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

IEEE BANGALORE SECTION

IEEE Mangalore Subsection

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: Prof. Navakanta Bhat, Dr. Prasant Misra**	**Savarkar Sabha Bhavana, 3rd floor, Krishna Chethana Block**
	10:30 AM - 11:30 AM	**Key Note Address** Speaker: **Prof. Navakanta 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 / Distributed Computing / 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. Prof. 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 / Distributed Computing / 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 / Distributed Computing / Venue: A305	471, 1042, 798, 528, 1033
		H3 / Healthcare / Venue: A325	839, 916, 785, 760, 861, 984
		H4 / Healthcare / 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**	**Library Study Center, Ground Floor, Krishna Chethana Block.**
	1:45 PM - 2:45 PM	Invited Talk 2 Speaker: **Mr. Sudarshan 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 Sponsors

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Track	Distributed Computing and Robotics : Track Sponsors - Novigo Solutions Pvt. Ltd. and Blute Technologies	
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,Nite); 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); Gnane 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 (Dr. A V Baliga College of Arts and Science, Kumta, Uttara Kannada)
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. Ananthakrishnan (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: Track Sponsor -Quantum Networks (Zen Exim Pvt. Ltd.)**	
Session ID	**C1**	QUANTUM NETWORKS
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 Suvarna (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: Track Sponsors - Karmic Design Pvt. Ltd.**	
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 Harshitha (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: Track Sponsor - Sophrosyne Semiconductor Pvt. Ltd.**	
Session ID	**E1**	Sophrosyne Semiconductor
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: Track Sponsor: FastBit Embedded Technologies and Blute Technologies**	
Session ID	**H1**	FastBit Embedded blute
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	Chandrakantha 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 (YIT)*; 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 Raghuveer (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 Techonlogy 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 Suvarna (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); Shriraam 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)