



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

**Technological Advancements in Artificial Intelligence and Blockchain for Secure IoT Applications
(SS_TAAIBI)**

SESSION ORGANIZERS:

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SESSION DESCRIPTION:

Today's world is changing with the adoption of Internet of Things (IoT). IoT is helping in prominently capturing a tremendous amount of data from multiple sources. However, wrapping around the multitude of data coming from countless of IoT devices, makes it complex to collect, process, and analyze the data. Realizing the future and full potential of IoT devices will require an investment in new technologies. The convergence of Artificial Intelligence (AI) for IoT can redefine the way industries, business, and economies functions. While IoT deals with devices interacting using the internet, AI makes the devices learn from their data and experience.

The traditional client-server architecture yields many significant limitations to meet the security demands of IoT, such as relying on the trusted server, incapability for time-sensitive applications, and high data maintenance cost. Blockchains, like Bitcoin and Ethereum, have achieved great success beyond our expectations. Blockchain is a decentralized platform in which each node stores a copy of the whole ledger. The blockchain is perceived as a promising technique

for scaling IoT security. Thus, this special session will mainly focus on the challenges of blockchain and AI techniques for IoT.

The special session on Technological Advancements in Artificial Intelligence and Blockchain for Secure IoT Applications aims to bring together leading academicians, scientists, researchers and scholars to exchange and share their experiences, research results on all aspects of smart and secure IoT environment. Researchers will present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered in AI and Blockchain for IoT. This special session is to encourage and assist the professionals engaged in the above fields to maintain the integrity and competence of the profession, foster a sense of partnership amongst the international professionals.

RECOMMENDED TOPICS:

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

- AI for IoT-based Wireless sensor networks
- AI and IoT in the Automotive Industry
- Applications of AI and IoT in Smart Home Security
- AI and IoT in Business: Research and Innovation to Market Deployment
- IoT in Monitoring & Improving Manufacturing Processes
- Deep learning and Machine Learning Approaches for disease prediction
- Intelligent Fault Detection and Diagnosis
- Efficient energy management for the IoT in smart cities
- M2M (Machine-To-Machine) Wireless Sensor Systems
- Intelligent Agents and Autonomous Robots in IoT Security
- Modelling and Simulation for Industrial IoT
- AI for energy efficient cloud operations
- Secure governance and cyber policies
- Blockchain architecture for decentralization in IoT security
- Decentralized consensus for IoT security
- Smart contract for IoT security
- Blockchain-based security protocol for IoT security
- Blockchain for secure edge and fog computing security
- Blockchain for IoT-enabled critical verticals and sectors (energy, transport, health, etc.)
- Blockchain for Industrial Internet of Things (IIoT) security
- Blockchain for Cyber-Physical Systems (CPS) security

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on “*Technological Advancements in Artificial Intelligence and Blockchain for Secure IoT Applications*” on or before [15/03/2023]. 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 “*Technological Advancements in Artificial Intelligence and Blockchain for Secure IoT Applications*” at the top (above paper title) of the first page of your paper.

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