



ICDAM-2023



4th International Conference on Data Analysis and Management

*Organized by The Karkonosze University of Applied Sciences, Jelenia Gora, Poland, Europe
in association with*

London Metropolitan University, London, UK, & Politécnico de Portalegre, Portugal, Europe

On 23rd - 24th June 2023

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

SPECIAL SESSION ON

Emerging Paradigms for Convergence of Sensor Data Analysis and Fusion with Deep Learning

SESSION ORGANIZERS:

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EDITORIAL BOARD: (Optional)

[Name, University or Organization, Country, e-mail]

SESSION DESCRIPTION:

The proposed special session delivers an insightful and practical overview of the applications of deep learning techniques to the analysis of sensor data. The dominant role of sensors and deep learning provides a solution to a wide variety of real-life problems. Such applications include smart city, smart healthcare systems, smart building, smart transport and smart environment. Further, it elaborates on the necessity of data fusion and various data fusion methods such as direct fusion, associated feature extraction, and identity declaration data fusion. However, the real-time IoT sensor data include several challenges, such as a deluge of unclean sensor data and a high resource-consumption

cost. The session focus on collecting cutting-edge resources into a single collection designed to enlighten on topics as varied as recent techniques for fault detection and classification in sensor data, the application of deep learning to Internet of Things sensors, and a case study on high-performance computer gathering and processing of sensor data. The editors would curate a distinguished group of perceptive and concise papers that show the potential of deep learning as a powerful tool for solving complex modelling problems across a broad range of applications involving sensor data analysis and fusion

RECOMMENDED TOPICS:

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

- **Novel Techniques for data imputation and data aggregation**
- **IoT Sensor Data Processing, Fusion, and Analysis Techniques**
- **Deep learning enabled solutions for Sensor Data Analysis and Management**
- **Optimal routing and data aggregation for maximizing lifetime of wireless sensor networks**
- **Improving quality of data: IoT data aggregation using device to device communications**
- **Development of Deep learning based distributed data fusion platform**
- **Role of deep learning n green wireless sensor network**
- **Techniques for solving complex problems n IIoT**
- **Deep learning based solutions for sensor data communication between edge devices**
- **Novel solutions for precision medicine using ubiquitous sensors**

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Emerging Paradigms for Convergence of Sensor Data Analysis and Fusion with Deep Learning on or before 31.01.2023**. 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 **Emerging Paradigms for Convergence of Sensor Data Analysis and Fusion with Deep Learning** at the top (above paper title) of the first page of your paper.

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