



ICANTCI-2024

1st International Conference on Advanced Network Technologies and Computational Intelligence

Organized by

Department of Computer Applications, Chitkara University, Punjab, India in association with City University, Malaysia and University of Wollongong in Dubai, UAE

on

April 5-6, 2024

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

SPECIAL SESSION ON

Explainable AI in Healthcare 4.0: Applications, Challenges and Research Perspectives

SESSION ORGANIZERS:

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SESSION DESCRIPTION:

Explainable AI in Healthcare 4.0 is the use of cutting-edge artificial intelligence (AI) methods to medical treatment in the context of the fourth industrial revolution. Healthcare 4.0 is an industry-wide transformation marked by the widespread adoption of digital tools, data analytics, and artificial intelligence with the goal of enhancing healthcare delivery in terms of timeliness, precision, and convenience. The requirement for openness, interpretability, and trustworthiness in AI-driven choices, especially when they affect patients' health and wellbeing, makes explainable AI in Healthcare 4.0 very important.

XAI can help researchers make sense of large amounts of medical data, opening the door to the discovery of novel therapies and disease patterns. Healthcare 4.0 frequently employs AI models that are programmed

to improve with use. By explaining why they update or revise their recommendations, medical experts are better able to evaluate and verify the accuracy of the modifications.

RECOMMENDED TOPICS:

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

- Interpretable Machine Learning Models
- Model Explainability Techniques
- Human-AI Collaboration
- Data Quality and Preprocessing
- Clinical Guidelines Integration
- Explainable Imaging and Diagnosis
- Patient Engagement and Shared Decision-Making
- AI Bias Mitigation
- AI in Public Health
- Cybersecurity in Healthcare AI

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on [**Generative AI in Engineering and Technology: Innovations and Applications**] *on or before* [November 25, 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://ca.chitkara.edu.in/icantci2024/#>. All submitted papers will be reviewed on a double-blind, peer-review basis.

NOTE: While submitting the paper in this special session, please specify [**Explainable AI in Healthcare 4.0: Applications, Challenges and Research Perspectives**] at the top (above paper title) of the first page of your paper as a header.

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