

Call for Papers

Interdisciplinary Distributed System and IoT Applications

Track Co-Chairs

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Scope and Motivation

The Distributed System and Internet of Things (IoT) have emerged as a transformative technology, enabling seamless connectivity and interaction between physical devices, sensors, and the digital world. This track aims to serve as an international forum for researchers and practitioners from academia, industry, and government to share new research results, discuss standards, and showcase applications built upon distributed systems and IoT. The scope covers various domains such as healthcare, smart cities, agriculture, manufacturing, and beyond. This track will examine how IoT technologies can be integrated with advanced computational frameworks, such as distributed systems, to develop scalable, intelligent, and resilient solutions. Emphasis will be placed on real-time data acquisition, machine-to-machine communication, and the design of autonomous ecosystems that improve daily life and industrial processes. By encouraging collaborations across disciplines, this track seeks to promote innovative distributed systems and IoT applications while addressing critical challenges such as interoperability, energy efficiency, and ethical concerns.

Topics of Interest

This track welcomes original contributions in the following topical areas, as well as related subjects that are not explicitly listed but fall within the scope of distributed systems and IoT:

- Distributed Systems and IoT for Healthcare and Human-centered Sensing Applications.
- Interoperability in IoT Systems: Standardization, middleware solutions, and communication protocols.
- Distributed systems and IoT for Smart Cities: urban planning, transportation, and environmental monitoring.
- IoT-enabled Distributed Architectures: Design, deployment, and optimization of distributed IoT systems.
- Edge Computing for IoT Applications: Resource allocation, scalability, and security in edge environments.
- Energy-efficient Distributed Systems: Power-saving algorithms and sustainable IoT deployments.
- AI and Machine Learning in IoT: Intelligent decision-making in distributed IoT systems.

Important Dates

Paper Submission: 2025-08-15

Notification: 2025-10-01

Camera Ready and Registration: 2025-10-15

How to Submit a Paper

Each submission should include the authors' names, affiliations, an abstract, and 5–10 keywords. Papers are limited to 8 pages, including figures and references using the IEEE Computer Society Proceedings manuscripts style (two columns, single-spaced, font size 10). Manuscript Templates for Conference Proceedings can be found at https://www.ieee.org/conferences_events/conferences/publishing/templates.html. Up to two additional pages may be included with an overlength charge. Full instructions on how to submit papers are provided on the IEEE ICPADS 2025 website: <http://ieee-icpads.org.cn/CFP-research-paper.html>.