# The 31<sup>st</sup> International Conference on Parallel and Distributed Systems



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# **Call for Papers**

# Security and Privacy in Mobile and Ubiquitous Systems

### **Track Co-Chairs**

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#### **Scope and Motivation**

As mobile, IoT, and wearable devices increasingly serve as intelligent edge nodes, they become both prime targets for security breaches and powerful tools for security and privacy enforcement. This track aims to explore two complementary perspectives: (1) investigating the **security and privacy risks of edge devices** and mobile systems, such as vulnerability to adversarial attacks, data leakage, and side channels; and (2) leveraging **edge sensing systems (e.g., ultrasound, radar, WiFi)** for **security applications**, such as spoofing detection, user authentication, and adversarial signal defense. We welcome novel contributions that address these challenges through system design, adversarial analysis, trustworthy AI, and privacy-preserving mechanisms tailored for real-world ubiquitous environments.

## **Topics of Interest**

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

- Security vulnerabilities and threat modeling of mobile and edge devices
- Side-channel attacks and privacy leakage in ubiquitous systems
- Acoustic, radar, or RF-based attack and defense mechanisms using edge devices
- Edge-assisted biometric authentication and anti-spoofing
- > Trustworthy and privacy-aware sensing with on-device intelligence
- Lightweight and adversarially robust AI models on mobile platforms
- Cross-layer security for smart homes, vehicles, and wearables
- Privacy-preserving federated learning in mobile and IoT contexts
- Edge-based intrusion detection and behavior tracking systems
- Emerging attacks and defenses leveraging embedded sensors (e.g., motion, sound)

#### **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.