



## 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

- 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 date  
extended upto : **21st November,2024**  
(Hard Deadline)  
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](mailto:adsoc5.0@gnit.ac.in)