



ICDMIS 2024

International Conference on Data Mining and Information Security (ICDMIS 2024)

Organized by
Eminent College of Management and Technology (ECMT)

Technically Sponsored by:
Scientific Innovation Research Group (SIRG), Egypt
Scientific Research Group in Egypt (SRGE), Egypt
SETIT Research Lab. Sfax University –Tunisia
CI2S lab, Argentina

Date: 7th – 8th October 2024 (Hybrid Mode)

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

SPECIAL SESSION

Advancements in AI: Transforming Biomedical Imaging, Communications, and Agriculture

SESSION ORGANIZERS:



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SESSION DESCRIPTION:

This session offers a comprehensive investigation into the latest technological advancements transforming the healthcare industry. It will cover the application of Computer-Aided Design in drug discovery, precision medicine, and early disease detection, while also exploring the evolution of medical devices with a focus on data management, patient safety, and cost-efficiency.

Further attention will be given to the use of artificial intelligence in healthcare, with an emphasis on machine learning methods for image analysis. Key topics include feature selection, class imbalance challenges, model robustness, scalability, and the management of distributed and heterogeneous data sources. The session will also delve into data integration from diverse sources in biomedical and healthcare contexts.

With the growing prominence of telemedicine, the session will discuss cloud computing infrastructures and the Internet of Medical Things (IoMT), particularly regarding cybersecurity and the secure handling of electronic health records.

Additionally, the session will introduce Computational Fuzzy Intelligence for advanced biomedical data analysis, presenting innovative approaches to managing uncertainty and complexity in data interpretation. Through this session, attendees will gain valuable insights into the intersection of technology and healthcare, enhancing their understanding of current and future trends in the field.

RECOMMENDED TOPICS:

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

1. AI-Driven Drug Discovery
2. Precision Medicine and AI
3. Medical Device Innovation and Data Management
4. Machine Learning for Medical Imaging
5. Feature Selection and Class Imbalance in AI
6. Scalability and Distributed Data Management
7. Internet of Medical Things (IoMT)
8. Cybersecurity in Healthcare
9. Computational Fuzzy Intelligence for Biomedical Data Analysis
10. Cloud Computing in Telemedicine
11. Ethical and Legal Implications of AI in Healthcare
12. Emerging Trends in Health Tech
13. Data Fusion and Interoperability

PUBLICATION AND SUBMISSION PROCEDURE

The conference aims at carrying out double-blind review process. The papers submitted by the authors will be assessed based on their technical suitability, the scope of work, plagiarism, novelty, clarity, completeness, relevance, significance, and research contribution. The conference proceedings will be published in **Springer LNNS Series (Scopus)**.

Submission Link: <https://cmt3.research.microsoft.com/ICDMIS2024>

Submission Deadline: 30th June, 2024

NOTE: While submitting the paper in this special session, please specify [Advancements in AI: Transforming Biomedical Imaging, Communications, and Agriculture] at the top (above paper title) of the first page of your paper.

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