



International Conference on AI-Driven Smart Healthcare for Society 5.0 (AdSoc5.0)

<https://adsoc5.in/>



IEEE Conference
Record No. : 64992

Technically Co-sponsored by IEEE Kolkata Section



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About the conference:

Organized by: Department of Computer Science & Engineering and Department of Electrical Engineering, (NBA Accredited), Guru Nanak Institute of Technology, Kolkata, India (NAAC 'A+' Accredited | Under MAKAUT, WB)

Technically Co-sponsored by: IEEE Kolkata Section

Conference Highlights: Venue: Guru Nanak Institute of Technology, Kolkata, India & **Dates:** February 14-15, 2025

About ADSoc5.0: At ADSoc5.0, leaders in AI and healthcare will explore groundbreaking technologies and strategies for advancing smart healthcare. This conference aims to foster collaborations, showcase the latest innovations, and discuss practical solutions to real-world healthcare challenges. Engage with experts, share insights, and be part of the movement towards a smarter, more responsive healthcare system.

Accepted Contributions: Accepted and presented papers will be uploaded for possible inclusion in IEEE XPLORE, pending adherence to IEEE's quality and scope requirements.

Call for Papers: Submission details and guidelines available on our conference website.

Ready to Submit Your Publication? It's just a matter of one click. Visit our website for easy submission and conference registration details. Prospective authors are requested to submit their manuscript in PDF not exceeding 6 pages in IEEE Conference Template. Please refer to the Author's guidelines: <https://adsoc5.in/authors-guideline/>

CALL FOR PAPERS

Themes and Topics

AI-Driven Smart Healthcare for Society 5.0 encompasses various facets of healthcare enhanced by artificial intelligence to create a highly integrated and intelligent healthcare system. Here are five potential conference tracks for such a topic:

- AI in Clinical Decision Support Systems:**
Machine Learning Algorithms for Diagnosis, Natural Language Processing for Electronic Health Records, Integration of AI with Medical Imaging, Real-time Data Analytics and Predictive Modeling, Design of Hardware Accelerators for AI Algorithms, Embedded Systems for Real-time Clinical Data Processing, Power Management in AI-Driven Medical Devices.
- Personalized Medicine and Genomics:**
Bioinformatics Algorithms for Genomic Data Analysis, AI-Driven Drug Discovery and Design, Genomic Data Security and Privacy, Computational Modeling of Biological Pathways, Design of Low-Noise Amplifiers for Genetic Sequencing Equipment, Microelectronic Devices for Gene Editing and Therapy, Circuit Design for Bio-Signal Acquisition in Genomics.
- Telemedicine and Remote Monitoring:**
Wireless Sensor Networks for Patient Monitoring, AI Algorithms for Remote Diagnosis, Telehealth Infrastructure and Communication Protocols, Energy-Efficient Telemedicine Devices, RF Communication Systems for Remote Patient Monitoring, Low-Power Wireless Transceivers for Wearable Health Monitors, Electromagnetic Compatibility (EMC) in Telemedicine Devices.
- Healthcare Sensors and Sustainable Smart Devices:**
Development of Biocompatible Sensors, Energy Harvesting in Wearable Devices, Data Fusion Algorithms for Multisensor Systems, IoT Integration for Smart Healthcare Devices, Development of MEMS-Based Healthcare Sensors, Analog Front-End Design for Biomedical Signal Acquisition, Wireless Power Transfer for Implantable Medical Devices.
- Population Health Management and Public Health:**
Big Data Analytics for Public Health Surveillance, AI-Driven Policy Simulation and Optimization, Predictive Modeling for Disease Outbreaks, Cybersecurity in Public Health Information Systems, Distributed Sensor Networks for Public Health Monitoring, Low-Power Electronics for Environmental Health Monitoring, IoT-Enabled Infrastructure for Smart Cities and Public Health.

Important Dates:

Full paper submission :
15th October, 2024
Notification of acceptance :
30th November, 2024
Final paper submission :
30th December, 2024

Registration Fees

Participants	Academic	Industry
National Participants (Non-IEEE Member)	6500 INR	7000 INR
National Participants (IEEE Member)	6000 INR	6500 INR
International Participants	100 USD	125 USD

Submit Papers

Please submit your papers using the following link:
<https://cmt3.research.microsoft.com/ADSoc2025>



Alternatively, you can scan the provided QR code to submit your papers.

If you have any inquiries or need further assistance, you can contact the organizers at - adsoc5.0@gnit.ac.in