INFOCOM 2027 Workshop on Embodied Intelligence Networks

Full-day workshop · Monday, May 24, 2027

Co-located with IEEE INFOCOM 2027 in Honolulu, Hawaii, USA

Important Dates

Submission deadline
December 29, 2026

Notification of acceptance
February 2, 2027

Camera-ready due
February 16, 2027

Workshop date
Monday, May 24, 2027

Dates may be adjusted to follow the final IEEE INFOCOM 2027 workshop schedule; please check the website for updates.

Workshop Format

Full-day event held in conjunction with IEEE INFOCOM 2027: a keynote, four paper sessions, a panel, and a Best Paper Award.

Workshop Chairs

Hao Wang
Stevens Institute of Technology, USA

Ningxin Su
The Hong Kong University of Science and Technology (Guangzhou), China

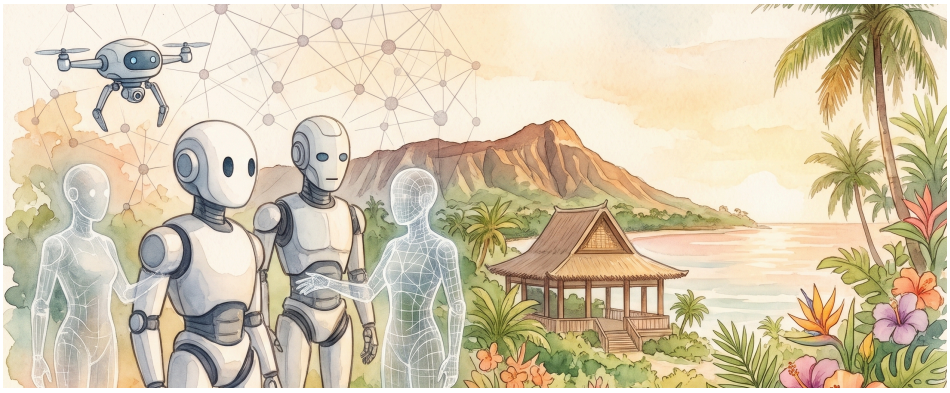
Steering Committee

Baochun Li (Chair)
University of Toronto, Canada

Yusheng Ji
National Institute of Informatics, Japan

Ruidong Li
Kanazawa University, Japan

Min Song
Stevens Institute of Technology, USA



Call for Papers

Embodied agents, from collaborative robots and humanoids to smart glasses and industrial IoT sensors, increasingly perceive and act in the physical world, often directed by software agents that plan, call tools, and coordinate with one another. Their perception and decisions depend on an efficient, low-latency, highly dependable, and adaptive network.

After its first edition at INFOCOM 2026 in Tokyo, EIN returns as a full-day workshop on the network architectures, protocols, algorithms, and system designs for embodied intelligence networks. Topics include, but are not limited to:

- **Multi-agent embodied systems** HIGHLIGHTED: coordination and task allocation among embodied and software agents; agent protocols such as MCP and A2A; networking for robot fleets, humanoids, and wearables.
- **Virtual and real clients in embodied AI** HIGHLIGHTED: learning across simulated and physical clients; sim-to-real transfer over the network; digital twins, simulators, and testbeds.
- **Network infrastructure for embodied foundation models**: distributed and streaming inference of vision-language-action (VLA) models and world models; edge computing; 6G and AI-native RAN.
- **Dependable embodied networks**: trust, safety, and security; safe behavior under network degradation; benchmarks, open datasets, and real-world deployments.

We solicit short papers of up to six pages, including references, each presented as a talk. Papers with open-source artifacts are especially encouraged, and the freshness of visionary ideas matters more than the completeness of theoretical proofs. Accepted papers will appear in the IEEE INFOCOM 2027 workshop proceedings and be submitted to IEEE Xplore.