



2026 IEEE DISCOVER
10th IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics
October 9-10, 2026
Organized by IEEE Mangalore Subsection at Vivekananda College of Engineering and Technology, Puttur



Date	Time	Event				Venue					
Day 1											
09-10-2026 Friday	8:30 AM - 9:30 AM	Registration				Sudharshan Block.					
		Breakfast				Library Study Center, Ground Floor, Krishna Chethana Block.					
	9:30 AM - 10:30 AM	Inauguration of The Conference Guests: Navakanth Bhat, Prasant Misra				Savarkar Sabha Bhavana, 3rd floor, Krishna Chethana Block					
		Key Note Address Speaker: Prof. Navakanth Bhat, IISc, Bengaluru Topic: Semiconductor VLSI Technology for AI Sensors and Beyond									
	11:30 AM - 11:45 AM	Tea Break									
	11:45 AM - 1:00 PM	Paper Presentation Sessions									
		Session ID	Track	Venue	Paper IDs						
		D1	Distributed Computing	Venue: A303	1023	668	736	697	453		
		D2		Venue: A305	519	786	792	555	934		
		H1	Healthcare	Venue: A325	971	533	828	740	876		
		V1	VLSI	Venue: A312	1030	643	427	467	758		
		E1	Electrical Circuits	Venue: A229	944	710	1027	966	986		
	C1	Communications	Venue: A322	807	689	778	880	720			
	1:00 PM - 2:00 PM	Lunch Break				Library Study Center, Ground Floor, Krishna Chethana Block.					
	2:00 PM - 3:00 PM	Panel Discussion Topic: Research & Innovation: Quality, Quantity and Ethical Dimensions in the Evolving Research Landscape. Panelists: 1. Dr. Navakanta Bhat, IISc Bengaluru 2. Dr. Prashant Misra, Distinguished Senior Scientist, TCS 3. Mr. Kuldeep Dongre, Data Science Director, Dell 4. Dr. Ambar Bajpai, GITAM University, Bengaluru Moderator: Dr. Ajit Hebbar Hosmata, VCET Puttur				Savarkar Sabha Bhavana, 3rd floor, Krishna Chethana Block					
3:00 PM - 3:15 PM	Tea Break										
3:30 PM - 5:00 PM	Paper Presentation Sessions										
	Session ID	Track	Venue	Paper IDs							
	D3	Distributed Computing	Venue: A303	931	941	998	1003	526			
	D4		Venue: A305	592	793	759	820	581			
	H2	Healthcare	Venue: A325	988	1009	529	761	809	472		
	V2	VLSI	Venue: A312	1032	1038	943	797	657			
	E2	Electrical Circuits	Venue: A229	769	965	919	739	830	102		
C2	Communications	Venue: A322	498	497	518	881	774				
5:00 PM - 6:00 PM	Break										
6:00 PM - 7:00 PM	Cultural Programmes				Savarkar Sabha Bhavana, 3rd Floor, Krishna Chetana Block						
7:00 PM - 8:30 PM	Banquet Dinner				Krishna Chethana Block.						
Day 2											
10-10-2026 Saturday	8:30 AM - 9:30 AM	Registration				Sudharshan Block.					
		Breakfast				Library Study Center, Ground Floor, Krishna Chethana Block.					
	9:30 AM - 11:15 AM	Paper Presentation Sessions									
		Session ID	Track	Venue	Paper IDs						
		D5	Distributed Computing	Venue: A303	706	489	771	582	795		
		D6		Venue: A305	471	1042	798	528	1033		
		H3	Healthcare	Venue: A325	839	916	785	760	861	984	
		H4		Venue: A326	804	978	655	962	890	1022	
		V3	VLSI	Venue: A312	765	1035	374	686	790		
	C3	Communications	Venue: A322	277	672	796	753	1031			
	11:15 AM - 11:30 AM	Tea Break									
	11:30 AM - 12:30 PM	Invited Talk 1 Speaker: Dr. Swetha Amit, Smart Beam Resonetics, Bengaluru Topic: From Integrated Sensing and Communication to 6G Shaping the Next Wave of Intelligent Connectivity				Savarkar Sabha Bhavana, 3rd floor, Krishna Chethana Block					
	12:30 PM - 1:30 PM	Lunch Break									
1:45 PM - 2:45 PM	Invited Talk 2 Speaker: Sudharshan Shenvi, Blute Technologies, Bengaluru Topic: Distributed Intelligence: Engineering Production AI Systems at Scale				Savarkar Sabha Bhavana, 3rd floor, Krishna Chethana Block						
3:00 PM - 3:45 PM	Valedictory Program										
3:45 PM - 4:30 PM	High Tea										

Track	Distributed Computing	
Session ID	D1	
Date and Time	09-10-2026 11.45 AM - 01:00PM	
ID	Title	Authors
1023	A Lightweight Digital Twin Methodology for Edge-based IoV Resource Management	Akhil Nigam (National Institute of Technology Karnataka)*; Anshul Chauhan (National Institute of Technology Karnataka); Pramodh Krishna (National Institute of Technology Karnataka); Biswajit Bhowmik (National Institute of Technology Karnataka)
668	Sequential Machine Learning Pipeline for Multivariate Prediction of Conviction Outcomes Charge Severity and Recidivism in Criminal Justice	Ankitha Shetty (NMAMIT, Nitte)*; Akshay Maruti Gaonkar (NMAMIT,Nitte); Joelle Saldanha (NMAMIT, Nitte); Sankirthan Rao (NMAMIT,Nite)
736	Agentic AI-Based Transaction Safety Triage Using Runtime Enforcement, Repair, Reflection and Policy Monitoring	Aditya Sakalekar (NMAM Institute of Technology, Nitte); Desai Karanam Sreekantha (NMAM Institute of Technology, Nitte)*; Dinesh Naik (National Institute of Technology, Karnataka)
697	VAFTD: Variety-Aware Forensic Transformation Detection for Zero-Shot Ransomware Classification in Big Data Environments	sneha N S (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India)*; Krishna Prakasha K (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India); Srikanth Prabhu (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India)
453	SOLAR-MIND An AI-Driven Framework for Smart Residential Energy Management	Prashanth Kumar A (Canara Engineering College); Ranganatha K (Canara Engineering College); Ishita Gurav (Canara Engineering College)*; Anvita Naik (Canara Engineering College); Darshan Gaonkar (Canara Engineering College); Dhanyashri Billava (Canara Engineering College)
Session ID	D2	
Date and time	09-10-2026 11.45 AM - 01:00PM	
ID	Title	Authors
519	Multiple Extended Target Tracking with Radar in the Presence of Clutter using Hybrid Graph Data Association	Manisa panda (Alliance University); Usha Arcot (Alliance University); Neelapala Anil Kumar (Alliance University); Gnan Satapathi (A J Institute of Engineering and Technology)*
786	AI-Enhanced Overlay Mount Broker for Predictive Filesystem Orchestration in Scalable Monorepo Environments	Shameer Erakkath (IEEE); Jose Lejin P J (IEEE)*; Santhosh Kumar Gopalan (IEEE)
792	A Multi-Tenant Fog Computing Testbed with Automated Telemetry Collection for Machine Learning Based Intrusion Detection	Shruti Dangui (St. Aloysius (Deemed to be University), Dnyanprassarak Mandal's College and Research Centre)*; Santhosh B (St. Aloysius (Deemed to be University), Mangalore)
555	AI Driven Targeted Advertising Using Real-Time Age and Gender Detection	Jeevan Bhandary (Presidency University, Karnataka, Bengaluru)*; Bharath S Bhat (Nitte (Deemed to be University)); Srujan U Shetty (Nitte (Deemed to be University)); Archana Bhat (Nitte (Deemed to be University))
934	Hybrid CNN-LSTM Framework for Multi-Year PM2.5 Forecasting Across Indian Cities	Soumyashree Shetty (Nitte university)*; Harish Shetty (The Yenepoya Collge,Moodbidri)
Session ID	D3	
Date and Time	09-10-2026 03:15 PM - 05:00 PM	
ID	Title	Authors
931	An Intelligent Rainfall Prediction and Risk Categorization Framework Using Ensemble Machine Learning with Real-Time Web Deployment	Bharath S Bhat (Nitte Deemed To be University)*; Jeevan Bhandary (Presidency University); Srujan U Shetty (Nitte Deemed To be University)
941	Active Suspension System using Reinforcement Learning	Dhyan A C (Mangalore Institute of Technology & Engineering, Moodabidri); Karthik Poojary (Mangalore Institute of Technology & Engineering, Moodabidri); Keerthan Kumar (Mangalore Institute of Technology & Engineering, Moodabidri); Niriksha Shetty (Mangalore Institute of Technology & Engineering, Moodabidri); Vinayambika S. Bhat (Mangalore Institute of Technology and Engineering)*; Sahana G Kundar (Mangalore Institute of Technology & Engineering, Moodabidri)
998	Experimental Analysis of the HAEG Framework for Adaptive and Contextual Cloud Security Scoring	Som Dev (National Institute of Technology Karnataka)*; Akash Sachan (National Institute of Technology Karnataka); Pratik Kumbharwad (National Institute of Technology Karnataka); Biswajit Bhowmik (National Institute of Technology Karnataka)
1003	Performance Evaluation of Accelerated Matrix Multiplication Using Strassen's Algorithm with OpenMP on CPUs and GPUs	SUSHMITA ROY (IIESTS); AMAL BARMAN (IIESTS)*
526	Edge-AI Wearable For Real-Time Health Monitoring, Intelligent Medical Analysis, and Proactive Alert Management	Pavithra G (Dayananda Sagar College of Engineering)*; roopa m (dsce); shanthu f (dsce); madan m (dsce); mohammed m (dsce); mohith g (dsce)
Session ID	D4	
Date and Time	09-10-2026 03:15 PM - 05:00 PM	
ID	Title	Authors
592	Federated Learning Enabled Intrusion Detection for Distributed IoT Edge Networks	Yashaswini Gowda N (Dayananda Sagar College of Engineering); Swapnil Ninawe (Dayananda Sagar College of Engineering)*; Parvathraj K M M (Srinivas Institute of Technology); Jaishree R Devaru (Dayananda Sagar University); Madhu Latha Veerapaneni (Koneru Lakshmaiah Education Foundation); R V Manjunath (Dayananda Sagar Academy of Technology)
793	Real-Time Adaptive LSTM-DNN Model for Time Series Analysis Using Incremental Learning and Sliding Window Techniques	Amrutha R (Amrita Vishwa Vidyapeetham)*; Eashita Prabhudesai (Amrita Vishwa Vidyapeetham); Amrutha Varshini (Amrita Vishwa Vidyapeetham); Adarsh S (Amrita Vishwa Vidyapeetham)
759	Learning Under Uncertainty Using Topological Data Analysis and Heyting Algebra	Nidhi Vinayak Bhat (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte); Ankitha K (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte)*; Vinayak S Bhat (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte)
820	Machine Learning-Based Analysis of HTTP Security Header Misconfigurations for Web Risk Assessment	S Shyam Kumar (NITTE)*; Harshitha G M (NITTE)

581	Adaptive Ring Checkpointing: Convergence Aware Scheduling with Hash Ring Storage for Fault Tolerant Distributed Deep Learning	S. Ananthkrishnan (SASTRA Deemed University)*; Potta Sai Varshith (SASTRA Deemed University)
Session ID	D5	
Date and Time	10-10-2026, 09:30 AM – 11:00AM	
ID	Title	Authors
706	Using Mobile and Mobile Suspect Detection using YOLOv8n	Ganesan M (Amrita School of Engineering)*; Nithin S (Amrita School of Engineering); Nitish R (Amrita School of Engineering); Abhijith P (Amrita School of Engineering)
489	Vision-Based Odometry: Comparative Analysis on Standard and Custom Datasets for Resource-Limited Vehicle Platforms	Sai Pranay Kumar Nagella (GITAM Deemed to be University)*; Thippeswamy K S (GITAM Deemed to be University); Prithvi Sekhar Pagala (GITAM Deemed to be University)
771	Intelligent and Security-Driven Load Balancing for Performance Optimization in Multi-Cloud Computing.	Akshatha B (st philomena college(Autonomous) puttur)*; Manjaiah D H (Mangalore University, Konaje); Praveena Kumari M K (NMAM Institute of Technology(Deemed to be University))
582	Enterprise Service Cloud RAG Engine: Retrieval-Augmented Generation for AI-Powered Customer Support in Salesforce	Fathimath Anshifa Sherin A (BITS Pilani)*
795	Feature-Driven Demand Forecasting in Multi-Product Retail Supply Chain: A Systematic Ablation Study Across Retail Scales	Harika Thalluru (Dhanalakshmi Srinivasan University)*
Session ID	D6	
Date and time	10-10-2026, 09:30 AM – 11:00AM	
ID	Title	Authors
471	Autonomous Drone Delivery with Multi-Sensor Fusion-Based Obstacle Avoidance and Real-Time Safety Mechanisms	UJWAL REDDY M L (Nitte Meenakshi Institute of Technology (Nitte , Deemed to be University))*; Sujay S C (Nitte Meenakshi Institute of Technology (Nitte , Deemed to be University)); Manohara H T (Nitte Meenakshi Institute of Technology (Nitte , Deemed to be University))
1042	Performance Analysis of Pathfinding Algorithms Under Varying Map Structures and a Feature-Driven Selection Framework	Neha Varadharajan (Manipal Institute of Technology, Manipal Academy of Higher Education); Snigdha Routray (Manipal Institute of Technology, Manipal Academy of Higher Education); Tejas Bhargava (Manipal Institute of Technology, Manipal Academy of Higher Education); Shriya Pargi (Manipal Institute of Technology, Manipal Academy of Higher Education); Soham Saxena (Manipal Institute of Technology, Manipal Academy of Higher Education); Mav Himanshu Mukesh (Manipal Institute of Technology, Manipal Academy of Higher Education); Anoop B N (Manipal Institute of Technology MAHE Manipal)*
798	HybridSpec-MFCC: A Multi-Modal Approach for Robust Deepfake Audio Detection Using Spectral-Temporal Feature Fusion	Ramesh G (NMAMIT, Nitte (Deemed to be University))*; Vaikunta Pai T (NMAMIT, Nitte (Deemed to be University)); Sampath Kumar Y R (Department of AI & ML, BMS Institute of Technology and Management)
528	Purchase Intent Prediction for Indian Online Retail Using Festival-Seasonal Sequential Deep Learning	Dr.Pushpa Ravikumar (Adichunchanagiri Institute of Technology); Sahana VS (Adichunchanagiri Institute of Technology)*; Arpitha CN (Adichunchanagiri Institute of Technology)
1033	SHELEARN: A Multilingual Voice-Driven AI Tutor Using Adaptive Learning Models for Rural Women Empowerment	Sharmila Kumari (PACE); Fathimath Ansheera (PA College of Engineering); Afseena Afseena (PA College of Engineering); Khadeeja Rushafida (PA College of Engineering); Khadeejath Farisa (PA College of Engineering); Saleem Malik (PA College of Engineering)*
Track	Communications	
Session ID	C1	
Date and time	09-10-2026 11.45 AM - 01:00PM	
ID	Title	Authors
807	A GNU Radio Implementation of OTFS and Data Detection Using Residual CNN Architecture	Dhruvakumar T (Siddaganga Institute of Technology)*; Sarvesh shivasharan (Siddaganga Institute of Technology); Sinchana Prasad (Siddaganga Institute of Technology); Saniya K (Siddaganga Institute of Technology); Varsha Gowda (Siddaganga Institute of Technology); Sanjeev Gurugopinath (MMRFIC Technology Private Limited)
689	TFHE-ODPI: Privacy-Preserving Deep Packet Inspection Using Fully Homomorphic Encryption with Bloom Filter Pruning	VEENA PINTO (NMAM Institute of Technology)*; Asmita Poojari (NITTE(Deemed to be University) NMAM Institute of Technology)
778	Unsupervised Phishing URL Detection Using One-Class SVM with Lexical Analysis and Byte Frequency Embeddings	Sahana Shindhe (NMAM Institute of Technology)*; shabari shetty (NMAM Institute of Technology)
880	Multimodal Sensing Data Analytics and Intelligent Edge Processing for Integrated Sensing and Communication in 6G Networks	Priyanka Shivaramaiah (RV University); Roopesh Ramesh (RV University)*; Kalyan Nagraj (BMS College of Engineering)
720	Digital Identity for the homeless	MINU ABRAHAM (NMAM Institute of Technology(Deemed to be University))*; B Gautam Mohan (NMAM Institute of Technology(Deemed to be University)); Abhijith P (NMAM Institute of Technology(Deemed to be University)); Justin Francis (NMAM Institute of Technology(Deemed to be University)); Adib Haris Neelambra (NMAM Institute of Technology(Deemed to be University)); K R Udaya Kumar Reddy (Dayananda Sagar University)
Session ID	C2	
Date and time	09-10-2026 03:15 PM - 05:00 PM	
ID	Title	Authors
498	EcoQoS-FL: Federated Edge Intelligence for Carbon-Aware QoS-Driven Resource Allocation in IoT Systems	Mala B A (Dayananda Sagar University)*; Suvika K V (Reva University); Bharath M B (Dayananda Sagar University); Arpitha Vasudev (Dayananda Sagar Academy of Technology and Management); Latha Yadav T R (Vemana Institute of Technology); Ashvini V (Vemana Institute of Technology)

497	Smart Lecture Insight Engine	MINU ABRAHAM (NMAM Institute of Technology(Deemed to be University)); Subramanya Hebbar (NMAM Institute of Technology(Deemed to be University)); Srashti D Shetty (NMAM Institute of Technology(Deemed to be University))
518	SECURE IOT BASED NUCLEAR MEDICINE SUPPLY CHAIN USING BLOCKCHAIN	Amogh B Googal (Dayananda Sagar University); Dhanush G S (Dayananda Sagar University); Dhyan P (Dayananda Sagar University); RITHIK A (Dayananda Sagar University); Mala B A (Dayananda Sagar University); Bharath M B (Dayananda Sagar University)
881	Semantic-Aware Joint Source–Channel Coding via End-to-End Deep Learning for 6G Wireless Communications	Roopesh Ramesh (RV University)*; Priyanka Shivaramaiah (RV University); Kalyan Nagraj (BMS College of Engineering)
774	Cyber Attack Detection and Recovery Mechanisms for Smart Grids.	CP OMKAR RAWATH (NMAMIT)*; Sarika Hegde (NMAMIT(Deemed to me University),NITTE)
Session ID	C3	
Date and time	10-10-2026, 09:30 AM – 11:00AM	
ID	Title	Authors
277	FPGA Optimized MFCC Feature Extraction System for Low-Resource Speech Processing	Mamatha A S (NMAM INSTITUTE OF TECHNOLOGY)*; Soumya B Narayani (NMAM INSTITUTE OF TECHNOLOGY); Madhu Upadhyaya (NMAM INSTITUTE OF TECHNOLOGY)
672	Network Advanced Vehicle Information and Guidance Optimizer (NAVIGO)	Shreya J (Sahyadri College of Engineering & Management)*; Abisha Shetty (Sahyadri College of Engineering & Management); Hisha . (Sahyadri College of Engineering & Management); Mustafa Basthikodi (Sahyadri College of Engineering and Management)
796	Impact of BonnMotion Mobility Models on K-Means Clustered AODV in MANETs	ARUNODHAYA K NAMBIAR (DEPARTMENT OF INFORMATION TECHNOLOGY KANNUR UNIVERSITY)*; ABDUL HALEEM P P (DEPARTMENT OF INFORMATION TECHNOLOGY KANNUR UNIVERSITY)
753	A Passive Behavioral Biometric Detection Framework for Insider Threat Identification Using Keystroke Dynamics	Deepthi Suvama (NMAM Institute of Technology)*; DR.Sudeepa KB (NMAM Institute of Technology)
1031	VIRAL CART: Vision-Integrated Retail Automation and Load Verification	Rashmi Adyapady R. (NMAM Institute of Technology, Nitte)*; Varsha Vasudev Kowdoor (NMAM Institute of Technology, Nitte); Swathi R Kini (NMAM Institute of Technology, Nitte); K Sindhu Kamath (NMAM Institute of Technology, Nitte)
Track	VLSI	
Session ID	V1	
Date and time	09-10-2026 11.45 AM - 01:00PM	
ID	Title	Authors
1030	UPF-Based Power-Aware Simulation of SoC Design Using Power Gating	H.M Harshiitha (Siddaganga Institute of technology)*; Kalpana H M (Siddaganga institute of technology); Dayananda Y S (PPPASSCHIP Technologies pvt ltd)
643	Golden Chip-Free Hardware Trojan Detection Using Siamese Neural Network and Side Channel Analysis	B Y V ABHISHEK (Amrita Vishwa Vidyapeetham); RAMESH S R (Amrita Vishwa Vidyapeetham)*
427	Real-Time Secure ECDSA Authentication Using SRAM-PUF with Adaptive Error Correction and Helper Data Integrity	Pavithra G (Dayananda Sagar College of Engineering)*; spoorthi g (dsce); monika mahesh (dsatm); prabhavathi m (dsce)
467	A Multiple-Entropy Source TRNG on FPGA using Programmable Delay-Based Cross-Coupled XORs	Nithyashree Marichamy (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore,Amrita Vishwa Vidyapeetham); Chittesh RJ (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore,Amrita Vishwa Vidyapeetham); Shubashri M (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore,Amrita Vishwa Vidyapeetham); Navya Mohan (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore,Amrita Vishwa Vidyapeetham)*
758	Hardware-Software Co-Design on FPGA for License Plate Detection: A Low-Power RISC-V Alternative to Software-Only Processing	NITIN V (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore,Amrita Vishwa Vidyapeetham); CHITTESH RJ (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore,Amrita Vishwa Vidyapeetham); Navya Mohan (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore,Amrita Vishwa Vidyapeetham)*
Session ID	V2	
Date and time	09-10-2026 03:15 PM - 05:00 PM	
ID	Title	Authors
1032	Compounding Scan-Shift Power Reduction Through Sequential Integration of SCOAP-Guided Observation Points, Scan Influence Chain Ordering, and Adaptive X-Filling	Shirish Harchirkar (PES University)*; Nirmala Devi M (PES University)
1038	A 2-Bit Parallel Distributed Arithmetic Inner-Product Architecture for Low-Latency High-Throughput Matrix-Vector Multiplication	Ramesh Chinthala (Amrita School of Engineering Bengaluru)*; Pranav Prashant Joshi (Amrita School of Engineering, Bengaluru)
943	Adaptive Test Pattern Generation using Machine Learning and SAT Solvers	Priyatharishini M (Amrita School of Engineering)*; Nandini P (Amrita School of Engineering)
797	Hardware-Assisted Architecture for Clause Propagation in SAT Solvers	Dhayadharsh S M (Amrita Vishwa Vidyapeetham, Coimbatore.); Sanjay Vijay Adithian R (Amrita Vishwa Vidyapeetham, Coimbatore.)*; Shrimathan M (Amrita Vishwa Vidyapeetham, Coimbatore.); Harish Ram D S (Amrita Vishwa Vidyapeetham, Coimbatore.)
657	Low-Power SAR Analog-to-Digital Converters for Biomedical Applications: A Comprehensive Review	Satheesh Rao (NMAMIT, Nitte); Shreesha Kumar K S (NMAMIT, Nitte)*

Session ID	V3	
Date and time	10-10-2026, 09:30 AM – 11:00AM	
ID	Title	Authors
765	Ease of amplifier design using gm/ID methodology in advanced technology nodes	Annapurna Gandudi (ekLakshya Innovation Labs)*; Poornima M (ekLakshya Innovation Labs)
1035	Timing Analysis Of Adaptive BIST Logic For Square Root Carry Select Adder	Madhumitha A (R V College of Engineering)*; Shreekrishna R K (R V College of Engineering); Manjunath Mandi (R V College of Engineering); Vanaja B (R V College of Engineering); Shylashree N (R V College of Engineering)
374	DMA-Based Low-Latency Real-Time Audio FFT on STM32 microcontroller	Logesh L (Amrita School of Engineering, Bengaluru); Jay Prakash Mandal (Amrita School of Engineering, Bengaluru); Surekha Paneerselvam (Amrita School of Engineering, Bengaluru)*; V S Kirthika Devi (Amrita School of Engineering, Bengaluru)
686	Real-Time Lane Tracing and Visualization using the FPGA Vision Accelerator	Dr. Rajendra Prasad P (Ramaiah Institute of Technology)*; Harshith Bekal (Ramaiah Institute of Technology)
790	Energy-Efficient Combinational Logic Design Using VGSOT-MTJ Devices for Spintronic Computing	Lavudya SaiCharan Tej (Dr. Shyama Prasad Mukherjee International Institute of Information Technology, Naya Raipur, Chhattisgarh, India); Tangi Preethi Devi (Dr. Shyama Prasad Mukherjee International Institute of Information Technology, Naya Raipur, Chhattisgarh, India); Pranay Sai Naik (Dr. Shyama Prasad Mukherjee International Institute of Information Technology, Naya Raipur, Chhattisgarh, India); Thampula Kartheek (Dr. Shyama Prasad Mukherjee International Institute of Information Technology, Naya Raipur, Chhattisgarh, India)*; Deepika Gupta (Dr. Shyama Prasad Mukherjee International Institute of Information Technology, Naya Raipur, Chhattisgarh, India)
Track	Electrical Circuits	
Session ID	E1	
Date and time	09-10-2026, 11:45 AM – 01:00 PM	
ID	Title	Authors
944	Soft Switching of PWM Converter using VIPer22A	Dhananjaya B (NMAM Institute of Technology- Affiliated to Nitte (Deemed to be University), Nitte, India)*; Sadhana B (Dept of Information Science and Engineering, Canara Engineering College, Bantwal, India); Sanjoy Kumar Debnath (Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Punjab, India); Susama Bagchi (Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Punjab, India); Shanky Goyal (School of Engineering and Technology, CGC University, Mohali, Punjab, India); Tapan Kumar Chakraborty (Department of Electrical &Electronics Engineering University of Asia Pacific, Bangladesh)
710	Performance analysis of SPWM and SVPWM schemes for a 3-level NPC Inverter in Electric Vehicle Traction Drives	Chaitanya Joshi (PES University)*; Sangeeta Modi (PES University)
1027	Design of a Non-Contact Vibrating Kelvin Probe for Contact Potential Difference Measurement	Sampada M (Siddaganga Institute of Technology)*; Dr. Latha H K E (siddaganga Institute of Technology); B G Chandrashekara (SI Linear Automation Technologies Private Limited)
966	AI-Assisted BLDC Motor Fault Detection with FPGA-Based Real-Time Validation	Sreeramulu Mahesh G (GSSSIETW,Mysuru)*; Disha C (GSSSIETW,Mysuru); Poorvika K (GSSSIETW,Mysuru); Revathi M (GSSSIETW,Mysuru); Sinchana M U (GSSSIETW,Mysuru); Manohara M (Mohan Babu University, Tirupati, India)
986	Improved Bacterial Foraging Algorithm -Based Optimal Integration of D-STATCOM in a Radial Distribution System Using the BIBC Matrix Approach	VITTAL BHAT M (P. A. COLLEGE OF ENGINEERING, MANGALURU)*; SHASHIDHARA MECHA KOTIAN (NITK, SURATHKAL)
Session ID	E2	
Date and time	09-10-2026, 3:15 PM - 5:00 PM	
ID	Title	Authors
769	Comparative Study of Eccentricity Effects on Inner Rotor and Outer Rotor Permanent Magnet Synchronous Motor	Yashoda Asangihal (Nitte (Deemed to be University), Nitte Meenakshi Institute of Technology (NMIT))*; Dr. Rajalakshmi Samaga B L (NMAMIT, Nitte, Nitte University); Dr. Babul Salam KSM Kader Ibrahim (College of Engineering and Architecture Gulf University for Science & Technology)
965	ReAct-Inspired AI-Agent Framework for FPGA-Based Edge Decision-Execution in EV Charging Management	Sreeramulu Mahesh G (GSSSIETW,Mysuru)*; Kruthika K (GSSSIETW,Mysuru); Lahari M. V (GSSSIETW,Mysuru); Niharika D (GSSSIETW,Mysuru); Prapti K (GSSSIETW,Mysuru); Manohara M (Mohan Babu University, Tirupati, India)
919	An SoC-Scheduled Current Command Limiting Strategy for EV Battery Charging Infrastructure	Ashwin Shankar (Manipal Institute of Technology)*; Anjan Padmasali (Manipal Institute of Technology)
739	A 16 Gbps CTLE With Novel Boost And Shaping Network	Prateek Goel (National Institute of Technology Karnataka, Surathkal)*; Tonse Laxminidhi (National Institute of Technology Karnataka, Surathkal)
830	Design and Simulation of a transistor-level Analog Neural Network: Single Neuron Implementation and AND Gate Realization	Vidhya L (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.)*; Sri Abhishek Kulkarni (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.); Nitin V (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.); Chittesh R J (Department of Electronics and Communication Engineering, Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.)

102	Parasitic Resistance and Capacitance Analysis of a BCD to 7-Segment Decoder for Layout-Aware VLSI Design	Sanyukta Chavan (Manipal Institute of Technology)*; Prakhar Singh (Manipal Institute of Technology); Pradyumn S Joshi (Manipal Institute of Technology); Parikshith Shetty (Manipal Institute of Technology); Arjun Sunil Rao (Manipal Institute of Technology); S. Senthil Kumar (CMS College of Engineering and Technology)
Track	Healthcare	
Session ID	H1	
Date	09-10-2026 11.45 AM - 01:00PM	
ID	Title	Authors
971	Deep Learning Approach for Breast Cancer Classification	Thejashwini M (P.E.S College of Engineering)*; M K Shwetha (P.E.S College of Engineering, Mandya); Sharanya K (P.E.S College of Engineering); Varun T P (P.E.S College of Engineering); Santhosha B K (P.E.S College of Engineering); V Sree Charan Reddy (P.E.S College of Engineering)
533	A Robust Integrated Deep Learning Architecture for Automated Multi-Lung Disease De-tection Using Chest Radiographs	Arpitha C N (Adichunchanagiri Institute Of Technology); Deekshith K (Adichunchanagiri Institute Of Technology)*; Pushpa Ravikumar (Adichunchanagiri Institute Of Technology)
828	Comparative Evaluation of Machine Learning and Deep Learning Models for Cardiovascular Disease Prediction Using the UCI Heart Disease Dataset	Chandranantha T S (Mangalore Institute of Technology and Engineering)*; Basavaraj N Jagadale (Kuvempu University); Madhwaraj K G (Mangalore Institute of Technology and Engineering)
740	PneuStat-FS: Statistical Feature Selection for Pneumonia Detection in Chest X-Ray Images	sharmila kumari (PACE); fathima jaseera (PACE); ayshath marva (PACE); fathima fidha (pace); Saleem Malik (PA College of Engineering)*
876	Smart Vision Device for Real-Time Detection of Stress and Threats	Lasya Ram (Amrita Vishwa Vidyapeetham); Bhargava Mani Rohith Kanamarlapudi (Amrita Vishwa Vidyapeetham); Abhishek S Sadasivan (Amrita Vishwa Vidyapeetham)*
Session ID	H2	
Date	09-10-2026 03:15 PM - 05:00 PM	
ID	Title	Authors
988	Comparative Analysis of Edge Detection Algorithms for Tear Fern Images on FPGA	Nanugondla Venkateswarulu (Alliance University); G. Ramana Murthy (Alliance University); Neelapala AnilKumar (Alliance University); Gnane Satapathi (A J Institute of Engineering and Technology)*; Ramachandra V Shet (A J Institute of Allied Health Science)
1009	Multi-Stage Deep Learning Framework for Retinal Layer Segmentation in OCT Images: A Comparative Study	SHILPA B (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India Department of ISE, Canara Engineering College, Benjanapadavu)*; Siddalingaswamy P C (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal); Anoop B N (Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal); Ganesh V BHAT (Canara Engineering College, Benjanapadavu); Neetha K I R (Kasturba Medical College, Manipal, Manipal Academy of Higher Education, Manipal); Shailaja S (Kasturba Medical College, Manipal, Manipal Academy of Higher Education, Manipal)
529	Detection of Knee Osteoarthritis using variants of Deep Residual Networks for X-Ray Images	Pushpa Ravikumar (Adichunchanagiri Institute of technology); Kaushik M (Adichunchanagiri Institute of Technology)*; Arpitha C N (Adichunchanagiri Institute of Technology)
761	VisionMate: A Smart Assistive Walking Stick Using AI and IoT for Real-Time Navigation	PRIYADARSHINI P (ST ALOYSIUS UNIVERSITY); RAMEESA K (SRINIVAS UNIVRSITY)*; MAHIJA K P (CONCORD ARTS AND SCIENCE COLLEGE)
809	Real-Time Assistive Navigation for Visually Impaired Users Using Edge-AI Object Detection and Ultrasonic Distance Sensing	Shashank Ravindra (RVITM); B Abhitha Bhat (RVITM); Gaurav S B (RVITM); Ananya Raghuvveer (RVITM)*; Nandita Bangera (RVITM)
472	Adaptive Multimodal Gating for Interpretable Drug–Drug Interaction Prediction	Himnish Kumar R (Jain (Deemed-to-be University))*; Nagarajan S (Jain (Deemed-to-be University)); Raj Bahadur (Jain (Deemed-to-be University)); Lakshay Sharma (Jain (Deemed-to-be University))
Session ID	H3	
Date and time	10-10-2026, 09:30 AM – 11:00AM	
ID	Title	Authors
839	Deep Learning-Based Multiclass Classification of Alzheimer's and Parkinson's Diseases Using MRI: An EfficientNetB3 Approach.	prafulla B (St Aloysius(Deemed to be University))*; Dr Ruban S (St Aloysius (Deemed to be University)); Vannurswamy K. (Dept of Computer Science Mangalore University Konaje, Mangalore, India); Annapoorna K (Dept of Information Technology National Institute of Technolgy Karnataka. Surathkal, Mangalore, India)
916	ExplainDiaNet: An Explainable Hybrid Ensemble Learning Framework for Early Diabetes Risk Prediction	bojja vani (SR University); C madankumar (SR University); Saleem Malik (PA College of Engineering)*
785	HSL-MIP: An Effective Hybrid Stacked Learning–Based Model for Myocardial Infarction Prediction	Subrahmanya M K (N.M.A.M.I.T)*; Shashank Shetty (N.M.A.M.I.T)
760	EdemaNet-SE: Channel-Attentive Residual Learning for Automated Bone Marrow Edema Detection in Magnetic Resonance Imaging	Shrutha Jain (NMAM Institute of Technology, Nitte-574110, Karnataka)*; Shashank Shetty (NMAM Institute of Technology, Nitte-574110, Karnataka)
861	Multi-Task Learning Risk Stratification for Women's Health Conditions through Inductive Transfer and Uncertainty Quantification	Samantha Pereira Prabhu (NMAM INSTITUTE OF TECHNOLOGY)*; Dr. Shabari Shedthi B (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT))
984	A SHAP-Integrated Confidence-Guided Ensemble Learning Framework for Ayurvedic Clinical Recommendation	Vineeth Kumar (NMAM Institute of Technology); Navaneeth Bhaskar (NMAM Institute of Technology, Nitte University)*; Stuti S R (NMAM Institute of Technology)
Session ID	H4	
Date	10-10-2026, 09:30 AM – 11:00AM	

ID	Title	Authors
804	A Feedback-Driven Deep Learning Model for Medicinal Leaf Identification Using EfficientNet and ArcFace	Ankitha K (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte)*; Sanvi Shetty (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte); Shree kavya S Suvama (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte); Nishmitha Shetty (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte); Bhavya S Amin (Nitte (Deemed to be University), NMAM Institute of Technology (NMAMIT), Nitte)
978	STROKE-XDL: An Explainable Deep Learning Framework for Brain Stroke Detection from CT Scans - A Comprehensive Benchmark Study	Kinnari Rao (NMAM Institute of Technology)*; Shashank Shetty (NMAM Institute of Technology, Nitte)
655	Machine Learning and Deep Learning Models for Lung and Colon cancer classification using CT scan and Histopathological images	Ganesan M (Amrita School of Engineering)*; Sudhiksha C (Amrita School of Engineering); Abisheikh K (Amrita School of Engineering); Shriram Meyyappan RM (Amrita School of Engineering)
962	Hybrid Parkinson Disease Identification using Voice and Tremor Biomarkers and Explainable AI	Srujan U Shetty (NITTE(Deemed To be University))*; Bharath S Bhat (NITTE(Deemed To be University))
890	Predictive Modeling for Maternal Health Risk Classification Using Ensemble and Deep Learning Approaches	Druthi K N (Dr. NSAM First Grade College)*
1022	Explainable XGBoost Framework for VO2 Prediction Using Multivariate Exercise Physiology Signals	Soumyashree Shetty (Nitte university)*; Harish Shetty (The Yenepoya College,Moodbidri)