

TECHNICAL PROGRAM SCHEDULE

Wednesday, POSTER SESSION (3 rd JUNE 2026), Day 1		
Session #1	Conference Centre Lobby	5:15 PM – 6:15 PM
Paper ID	Paper Title	Authors
80	An Unified Rotational Framework Based Joint-Diagonalized Naive Bayes Algorithm of Machine Learning	Kumari Nidhi Lal (VNIT Nagpur)
136	Enabling High Sensitivity in FET based Hydrogen Sensor through Physical Parameter Modulation: A Theoretical Insight	Julaiba T Mazumder (Assam Skill University, Assam); Abhishek Verma (IIT Guwahati); Tushar Shivam (IIT Guwahati); Nazmul H Naime (University of Dhaka, Dhaka); Afsana A Akhi (University of Dhaka, Dhaka); Mainul Hossain (University of Dhaka, Dhaka); Jency Rubia (IIT Guwahati); Ravindra Jha (IIT Guwahati)*
156	MCB-SwinUNet: Attention-Gated Skip Fusion Framework for Multi-Crop Leaf Lesion Segmentation with Cross-Domain Generalization and Boundary Accuracy	Thoufeeque Ansari (IIITKottayam); Suchithra M S (IIITKottayam)
179	Explainable Machine Learning for Parkinson's Disease Detection from Speech Signals: A Comparative Evaluation of Classical Models	Sachin Upadhye (Ramdeobaba University , Nagpur); Achal Rokade (Ramdeobaba University , Nagpur)
212	Federated Learning in the Presence of Non-IID Data: A Systematic Survey	BIJIT BARMAN (Department of Information Technology Gauhati University); Satyajit Sarmah (Department of Information Technology Gauhati University)
226	A Human Centric Risk-Based Security Alert Prioritization Using Splunk	Zeba Shamsi (NIT); Zeba Shamsi (Lendi Institute of Engineering and Technology)
238	Modeling and Side-Channel Attack Resistant VGSOT-MTJ PUF Using ML and DL Analysis	Avani Gajallewar (Dr. SPM IIIT, Naya Raipur); Krishna Agrawal (Dr. SPM IIIT, Naya Raipur); Arpit Kumar Sinha (Dr. SPM IIIT, Naya Raipur); Deepika Gupta (Dr. SPM IIIT, Naya Raipur)
240	Automated Evaluation and Visualization of Rehabilitation Exercises	Vandana Ladwani (PES); Pranav Maiya (PESU); Tharun Reddy (PESU); Thomas Zacharia (PESU); Vedanth Sameer Rao (PESU)
263	Benchmarking Input Strategies and Hybrid Loss Functions for Multi-Sequence Abdominal MRI Segmentation	Nikhileswara Rao Sulake (Rajiv Gandhi University of Knowledge Technologies, Nuzvid); Divya Katam (Rajiv Gandhi University of Knowledge Technologies, Nuzvid); Venkata Ganesh Sirela (Rajiv Gandhi University of Knowledge Technologies, Nuzvid); Sivalal Kethavath (Rajiv Gandhi University of Knowledge Technologies, Nuzvid)
268	Biomechanically-Informed Design of Prosthetic Sockets for Transfemoral	Arnob Dutta (UMR 8520: CNRS, Centrale Lille, Junia, Univ.

	Amputees Using Anatomical Relational Parameters and Finite Element Analysis	Polytechnique Hauts-de-France, IEMN - Institute of Electronics, Microelectronics, and Nanotechnology); Arnab Sarmah (IIT Guwahati); Nelson Muthu (IIT Palakkad); Subramani Kanagaraj (IIT Guwahati)
275	Feasibility and Performance Analysis of Kyber-Based Proxy Re-Encryption for Constrained Edge-Assisted IoT Systems	Pustak Pathak (Shiv Nadar Institution of Eminence Deemed to be University); Karnish Tapadar (Shiv Nadar Institution of Eminence Deemed to be University); Munsifa Barbhuyan (Assam Skill University)
278	Evaluating Commercial Dark Web Intelligence Platforms: A Gap Analysis of Sanitization Effectiveness	Sachin Upadhye (Ramdeobaba University, Nagpur); Shrivari Ramteke (Ramdeobaba University, Nagpur)
283	Analysis of QoS Parameters of Routing Protocols for IoT Devices	Munsifa Firdaus Khan Barbhuyan (Department of Information Technology, Assam Skill University, Mangaldai); Amit Kumar Roy (Department of Computer Science, Assam University, Silchar); Karnish Tapadar (Shiv Nadar Institution of Eminence Deemed to be University); Abdul Hannan (Department of Information Technology, Assam Skill University, Mangaldai)
309	A Quality-Aware and Confidence-Weighted Deep Learning Framework for Multi-Class Diabetic Retinopathy Classification	Kishore Kumar K (Mohan Babu University, Tirupati)
336	LAAS-UAV: A Lightweight Authentication and Authorization Scheme for UAV-Assisted IoT Framework	Dipanwita Sadhukhan (NIT Sikkim); sangram Ray (NIT Sikkim); Mou Dasgupta (NIT Raipur)
341	A Reinforcement Learning Framework for Shear Wave Velocity Map Reconstruction in Ultrasound Elastography	Shirshendu Sen Gupta (IIT, Guwahati); Manish Bhatt (IIT, Guwahati)
350	Interpretable Deep Reinforcement Learning with Differentiable Decision Trees for Cost-Effective Medical Diagnosis	Sumedh Ramteke (Visvesvaraya NIT); Umesh Deshpande (Visvesvaraya NIT)
364	AI-Powered Dynamic Honey-pot System	Aniket Das (Assam Engineering College); Uday Chowdhury (Assam Engineering College); Dipangshu Dutta (Assam Engineering College)
365	Design and Analysis of 64-Element Planar Patch Array Operating at 28 GHz for Next-Generation Vehicle-to-Everything Communication Networks	Ankit Kumar (Netaji Subhas University of Technology (NSUT)); Dharmendra Kumar Upadhyay (Netaji Subhas University of Technology (NSUT))
372	A Robust Reward-Weighted Adaptive Random Forest Framework for Rainfall Prediction	Ayisharya Mitra (Institute of Engineering and Management, Kolkata); Mainak Pal (Institute of Engineering and Management, Kolkata); Indira Chowdhury (Institute of Engineering

		and Management, Kolkata); Ankita Ray Chowdhury (Institute of Engineering and Management, Kolkata); Piyali Datta (Institute of Engineering and Management, Kolkata)
375	Adaptive Cyber Deception with Honeypots for Active Defense: A Stackelberg POSG Model with Deep Reinforcement Learning	Abhishek Kumar Jaiswal (Dr B R Ambedkar NIT, Jalandhar); Sumit Kumar (Dr B R Ambedkar NIT, Jalandhar)
386	DRISHTIKON-P: A Multilingual Dataset for Evaluating Semantic Consistency in Indic Vision Language Models	Manirathnam Kuruma (NIT Warangal); Rimjhim Rimjhim (NIT Warangal); Chanchal Suman (NIT Warangal)
390	Scalable Quantum-Classical DFT Embedding for NISQ Molecular Simulation	Namrata Manglani (Shah & Anchor Kutchhi Engineering College); Samrit Maity (CDAC-Pune); Ranjit Thapa (SRM University-AP); Sanjay Wandhekar (CDAC-Pune)
393	Energy-Efficient Transmission Scheduling for Dual-Connectivity IoT Networks: Terrestrial vs Non-Terrestrial Network Trade-offs	Ankit Kumar (Dr. B R Ambedkar NIT, Jalandhar, India)
399	An Ensemble based Feature Selection Framework for ASD classification	Gitartha Talukdar (The Assam Kaziranga University); Jyotismita Talukdar (Tezpur University); Debakanta Gogoi (Tezpur University)
418	Real-Time EEG-Based Brain-IoT Interface Using Multi-Channel Motor Cortex Analysis and Ensemble SVM Classification	Nikhil Nayak (Girijananda Chowdhury University); Abhinandan Kalita (Girijananda Chowdhury University)
426	Shannon Entropy Based DDoS Attack Detection Using Adaptive Threshold	Rajarshi Bhowmik (NIT Rourkela); Sanjeev Patel (NIT Rourkela)
430	MolAlchemist: Molecule Generation with Transformer and Reinforcement learning	Shivani K (Sri Ramakrishna Engineering College); Irene S (Centre for Development of Advanced Computing); Ethirajan D (Centre for Development of Advanced Computing)
437	Advanced Deep Learning Methods for Cardiovascular Disease Prediction Using Wearable Data: A Multi-Modal Fusion Approach	Trijit Ghosh (Ramakrishna Mission Vidyamandira, Belur Math)
440	Predictive Analysis of Soil Nutrient Levels Using Machine Learning Algorithms for Sustainable Agriculture	Diksha Tirdia (Chandigarh University); Simrandeep Singh (Chandigarh University)
446	Enhancing Pneumonia Detection from Chest X-Rays Using Probabilistic Pooling with Pretrained CNN Backbones	Aditya Yadav (NIT Rourkela); Ranjan Kumar (NIT Rourkela); Sanjeev Patel (NIT Rourkela)
482	A Multi-Scale CNN-GAU Spatio-Temporal Feature Learning Model for Inertial Sensor-Based Fall Detection	Gyanda Kaushal (NIT Silchar, Assam); Badal Soni (NIT Silchar, Assam); Nurul Amin Choudhury (NIT Meghalaya)
495	Trie Based Spell-Checker for English, Hindi, Bengali and Manipuri	Harsh Kumar Das (IIIT Manipur); Rajkumari Bidyalakshmi Devi (IIIT Manipur)
496	Ensemble Sparse and Robust Regression for Multi-Stage Image	Rama Krishna Saleendra (Narasaraopeta engineering college);

	Segmentation Under Noisy Agricultural Conditions	Soma Sekhar Kolisetty (Narasaraopeta engineering college)
520	Reconfigurable Intelligent Surfaces for 3GPP n78 Band: Design, Fabrication, and Testing	VISHWAJEET SHARAN (IIT BHILAI); Smriti Kumar (IIT BHILAI); Anurag Jaiswal (IIT BHILAI); Arzad Alam Kherani (IIT BHILAI)
550	Development of Humidity sensor using Edge Filter Detection in Micro-Ring Resonator	Jaskaran Phull (IIT ISM DHANBAD); Amitesh Kumar (IIT ISM DHANBAD); Ashish Ranjan Yadav (IIT ISM DHANBAD)
592	Benchmarking Object Detection Models in MMDetection and Enhancing Vision-Language Generation with Decoder Architectures	Neha Kasture (IIITNagpur); Bichu Devnarayan (IIITKottayam)
603	Ultra-Wideband Hybrid Metamaterial Absorber for High Angle RCS Reduction and EMI shielding	Masum Laskar (NIT Silchar); Banani Basu (NIT Silchar); Arnab Nandi (NIT Silchar)
623	LiqFormer: A Hybrid Liquid-Transformer Approach for Multi-Horizon Stock Market Forecasting	Anisha Singh (SVNIT); Alok Kumar (Sardar Vallabhbhai NIT (SVNIT), Surat); Balu L Parne (Sardar Vallabhbhai NIT (SVNIT), Surat)
625	DC Analysis of Al _x In _y Ga _{1-x-y} N based DDR IMPATT diode for THz Applications	Om Gawande (Visvesvaraya NIT); Girish Ghivela (IIIT Nagpur); Joydeep Sengupta (Visvesvaraya NIT)
628	A Polyimide-Based Ultra-Wideband Planar Antenna for Short-Range 6G Communications	Harshit Kumar (MNIT Jaipur); K.K. Sharma (MNIT Jaipur); Ritu Sharma (MNIT Jaipur)
644	Design and Characterization of a 47 GHz Slotted Rectangular Patch Antenna for V-Band mmWave Systems	Poonam Poonam (Indira Gandhi Delhi Technical University for Women); Yashika Bansal (Indira Gandhi Delhi Technical University for Women); Vaishali Kikan (Indira Gandhi Delhi Technical University for Women); Ashwni Kumar (Indira Gandhi Delhi Technical University for Women)
661	Split Learning for Missing Data Inference in Mobile Crowd Sensing.	Biswashreya Acharya (North Eastern Regional Institute of Science and Technology); Mangal Oinam (North Eastern Regional Institute of Science and Technology); Ningrinla Marchang (North Eastern Regional Institute of Science and Technology)
666	Geometry-Based Visualization of Brain Activity in Live Music	DASARI SHIVAKUMAR (IIT Guwahati); Cota Navin Gupta (IIT Guwahati); Budhaditya Hazra (IIT Guwahati)
676	Performance Evaluation of Different Dielectric Substrates for Microstrip Antenna at Terahertz Frequencies	Payal Bhardwaj (BIRLA INSTITUTE of TECHNOLOGY, MESRA, DEOGHAR); Mahendra Das (BIRLA INSTITUTE OF TECHNOLOGY, MESRA, DEOGHAR); Amit Kumar (BIRLA INSTITUTE OF TECHNOLOGY, MESRA); Sridhar Chintala (SR UNIVERSITY, TELANGANA)

692	Numerical Investigation of High Sensitive Tungsten Disulfide Nanocoated Surface Plasmonic Resonance Microfluidics Biosensor for the Detection of Acute Myocardial Infarction Biomarker	Kalpana Priyatharchini S (Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology); Valliammai M (Vel Tech Rangarajan Dr Sagunthala R & D Institute of Science and Technology)
699	A Physics Informed Depth Aware Morphological Neural Network for Pulmonary Disease Diagnosis	Vishnudatta Indraganti (IIT Guwahati); Anirban Dasgupta (IIT Guwahati); Manish Bhatt (IIT Guwahati)
716	Optimizing Deep Learning for Brain Tumor Classification: A Comparative Ablation Study of Preprocessing and Augmentation Strategies	Latchan Chhetri (Sikkim Manipal Institute of Technology, Sikkim Manipal University); Aman Kumar (Sikkim Manipal Institute of Technology, Sikkim Manipal University)
719	Frequency Reconfigurable Rectangular Liquid Dielectric Ring Resonator Antenna	Utpal Sarma (IIT Guwahati); Kabindra Bhagabati (Guwahati University)
734	A Multimodal Feature Fusion-Based Framework for Emotion Classification under Different Sleep Conditions	Kabita Devi (TEZPUR UNIVERSITY); Bhabesh Deka (TEZPUR UNIVERSITY)
759	Composite nonlinear trajectory tracking control of omnidirectional mobile robots	Ankur Deka (IIT Guwahati); Sandeep Reddy Basireddy (IIT Guwahati)
772	Stress Identification from Facial Thermal Images using FTS-Net	Manash Gogoi (IIT); Anirban Dasgupta (IIT Guwahati); Anushree Basu (Konica Minolta, Tokyo)
773	A Flexible Multiband Wearable Antenna for Sub-6 GHz 5G Communication Systems	M Ganesh (Delhi Technological university)
778	LAVENDER: Lightweight Abstention-Aware Verification for Behavioural and Factual Hallucination Detection in Large Language Models	Praneya Kumar (Netaji Subhas University of Technology); Anubhav Deepankar (Netaji Subhas University of Technology); Saksham Kumar (Netaji Subhas University of Technology); Vijay Kumar Bohat (Netaji Subhas University of Technology)
780	Real Time Yoga Pose Detection and Correction using Deep Learning and Machine Learning.	Ajang Aier (Assam Don Bosco University); Reign Brandon Syiem (Assam Don Bosco University); Adalbert Lyngdoh Lyngkhohi (Assam Don Bosco University); Alok Choudhury (Assam Don Bosco University)
785	Contour-Guided Spatial Attention Based Lightweight CNN for Breast Cancer Detection Using Thermal Imaging	Somenath Kuiry (Jadavpur University); Nibaran Das (Jadavpur University); Alaka Das (Jadavpur University)
830	Designing A 5.2 GHz Circular Microstrip Patch Antenna for WLAN Application	SUKANYA MITRA (Institute of Engineering & Management (Saltlake), Kolkata); Sarbani Sen (Sanaka Educational Trust's Group of Institutions Durgapur, India)

Thursday, ORAL SESSION (4th June 2026), Day 2

Oral Session 1A: 9:15 AM – 10:45 AM

Room: Conference Hall 1

Paper ID	Paper Title	Authors	From	To
137	Improved Walrus Optimizer for CNN-MLP Hyperparameter Tuning in Alzheimer's Disease Diagnosis	Subhas Mondal (NIT Agartala); Saptadeep Biswas (GITAM University); Seyedali Mirjalili (Torrens University); Uttam Kumar Bera (NIT Agartala)	9:15 AM	9:30 AM
172	THEMATIC ANALYSIS OF ADVERTISEMENT USING NVIVO	Tanvi Kori (IIIT, Naya Raipur); Sresha Yadav nee Ghosh (IIIT, Naya Raipur)	9:30 AM	9:45 AM
284	Variance based Adaptive Rényi's Entropy with Salp Swarm Optimization for Crop Image Segmentation	Ayushi Jaiswal (PDPM IIITDM, Jabalpur); Anil Kumar (PDPM IIITDM, Jabalpur); Prabin Kumar Padhy (PDPM IIITDM, Jabalpur)	9:45 AM	10:00 AM
294	Performance Evaluation of Bird Sound Classification Models in Realistic Acoustic Environments	Prerana Shirur (RV University); Shriyaa Anand (RV University); Abhijna Shivaprakash (RV University); Narendra KC (RV University)	10:00 AM	10:15 AM
322	HICM: A Framework for Harmonizing and Correcting Bias in Indian Census Migration Data	Niveditta Batra (IIT Jodhpur); CHIRANJOY CHATTOPADHYAY (FLAME UNIVERSITY); Mayurakshi Chaudhuri (FLAME University)	10:15 AM	10:30 AM
358	GSM: A New Method to Classify between Alzheimer's Disease, Mild Cognitive Impairment and Healthy Control	Abhijit Chandra (Jadavpur University); Subhabrata Roy (Brainware University)	10:30 AM	10:45 AM

Oral Session 1B: 9:15 AM – 10:45 AM

Room: Conference Hall 2

Paper ID	Paper Title	Authors	From	To
155	Power Consumption Analysis of AES-128 and AES-192: Encryption and Decryption for Multimedia and File Data on FPGA	Ayush Gedam (IIIT BHAGALPUR); Prabhat Kumar (IIIT BHAGALPUR); Dheeraj Kumar Sinha (IIIT BHAGALPUR)	9:15 AM	9:30 AM
225	IRS-Enabled Joint Sensing and Communication for 6G	Sanjeev Sharma (IIT BHU); Kuntal Deka (IIT Guwahati); Dharmendra Dixit (MNNIT Prayagraj); Kishor P. Sarawadekar (IIT (BHU) Varanasi)	9:30 AM	9:45 AM
241	A Reversible Parallel-Prefix Quantum Adder with Clean Ancilla Restoration	A Vinod (Anurag University); Raghu Inderkanti (Anurag University)	9:45 AM	10:00 AM
267	Filter Bank Multicarrier System Analysis in the Presence of IQ Mismatch	KM Shweta (IIT (BHU) Varanasi); Sanjeev Sharma (IIT BHU)	10:00 AM	10:15 AM
281	QSSAL: A Quantum Security Service Abstraction Layer for Software Defined Networking	Tinku Adhikari (Guru Nanak Institute of Technology); Suman Bhattacharya (Guru Nanak Institute of Technology); Mahamuda Sultana (Guru Nanak Institute of Technology); Swarnali Daw	10:15 AM	10:30 AM

		(Narula Institute of Technology); Suchismita Maiti (Narula Institute of Technology); Sujata Kundu (Narula Institute of Technology)		
866	Isolation enhancement in a 1 × 2 MIMO antenna by using Hybrid Ground and Pendulum – shaped parasitic Decoupler	Barsa Panda (NIT, Rourkela)	10:30 AM	10:45 AM
Oral Session 1C: 9:15 AM – 10:45 AM				
Room: Conference Hall 3				
Paper ID	Paper Title	Authors	From	To
377	Denoising of Magnetic Resonance Imaging using Physics Informed Neural and Convolutional Neural Network- A Comparison	Kusumika Krori Dutta (Dayanand Sagar College of Engineering); Vindhya P Malagi (Dayanand Sagar College of Engineering); Poornima S (M S Ramaiah Institute of Technology); Sarita Kumari (Amity University); Harsha Karamchandani (Nitte Meenakshi Institute of Technology); Kehkeshan Jallal (Presidency University)	9:15 AM	9:30 AM
379	Multi-Domain Transcription-Free Acoustic Analysis of Nyishi Speech	Deepshikha Gogoi (NIT ARUNACHAL PRADESH); Yang Saring (NIT ARUNACHAL PRADESH)	9:30 AM	9:45 AM
392	Development of an Intelligent Surveillance System Using Artificial Intelligence	Akarshan Ghosh (Girijananda Chowdhary University); Basab Das (Girijananda Chowdhury University)	9:45 AM	10:00 AM
851	IntelliFlow: An Imbalance- Aware Transformer based Framework for Road Traffic Flow Forecasting	Aradhana Behura (KIIT UNIVERSITY); Pabitra Mohan Khilar (NIT ROURKELA); Durga Prasad Mohapatra (NIT ROURKELA, INDIA); Jayeeta Jayeeta Chakraborty (KIIT UNIVERSITY)	10:00 AM	10:15 AM
409	Advances in Fake News Detection: A Comprehensive Survey of Methods, Datasets, and Challenges	Dr. Rohit Kaliyar (Bennett University)	10:15 AM	10:30 AM
422	Query-Specific Knowledge Graph Neural Networks for Multi-Hop Question Answering via Retrieval- Augmented Generation	Aparajita Sinha (NIT, Agartala); Likhita Marella (PES University, Bangalore, Karnataka)	10:30 AM	10:45 AM

Oral Session 1D: 9:15 AM – 10:45 AM				
Room: Conference Hall 4				
Paper ID	Paper Title	Authors	From	To
282	Enhancing NOMA Handover Performance Using Hybrid AI-Driven Modulated Deterministic Sequences	Sumita Majhi (IITG); G Vasantha Reddy (IITG); Pinaki Mitra (IITG)	9:15 AM	9:30 AM
291	Detecting and Mitigating DAO Induction-based Energy Depletion Attack in IoT Networks	Manas Khatua (IIT Guwahati); Prahil Bhowmik (Walmart Global tech); Devi Naga Sai Srinivas Munagala (Oracle Netsuite); Soumya Mishra (MIT Manipal)	9:30 AM	9:45 AM
330	Advanced Intrusion Detection in Wireless Sensor Networks Using Vanilla Generative Adversarial Network	Bikash Kalita (Gauhati University); Satyajit Sarmah (Gauhati University); Bijay Kumar Singh (Assam Skill University)	9:45 AM	10:00 AM
357	GCN-Aided RSMA Framework for Robust V2X Communication	Reshma Pothuraju (NIT Trichy); Sudha V (NIT Trichy)	10:00 AM	10:15 AM
363	CSIDS: Detecting Mimicry Attacks using Network Context with Host Behavior in IoT Networks	Surja Sanyal (IIT Guwahati); Manas Khatua (IIT Guwahati); Pratik Chattopadhyay (IIT (BHU) Varanasi)	10:15 AM	10:30 AM
882	Federated Learning with Dynamic Fluid Antennas for Real-Time Edge AI in Autonomous Vehicles	Amit Chaurasia (Manipal University Jaipur); Rishit Agnihotri (Manipal University Jaipur); Bhavya Chauhan (Manipal University Jaipur)	10:30 AM	10:45 AM
Oral Session 2A: 11:45 AM – 1:15 PM				
Room: Conference Hall 1				
Paper ID	Paper Title	Authors	From	To
750	Levy Random Search Optimization-Based Power Allocation Strategy for Hybrid Energy Storage Systems in Electric Vehicles	Vibhavari Jadhav (SGU); VIJAY MOHALE (IIT ROORKEE); Swapnil Hirikude (SGU)	11:45 AM	12:00 PM
815	Comparative Study of Various Hybrid Magnet configurations for Axial Flux Permanent Magnet Synchronous Motor	Anshuman Dixit (IIT Bhubaneswar); Dr. Ankit Dalal (IIT Bhubaneswar)	12:00 PM	12:15 PM
841	Performance Optimization of ZnO QDs/PCDTBT: PCBM/MoO ₃ /Ag- Based BHJ Organic Solar Cells Using SCAPS-1D Modeling	Bishwayan Bhattacharyya (NIT JAMSHEDPUR); Kalyan Kumar Pegu (NIT JAMSHEDPUR); Devireddy Venkata Siva Reddy (NIT JAMSHEDPUR); Surajit Kundu (NIT JAMSHEDPUR); Chandradeep Singh (NIT JAMSHEDPUR); Basudeba Behera (NIT JAMSHEDPUR); Amit Kumar (NIT JAMSHEDPUR)	12:15 PM	12:30 PM

412	Enhanced Multi-Strategy Bidirectional RRT Framework for Optimal Path Planning	Navneet Pathak (MNNIT Allahabad); Deepak Kumar (MNNIT Allahabad)	12:30 PM	12:45 PM
447	Toward Minimal-Sensor Spatiotemporal Gait Analysis: A Dual-FSR Insole Design and Validation	Dhanya M P (Amrita Vishwa Vidyapeetham); Radhagayathri Udhayakumar (Amrita Vishwa Vidyapeetham); Peeyush K P (Amrita Vishwa Vidyapeetham)	12:45 PM	1:00 PM
544	High Precision Levitation Using Model Predictive Control and Bio-Inspired Algorithms Optimized Fractional Order PID Controllers for Maglev Trains	Devanathan V (IIT Madras); Methil Vivek Shankar (Manipal Institute of Technology); Rajesh D (IIT Madras); Arjune BK (IIT Madras); Sorakayalapalem Mahesh (Center of Excellence in Energy and Telecommunication (CEET)); Atriya Biswas (IIT Madras); Vinopraba T (NIT Puducherry)	1:00 PM	1:15 PM

Oral Session 2B: 11:45 AM – 1:15 PM

Room: Conference Hall 2

Paper ID	Paper Title	Authors	From	To
219	Analysis of thermal heat losses in floating solar PV panels and the improvement of the performance utilising PCM composite integrated with copper plate	Mukul Banerjee (NIT Mizoram); Sukanta Roy (NIT Mizoram); Souradeep Dutta (School of Mechanical Engineering, Shandong University of Technology, Zibo, 255000, China); Chiranjib Bhowmik (Techno India University); Sourav Saha (NIT Mizoram); Sanjeev Kumar Mahato (NIT Mizoram)	11:45 AM	12:00 PM
407	ANSYS Application – Based Design of Three phase Induction motor	kavita Rawat (Support Engineer II Oceaneering International Chandigarh, Punjab); Rehana Perveen (Chandigarh University); Birinderjit Singh (Chandigarh University)	12:00 PM	12:15 PM
651	Physics-Based Data-Driven Modeling of a PEM Electrolyzer Stack for Hydrogen Production	Kuldeep Kumar (IIT Guwahati); Sheikh Suhail Mohammad (IIT Guwahati); Sumeet Kumar Kariyare (IIT Guwahati); Saket Verma (IIT Guwahati)	12:15 PM	12:30 PM
708	Robust Difference Plot Encoding for Xception-Based Transformer Fault Classification using Frequency Response Analysis	Mithun Mondal (BITS Hyderabad); Akshansh Ranjan (BITS Pilani Hyderabad); Samarth Goyal (BITS Pilani Hyderabad); Akshay Agarwal (BITS Pilani Hyderabad); Aayushman Modi (BITS Pilani Hyderabad)	12:30 PM	12:45 PM
14	Mitigation of Few-Shot Learning Challenges in Transformer-Based Chatbot for Effective Dialog Management	Brajula W (Niche)	12:45 PM	1:00 PM

27	Automated Thermal Imaging System for Fault Fuse Detection	Rishik Nimmani (SRM Institute of Science and technology); C C REDDY (IIT Ropar)	1:00 PM	1:15 PM
Oral Session 2C: 11:45 AM – 1:15 PM				
Room: Conference Hall 3				
Paper ID	Paper Title	Authors	From	To
679	Smooth Motion Tracking for Differential Drive Robots using Enhanced Decoupled PID Controllers	Tanishq Pancholi (UPES); Rahul Singhal (UPES)	11:45 AM	12:00 PM
704	Distributed Multi-Robot Task Allocation for Dynamic Multi-Target Tracking Using Inexact ADMM	Pranami Sarma (IIIT Guwahati); Surajit Panja (IIIT GUWAHATI)	12:00 PM	12:15 PM
725	Multi-UAV Path Planning for Search and Rescue Operation in Post-disaster Scenario	SAYANTAN CHAKRABORTY (IIIT GUWAHATI); Surajit Panja (IIIT GUWAHATI)	12:15 PM	12:30 PM
865	Eigen-Surrogate Optimal Weighting for Fast Covariance Intersection in Multi-sensor Fusion	Dr. Arindam Chakraborty (SASTRA University); Nagadharahas C. S. (SASTRA University); Akkarapakam Suneesh Jacob (SASTRA University)	12:30 PM	12:45 PM
890	Sliding Mode Control for Autonomous Navigation Under Uncertain Environment	Vishvjit Thakar (Noble Engineering College)	12:45 PM	1:00 PM
551	Flow Control of Industrial Process Using P, PI and PID Controller	Rahul Basumatary (Assam Engineering College); Dipankar Chanda (Assam Engineering College); Hemanta Hazarika (Assam Engineering College)	1:00 PM	1:15 PM
Oral Session 2D: 11:45 AM – 1:15 PM				
Room: Conference Hall 4				
Paper ID	Paper Title	Authors	From	To
445	XAP-Net: An Explainable Attention-Prototype Framework for Stroke Classification in Data-Scarce MRI	Rupali Vyas (NIT Raipur); Jitendra Kumar Rout (NIT Raipur)	11:45 AM	12:00 PM
514	A Runtime-Efficient Comparative Study of Decomposition-Based and Evolutionary Multi-Objective Optimization Algorithms	Deepankur Singh (NIT Jalandhar)	12:00 PM	12:15 PM

533	Feasibility Analysis of Deep Learning Models for CHD Screening Using Synthetic Supervision	Purna Khatiwara (NERIST); Longjam Menaka Devi (NERIST); Dr. Margaret Kathing (Nerist)	12:15 PM	12:30 PM
534	Pose-Based View Invariant Gait Recognition	LONGJAM DEVI (NERIST); Purna Khatiwara (NERIST); Margaret Kathing (NERIST); Rishang Brahma (TEZPUR University); Sarat Saharia (TEZPUR University)	12:30 PM	12:45 PM
548	S-FuseNet: An Attention-Enhanced Lightweight Architecture for Migratory Bird Species Classification	Ayan Nawchoo (Assam Don Bosco University); Udayaditya Sankar Das (Assam Don Bosco University); Arijeet Saha (Assam Don Bosco University); Manasi Hazarika (Assam Don Bosco University)	12:45 PM	1:00 PM
593	Weighted Cluster-Based Federated Averaging for Human Activity Recognition under Non-IID Wearable Sensor Data	Anil Kumar (Maulana Azad NIT (MANIT) Bhopal); Vaibhav Soni (Maulana Azad NIT (MANIT) Bhopal); Akash Sinha (Maulana Azad NIT (MANIT) Bhopal)	1:00 PM	1:15 PM

Oral Session 3A: 4:15 PM – 5:45 PM**Room: Conference Hall 1**

Paper ID	Paper Title	Authors	From	To
723	XAI driven Multimodal Deepfake Detection using Attention-aware CNN-BiLSTM	Saransh saxena (Indian Institute of Information Technology, Surat); Asit Shastri (Indian Institute of Information Technology, Surat); Reema Patel (Indian Institute of Information Technology, Surat)	4:15 PM	4:30 PM
745	Development of ML model for triboelectric nanogenerator based sign language detection system	MOHENDRA ROY (Pandit Deendayal Energy University)	4:30 PM	4:45 PM
748	TeaShootNet: An Attention-Enhanced YOLOv10 Model for Precision Tea Shoot Detection and Growth Monitoring	Rajat Amat (IIIT Guwahati); Ayush Kumar Singh (IIIT Guwahati); Mourina Ghosh (IIIT Guwahati)	4:45 PM	5:00 PM
767	A Frequency-Aware Multi-Stream CNN Approach for Diabetic Foot Ulcer Detection	OM SINGH (IIIT BHAGALPUR); Shubhranshu Ranjan (IIIT Bhagalpur); Arpit Pathak (IIIT Bhagalpur); Ujjwal Biswas (NIT Manipur); Sharbani Purkayastha (NIT Raipur)	5:00 PM	5:15 PM
783	A Self-Supervised Transformer-Based EEG Model for Alzheimer's Disease Classification	Abhishek Mankar (IIITBhagalpur); Suraj Suraj (IIITBhagalpur); Sandeep Raj (IIITBhagalpur)	5:15 PM	5:30 PM

791	Predicting Smartphone Market Positioning: A Machine Learning Approach to Feature Importance and Price Segmentation in 2025	Mahesh Joshi (IIT Pune); Priyanka Joshi (IIT Pune)	5:30 PM	5:45 PM
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Oral Session 3B: 4:15 PM – 5:45 PM**Room: Conference Hall 2**

Paper ID	Paper Title	Authors	From	To
795	Grading of Arecanuts using Ensemble Learning Techniques	NGAMKLET NONGLAMIN (North Eastern Hill University, Shillong); Khwairakpam Amitab (North Eastern Hill University, Shillong)	4:15 PM	4:30 PM
806	A Baseline Simulation Framework for DDoS Detection in IoMT Networks: Design and Critical Analysis	Ankita Ghosh (Manipal University); Aditya Bidappa M V (Dayananda Sagar University); Archita Bhattacharyya (Dayananda Sagar University); Subhash Mondal (Amity University Kolkata); Mubeen Ahmad Khan (Dayananda Sagar University); Mrinal Kanti Deb Barma (NIT, Agartala)	4:30 PM	4:45 PM
834	Segmentation of Oral and Skin Cancer Tissues using a Lightweight Agentic Iterative Refinement Network (AIRNet)	Bibek Goswami (IIT Guwahati); Nitin Yadav (IIT Guwahati); Marjana Bhuyan (Vellore Institute of Technology); M.K. Bhuyan (IIT Guwahati)	4:45 PM	5:00 PM
843	An Edge-Compatible Lightweight Framework for Feature-Based ECG Arrhythmia Classification Using Accelerated Hurst Contour Projection	Basab Purkayastha (IIITGuwahati); Basab Bijoy Purkayastha (IIT Guwahati); Shovan Barma (IIITGuwahati)	5:00 PM	5:15 PM
842	FusionNeXt: A ConvNeXt-Based Residual Fusion Network for Skin Lesion Segmentation	Nitin Yadav (IIT Guwahati); Bibek Goswami (IIT Guwahati); Marjana Bhuyan (Vellore Institute of Technology); M.K. Bhuyan (IIT Guwahati)	5:15 PM	5:30 PM
844	Intelligent Medical Image Privacy-Preserving Framework Using Federated Learning	Manmohan Kumar (NIT Manipur); Ujjwal Biswas (NIT Manipur); Om Prakash Sing (IIIT Bhagalpur); Pradeepkumar Bhale (IIITDM Kancheepuram)	5:30 PM	5:45 PM

Oral Session 3C: 4:15 PM – 4:45 PM**Room: Conference Hall 3**

Paper ID	Paper Title	Authors	From	To
877	A Baseline-Constrained Adaptive Framework for Unsupervised Shot Segmentation of Broadcast News Videos	Pranabjyoti Haloi (Jorhat Engineering College)	4:15 PM	4:30 PM

879	Optimized Optothermal Radiation System Design for Breast Cancer Treatment: Parametric Simulation via Numerical Analysis	Mohd Mansoor Khan (IIIT Guwahati); Snigdha Chowdhury (IIIT Guwahati); Ramesh Kumar Sonkar (IIIT Guwahati)	4:30 PM	4:45 PM
188	AI-Driven Selective Bird Feeder Guard Using MobileNetV3 and ESP32	Aditya Bharath Raja Rao (RV University); Geethika Sunkara (RV University); Disha Prashanth (RV University); Anoop P (RV University); Akshathaa Avinash Annadhani (RV University); Sheela S (RV University)	4:45 PM	5:00 PM
566	Spatially Informed Analysis of Ovarian Ultrasound Images for Improved PCOS Diagnosis	Sulagna Mondal (Future Institute of Engg. and Mngt); Ishani Das (Future Institute of Engg. and Mngt); Tuli Bakshi (Future Institute of Technology)	5:00 PM	5:15 PM
673	Agentic AI-Powered ESG Consultant: An Advanced Compliance Gap Analysis Tool for Sustainable Business Practices	Chethan K Murthy (Dayananda Sagar University); Prateek Verma (Dayananda Sagar University Bangalore); Subhash Mandal (Amity University, Kolkata)	5:15 PM	5:30 PM
675	Attention-Enhanced Retinal Vessel Segmentation in Macular OCTA for Improved AMD Diagnosis	Mane Pooja (IIT Guwahati); Samarendra Dandapat (IIT Guwahati); Manish Bhatt (IIT Guwahati)	5:30 PM	5:45 PM
Oral Session 3D: 4:15 PM – 5:45 PM				
Room: Conference Hall 4				
Paper ID	Paper Title	Authors	From	To
504	A multimodal Question Answering system using Language Models for accessing disaster related queries of Assam	Pragyat Baruah (Department of Computer Science and Engineering, Assam University Silchar); Vamanpally Sai Snehal (Department of Computer Science and Engineering, Assam University Silchar); Tirthanka Borah (Department of Computer Science and Engineering, Assam University Silchar); Arnab Paul (Department of Computer Science and Engineering, Assam University Silchar); Moucham Bhattacharya (Department of Computer Science and Engineering, Assam University Silchar); Th Deepmani Singha (Department of Computer Science and Engineering, Assam University Silchar)	4:15 PM	4:30 PM
505	AURA: A Predictive Machine Learning System for analyzing Climate-Related Reproductive Health Risks in Women	Sharalee Pant (Amity University); Anoushka Ishi Gupta (Amity University); Ishika Gupta (Amity University); Palak Jain (Amity University)	4:30 PM	4:45 PM

		University); Richa Sharma (Amity University)		
507	Attention-Deficit/Hyperactivity Disorder and Electroencephalography: A Concise Review	Debasish Phukan (Gauhati university); Daisy Das (Gauhati university); Nabamita Deb (Gauhati university)	4:45 PM	5:00 PM
525	A Lightweight and Clinically Sensitive Deep Learning Framework for Pneumonia Screening Using Chest X-Ray Images	Ankit Sharma (Nirma University); Jimit Chaudhary (Nirma University); Ayan Tamakuwala (Nirma University)	5:00 PM	5:15 PM
539	Evaluating Custom Assamese Word Embeddings through Analogy Benchmarks and Statistical Significance Testing	Manash Lahkar (Tezpur University); Utpal Sharma (Tezpur University); Tribikram Pradhan (Tezpur University)	5:15 PM	5:30 PM
541	Cross Environment Human Activity Recognition Using Seismic Vibration Features and Ensemble Classifiers	Abhishek Kumar (Bharat Electronics Limited); Jitendra Kumar (Bharat Electronics Limited)	5:30 PM	5:45 PM

Thursday, POSTER SESSION (4th JUNE 2026), Day 2

Session #2		Conference Centre Lobby		3:00 PM – 4:00 PM	
Paper ID	Paper Title	Authors			
74	Cumulative Learning-Based Innovative Optimization Framework for Brain Tumor Classification	PRANSHU JENA (NIT Rourkela), Umesh C. Pati (NIT, Rourkela)			
98	Shadow Price Guided Microgrid Optimization	Priyanshu Gourav Sarangi (Odisha University of Technology and Research), Arpita Mahapatra (Odisha University of Technology and Research); Jayshman Mohapatra (Odisha University of Technology and Research); Ullash Kumar Rout (Odisha University of Technology and Research); Saiuditi Rout (IIT Madras)			
101	A Novel Solar Panel Integrated Microstrip Antenna for Small Satellite Payloads	Venkata Sai Charan Kumar (Presidency University); Dev Saran RS (Puducherry Technological University); Mayank Sharma (Aalto University); Milind Thomas Themalil (IIIT Kottayam, Kerala)			

166	A synergization of multiple heuristics for the multi-objective traveling salesman problems	Sk Rahaman (Haldia Institute of Technology); Sukumar Mondal (Raja N L Khan Women's College); Manas Kumar Maiti (Mahishadal Raj College)
194	Adaptive Super Twisting Sliding Mode Control for Robust Yaw Stabilization of Twin Rotor MIMO System	Shivendra Chaurasia (MNNIT Allahabad); Gaurav Kumar Rai (MNNIT Allahabad); Deepak Kumar (MNNIT Allahabad)
259	Design Automation of Gough-Stewart Platform for Constant Orientation Workspace by a Novel Geometrical Method	Sri Vishva R. (SASTRA Deemed University); Naresh R. (SASTRA Deemed University); Gokul Narasimhan S. (SASTRA Deemed University); Anjan Dash (SASTRA University)
317	Toward 6G Sub-THz Era: An Efficient and compact 100 GHz Microstrip Antenna with Advanced Slot Geometry	Himanshi Verma (Indira Gandhi Delhi Technical University For Women); Bhawna NA (Indira Gandhi Delhi Technical University For Women); Kusum Kumari (Indira Gandhi Delhi Technical University For Women); Vaishali Kikan (Indira Gandhi Delhi Technical University For Women); Ashwni Kumar (Indira Gandhi Delhi Technical University For Women)
321	Performance Analysis of a PV–TEG Hybrid System Under Diverse Artificial Light Sources In Indoor Environment	Pallavi Roy (Girijananda Chowdhury University); Ajaan Anubhav Borah (Girijananda Chowdhury University)
339	Design and Optimization of Highly Efficient ZrS ₂ -based Perovskite Solar Cell for Eco-Friendly Applications	Bibhas Manna (NIT Meghalaya); Shanmim Karim Tonmoy (NIT Meghalaya); Imon Shahriar (NIT Meghalaya); Tribid Mazumder (NIT Meghalaya); Devraj Pegu (NIT Meghalaya); Jagritee Talukdar (NIT Meghalaya)
343	Force-Feedback RL-Based Bionic Control of Hand Exoskeleton for Object Grasping and Slip Prevention	Abhigyan Singh (IIT, Ropar); Udit Hazoary (NIT, Silchar); Nilavjyoti Sarmah (Pandit Deendayal Energy University, Gujarat); Shyamanta M. Hazarika (IIT, Guwahati)
356	Role of Sulfurization Temperature on the synthesis and optoelectronic properties of Cu ₃ BiS ₃ thin films	Shreosi Mukherjee (VNIT Nagpur); G. Hema Chandra (VNIT Nagpur)
360	A Hybrid MTPA-MPFC Current Reference Generator for SynRM Control	Haritha Mohanan (IIT Bhubaneswar); Ankit Dalal (IIT Bhubaneswar)
391	Sparse Identification of Nonlinear Dynamics for Digital Twin Applications in Solar Photovoltaic Systems	Mir Muhammad Zaid AbuBakr (Islamic University of Science and Technology); Sahid Hameed Sofi (Islamic University of Science and Technology); Fahid Rafiq (Islamic University of Science and Technology); Mohammad Sahil Shafi (Islamic University of Science and Technology); Amit Apte (Indian Institutes of Science Education and Research, Pune); Shahkar Ahmad Nahvi (Islamic University of Science and Technology)

429	A Resource-aware Adaptive Threshold Algorithm for Cooperative Spectrum Sensing in Coal Mine Communication	Suvaditya Majumdar (Institute of Engineering and Management (IEM), University of Engineering and Management Kolkata Kolkata, India); Dipan Lahiri (Institute of Engineering & Management); Debabrata Nath (Institute of Engineering and Management (IEM), University of Engineering and Management Kolkata Kolkata, India); Anirban Ganguly (Institute of Engineering and Management (IEM), University of Engineering and Management Kolkata Kolkata, India); Debanjana Datta Mitra (Institute of Engineering and Management (IEM), University of Engineering and Management Kolkata Kolkata, India); Maumita Chakraborty (Institute of Engineering and Management (IEM), University of Engineering and Management Kolkata Kolkata, India)
435	Ultrafast CMOS-Based On-Chip Islanding Detection for Photovoltaic Microinverters Using Timing-Based Analysis	Dipli Boruah (Jorhat Engineering College); Tilok Boruah (Jorhat Engineering College)
442	Placing Tourist Spots in Smart Cities: A Crowdsourced Game Theoretic Approach	Surja Sanyal (IIT Guwahati); Tanu Priya (NIT Durgapur); Naren Debnath (Narula Institute of Technology); Debasis Mitra (NIT Durgapur); Sajal Mukhopadhyay (NIT Durgapur)
501	Disease-Aware Image Captioning for Mango Leaf Disease Identification Using a Hybrid EfficientNet–LSTM Framework	Arvind Ganvir (Indian Institute of Information Technology, Nagpur); Jagdish Chakole (Indian Institute of Information Technology, Nagpur)
502	DC–DC Power Conversion for Electric Vehicles: From Conventional Topologies to Integrated Architectures	Zubair Afzal (jamia milia islamia); Ahteshamul Haque (Jamia Millia Islamia); Abrar Rasool Dar (Jamia Millia Islamia)
517	PACT: AI and Digital Twin based Proactive Congestion Prediction	Karen Elisha Chezhiyan (RV University); Jathin Kirani Nagaraj (RV University); Sunilkumar J (RV University); Neha Najem (RV University)
518	GNN-Based Routing Algorithm: End-to-End Path Prediction	Ritvik Medam (RV University); Pranava Bhat (RV University); Sunilkumar J (RV University); Aishwarya Singh Gautam (RV University)
535	LOAD FREQUENCY CONTROL IN A TWO-AREA WTG–THERMAL POWER SYSTEM USING AN ADAPTIVE FALCON OPTIMIZATION BASED CASCADE CONTROLLER	Partha Paul (Assam Engineering College); Biswanath Dekaraja (Assam Engineering College); Lalit Chandra Saikia (NIT Silchar)
536	QUANTUM WALK INSPIRED JPEG COMPRESSION OF IMAGES	Abhishek Verma (Central Research Laboratory, Bharat electronics limited); Sahil Tomar (Central Research Laboratory, Bharat electronics limited);

		SANDEEP KUMAR (Central Research Laboratory, Bharat electronics limited)
537	Interpretable Hybrid CNN–XGBoost Model for Lung Lesion Diagnosis with Grad-CAM and SHAP-Based Attribution	Bhumika Tiwari (Chandigarh University); Navneet Kaur (Chandigarh University)
547	Audio Spectrogram Transformer for Speech Emotion Recognition on Indian Languages	Vikram Krishna Majji (IIT Guwahati); Hitesh Ramrakhiyani (IIT Guwahati); Hanumant Singh Shekhawat (IIT Guwahati)
549	The Relevance and Applications of eBPF and XDP in Modern Network Security and Observability Systems	SHOUVIK SEN (Institute of Engineering and Management); RAJDEEP DAS (Institute of Engineering and Management); INDRAJIT DE (Institute of Engineering and Management)
557	Cloud Type Classification Using Convolutional Neural Networks and Transfer Learning	Grishma Bhawsar (Nirma University); Devang Babel (Nirma University); Ankit Sharma (Nirma University); Himanshu Patel (Nirma University)
563	Voice Cloning using RVC: A Lightweight and Personalized Speech Synthesis Technique	Komal Bharti (Thapar Institute of Engineering and Technology); Kismat Gill (Thapar Institute of Engineering and Technology); Katyayani Jha (Thapar Institute of Engineering and Technology); Karnish Tapadar (Shiv Nadar Institution of Eminence Deemed to be University)
581	Dual Band CPW Fed Flexible Antenna for Wearable Application	ARINDAM MUKHERJEE (Malaviya NIT Jaipur); Sonu Jain (Malaviya NIT Jaipur); Akshay Pratap Singh (Malaviya NIT Jaipur); Ritu Sharma (Malaviya NIT Jaipur); K. K. Sharma (Malaviya NIT Jaipur); Alok Kumar Singhal (SAC ISRO, Ahmedabad)
588	UGIA-Comp: An Unmixing Guided and Importance Aware Compression Framework for Hyperspectral Images	BIPASHA CHAKRABARTI BANIK (IEM)
596	Machine Learning Based Side-Channel Analysis of Lightweight Block Ciphers with Multi-Modal Leakage	Sahana A R (IIT Guwahati); Gautham Suresh (IIT Guwahati); Vivekananda G (IIT Guwahati); Sukumar Nandi (IIT Guwahati)
604	Assessing Advertising Importance in Social Media–Driven Buying and Selling Decisions through Customer Satisfaction Prediction	SRINIVAS BANDI (Narasaraopeta Engineering College); Suresh M (Narasaraopeta engineering college)
605	Geospatial Machine Learning Model for Solar Irradiance Prediction using Cloud Cover	Abdul Matin (Assam Engineering College); Pingal Pratyush Dutta (Assam Engineering College); Chinmoy Koch (Assam Engineering College); Anshuman Gogoi (Assam Engineering College); Ananya Choudhury (Assam Engineering College)
609	ABSTRACTIVE PAPER SUMMARIZATION USING t5- LoRa	Raja Himana (Vardhaman College of Engineering); Akhila Sree Vishnubhatla (Vardhaman College of Engineering);

		Bhanu Prakash Reddy Yellannagari (Vardhaman College of Engineering); Dr. Sesadri U (Vardhaman College of Engineering)
634	Transformer-Based Channel Tracking for OTFS in Vehicular Environments	Henakshi Das (IIIT Guwahati); Ibtisam Hussain (IIIT Guwahati); Kukil Khanikar (IIIT Guwahati)
647	Modeling and Analysis of a Solar-Integrated Bidirectional Electric Vehicle Charger for Multi-Mode Energy Exchange	Bipul Talukdar (Jorhat Engineering College); Dhiroj Saikia (Jorhat Engineering College); Ankit Phukan (Jorhat Engineering College); Shiva Dey (Jorhat Engineering College); Riya Sharma (Jorhat Engineering College)
657	Performance Analysis of Fountain-Coded NOMA for Hybrid Satellite–Terrestrial Relay Systems Under Finite Transmission Deadlines	RIDIP TUKARIA (Gauhati University); Rupam Bora (Gauhati University); Rajdeep Saikia (Gauhati University); Aradhana Misra (Gauhati University); Kandarpa Sarma (Gauhati University)
664	A study of API Security Attacks, Vulnerabilities, and Mitigation Techniques	Prahlad Kalita (Assam Engineering College); Amrita Bose Paul (Assam Engineering College)
668	Sliding mode based tracking control of robot manipulators using full-order lyapunov matrices	Ankur Deka (IIT Guwahati); Sandeep Reddy Basireddy (IIT Guwahati)
678	Tunable Plasmonic Metastructure for Excitonic Absorption Enhancement in Few-Layer WSe ₂	Rajib Ghadei (IIT Guwahati); Rishi Maiti (IIT Guwahati)
680	A MULTI-PORT FIVE-LEVEL BUCK-BOOST PFC RECTIFIER FOR EV CHARGING APPLICATION	Aakanksha Jain (Department of Technical Education and Skill Development, Govt. of Madhya Pradesh); Vishwajeet Kumar (SAM Global University Bhopal); Siva Kumar Patro (IIT Roorkee)
700	Comparative Analysis of 1D CNN and 1D U-Net Framework for Patient-Independent Robust R-Peak Detection in Low-SNR ECG Signals	pranshu Sharma (IIIT Una); Dr. Tanu Wadhera (IIIT UNA); Dr. Ankur Kumar (IIIT Una)
705	Gated Multi-Backbone Early Fusion of CNN and Swin Transformer for Cattle Disease Classification	Aradhy Tiwari (Guru Ghasidas Vishwavidyalaya); Amit Kumar Saxena (Guru Ghasidas Vishwavidyalaya); Suraj Sahu (Guru Ghasidas Vishwavidyalaya)
713	Ephemeral Learning at the Hardware Frontier: A Zero-Storage Systematic Evaluation of YOLO Architectures in High-Entropy Indian Traffic	Rahul Jaisy (Assam Engineering College); Dr. Ananya Choudhury (Assam Engineering College); Dipam Kr Baruah (Assam Engineering College); Jatin Rai (Assam Engineering College); Sanjay Kalita (Assam Engineering College); Jyotirmay Das (Assam Engineering College)
714	Design and Experimental Validation of an IoT-Enabled BLDC-Based Compact Panel Fan with Adaptive Thermal Control	Shruti Saste (vishwakarma institute of technology); Anil Kadu (vishwakarma institute of technology); Priya Shinde (vishwakarma institute of technology); Rushikesh Sarawade (vishwakarma institute of technology); Sarthak

		Kamble (vishwakarma institute of technology)
739	A Hybrid Deterministic-AI Multi-Agent Framework for Healthcare Provider Validation: Architecture and Implementation	Rahul Patnaik (RV College of Engineering); Noel Mathew (RV College of Engineering); Akash Sivaprasath (RV College of Engineering); Abhijat Bhat (RV College of Engineering); Nishan Shetty (RV College of Engineering); Veena Gadad (RV College of Engineering)
758	Enhanced Child Malnutrition Classification Using Hybrid BGWO-RFECV Feature Selection and Ensemble Learning on Temporal Health Data	Neeraj Dewangan (NIT Raipur); Rakesh Tripathi (NIT Raipur); Shrish Verma (NIT Raipur)
768	Spiking Graph Attention Networks for Energy-Efficient Human Activity Recognition	Ponnekanty Y Raj Kamal Tutu (NIT Silchar); Ramanujam E (NIT Silchar); Faizal Shanavas Puthiyaveetil (NIT Silchar); Ashutosh Sahoo (NIT Silchar)
802	EmotioNetASD: Smart Emotion Check for Children with ASD Using Attention Based Deep Learning	Debmani Saha (IIITKalyani); Oishila Bandyopadhyay (IIITKalyani)
805	Momentum Contrast-Based Self-Supervised Learning for Skin Cancer Segmentation	Lakshmi Priya (IIITDesign and Manufacturing Kancheepuram); Ajay Sharon (IIITDesign and Manufacturing Kancheepuram); Umarani Jayaraman (IIITDesign and Manufacturing Kancheepuram)
816	Natural Language Processing Driven Cyberbullying Detection from Social Media Posts	Magrisha Kharbani (Assam Don Bosco University, Azara); Ankha Hage (Assam Don Bosco University, Azara); Rishanbor L Mawlot (Assam Don Bosco University, Azara); Lovikrishna Shivam (Assam Don Bosco University, Azara)
828	Transformer Based Feature Optimization for Breast Cancer Histopathological Image Classification	Vidit Sharma (Institute of Engineering & Management, Kolkata); Nilabhra Saha (Institute of Engineering & Management, Kolkata); Somenath Kuiry (Institute of Engineering & Management, Kolkata)
833	SCG-Based Respiratory State Identification via Clinically and Physiologically Informed Machine Learning	Yengkhom Singh (IIT Guwahati); Sumit Singha (IIT Guwahati); L.N. Sharma (IIT Guwahati); Samarendra Dandapat (IIT Guwahati)
837	A New Benchmark on Cx22 Cervical Cell Segmentation Using a Tailored Focus U-Net++	Riya Sarkar (Govt. College Of Engineering and Ceramic Technology); Snehasis Sahu (Jadavpur University); Kalpana Saha (Govt. College Of Engineering and Ceramic Technology); Nibaran Das (Jadavpur university)
848	Uniform Dispersion of Oblivious Mobile Robots on Alternate Nodes of an Infinite Grid	Sudip Naskar (Jadavpur University); Subhadip Sinha (Jadavpur University); Subhas Chandra Shit (Jadavpur University); Sruti Gan Chaudhuri (Jadavpur University)

864	Development and characterisation of a capacitive sensor for tea moisture measurement	CHANDRAMITA BORDOLOI (Tezpur University); Satyajib Bhattacharyya (Tezpur University)
867	An Explainable AI Framework for Skin Cancer Detection Utilizing Monte Carlo Optimization and Cluster Graph Convolutional Networks	Madhab Paul Choudhury (IIT (ISM) Dhanbad); Annavarapu Chandra Sekhara Rao (IIT (ISM) Dhanbad); Shiv Shankar Pandit (IIT (ISM) Dhanbad); Dr. Monu Bhagat (Birla Institute of Technology Mesra, Ranchi)*
872	Development of Whole Slide Image for Digital Pathology of Oral Carcinoma from H&E Stained Histopathological Images	Aarav Saxena (ViT Chennai); Richa Malviya Dutta (IIT Kharagpur); Subhamoy Mandal (IIT Kharagpur); Debi Prosad Dogra (IIT Bhubaneswar); Pranab K Dan (IIT Kharagpur)

Thursday, POSTER SESSION (4th JUNE 2026), Day 2

Session #3		Conference Centre Lobby	5:45 PM – 6:45 PM
Paper ID	Paper Title	Authors	
45	Named Entity Recognition for Mathematical Texts using Transformer-Based Encoders for Assamese with Corpus Creation	Pragyat Jyoti Baruah (Department of Computer Science and Engineering, Assam University, Silchar); Arnab Paul (Department of Computer Science and Engineering, Assam University, Silchar); Vamanpally Sai Snehal (Department of Computer Science and Engineering, Assam University, Silchar)	
84	A DistilBERT–CNN Late Fusion Framework for Multimodal Emotion Recognition	Dhritiraj Das (CIT Kokrajhar); Nihit Baruah (CIT Kokrajhar); Sajid Hussain (CIT Kokrajhar); Pranav Kumar Singh (Central Institute of Technology Kokrajhar)	
112	Edge-AI based Cardiac Healthcare: Detection of Aortic Stenosis on a Resource Constrained Hardware using Seismocardiogram signal	Sumit Singha (IIT Guwahati); L.N. Sharma (IIT Guwahati); Samarendra Dandapat (IIT Guwahati)	
183	Adaptive Deepfake Detection Using Feedback-Driven Learning	Aman Arora (Punjab Engineering College (Deemed to be University), Chandigarh); Rahul Kumar (Punjab Engineering College (Deemed to be University), Chandigarh); Saksham Gupta (Punjab Engineering College (Deemed to be University), Chandigarh); Sanket Gunaji Patil (Punjab Engineering College (Deemed to be University), Chandigarh); Kanu Goel (Punjab Engineering College (Deemed to be University), Chandigarh)	

		Chandigarh); Amandeep Kaur (Punjab Engineering College (Deemed to be University), Chandigarh)
192	UAV-Driven Infrastructural Crack Detection on Concrete Surfaces and Severity Classification	Gitartha Sarma (Assam University); Isha Singh (Assam University); Bitu Alam (Assam University); Debanon Dey Purkayastha (Assam University); Mousum Handique (Assam University)
211	DeepBalance: A Multi-Objective Framework for Mitigating Personalization Challenges in News Recommendation Systems.	Dhanjit Kalita (Tezpur University); Tribikram Pradhan (Tezpur University); Subham Roy (Tezpur University)
265	Comparative Evaluation of Classical and Transfer Learning Models for MRI-Based ACL Tear Detection	Elna Singh (Delhi Technological University); Ruchika Malhotra (Delhi Technological University); Subodh Mor (President of The Sports Rehabilitation association of India)
299	Detection and Mitigation of Data Poisoning in Financial LLMs using a Hybrid Static-Dynamic Framework	heth shah (PES UNIVERSITY); Achyuth H (PES University); Sarasvathi V (RV University); Vinodha K (PES University)
314	Impact of Patellar Tendon Bearing Orthosis on Gait Symmetry and Mobility in Individuals with Degloving injury of foot: A Case Study	Lipika Boruah (IIT Guwahati); Arnab Sarmah (IIT Guwahati); Santosha Kumar Dwivedy (IIT Guwahati); Subramani Kanagaraj (IIT Guwahati)
324	Iterative and Hardware-Reusable AES-128 Architecture for FPGA and IoT Applications	Varada Inamdar (COEP Technological University); Ashwini Kulkarni (COEP Technological University); Gaurav Nanaware (COEP Technological University)
348	A Modified MobileViT Framework Incorporating Enhanced Ghost Bottlenecks and Parallel Asymmetric Convolutions for Brain Tumor Classification using MRI images	Sunil Kumar (TEZPUR UNIVERSITY); Madhusmita Chakraborty (TEZPUR UNIVERSITY); Deepika Hazarika (TEZPUR UNIVERSITY); Vijay Nath (TEZPUR UNIVERSITY)
349	Hardware Efficient Approximate Convolution with Tunable Error Tolerance for CNNs	Vishal Shashidhar (IIT, Guwahati); Anupam Kumari (IIT, Guwahati); Roy Paily (IIT, Guwahati)
369	Assessing Forest Fire Vulnerability Through Live Fuel Moisture Content Prediction Using Ensemble Models	VISHNU TRIPATHI (NIT, Mizoram); Km Sonika (Department of Computer Science and Engineering, NIT Mizoram, Aizawl, Mizoram)
378	Uncertainty Quantification and Calibration in Retinal OCT Classification with CNN and MLP-Mixer Models	Nikhileswara Rao Sulake (Rajiv Gandhi University of Knowledge Technologies, Nuzvid); Sivalal Kethavath (Rajiv Gandhi University of Knowledge Technologies, Nuzvid)
403	A Multimodal Emotion Recognition from EEG and EOG using ERP and Spectral Features	Shruti Agarwal (IIT Kharagpur); Eashita Chowdhury (IIT Kharagpur); Cheruvu Siva Kumar (IIT Kharagpur); Manjunatha Mahadevappa (IIT Kharagpur)
414	Evaluating Lexical and Semantic Features for Unsupervised Text Clustering	Gitartha Talukdar (The Assam Kaziranga University); Rimpa Deka (The Assam Kaziranga University)

417	Evaluation of Open-Source Encoder-only Multilingual Small Language Models for Low-Resource Bengali Language	Kangkan Ray (IIITGuwahati); Rohit Tripathi (IIITGuwahati)
439	Spatiotemporal classification of Litchi Tree Health Using UAV Imagery: A Study on Vegetation Indices and Crown Area Dynamics	Debarun Chakraborty (Tezpur University); Bhabesh Deka (Tezpur University)
458	Unified Startup Risk Assessment: AI Platform for India's Government-VC Collaboration	Kartikeya Pandey (Dwarkadas J. Sanghvi College Of Engineering); Ayushi Singh (Dwarkadas J. Sanghvi College Of Engineering); Karthik Nambiar (Dwarkadas J. Sanghvi College Of Engineering); Nilesh Marathe (Dwarkadas J. Sanghvi College Of Engineering)
473	Analysis of a Neuroadaptive Spectral Mapping Eyewear System for Ocular Homeostasis	Sunil Kumar (National Institute of Technology Kurukshetra); P ARVIND (IIT Bombay); Ramjee Prasad (CTIF Global Capsule)
493	AuxDenseFeatAlign: Auxiliary Dense Feature Alignment for Medical Incremental Learning	Arnab Roy (Independent Researcher); Shubham Bagwari (IIT Jodhpur); Pratik Mazumder (IIT Jodhpur)
494	FPGA-Based Design and Comparison of 1-Trit Ternary ALU	k bhavesh kumar (NIT, Delhi); Jyoteesh Malhotra (NIT, Delhi); Madhu Verma (NIT, Delhi)
506	Performance evaluation of InN-based metal oxide semiconductor field effect transistor	Swati Verma (PDPM IIITDM, Jabalpur)
561	End-to-End Evaluation of Approximate Multipliers for Energy-Efficient CNN Accelerator	ANWESHA DUARA (NIT, SILCHAR); Anupam Kumari (IIT, Guwahati); Roy Paily Palathinkal (IIT, Guwahati)
575	A 45nm Subthreshold CMOS Op-Amp with Adaptive Biasing for Ultra-Low Power Implantable Applications	Debjyoti Chowbey (Tezpur University); Ratul Kumar Baruah (Tezpur University)
620	Hybrid Multi-Feature Fusion with Advanced Augmentation Techniques for Arabic Speech Emotion Recognition	Pushkar Baranwal (Institute of Informatics and Communication University of Delhi); Amit Pundir (Maharaja Agrasen College, University of Delhi); Osamah Mohammed Jasim (Institute of Informatics and Communication University of Delhi); Ashutosh Mani Tripathi (Samarth eGov Institute of Informatics and Communication); Sanjeev Singh (Institute of Informatics and Communication University of Delhi); Geetika Saxena (Maharaja Agrasen College, University of Delhi)*
621	Comparative Investigation of Undoped and Doped Profile of Hexagonal Double Gate Junctionless Field Effect Transistor	Panchita Saikia (CIT, Kokrajhar); Apurba Kumar Raibaruah (CIT, Kokrajhar); Kaushik Chandra Deva Sarma (CIT, Kokrajhar)
642	An Accuracy Aware 8-Bit Fixed-Point MLP Accelerator with Layer-Wise Scaling for Edge ASICs	Mahashweta Borgohain (NIT Silchar); Anupam Kumari (IIT Guwahati); Roy Paily Palathinkal (IIT Guwahati)

690	A Reconfigurable Output Stationary Systolic Array Accelerator for 8-bit Integer Quantized Convolutional Neural Networks	Bishal Sarma (NIT Silchar); Roy Paily Palathinkal (IIT Guwahati); Anupam Kumari (IIT Guwahati)
694	EA-ASnW: Environment Aware Adaptive Spray and Wait Routing for Opportunistic Delay Tolerant Networks	Mala Ahmed (Assam Engineering College); Amrita Bose Paul (Assam Engineering College); Jyoti Prokash Goswami (Assam Engineering College)
697	A Quantum-Inspired Dual-Pipeline Framework for Fake News and Sarcasm Detection using QRNG and QNLP	Zeba Shamsi (NIT); Zeba Shamsi (Lendi Institute of Engineering and technology)
701	Hybrid Adaptive Honeypot Framework for AI-Driven Cyber Threat Detection in Academic Networks	PANKAJ MEHESHRE (Shah and Anchor Kutchhi Engineering College); Nilakshi Jain (Shah and Anchor Kutchhi Engineering College); Rupali Vairagade (Shah and Anchor Kutchhi Engineering College); Vineet Kumar (Cyberpeace Foundation)
702	Attention-Enhanced Swin Transformers for Robust Brain Tumor Classification Under Patient-Level Data Splitting	Latchan Chhetri (Sikkim Manipal Institute of Technology, Sikkim Manipal University); Palash Ghosal (Sikkim Manipal Institute of Technology, Sikkim Manipal University); Ashis Datta (Sikkim Manipal Institute of Technology, Sikkim Manipal University)
706	Radiomics and Deep Learning for IoMT-Integrated Medical Imaging: A Review Toward Context-Aware Decision Support	Aparna Bhattacharjee (Assam University); Sudipta Roy (Assam University); Lalit Singh (NPCIL-BARC)
715	LLM-Augmented Topic Modeling for Public Grievances: A Privacy-Preserving Framework	Rahul Deka (National Informatics Centre); Reetesh Srivastava (National Informatics Centre)*
724	Compact Antenna using Defected Ground Structure shaped with Circle–Pentagon Fractal form with dual-Band K-Band Operation	Kritie Omar (IIIT Naya Raipur ; Thakur Mahima Nuruti (IIIT Naya Raipur); Kumari Tanushree . (IIIT Naya Raipur); Shrivishal Tripathi (IIIT Naya Raipur)
726	A Cascaded Approach for Cross-Lingual Sanskrit-to-English Summarization	Amritesu Pal (Indian Institute of Information Technology, Kalyani); Sanjay Chatterji (Indian Institute of Information Technology, Kalyani)
729	FloodGraph: A Data Re-Uploading Enabled QSVR Framework for Flood Parameter Prediction and Dynamic Graph Updation	Vinayaka Poorma (Center for development of advanced computing in North East); Nagendra Singh (Center for development of advanced computing in North East); Aniket Bambale (Center for development of advanced computing in North East); Jitesh Choudhary (Center for development of advanced computing in North East)
740	Benchmarking GAN Architectures for Underwater Imaging: The Trade-off Between Model Compactness and Real-Time Latency	Dishant Das (Sikkim Manipal Institute of Technology); Roland Singh (Sikkim Manipal Institute of Technology); Ashis Pradhan (Sikkim Manipal Institute of Technology); Palash Ghosal (Sikkim Manipal Institute of Technology)

752	A TCAD-Based Investigation on the Impact of Ferroelectric Material Parameters on Memory Window in MFIS-Based Ferroelectric FETs	abhiyant singh (NIT SILCHAR); Dipjyoti Das (NIT SILCHAR)
754	Performance enhancement of Forksheet FET architecture through TCAD-guided design variations	Partha Pratim Goswami (NIT Meghalaya); Bibhas Manna (NIT Meghalaya); Jagritee Talukdar (NIT Meghalaya India)
756	RF-Robust Payload-Invariant Noise-Masked Low Probability of Intercept Waveform Synthesis with Authenticated Encryption for Software Defined Radio Links	Ambuj Sharma (Student); Gaurav Sharma (MCTE); Sumit Gautam (IIT Indore)
760	Object Specific Explainable Framework For Thermal Images Using Synergistic Approach Integrating YOLO, SAM and RISE Models	Trisha Kundu (IIIT Bhagalpur); Thejaswini M (IIIT Bhagalpur)
761	Dual-Material InGaAs/InP Heterostructure Extended-Gate TFET for Ultra-Sensitive Label-Free Biosensing	Bidyasagar Hazarika (Assam Engineering College, Jalukbari, Guwahati); Devapran Kalita (Assam Engineering College, Jalukbari, Guwahati); Diksha Banskota (Assam Engineering College, Jalukbari, Guwahati); Nishant Hazarika (Assam Engineering College, Jalukbari, Guwahati); Shibani Baruah (Assam Engineering College, Jalukbari, Guwahati); Dr. Bijoy Goswami (Assam Engineering College, Jalukbari, Guwahati)
771	An Empirical Study of MuRIL-based architectures for Hindi Health Domain NER	Shreyansh Mishra (Visvesvaraya NIT); Shubham Pandere (Visvesvaraya NIT); Dr. Saugata Sinha (Visvesvaraya NIT)
776	De-Queue: Privacy-Preserving Decentralized Crowd Management Through Semantic-Aware Epidemic Protocols	Satya Prakash (Nist University); Antaryami Sahu (Nist University); Bharata Roshan Sahu (Nist University); Satyam Singh (Nist University); Sambit Kumar Shukla (Indian Institute of Science Education and Research Berhampur)
779	Efficient 3D Lung Nodule Segmentation via Knowledge Distillation: Compressing SwinUNETR to MobileUNet3D for Edge Deployment	Kowshik Padala (Amrita Vishwa Vidyapeetham); Dinesh Chappidi (Amrita Vishwa Vidyapeetham); Rahul Thota (Amrita Vishwa Vidyapeetham); Teja Sai Sathwik Peruri (Amrita Vishwa Vidyapeetham); Simi Surendran (Amrita Vishwa Vidyapeetham)
782	Story Generation via Interaction between Human and Large Language Model	Sai Krishna Jupally (IIT Bhubaneswar); Abhik Jana (IIT Bhubaneswar); Manoranjan Satpathy (IIT Bhubaneswar)
786	ECG Signal Processing: From Conventional Methods to AI-Driven Approaches	Saroja Panda (NIT Sikkim); Dr. Varun Gupta (NIT Sikkim); Dr. Hemant Kumar Kathania (NIT Sikkim)
792	GCP-GraphRAG: A Multimodal and Multilingual Graph-Based Retrieval-	Harshverdhan Soni (Centre for Development of Advanced Computing); PARIKSHIT SAIKIA (NIT

	Augmented Generation Framework with Graph Context Pruning	Silchar); Badal Soni (NIT Silchar); Jitesh Choudhary (Centre for Development of Advanced Computing)
803	S ² DCS ² : A Semi-Supervised Framework for Plant Disease Classification Using Spatial-Spectral Consistency and EMA-Based Teacher Guidance	Poonam Moral (Birla Institute of Technology, Mesra); Chirashri Bhattacharya (Birla Institute of Technology, Mesra); Neha Kumari (Birla Institute of Technology, Mesra); Debjani Mustafi (Birla Institute of Technology, Mesra)
807	A Temporally Augmented Graph Attention Network for Affordance Classification	Ami Chopra (Indian Institute of Technology, Guwahati); Supriya Bordoloi (Indian Institute of Technology, Guwahati); Shyamanta Hazarika (Indian Institute of Technology, Guwahati)
817	Benchmarking Quantum Classifiers for Sonar-Based Mine Detection	Shirsha Nag (Future Institute of Technology); Pubali Ray (Future Institute of Technology); Mohore Mukhopadhyay (Future Institute of Technology); Prakriti Ghosh (Future Institute of Technology); Spandan Das (Future Institute of Technology); Tuli Bakshi (Future Institute of Technology)
824	SOHI: A Dataset of Offline Handwritten Assamese Signatures	Darshita Kalita (Assam Don Bosco University); Siddhartha Bayan (Assam Don Bosco University); Suhair Warish Rahman (Assam Don Bosco University); Dr. Smriti Priya Medhi (Assam Don Bosco University)
855	Empirical Analysis of Generative Adversarial Networks for Day to Night Translation	Mrinmoy Kalita (Assam Don Bosco University School of Technology); Sidhant Ranjan Medhi (Assam Don Bosco University School of Technology); Rajneesh Rana (Assam Don Bosco University School of Technology); Syed Sazzad Ahmed (Assam Don Bosco University)
860	An Explainable Bi-LSTM-based Intrusion Detection System with Hybrid Feature Selection for NSL-KDD Dataset Analysis	Upendra Chaurasiya (NIT Raipur); Dr. Rakesh Tripathi (NIT Raipur); Dr. Tirath Prasad Sahu (NIT Raipur); Raunak Kumar (NIT Raipur)
875	Quaternary Huffman Encoder For JPEG-DNA	Rajlakshmi Gurumayum (IIITGuwahati); Hrishikesh Baruah (IIITGuwahati)
880	Adaptive Token Gating for Sparse Language Models: Single-Path Expert Routing at Scale	Abhishek Kumar (IISc Bangalore)

Friday, ORAL SESSION (5th June 2026), Day 3

Oral Session 4A: 9:15 AM – 10:45 AM

Room: Conference Hall 1

Paper ID	Paper Title	Authors	From	To
302	CardioSNN: A Hardware-Implemented Spiking Neural Network Model for Cardiac Arrhythmia Classification	Samanway Ghosh (NIT Rourkela); Md Samsh Tabrej (Veer Surendra Sai University of Technology, Burla); Anusaka Gon (Veer mata Jijabai Technological Institute, Mumbai); Atin Mukherjee (NIT Rourkela)	9:15 AM	9:30 AM
466	FPGA Implementation of CNN for Digit Recognition	Abhishek Choudhary (IIIT Bhagalpur); Ashish Kumar (IIT Guwahati); Manas Kamal Bhuyan (IIT Guwahati); Sanjay Kumar (IIIT Bhagalpur); Sandeep Raj (IIIT Bhagalpur)	9:30 AM	9:45 AM
576	Mass Sensor equipped with Electrochemical cell for Metal Ions Analysis through Unsupervised Learning Algorithm	Parul Taneja (IIT Guwahati)	9:45 AM	10:00 AM
615	Design and development of a tactile sensor using inkjet printing for humanoid applications	Labesh Kumar Garg (IIT Guwahati); Anita Gupta (IIT Guwahati); Dr. Ravindra Kumar Jha (IIT Guwahati)	10:00 AM	10:15 AM
703	Design, Synthesis, and Chemiresistive Evaluation of Polyvinylpyrrolidone Stabilized Zinc Oxide Nanoparticle Based Alcohol Sensors	Sneha Dey (Assam Engineering College); Sohini Bhattacharjee (Assam Engineering College); Ranisha Choudhury (Assam Engineering College); Rashi Borgohain (Assam Engineering College)	10:15 AM	10:30 AM
616	Non-Contact Speech Classification Using MOF Based Humidity Sensors and Machine Learning	Rahul Kumar (IIT Guwahati); Anita Gupta (IIT Guwahati); Arindam Majhi (IIT Guwahati); Dr. Ravindra Kumar Jha (IIT Guwahati)	10:30 AM	10:45 AM

Oral Session 4B: 9:15 AM – 10:45 AM

Room: Conference Hall 2

Paper ID	Paper Title	Authors	From	To
770	Analog and RF Performance of MgZnO/ZnO Heterojunction Thin-Film Transistors	Raman Kumar Raman (IIIT Bhagalpur); Prabhat Kumar (IIIT Bhagalpur); Sandeep Raj (IIIT Bhagalpur); Sanjay Kumar (IIIT Bhagalpur)	9:15 AM	9:30 AM
799	Design and Implementation of NISQ-Compatible Quantum Machine Learning Models for Hardware Security	birinderjit singh (Chandigarh University); Ashima Shahi (CGC University)	9:30 AM	9:45 AM

885	An Energy-efficient TSO dual-Vdd 22 nm 8T MSD XOR Gate for Gray-to-Binary Encoder Design	Amarnath Samanta (Narula Institute of Technology, Kolkata); Jehan Taraporewalla (IIT Delhi, New Delhi); Biswajit Das (Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex, Kolkata); Dipankar Saha (Narula Institute of Technology, Kolkata)	9:45 AM	10:00 AM
858	Design of Wearable Compact Perturbed Multiband Antennas on Denim for 5G Mobile and Wi-Fi MIMO Applications	Puja Mowar Banik (University Of Engineering and Management)	10:00 AM	10:15 AM
889	Slotted Racetrack Ring Resonator for Label-Free Blood Viscosity Sensing: Design and Analysis	Shamshad Alam (IIT Guwahati); Uttara Biswas (IIT Guwahati); Mohd Mansoor Khan (IIIT Guwahati); Ramesh Kumar Sonkar (IIT Guwahati)	10:15 AM	10:30 AM
869	Design and Analysis of an Enhanced Current-Starved Ring VCO Using NMOS-Only Stacked Delay Cells	Saurabh Kumar (Motilal Nehru NIT Allahabad); Vikas Tiwari (Motilal Nehru NIT Allahabad); Vinay Kumar (Motilal Nehru NIT Allahabad); Santosh Kumar Gupta (Motilal Nehru NIT Allahabad); R. K. Nagaria (Motilal Nehru NIT Allahabad)	10:30 AM	10:45 AM

Oral Session 4C: 9:15 AM – 10:45 AM**Room: Conference Hall 3**

Paper ID	Paper Title	Authors	From	To
204	High Q-factor Wide-angle Terahertz Metasurface Perfect Absorber for Methane Gas Sensing Application	Preeti Preeti (IIT Roorkee); Ranjit Kumar Vishwakarma (IIT Roorkee); Ashish Kumar Chowdhary (IIT Roorkee)	9:15 AM	9:30 AM
362	A High-Sensitivity Fiber Bragg Grating Based Inclinator Using Wavelength-to-Time Mapping Interrogation	RANDHIR SAH (Shri Mata Vaishno Devi University Katra, J&K); Amitesh Kumar (IIT Dhanbad); Santosh Kumar (Central Mechanical Engineering Research Institute (CMERI, Durgapur)); Mandalapu Geetha Amrutha (IIT Dhanbad); Gaurav Kumar (IIT Dhanbad)	9:30 AM	9:45 AM
443	Finite Element Analysis based Photonic Crystal Fiber Sensor for blood group detection	PARTHIBAN MANICKAM (VEL TECH HIGH TECH Dr RANGARAJAN Dr SAKUNTHALA ENGINEERING COLLEGE); Kalyan Kumar Reddy JONNAVARAM (VELLORE INSTITUTE OF TECHNOLOGY); Revathi Senthil (Vellore Institute of Technology)	9:45 AM	10:00 AM

500	PDFA-Assisted Hybrid Optical Link Combining UWOC, Fiber, and FSO for Underwater Optical Sensing	Krishna Sarma (IIIT Guwahati); Mohd Mansoor Khan (IIIT Guwahati); Ramesh Kumar Sonkar (IIT Guwahati)	10:00 AM	10:15 AM
749	Resilience in Terahertz Topological Waveguides: A Robust Design for Defect Tolerance	Dibaskar Biswas (IIT Guwahati); Sourodipto Das (IIT Guwahati); Tushar Shah (IIT Guwahati); Amit Baran Dey (IIT Guwahati); Lokesh Sharma (IIT Guwahati); Debabrata Sikdar (IIT Guwahati)	10:15 AM	10:30 AM
730	Multiple Substrate Based Cognitive Radio Antenna for Commercial Ultra-Wideband and 5G FR-2 Spectrum Access	Aamir Shafi Khan (NIT Jamshedpur); Aman Anand (NIT Jamshedpur); Kanishk Kumar Barnwal (NIT Jamshedpur); Amit Kumar Roushan (NIT Jamshedpur); SURAJIT KUNDU (NIT Jamshedpur)	10:30 AM	10:45 AM

Oral Session 4D: 9:15 AM – 10:45 AM**Room: Conference Hall 4**

Paper ID	Paper Title	Authors	From	To
741	A Filtered-x Bias-Compensated Iterative Wiener Filter Algorithm for Active Noise Control System with Noisy Reference Signals	Akhilesh Navalkar (Visvesvaraya NIT, Nagpur); Parakh Agrawal (Visvesvaraya NIT, Nagpur); Punitkumar Bhavsar (Visvesvaraya NIT, Nagpur); Vinal Patel (IIITM, Gwalior)	9:15 AM	9:30 AM
868	Vibe Coding Vs Reality: Can LLMs Help Us In Playing Simulated Table Tennis Through A Musculoskeletal Model?	Ankur Jyoti Sarma (Gauhati University); Rupam Bhattacharyya (Gauhati University)	9:30 AM	9:45 AM
397	PRAVAH: A Multi-Layered Closed-Loop Architecture for Autonomous Traffic Signal Control and Predictive Traffic Management	Dr. Rohit Kaliyar (Bennett University)	09:45 AM	10:00 AM
838	ML Based Disaster Rescue Drone System Using YOLOv8 and Real-Time Dashboard Visualization	Sudin Saikia (Assam Engineering College); Hansik Sarma (Assam Engineering College); Kangkana Bora (Assam Engineering College); Ananya Choudhury (Assam Engineering College)	10:00 AM	10:15 AM
835	Quantum Circuit Placement in Hybrid Neural Networks: An Empirical Analysis of Early versus Late Fusion Architectures	Punarva C (IIT Guwahati); Venugopal K (RV College of Engineering)	10:15 AM	10:30 AM

832	Direct Reinforcement for Derivatives: Enhancing Intraday Deep Hedging via Risk-Averse Reward Shaping	Keyurkumar Panchal (Pandit Dindayal Energy University); Jigarkumar Shah (Pandit Dindayal Energy University)	10:30 AM	10:45 AM
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Oral Session 5A: 11:45 AM – 1:15 PM**Room:** Conference Hall 1

Paper ID	Paper Title	Authors	From	To
411	Optimizing UAV-RIS Integration in Wireless Communication Through Genetic Algorithm	Vishwas Srivastava (ABV-IIITM Gwalior); Aditya Pote (ABV-IIITM Gwalior); Binod Prasad (ABV-IIITM Gwalior)	11:45 AM	12:00 PM
454	Analyzing Hardware Efficiency in Single-Stream versus Dual-Stream CNN Architectures for 5G Channel Estimation	Mrinmoy Pathak (Girijananda Chowdhury University, Assam); Monisha Devi (Assam Skill University, Assam)	12:00 PM	12:15 PM
491	Phys-LPS: A Physics-Aware TinyML Framework for Latency-Resilient Threat Detection in Smart Grids	Ng Kamba Romeo (NIT Nagaland)	12:15 PM	12:30 PM
622	Rule-Based Formal Verification of Data Integrity in Data-Driven Software Systems	Anwasha Kashyap (IIITGuwahati); Angshuman Jana (IIITGuwahati)	12:30 PM	12:45 PM
665	Design and Development of an ML/DL Attack Resistance of RC-Based PUF for IoT Security	MOHENDRA ROY (Pandit Deendayal Energy University)	12:45 PM	1:00 PM
888	A Note on the Capacity of $G_{m,r}$ Networks for Fixed Message Dimensions	Vikrant Singh (IIT Guwahati); Brijesh Kumar Rai (Independent Researcher); Tony Jacob (IIT Guwahati)	1:00 PM	1:15 PM

Oral Session 5B: 11:45 AM – 1:15 PM**Room:** Conference Hall 2

Paper ID	Paper Title	Authors	From	To
599	Swin-Guided Token Pruning with Gated Fusion for Alzheimer's Disease Stage Classification from MRI	CHANDITA BARMAN (IIIT GUWAHATI); Shovan Barma (IIIT GUWAHATI)	11:45 AM	12:00 PM
602	Geospatial Assessment of Carbon Stocks Using Remote Sensing and Machine Learning: A Framework towards Carbon Estimation	Gwjwngthi Narzary (Central Institute of Technology Kokrajhar); Monalisha Roy (Central Institute of Technology Kokrajhar); Pranav Kumar Singh (Central Institute of Technology Kokrajhar)	12:00 PM	12:15 PM
617	Design of a Lightweight Embedded FPGA Hardware Accelerator for Fast Super Resolution Convolutional Neural Network Framework	Manash Pratim Hazarika (Tezpur University); Bhabesh Deka (TEZPUR UNIVERSITY)	12:15 PM	12:30 PM

618	Severity-Aware Forecasting of Rice Diseases from Agro-Meteorological Time Series	Dipankar Sarma (IIIT Guwahati); Ayanima Maity (Formicary Innovation Labs); Popy Bora (Assam Agricultural University); Bidyut Sarma (Assam Agricultural University); SUDIP BISWAS (IIITG)	12:30 PM	12:45 PM
619	Explainable Crowd Counting: Transfer Learning Approaches with Grad-CAM Insights	Neelam Chaplot (Manipal University Jaipur); Jakub Milasz (AGH University of Krakow)	12:45 PM	1:00 PM
631	An EfficientNet-B3 Based Framework for Automated Multi-Class Crop Identification in Orthomosaic Maps	Shruti Soni (IIIT Naya Raipur); Aparajita Vaish (IIIT Naya Raipur); Shrivishal Tripathi (IIIT Naya Raipur)	1:00 PM	1:15 PM
Oral Session 5C: 11:45 AM – 1:15 PM				
Room: Conference Hall 3				
Paper ID	Paper Title	Authors	From	To
677	Performance Analysis of Near-Field THz MU-MIMO Precoding with Power Focusing and Molecular Absorption	Sayantana Das (IIIT Guwahati); Mallena Vardhan (IIIT Guwahati); Sudip Biswas (IIIT Guwahati)	11:45 AM	12:00 PM
687	A Novel Adaptive Dual Phase Hybrid Time Switching-Power Splitting Protocol for IoT Networks	Priyanshu Bhattacharya (Gauhati University); Mahua Sinha (Gauhati University); Nabarun Chakraborty (Gauhati University); Surajit Deka (Gauhati University); Aradhana Misra (Gauhati University); Kandarpa Kumar Sarma (Gauhati University)	12:00 PM	12:15 PM
811	A Low-Cost Open-Source Private 5G Lab Testbed Design	Goutam Kumar (Dayalbagh Educational Institute)	12:15 PM	12:30 PM
823	IQuHF: Intelligent Quantum-Hybrid Framework for Secure Medical Image Watermarking	Nayra Nihal (NIT Manipur); Ujjwal Biswas (NIT Manipur); Om Prakash Singh (IIIT Bhagalpur); Pradeepkumar Bhale (IIITDM Kancheepuram)	12:30 PM	12:45 PM
856	Towards Reliable V2X Communication Using Visible Light Communication	ISFAQUR ISLAM (Gauhati University); Aradhana Misra (Gauhati University); Anjan Kumar Talukdar (Gauhati University)	12:45 PM	1:00 PM
203	Charging-Aware Hybrid Deep Q-Learning for Stable Energy-Constrained UAV Navigation	Vikash Sharma (Motilal Nehru NIT Allahabad, Prayagraj - 211004, INDIA); Saugata Roy (Motilal Nehru NIT Allahabad, Prayagraj - 211004, INDIA)	1:00 PM	1:15 PM

Oral Session 5D: 11:45 AM – 1:15 PM**Room:** Conference Hall 4

Paper ID	Paper Title	Authors	From	To
645	A Residual Attention Framework for Corn Leaf Disease Diagnosis Under Resource Constraints	Priyanka Kokil (IIIT Design and Manufacturing, Kancheepuram, Chennai); Peruvazhuthi S (IIIT Design and Manufacturing, Kancheepuram, Chennai)	11:45 AM	12:00 PM
658	Feature Representation Matters: An Empirical Analysis of Lightweight Vegetable Classification	Inmozhi Mangai (IIT Guwahati)	12:00 PM	12:15 PM
670	A Plaque-Adaptive Tensor-Based Speckle Reducing Anisotropic Diffusion Framework for Carotid Ultrasound Image Enhancement	Naga Prudhvi Raj Vattikuti (Siddhartha academy of higher education); Samiappan Dhanalakshmi (SRM Institute of Science and Technology)	12:15 PM	12:30 PM
689	Enhancing the CameraEEG Application for Realtime Drowsiness Detection using Video Data	Shivani Mittal (IIT, Guwahati); Doli Hazarika (IIT, Guwahati); Vishnu Narayanan (IIT Guwahati); Cota Navin Gupta (IIT, Guwahati)	12:30 PM	12:45 PM
709	An Attention-Guided Dual-CNN Feature Fusion and GA-Based Optimization Framework with Meta-Ensemble Classification for Preventing Non-Consensual Sexting	Debashis Das (NIT Silchar); Dr. Shankar K. (NIT Silchar); Sudarsan Sahoo (NIT Silchar)	12:45 PM	1:00 PM
717	Design and Development of Smart Optoelectronic Sensor for Rapid Detection of Lead Chromate Adulteration in Turmeric-Spice	Mohd Mansoor Khan (IIIT Guwahati); Vishakha Kanwar Rathore (IIIT Guwahati); Ramesh Kumar Sonkar (IIT Guwahati)	1:00 PM	1:15 PM

Oral Session 6A: 2:15 PM – 3:45 PM**Room:** Conference Hall 1

Paper ID	Paper Title	Authors	From	To
624	Bert5 - A Hybrid BERT and T5 based Pipeline for Sentiment-Aware E-Commerce Question Answering System	Khushboo Jain (IIIT, Nagpur); Himanshu Raj (IIIT, Nagpur); Abhiudai Shahi (IIIT, Nagpur)	2:15 PM	2:30 PM
626	Performance Benchmarking of Quantized Large Language Models on CPU-only Systems	Aman Yadav (NIT Raipur); Manju Pandey (NIT Raipur)	2:30 PM	2:45 PM
629	Early Epileptic Seizure Prediction Using a Hybrid CNN-BiLSTM Model with Adaptive Activity Index Optimization	Ankita Bose (Gandhi Institute of technology and Management); C Karthik Reddy (Gandhi Institute of technology and Management); B V Dushyanth (Gandhi Institute of technology and Management); Raghavendra K (National Institute of Mental Health and Neurosciences); Subhas Konar (National Institute of Mental Health)	2:45 PM	3:00 PM

		and Neurosciences); O Nithin Sai Balaji (Gandhi Institute of technology and Management)		
635	ANN- BASED FAULT DETECTION IN GRID SYSTEMS	Karthik Gururaj Naik (Dr. Ambedkar Institute of Technology); Dr Arpitha Raju B (Dr. Ambedkar Institute of Technology)	3:00 PM	3:15 PM
640	Deep Learning with Cross-Scale Attention for Multi-Scale Person Re-Identification	Vitthal Krishna (KIIT); Shreyanshu Ranjan (KIIT); Sparsh Bajoria (KIIT); Vianca Choudhary (R.V College of Engineering)	3:15 PM	3:30 PM
650	Classification of Poison Attacks in Extreme Non-IID Federated Learning	Hema Senthil Murugan (Amrita Vishwa Vidyapeetham); Greeshma Sarath (Amrita Vishwa Vidyapeetham)	3:30 PM	3:45 PM
Oral Session 6B: 2:15 PM – 3:45 PM				
Room: Conference Hall 2				
Paper ID	Paper Title	Authors	From	To
696	Efficient Dragon Fruit Detection with SF2D-Net: An efficient model architecture for dragon fruit detection in Adversarial environment	Kyamelia Roy (Siliguri Govt. Polytechnic); Subharthi Ray (Jadavpur University); Sinjita Gayen (Jadavpur University); Sheli Sinha Chaudhuri (Jadavpur University); Chanchal Chakraborty (ATM Towers)	2:15 PM	2:30 PM
104	Mapping GWAS-derived Genetic Variants to Mental Illness via Machine Learning	Hamssini K P (BMS College of Engineering); Khushi Katakam (BMS College of Engineering); Komala M B (BMS College of Engineering); Palak Palak (BMS College of Engineering); Rashmi K B (BMS College of Engineering); Shobana T S (BMS College of Engineering)	2:30 PM	2:45 PM
141	NIHM: A Nature-Inspired Intelligent Hybrid Model for Smart Crop Yield Prediction	PINKY DUTTA (ASTU); AMRITA BOSE PAUL (AEC); SUBHRAJYOTI BORDOLOI (AEC)	2:45 PM	3:00 PM
175	A collaborative use of multiple heuristics for the continuous multi-objective optimization problems	Kalol Bera (Haldia Institute of Technology); Somnath Mukhopadhyay (Assam University); Manas Maiti (Mahishadal Raj College)	3:00 PM	3:15 PM
182	Cardiovascular Disease Detection using Supervised Machine Learning: An Empirical Study	Susmita Sharma (Tezpur University); Dhruba Bhattacharyya (Tezpur University); Mriganka Chaliha (Assam Medical College and Hospital)	3:15 PM	3:30 PM
185	Decreased Beta and Gamma Band Power following Mantra Exposure: An EEG Analysis in Expectant Mother	Daisy Das (Gauhati University); Nabamita Deb (Gauhati University); Saswati Sanyal choudhury (Gauhati Medical College and Hospital)	3:30 PM	3:45 PM

Oral Session 6C: 2:15 PM – 3:45 PM**Room:** Conference Hall 3

Paper ID	Paper Title	Authors	From	To
370	Offensive Meme Detection in Low-Resource Punjabi Language Using Vision–Language Transformers	VISHNU TRIPATHI (NIT, Mizoram); Km Sonika (Department of Computer Science and Engineering, NIT Mizoram, Aizawl, Mizoram)	2:15 PM	2:30 PM
384	Learning Betweenness Centrality–Based important nodes with Cross-Graph Generalization using Graph Neural Networks	Gargee Handique (IIITGuwahati); Rohit Tripathi (IIITGuwahati)	2:30 PM	2:45 PM
373	Trajectory Prediction considering Behaviours using Learning-based and Model-based Approaches	VISHNU TRIPATHI (NIT, Mizoram); Vaibhav Malviya (NIT, Mizoram); Rahul Kala (Center for Autonomous Systems, ABV-IIITM Gwalior)	2:45 PM	3:00 PM
389	Traffic Sign Recognition with Voice Assistance Using Optimized Curvelet Entropy Features	Banhi Sanyal (NIT Kurukshetra); Surja Sanyal (IIT Guwahati)	3:00 PM	3:15 PM
401	EEG Seizure Detection Using a Lightweight TCN–Self-Attention Network with Adaptive Token Pooling	Ashish Gupta (IIIT Guwahati); Upasana Talukdar (IIIT Guwahati); Shyamanta M. Hazarika (IIT Guwahati)	3:15 PM	3:30 PM
404	Hybrid Black–Scholes and Deep Learning Model for Enhancing Option Pricing Prediction Accuracy	Varsha Sakhare (IIIT Nagpur); Jagdish Chakole (IIIT Nagpur); Kaushlendra Sharma (IIIT Nagpur)	3:30 PM	3:45 PM

Oral Session 6D: 2:15 PM – 3:45 PM**Room:** Conference Hall 4

Paper ID	Paper Title	Authors	From	To
503	A Hybrid Spell Checking Model for the Assamese Language Using Convolution Based Embeddings	Pragyat Baruah (Department of Computer Science and Engineering, Assam University Silchar); Tirthanka Borah (Department of Computer Science and Engineering, Assam University Silchar); Arnab Paul (Department of Computer Science and Engineering, Assam University Silchar)	2:15 PM	2:30 PM
559	DWX-Net: A Daubechies Wavelet-enhanced Xception Network for Breast Ultrasound Lesion Classification	Britika Khatai (Jadavpur University); Sayan Mukherjee (Jadavpur University); Asya Lyanova (St. Petersburg Electrotechnical University "LETI"); Dmitrii Kaplun (St. Petersburg Electrotechnical University "LETI"); Ram Sarkar (Jadavpur University)	2:30 PM	2:45 PM
583	Multi-class Epileptic EEG Classification using a Compact	Bikash Bora (Gauhati University); Bikash Nath (Gauhati University);	2:45 PM	3:00 PM

	Convolutional Neural Network for Clinical Brain–Computer Interfaces	Daisy Das (Gauhati University); Nabamita Deb (Gauhati University)		
597	A Hybrid Deep Learning Framework for Five-Class Ordinal Diabetic Retinopathy Severity Grading	Harshita Sharma (University of Delhi); Nitisha Aggarwal (University of Delhi); Geetika Jain Saxena (University of Delhi); Sanjeev Singh (University of Delhi); Amit Pundir (University of Delhi)	3:00 PM	3:15 PM
611	CNN-GRU with Multi-Head Attention based Lightweight Model for Human Activity Recognition	Puja Datta (NIT Silchar); Badal Soni (NIT Silchar); Gyanda Kaushal (NIT Silchar, Assam)	3:15 PM	3:30 PM
663	Design and Validation of a Hybrid PLA-TPU Tendon-Driven Finger Exoskeleton for Rehabilitation Applications	Nikunja Kumar (Tezpur University); Niyor Dohotia Khound (Tezpur University); Zahnupriya Kalita (Tezpur University); Nayan M Kakoty (Tezpur University)	3:30 PM	3:45 PM