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



Hefei, China December 14 - 18, 2025

Ubiquitous Computing for Global Communities

## **Call for Papers**

## **RF Computing and AloT Application**

#### Track Co-Chairs

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#### **Scope and Motivation**

The Radio Frequency (RF) Computing and AloT Application Track aims to serve as an international forum for experts, researchers, and practitioners from academia and industry to exchange new ideas and results on fundamental theories modeling, RF resource management, and comprehensive applications. We hope to integrate sensing, transmission, and computation into an RF-centric computing system, thereby optimizing the spectrum, energy, accuracy, delay, and computation resources for loT systems.

#### **Topics of Interest**

- Modeling and computing theories for radio frequency (RF) computing
- > Efficient wireless sensing, communication, and protocols for AloT applications
- ➤ WiFi/4G/5G/LoRa/UWB/Acoustic/Quantum sensing and communication
- > Backscatter communication, reconfigurable intelligence surface (RIS), and battery-free design
- > RF-centric energy harvesting and management methods and systems
- Cognitive radio and spectrum sharing in AloT systems
- Resource-efficient machine learning on IoT devices
- Security and reliability for AloT applications
- 6G and next-gen RF communication for AIoT systems
- Al-optimized RF signal processing for IoT networks
- Low-altitude unmanned aerial vehicle sensing and safety
- > RF-enabled AIoT for industrial automation, smart homes, UAVs, autonomous systems, and healthcare
- IoT Standardization and interoperability application in AloT 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