



**ICICCS-2026**

## **International Conference on Intelligent Computing and Communication Systems**

*ORGANISED BY: BIRMINGHAM CITY UNIVERSITY, ENGLAND, UNITED KINGDOM*

**14-16<sup>th</sup> July 2026**

**Conference Website: <https://iciccsconference.com>**

**\*\*\*\*\* CALL FOR PAPERS \*\*\*\*\***

### **SPECIAL SESSION ON**

**Integrating Machine Learning with IoT for Intelligent Edge Analytics**

### **SESSION ORGANIZERS**

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### **SESSION DESCRIPTION**

The rapid proliferation of Internet of Things (IoT) devices has led to an explosion of data generated at the network edge. Traditional cloud-based processing often faces challenges related to latency, bandwidth, and privacy. This special session focuses on the synergy between Machine Learning (ML) and IoT, specifically exploring how intelligent algorithms can be deployed directly on or near edge devices to enable real-time decision-making. We seek original research that addresses the technical hurdles of implementing ML in resource-constrained IoT environments, including model optimization, federated learning, and hardware acceleration. The goal is to highlight innovative frameworks and applications that bridge the gap between "dumb" sensors and autonomous, intelligent systems, aligning with the conference's theme of intelligent computing and communication.

### **RECOMMENDED TOPICS**

Topics of interest for this special session include, but are not limited to:

- Lightweight Machine Learning models for IoT devices
- Federated Learning and distributed AI in IoT networks
- Edge-to-Cloud orchestration for intelligent data processing
- Anomaly detection and security in IoT using ML
- Energy-efficient AI hardware for wearable and industrial IoT
- Real-time predictive maintenance in Smart Factories

- Reinforcement Learning for Autonomous IoT Systems
- Utilizing machine learning to optimize communication latency and reliability for mission-critical IoT applications
- Exploring the deployment of deep learning models on microcontrollers with ultra-low power requirements

### **SUBMISSION PROCEDURE**

Researchers, academicians, and industry practitioners are invited to submit original research papers to this **special session on Integrating Machine Learning with IoT for Intelligent Edge Analytics** by **28 February 2026**.

All submissions must be original and should not be under review or published elsewhere. Papers must be prepared and submitted in accordance with the conference manuscript submission guidelines available at: <https://iciccsconference.com/paper-submission>

All submitted papers will undergo a double-blind peer review process.

### **IMPORTANT NOTE**

While submitting the manuscript, authors must clearly mention the Special Session Title at the top of the first page of the paper (above the paper title) to ensure correct consideration under this special session.