



**International Conference on Innovations in Data Analytics
(ICIDA 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
CI2S lab, Argentina

Date: 18th – 19th December, 2024 (Hybrid Mode)

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

SPECIAL SESSION

Integrating Computational Intelligence and Data Analysis in Mental Health Care

SESSION ORGANIZERS:



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SESSION DESCRIPTION:

The Session on “Integrating Computational Intelligence and Data Analysis 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, data mining and machine learning 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 scope of the session encompasses in-depth exploration of electronics healthcare systems using recent tolls, technologies and methods for the risk detection, early detection and prevention of mental health. 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:

- Exploring Machine Learning, NLP, and Data Mining for Accurate and Efficient Mental Health Diagnosis and Assessment
- Machine Learning to Predict Mental Health Risks and Enable Proactive Interventions.
- Evaluating the Effectiveness of Virtual Therapists, Chatbots, Mobile Apps, and AI-Driven VR Platforms in Delivering Accessible and Personalized CBT.
- Data analytics for early detection, personalized treatment, and outcome monitoring in e-mental health.
- Exploring AI Techniques for Identifying Novel Biomarkers, Predicting Treatment Outcomes, and Enhancing Mental Health Disorder Understanding.
- Large-Scale Data Analysis, Including EHRs, Social Media, and Wearables for Mental Health analysis.
- Emerging challenges, opportunities, and future research directions in healthcare.
- Leveraging AI, Blockchain, IoT, and AR/VR/MR in Smart Healthcare Systems and Digital Health Records, Including Explainable AI for Clinical Support

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)**.

Website: <http://icida.ikrf.in>

Submission Link: <https://cmt3.research.microsoft.com/ICIDA2024>

Submission Deadline: **30th September, 2024**

NOTE: While submitting the paper in this special session, please specify [Integrating Computational Intelligence and Data Analysis in Mental Health Care] at the top (above paper title) of the first page of your paper.

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