveraging heterogeneous computing resources (e.g., CPUs, GPUs, FPGAs), these intelligent edge nodes simultaneously support AI-driven distributed computing and wireless communication tasks, facilitating the synergistic coexistence of communication and intelligence at the network edge.

By converging AI and communication capabilities at the network edge, AI Edge unlocks the full potential of 6G networks, enhancing spectrum efficiency, minimizing latency, and empowering emerging intelligent services such as embodied AI and low-altitude intelligent networks. However, this paradigm introduces multifaceted challenges. It requires not only highly efficient computational orchestration on edge nodes but also addresses critical issues regarding multi-agent collaboration, privacy and security in distributed model training, and the generalization of AI models within dynamic wireless environments.

Workshop Hosts

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN

上海大学 Shanghai University

中国电信 CHINA TELECOM

鹏城实验室 PENG CHENG LABORATORY

Topics of Interest

This workshop aims to bring together researchers from academia and industry to explore key technologies and prototype systems within AI Edge networks, facilitating the convergence of AI and communications to drive the next evolution of wireless networks.
Topics include, but are not limited to:

- Architectures and frameworks for AI Edge networks
- Communication algorithm reconstruction and acceleration on heterogeneous computing platforms
- AI-driven physical layer communication algorithms, such as intelligent transceiver design, channel state information prediction and extrapolation
- AI-enhanced MAC layer communication algorithms, including resource allocation, user scheduling, and interference management
- AI-agent-based distributed network optimization
- Efficient distributed learning and inference among edge agents
- Resource allocation for AI and communication tasks coexistence at the edge
- Model compression and computational task scheduling at the edge
- End-edge–cloud model collaboration and dynamic computing offloading
- Testbeds, prototypes, and experimental validation for AI Edge network

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. 27, 2026
Notification of acceptance: Mar. 14, 2026
Registration Deadline for Authors: Mar. 30, 2026

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For more information, visit the conference website: https://en.g6gconference.com/

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