

ICIICE 2026

Dubai

International Conference on Integrated Intelligence and Cognitive Engineering



18-19 April, 2026



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CALL FOR PAPERS - WORKSHOP

WORKSHOP (HYBRID)

Workshop Chair

Dr. Athar Waseem, IIU, Pakistan

AI-Enabled Healthcare Analytics for Resource-Constrained Environments

Theme

Bridging Machine Learning and Clinical Decision Support
for Scalable and Human-Centered Healthcare Solutions

This workshop invites original contributions focused on machine learning-driven healthcare analytics, specifically designed for resource-limited and compute-constrained environments. The workshop emphasizes practical models for clinical decision support, diagnostic intelligence, and healthcare data analytics, ensuring solutions remain explainable, scalable, and human-centered, in harmony with the broader objectives of the conference.

The workshop aims to explore advances that complement existing tracks, such as:

- Lightweight ML/CNN models for clinical diagnostics
- Interpretable healthcare predictions using probabilistic and kernel-based learning
- AI pipelines for tabular EHR and biomedical datasets
- Edge-friendly diagnostic intelligence
- Ethical and trustworthy AI for healthcare decision support

We welcome original papers, including but not limited to the following topics of interest:

- Lightweight CNN for medical diagnosis
- Electronic Health Record Analysis using probabilistic classifiers
- Kernel-Based Medical Learning approaches for non-separable biomedical data
- Feature fusion and multi-scale ML for clinical decision systems
- Edge-deployable AI pipelines for EHR and biomedical datasets
- Trustworthy and ethical AI for clinical diagnostics

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