



ICICCS-2026

International Conference on Intelligent Computing and Communication Systems

ORGANISED BY: BIRMINGHAM CITY UNIVERSITY, ENGLAND, UNITED KINGDOM

14-16th July 2026

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

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

SPECIAL SESSION ON

Advanced Security and Privacy Solutions for the Internet of Things (IoT)

SESSION ORGANIZERS

Himanshu Sharma

Assistant Professor

Department of Computer Science and Engineering,
Sharda University, Greater Noida, India.

Email: himanshu.sharma@nitp.ac.in

Anubhava Srivastava

Associate Professor

Department of Computer Science and Engineering, FEST,
Adani University, Ahmedabad, India.

Email: anubhavase@gmail.com

SESSION DESCRIPTION

The rapid proliferation of Internet of Things (IoT) devices across smart homes, healthcare, transportation, and industrial systems has introduced unprecedented connectivity alongside significant security and privacy risks. IoT environments are inherently heterogeneous, resource-constrained, and widely distributed, making them highly vulnerable to cyber-attacks such as botnets, spoofing, intrusion, and data leakage. Traditional security mechanisms are often inadequate for such dynamic ecosystems.

This special session aims to explore advanced security frameworks, intelligent intrusion detection systems, privacy-preserving mechanisms, and resilient architectures tailored for IoT environments. The session encourages interdisciplinary research integrating machine learning, deep learning, blockchain, edge intelligence, and federated learning to secure IoT infrastructure. Contributions addressing real-world deployments, datasets, protocols, and emerging IoT threats aligned with intelligent computing and communication systems are particularly welcome.

RECOMMENDED TOPICS

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

- Intrusion Detection and Prevention Systems for IoT
- Machine Learning and Deep Learning for IoT Security
- Blockchain and Distributed Ledger Technologies in IoT
- Privacy-Preserving Mechanisms and Secure Data Sharing
- Lightweight Cryptography for Resource-Constrained IoT Devices
- Secure IoT Communication Protocols and Architectures
- Edge/Fog-based Security Frameworks for IoT
- Federated Learning and Collaborative Security in IoT
- Threat Intelligence and Anomaly Detection in IoT Networks
- Security in Industrial IoT (IIoT) and Cyber-Physical Systems
- IoT Malware, Botnet Detection, and Attack Analysis
- Secure Smart Healthcare and IoMT Systems

SUBMISSION PROCEDURE

Researchers, academicians, and industry practitioners are invited to submit original research papers to this **special session on *Advanced Security and Privacy Solutions for the Internet of Things (IoT)*** by **05 March 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://icicsconference.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.