



Committee

Chief Patron

Sardar Taranjit Singh, Managing Director, JIS Group

Patron

Sardar Haranjit Singh, Joint MD, JIS Group
Sardar Amrik Singh, Deputy MD, JIS Group
Ms. Manpreet Kaur, CEO, JIS Group
Sardar Simarpreet Singh, Director, JIS Group
Ms. Jaspreet Kaur, Director, JIS Group
Sardar Harjot Singh, Director, JIS Group
Sardar Amanjot Singh, Director, JIS Group
Sardar Anmol Singh Narula, Director, JIS Group

Advisory Committee

Prof. Suparna Kar Chowdhury, Chairperson, IEEE Kolkata Section
Dr. Atanu Kundu, Vice-Chair, IEEE Kolkata Section
Dr. Tridibesh Nag, Secretary, IEEE Kolkata Section
Prof. Mita Nasipuri, Ex-Professor, Jadavpur University
Prof. Atal Chaudhuri, Ex-Professor, Jadavpur University
Prof. Jyotsna Kumar Mondal, Professor, University of Kalyani
Prof. Amlan Chakrabarti, IEEE Senior Member, Director, AKCSIT, Professor, University of Calcutta
Prof. Ram Sarkar, Vice-Chairperson, IEEE Computer Chapter, Kolkata Section, Professor, Jadavpur University
Prof. Nabendu Chaki, Senior Member IEEE, Professor, University of Calcutta
Prof. Sarmistha Neogy, Senior Member IEEE, Professor, Jadavpur University
Prof. Nibaran Das, Chair, IEEE Computer Society, IEEE Kolkata Section, Professor, Jadavpur University

Conference Chair

Prof. Swarup Kr. Mitra, Principal, GNIT

Conference Co-Chair

Dr. Suman Bhattacharya, Dept. of CSE, GNIT
Dr. Barnali Kundu, Dept. of EE, GNIT

Organizing Chair

Dr. Mahamuda Sultana, Dept. of CSE, GNIT

Technical Program Chair

Dr. Suman Bhattacharya, Dept. of CSE, GNIT
Prof. Debashis De, IEEE Senior Member, MAKAUT, Dept. of CSE

Publication Chair

Dr. Mahamuda Sultana, Dept. of CSE, GNIT
Prof. Angsuman Sarkar, Ex-Chair, IEEE EDS Kolkata Chapter, Kalyani Government Engineering College

Finance Chair

Dr. Adhish Chakraborty, Registrar (Acting), GNIT
Mr. Kallol Pal, Accountant, GNIT

Finance Co-Chair

Dr. Sayan Nath, Assistant Professor, Dept. of CSE, GNIT
Mr. Susovan Dutta, Dept. of EE, GNIT

Publicity Chair

Dr. Debasree Saha, Dept. of EE, GNIT
Dr. Ananjan Maiti, Dept. of CSE, GNIT
Ms. Nilanjana Adhikari, Dept. of CSE, GNIT

Registration Chair

Dr. Srabani Biswas, Dept. of CSE, GNIT

Registration Co-Chair

Dr. Suman Ghosh, Dept. of EE, GNIT
Ms. Paramita Sarkar, Dept. of CSE, GNIT

Hospitality Chair

Dr. Ipsita Saha, Dept. of CSE, GNIT

Hospitality Co-Chair

Dr. Aveek Chattopadhyaya, Dept. of EE, GNIT
Ms. Sayani Chandra, Dept. of CSE, GNIT
Ms. Subhra Sen, Dept. of EE, GNIT

Web Design and Graphics Chair

Mr. Sourish Mitra, Dept. of CSE, GNIT

Web Design and Graphics Co-Chair

Mr. Moloy Dhar, Dept. of CSE, GNIT
Mr. Shyamal Kumar Roy, Dept. of EE, GNIT

About the conference:

CALL FOR PAPERS

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: Mode : Hybrid, 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: All accepted papers will be subject to IEEE standard review processes and conference publishing guidelines. Only papers that are both accepted and presented will be published in the ADSOC5.0 proceedings and submitted for inclusion in IEEE Xplore. IEEE reserves the right to exclude a submission from distribution after the conference, including exclusion from IEEE Xplore, if the submission does not meet IEEE's standards for scope and/or quality.

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/>

Themes and Topics

- 1 **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.
- 2 **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.
- 3 **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.
- 4 **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.
- 5 **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.

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 |

Important Dates:

Notification of acceptance : **January 12, 2025.**
Camera-Ready Submission : **January 25, 2025.**
Author Registration Starts : **January 15, 2025.**
Author Registration Ends: **January 22, 2025.**
IEEE PDF eXpress and the Electronic IEEE Copyright Form: **January 28, 2025.**

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

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.