Second International Symposium on Artificial Intelligence and Internet of Things (AIIoT 2025)
Hotel Hindusthan International (HHI), Kolkata, India, December 22-24, 2025

Program Schedule

Start	End	Duration	22nd Dec 2025 (Monday)
08:00	09:30	01:30	**Registration**
09:30	10:30	1:00	**Inauguration** GC, Director, BOG, Chief Guest, TPC (1), OC (1)
10:30	11:00	0:30	**Keynote-1** **Dr. Prith Banerjee , SVP, Innovation SYNOPSYS, USA** **Title: Use of AI/ML in Engineering Simulation and Electronic Design Automation** Session Chair: Dipankar Choudhury, Lead Chief Technologist, Synopsys Inc.
11:00	11:30	0:30	**Keynote-2** **Prof. Debdeep Mukhopadhyay, IIT KGP** **Title:Dr Jekyll and Mr Hyde: Side Channels of Machine Learning Architectures for Attacks and Defences** Session Chair: Trinanjan Chatterjee, Ex-Group Head, Synopsys and Konfer, India Head
11:30	12:00	00:30	**Tea Break**
12:00	12:30	0:30	**Keynote-3** **Prof. Ansuman Banerjee, ISI Kolkata** **Title: Proactive MicroService placement and migration for edge computing** Session Chair: Prof. Swarup Bhunia, UFL, USA
12:30	13:00	0:30	**Keynote-4** **Prof. Soumyajit Dey, IIT Kharagpur** **Title: Safe AI for Cyber Physical System** Session Chair: Prof. Jürgen Becker, KIT Germany
13:00	14:00	01:00	**Lunch Break**
14:00	14:30	0:30	**Keynote-5** **Prof. Kaushik Roy** **Title: Rethinking Computing with Bio-Inspired** Session Chair: Prof. Bhargab B. Bhattacharya, ISI Kolkata
14:30	15:00	0:30	**Keynote-6** **Prof. Niloy Ganguly, Indian Institute of Technology Kharagpur** Session Chair: Prof. Debesh Das, Jadavpur University
15:00	15:45	0:45	**Tea Break**

Technical Paper Session

Start	End	Duration	Session –A1 ML for Biomedical and Bioinformatics Session Chair: Dr. Dipanjyoti Paul, IIEST	Session –B1 AI & ML in IoT Applications Session Chair: Dr. Basabdatta Palit, IIEST	Session –C1 Computational Intelligence in IoT Applications Session Chair: Dr. Kamalika Bhattacharjee, IIEST
15:45	16:00	0:15	**Paper ID: 94** **Title:** Brain Tumor Classification Using Attention-Based Medical Image Segmentation and Transfer Learning **Authors:** Anurag Ghosh, Suchana Hazra	**Paper ID: 144** **Title:** Securing Social IoT Ecosystems with Adversarily Improved Convolutional Intrusion Detection **Authors:** Swarup Sarakar, Dilip Kumar Maity, Surajit Kumar Roy and Chandan Giri	**Paper ID: 228** **Title:** Hybrid Quantum-Classical Strategies for QAOA on the Traveling Salesman Problem: MST Reduction and Pauli Twirling **Authors:** Hruday Divakaran, Gayathri Mani
16:00	16:15	00:15	**Paper ID: 172** **Title:** Vital CareSync: An Edge-AI Powered Healthcare Monitoring System for Multi-Parameter Analysis, Ventilation Control, and Power-Failure Safety **Authors:** Riddhiraj Chanda, Subhajit Das	**Paper ID: 146** **Title:** Fault-Tolerant Networking Architecture for Intelligent Smart Street Lighting Systems **Authors:** Saranya Mukherjee, Sankar Mukherjee	**Paper ID: 280** **Title:** Comparative Study of 2 and 4 STBCs based Quantum MIMO Radar Systems **Authors:** Preksha Dey, Ankita Pramanik, Saikat Chandra Bakshi
16:15	16:30	00:15	**Paper ID: 282** **Title:**A Smart Earring Platform for Continuous Multi-Parameter Physiological Monitoring: Design, Validation, and Clinical Applications **Authors:** Avinash Kshirsagar, Shailesh Parab, S. R. Kumbhar	**Paper ID: 197** **Title:** Resource Efficient FPGA-based Unified Convolution-Deconvolution Accelerator Engine **Authors:** Sayantan Dutta ,Indrajit Chakrabarti ,Hafizur Rahaman	**Paper ID: 80** **Title:** Integration of Lignin-Based Memristive Synapses in Optimized Neural Networks for CIFAR-10 Image Classification **Authors:** Subham Dey, Arindam Mandal, Abhijit Mallik
16:30	16:45	00:15	**Paper ID: 216** **Title:** Neurological Disorder Detection using Machine Learning and Deep Learning Methods **Authors:** Anuj Dubey, Souradeep Bagchi, Aditya Arya, Unmish Roy, Sabyasachi Sen, Rinky Sha	**Paper ID: 157** **Title:** Energy Efficient Data Routing Scheme for Wireless Sensor Networks Based on Harris Hawks Algorithm **Authors:** Saurabh Srivastava, Prasenjit Chanak , Penumaka Hurishikesh	**Paper ID: 93** **Title:** Linear-Time Fusion of Inferencing Pipelines for Low-Latency Scheduling on Edge GPUs **Authors:** Shreyasee Patra, Haridas Hassan Venkatesh, Soumyajit Dey
16:45	17:00	00:15	**Paper ID: 206** **Title:** Self-Supervised Graph Convolutional Neural Networks for EEG-Based Depression Detection **Authors:** Anik Halder, Chiranji Lal Chowdhary	**Paper ID: 267** **Title:** Cobots and Generative AI for Real-Time Crop Monitoring and Yield Optimisation **Authors:** Vignesh Vane, Dr. Mansi Subhedar	**Paper ID: 241** **Title:**EntroGen: A true random number generator using noise from unitary transformation as entropy source **Authors:** Sawan Bhattacharyya, Aishik, Amlan Chakrabarti