

# ICDAM-2025

## 6<sup>th</sup> International Conference on Data Analysis and Management

*Organized by London Metropolitan University, London, UK (Venue Partner)*

*in association with*

*WSG University, Bydgoszcz, Poland, Europe*

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*Portalegre Polytechnic University, Portugal, Europe*

*&*

*BPIT, GGSIPU, Delhi*

*Date: 13<sup>th</sup> - 14<sup>th</sup> June 2025*

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

### SPECIAL SESSION ON

**Data Analytics based on Computational Intelligence for AI enhanced IIOT & AIOT Applications**

### SESSION ORGANIZERS:

**Dr Rashmi Soni**, Associate Professor, Department of Information Science & Engineering & Research Supervisor CSE, Dayananda Sagar Academy of Technology & Management, Bengaluru, Karnataka, India

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### SESSION DESCRIPTION:

This session explores the integration of data analytics with computational intelligence techniques to enhance the performance, decision-making, and scalability of Industrial Internet of Things (IIOT) and Artificial Intelligence of Things (AIOT) applications. As industries increasingly depend on interconnected devices and sensors, the ability to analyse massive amounts of real-time data becomes critical in driving operational efficiency, predictive maintenance, and intelligent automation.

The session will cover advanced computational intelligence methods such as machine learning, deep learning, fuzzy logic, genetic algorithms, and swarm intelligence, and how these techniques can be applied to process and analyse data generated by IIOT and AIOT systems.

The session will provide a platform to share the latest advancements, discuss challenges, and propose innovative solutions in the design, analysis, and deployment of intelligent network systems, with a strong understanding of the value computational intelligence brings to IIOT and AIOT applications, as well as practical insights into implementing these technologies to optimize industrial operations and enhance intelligent connectivity with a focus to gain insights for the above topic.

**Key Dates:-**

**Deadline for Submission: 10 May 2025**

**First Reviews Due: 15 May 2025**

**Manuscript Due: 30 May 2025**

**Final Decision: 06 June 2025**

### **RECOMMENDED TOPICS:**

*Topics of interest include, but are not limited to, the following:*

- Data-Driven AI for Predictive Maintenance in IIoT
- AIoT and Real-Time Data Analytics for Smart Manufacturing
- Optimizing Industrial Operations with AI-Enhanced Data Analytics
- Deep Learning for Fault Detection and Diagnosis in AIoT
- Autonomous Systems in AIoT: Leveraging Data Analytics and Computational Intelligence
- AI-Powered Predictive Analytics for Energy Optimization in AIoT
- Cognitive IoT Systems for Real-Time Decision Making
- Data Analytics for Smart Healthcare in AIoT
- AIoT in Smart Cities: Data-Driven Urban Management
- AI and Blockchain for Secure and Transparent IIoT Data Analytics
- Advanced Sensor Fusion and Data Analytics for AIoT Systems
- Federated Learning for Privacy-Preserving AIoT Applications
- AIoT for Environmental Monitoring and Sustainability
- AIoT for Supply Chain Optimization and Logistics
- AIoT in Automotive Industry: Autonomous Vehicles and Smart Transport
- AI and Machine Vision in AIoT for Quality Control and Inspection
- AIoT for Smart Agriculture: Data Analytics for Precision Farming
- AIoT for Disaster Management: Real-Time Data Analytics for Crisis Response
- AIoT in Retail: Enhancing Customer Experience and Business Insights
- Swarm Intelligence and Multi-Agent Systems for AIoT Applications

### **SUBMISSION PROCEDURE:**

Researchers and practitioners are invited to submit papers for this special theme session on **Data Analytics based on Computational Intelligence for AI enhanced IIOT & AIOT Applications** on or before 10<sup>th</sup> May 2025. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at <https://icdam-conf.com/downloads> . All submitted papers will be reviewed on a double-blind, peer-review basis.

**NOTE:** While submitting a paper in this special session, please specify **Data Analytics based on Computational Intelligence for AI enhanced IIOT & AIOT Applications** at the top (above paper title) of the first page of your paper.

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