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International Conference on Intelligent Computing and Communication Systems

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

SPECIAL SESSION ON
Edge Computing, IoT, and Distributed Intelligence

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SESSION DESCRIPTION
The exponential growth of IoT devices and real-time applications demands intelligent processing at the network edge, transforming traditional cloud-centric architectures. This special session addresses the convergence of edge computing, IoT ecosystems, and distributed artificial intelligence, exploring how computational intelligence can be deployed closer to data sources for reduced latency, enhanced privacy, and improved efficiency.

This session invites cutting-edge research on edge AI algorithms, resource-constrained machine learning, federated learning frameworks, intelligent IoT architectures, edge-cloud collaboration, and real-time distributed analytics. We welcome contributions addressing challenges in edge resource management, energy-efficient edge intelligence, security in distributed IoT systems, and novel applications in smart cities, industrial IoT, autonomous vehicles, and precision agriculture.

The session aligns with ICICCS 2026's mission to bridge intelligent computing and communication systems, providing a platform for researchers and practitioners to share innovations in decentralized intelligence that are shaping the future of pervasive computing.

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

- Edge AI and Machine Learning: Lightweight models, edge inference optimization, neural network compression, and quantization techniques
- Federated Learning and Distributed Training: Privacy-preserving collaborative learning, federated optimization, and edge-based model aggregation
- IoT Architectures and Protocols: Smart sensor networks, fog computing frameworks, edge-cloud orchestration, and intelligent gateway systems
- Real-Time Edge Analytics: Stream processing, event-driven computing, time-series analysis, and predictive maintenance at the edge
- Resource Management in Edge Systems: Task offloading, resource allocation, energy-efficient computing, and workload scheduling
- Edge Security and Privacy: Blockchain-enabled edge systems, secure data aggregation, privacy-preserving edge intelligence, and threat detection
- Industrial IoT and Edge Intelligence: Smart manufacturing, Industry 4.0 applications, digital twins, and edge-based quality control
- Edge Computing Applications: Smart cities, autonomous vehicles, healthcare IoT, precision agriculture, and intelligent transportation systems
- 5G/6G and Edge Integration: Network slicing, mobile edge computing (MEC), ultra-low latency applications, and edge-enabled communication
- Distributed Intelligence Frameworks: Multi-agent systems, swarm intelligence, decentralized decision-making, and cooperative edge computing

SUBMISSION PROCEDURE

Researchers, academicians, and industry practitioners are invited to submit original research papers to this **special session on Edge Computing, IoT, and Distributed Intelligence** by **20 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://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.