

SPECIAL SESSION – SS01

**INTELLIGENT HEALTH INFORMATICS:  
AI-Driven Healthcare Analytics, Medical Imaging, and Smart Healthcare Systems**

**Special Session Chair:**



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**About the Special Session :**

Healthcare is undergoing a transformative revolution through Artificial Intelligence (AI), Machine Learning (ML), Deep Learning (DL), Internet of Medical Things (IoMT), Explainable AI (XAI), Big Data Analytics, and Digital Health Technologies. Intelligent Health Informatics is emerging as a multidisciplinary field that enhances disease diagnosis, patient monitoring, personalized treatment, healthcare decision-making, and remote healthcare delivery.

This special session provides a platform for researchers, academicians, healthcare professionals, industry experts, and practitioners to present innovative methodologies, applications, and emerging trends in AI-enabled healthcare systems.

**Topics of Interest:**

- AI and Machine Learning for Healthcare
- Disease Prediction and Clinical Decision Support
- Explainable AI (XAI) in Healthcare
- Medical Image Analysis and Computer Vision
- MRI, CT, PET and Ultrasound Imaging
- Brain Tumor and Stroke Detection
- Biomedical Signal Processing (ECG, EEG)
- Wearable Biosensors and Health Monitoring
- Internet of Medical Things (IoMT)
- Telemedicine and Remote Patient Monitoring
- Smart Hospitals and Connected Healthcare
- Healthcare Digital Twins

- Electronic Health Records Analytics
- Predictive Healthcare Analytics
- Personalized and Precision Medicine
- Blockchain for Healthcare Data Management
- Privacy-Preserving Machine Learning
- Ethical and Responsible AI in Healthcare

**Target Audience :** Researchers , Academicians , Clinicians , Biomedical Engineers, Data Scientists , AI Researchers, Industry Professionals, Research Scholars , Postgraduate Students

**Publication :** All accepted and registered papers will be submitted for publication in the IEEE Xplore® Digital Library, subject to meeting IEEE quality requirements (Scopus Indexed).

The conference proceedings will be indexed in Scopus through IEEE Xplore.

**Paper Submission:**

<https://icesic.com/call-for-papers>

**Conference Website:**

<https://icesic.com>