

SPECIAL SESSION TITLE:

IoT and AI empowered Smart, Secure and Intelligent Applications

SESSION ORGANIZERS:

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SESSION DESCRIPTION:

Artificial Intelligence (AI) and the Internet of Things (IoT) are revolutionizing industries by enabling intelligent decision-making, real-time monitoring, predictive analytics, and autonomous operations. The convergence of AI, IoT and Business Analytics is transforming traditional enterprises into smart, data-driven organizations capable of improving operational efficiency, customer experience, sustainability and security. Modern businesses generate massive volumes of heterogeneous data from IoT sensors, connected devices, industrial equipment, smart cities, healthcare systems, financial platforms etc. Extracting meaningful insights from these data streams requires advanced AI-driven analytics while ensuring data privacy, cybersecurity, trustworthiness and regulatory compliance. The session encourages innovative solutions that integrate machine learning, deep learning, explainable AI, edge intelligence, blockchain, federated learning, digital twins, and privacy-preserving technologies to address emerging challenges.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- Machine Learning and Deep Learning for IoT
- Explainable AI (XAI) for Business Intelligence
- Reinforcement Learning for Intelligent Decision Making
- Predictive and Prescriptive Business Analytics
- Time-Series Forecasting and Demand Prediction
- Smart Energy and Smart Grid Applications
- Digital Twin-enabled Intelligent Systems
- Federated Learning for Privacy Preservation
- Intrusion Detection and Anomaly Detection
- Fraud Detection using AI
- Financial Analytics and FinTech
- Green AI and Sustainable Computing