


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

Data analytics and computational intelligence in mental health care

SESSION ORGANIZERS:



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SESSION DESCRIPTION:

The Session on “Data Analytics and computational intelligence in mental health care” aims to explore and discuss cutting-edge advancements in the field of mental health care. It includes field like data analytics in mental health care systems, computational intelligence in mental health care systems, health care record analysis, self-supervised learning, and multimodal data integration for mental healthcare. The session aims to foster the knowledge exchange, and to contribute the development of data driven, innovative and ethical applications in the field of mental health care. The scope of the session encompasses in-depth exploration of e-healthcare systems using self-supervised learning, machine learning, deep learning, and statistical methods and use of data analysis techniques for the risk detection, early detection and prevention of mental health. This session provides the opportunities to explore and integrate the computational technologies like swarm intelligence, genetic algorithms, fuzzy logic, digital twin, game theory, virtual reality and AI systems in mental health care systems, and human-centric AI applications. Participants will explore recent research, challenges, and future perspectives in these interconnected fields using various computational methods. This session will also facilitate interdisciplinary discussions and collaboration among participants from various domains like computing and computer science, information technology, medicine, psychology, and public health.

RECOMMENDED TOPICS:

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

- E-Mental Health Care Systems
- Innovative data analytics applications in electronic mental health care systems.
- Integration of data-driven techniques mental health services.
- Data analytics for early detection, personalized treatment, and outcome monitoring in e-mental health.
- Handling of complex and unlabelled healthcare datasets.
- Neuromorphic computing principles and architectures in mental health and healthcare data analytics.
- AI-powered tools and technologies in the health care domain.
- Emerging challenges, opportunities, and future research directions in healthcare.
- Integration and analysis of diverse data sources like electronic health records, mobile sensor data, social media, and patient-generated content
- Data fusion and integration techniques to facilitate better mental health data.
- Different data modalities (e.g., text, images, physiological signals)
- Machine/Deep learning for neuromorphic AI
- Self-supervised learning for video motion prediction
- Self-supervised learning for medical images classification
- Artificial Intelligence and Blockchain in Digital Health Record Systems.
- Knowledge discovery in medicine
- AI and IoT in Smart Healthcare System
- AR/VR/MR in Healthcare
- Clinical Support System using Explainable AI

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 [Data analytics and computational intelligence in mental health care] at the top (above paper title) of the first page of your paper.

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