

Call for Papers

Artificial Intelligence for Mobile Computing

Track Co-Chairs

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Scope and Motivation

The Artificial Intelligence for Mobile Computing Track aims to serve as an international forum for experts, researchers, and practitioners from academia, industry, and government to exchange new ideas and results on research and development, as well as to promote and accelerate standardization, applications, and real-world deployments of AI-driven mobile computing technologies.

Mobile computing has become ubiquitous, powering smart devices, IoT systems, autonomous vehicles. The integration of Artificial Intelligence (AI) and Machine Learning (ML) into mobile platforms is revolutionizing how we interact with machine, enabling resource-efficient intelligent solutions. However, challenges such as limited computational and memory resources, privacy concerns, real-time and personalized processing demands persist, requiring innovative AI techniques tailored for mobile and edge environments. It is also a trend to integrate LLM and agent techniques with mobile devices, enabling new mobile applications and user experiences.

This track invites high-quality contributions exploring theoretical advances, algorithmic innovations, system designs, and practical implementations at the intersection of AI and mobile computing.

Topics of Interest

Our track seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Novel uses of generative artificial intelligence and Large Language Models for mobile computing systems
- Novel applications of agentic artificial intelligence for mobile computing systems
- Novel applications of embodied AI for mobile computing systems
- Energy and resource management in mobile AI deployment
- Privacy considerations in mobile AI implementations
- Stability and reliability for mobile AI
- Novel mobile computing applications and systems with artificial intelligence
- Context-aware LLM applications for mobile computing systems.
- Generative AI and LLM for mobile sensing data analysis
- Human and AI collaboration for mobile computing 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. 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>