









ICDAM-2025 6th 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: 13th - 14th June 2025

SPECIAL SESSION ON COMPUTATIONAL INTELLIGENCE AND DATA ANALYTICS FOR NETWORK APPLICATIONS

SESSION ORGANIZERS:

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SESSION DESCRIPTION:

The rapid evolution of computer networks, fuelled by the proliferation of IoT, 5G, and edge computing, demands innovative approaches to address emerging performance, scalability, and security challenges. Computational intelligence (CI) techniques, including artificial intelligence (AI), machine learning (ML), and data analytics, have emerged as transformative solutions for managing, optimizing, and securing complex network environments.

This session aims to bring together researchers, practitioners, and industry experts to explore the intersection of computational intelligence and data analytics in the context of modern network applications. In addition to addressing general network environments, the session will delve into the critical domain of healthcare networks, where secure, resilient, and high-performing systems are vital for supporting IoT-enabled medical devices, telemedicine, and real-time data exchanges.

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 focus on both general and healthcare-specific applications.

RECOMMENDED TOPICS:

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

- Machine Learning and AI in Network Optimization
- Optimizing QoS (Quality of Service) with Computational Intelligence
- Threat Intelligence and Anomaly Detection Using AI
- Blockchain-Based Secure Network Architectures
- Applications of CI in IoT, 5G, edge, and cloud-based networks.
- Computational Intelligence in IoT Network Management
- Computational Intelligence in Healthcare Networks
- Smart Cities: Network Applications and Data Analytics
- AI and Data Analytics in Networked Cyber-Physical Systems
- Computational Intelligence for Social Network Analysis
- Educational Applications of Data Analytics in Networking
- Ethical and Societal Implications of AI in Networking
- AI-Driven Network Security for Healthcare IoT
- Securing Patient Data Across IoT and Edge Devices
- Smart Hospital Network Management Using AI

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[INSERT SESSION NAME on or before INSERT DATE]**. 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 **[COMPUTATIONAL INTELLIGENCE AND DATA ANALYTICS FOR NETWORK APPLICATIONS**] at the top (above paper title) of the first page of your paper.

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