



ICDAM-2026

7th 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

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SGGW Management Institute, Poland, Portugal

Date: 12th – 14th June 2026

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

SPECIAL SESSION ON

Artificial Intelligence and Machine Learning for Secure, Explainable, and Sustainable Systems

SESSION ORGANIZERS:

Dr Mayur Bhoyar ,Sant Gadge Baba Amravati University,India- (mayubhoyar@ieee.org)

Dr. Weiwei Jang, Beijing University of Posts and Telecommunications ,China - (jww@bupt.edu.cn)

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SESSION DESCRIPTION:

The rapid integration of Artificial Intelligence (AI) and Machine Learning (ML) into real-world systems has raised critical challenges related to security, transparency, robustness, and sustainability. While AI-driven solutions demonstrate remarkable performance, concerns regarding adversarial vulnerability, lack of explainability, ethical risks, and long-term system reliability remain unresolved.

This special session aims to provide a multidisciplinary forum for researchers and practitioners to present novel methodologies, theoretical advances, and applied solutions that enhance the security, interpretability, trustworthiness, and sustainability of AI/ML systems. Emphasis is placed on explainable models, secure learning architectures, trustworthy decision-making, and AI applications supporting sustainable development across domains such as healthcare, energy, agriculture, software systems, and cyber-physical infrastructures.

The session encourages both foundational research and real-world case studies, fostering cross-domain knowledge exchange and future collaborations.

RECOMMENDED TOPICS:

Topics of interest include, but are not limited to:

1. Explainable Artificial Intelligence (XAI) models and frameworks
2. Secure and privacy-preserving machine learning
3. Adversarial machine learning and defense mechanisms
4. AI-based intrusion detection and cybersecurity analytics
5. Trustworthy and ethical AI systems
6. Machine learning for sustainable energy and smart grids
7. AI applications in healthcare, agriculture, and smart cities

8. Robust deep learning for real-world deployments
9. Federated learning and decentralized AI architectures
10. AI governance, fairness, and regulatory compliance

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Artificial Intelligence and Machine Learning for Secure, Explainable, and Sustainable Systems**. 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 **Artificial Intelligence and Machine Learning for Secure, Explainable, and Sustainable Systems** at the top (above paper title) of the first page of your paper.

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