



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

&

Portalegre Polytechnic University, Portugal, Europe

&

SGGW Management Institute, Poland, Portugal

Date: 12th – 14th June 2026

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

SPECIAL SESSION ON

“Big Data Ecosystems: Architectures, Optimization, and Secure Intelligent Applications”

SESSION ORGANIZERS:

1. Dr. Tanvi Chawla, Manav Rachna International Institute of Research and Studies, Faridabad, tanvi.go.chawla@gmail.com, 7062002142
2. Prof. (Dr.) Mamta Dahiya, Manav Rachna International Institute of Research and Studies, Faridabad, malik.mamta@gmail.com, 9996236339
3. Prof. Preeti Rana, Department of Computing, Kingston College, London, UK, Preeti.Rana@stcg.ac.uk, +44 7733801564

EDITORIAL BOARD: (Optional):

SESSION DESCRIPTION:

This special session focuses on emerging trends and innovations in Big Data architectures, frameworks, and scalable analytics. It aims to explore advanced storage solutions, real-time data processing techniques, and performance optimization in large-scale distributed systems. The session will also highlight the integration of machine learning with Big Data for intelligent decision-making. Emphasis will be placed on security, privacy, and reliable data management in modern data ecosystems. Additionally, applications in IoT, healthcare, and smart cities, along with edge and fog computing paradigms, will be discussed. The session seeks to bring together researchers and practitioners to address challenges and future directions in Big Data technologies.

RECOMMENDED TOPICS:

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

- ☑ Big Data applications in healthcare: predictive analytics, medical imaging, and EHR analysis
- ☑ Smart city analytics: traffic prediction, energy optimization, and urban data platforms
- ☑ Performance tuning and benchmarking of Big Data systems
- ☑ Fault tolerance and reliability in distributed Big Data frameworks
- ☑ Data integration and preprocessing techniques for heterogeneous Big Data sources

- Design and optimization of Hadoop MapReduce and Apache Spark pipelines
- Graph analytics on Big Data (GraphX, Neo4j, large-scale network analysis)
- Data quality, cleaning, and anomaly detection in large-scale datasets
- Semantic web and knowledge graphs for Big Data integration

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Big Data Ecosystems: Architectures, Optimization, and Secure Intelligent Applications by 30th March 2026**. 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 **Big Data Ecosystems: Architectures, Optimization, and Secure Intelligent Applications** at the top (above paper title) of the first page of your paper.

* * * * *