**Green Revolution in Electronics Engineering and Networks Conference (GREENCON) 2025**

**19th - 20th March, 2025**

***An International Conference organized by***

School of Electronics Engineering

Vellore Institute of Technology, Chennai

**BOOK OF ABSTRACTS**

**TRACK 1: SUSTAINABLE INNOVATIONS IN VLSI DEVICES CIRCUITS AND SYSTEMS**

**DATE: 19/03/2025 VENUE: AB1 806**

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| **Track Chairs** | **Dr. A Prathiba** | **Dr. S Umadevi** |

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| **Invited Talk 1** | **1.30 pm – 2.00 pm** | **Dr. Aniruddha Kanhe**  Assistant Professor, Dept of ECE,  National Institute of Technology, Puducherry |
| **Invited Talk 2** | **2.00 pm – 2.30 pm** | **Mr. Siddhanta Roy**  Device/Process Modeling Engineer, Global foundries, Bangalore |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D1-T1-44 | 2.30 pm – 2.45 pm | Low power Arithmetic logic unit using reversible logic gates  *R. Kawin Kishore, Velmathi Guruviah* |
| D1-T1-173 | 2.45 pm – 3.00 pm | Innovations in Energy-efficient Automated Street Lighting Technologies  *Lijo Jacob Varghese, Prasath S R, Prasath S R*  *Rathi Prabha E* |
| D1-T1-131 | 3.00 pm – 3.15 pm | Low-Power Content Addressable Memory: A Multi- Topology SRAM Perspective  *Muthu Kumar G, Kalavathi Devi T, Sakthivel P, Sumathi S, Malathika J* |
| D1-T1-132 | 3.30 pm – 3.45 pm | Real-Time Detection, Measurement, and Tracking of Oil Spillage Using FPGA-Based Systems  *Akash Kumar Vruddhula, Vishal Pranao Amarnath Kumar, Sundar S* |
| D1-T1-143 | 3.45 pm –4 .00 pm | Automated FSM extraction and analysis from digital systems  *Rudraksh Chourey, Umadevi S, Prathiba A* |
| D1-T1-212 | 4.00 pm – 4.15 pm | Design and Implementation of Traffic Light Control System Using Verilog (HDL)  *Devika R, Sandhya U, Kalaiarasi P, Ramiya R, Ramyalakshmi M, Renuka J* |

**TRACK 1: SUSTAINABLE INNOVATIONS IN VLSI DEVICES CIRCUITS AND SYSTEMS**

**DATE: 20/03/2025 VENUE: AB1 806**

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| --- | --- | --- |
| **Track Chairs** | **Dr. A Prathiba** | **Dr. S Umadevi** |

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| --- | --- | --- |
| **Invited Talk 1** | **10.00 am –11.15 am** | **Mr. Murugeswaran Surulivel**  Senior Director DFT - Insemi Technology Services Pvt Ltd, Bangalore |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D2-T1-156 | 11.15 am – 11.30 am | Comparative Analysis of Controllers for EV Applications  *Jahnavi Dandala Sai, Achal Upase, Sangeeta Modi* |
| D2-T1-54 | 11.30 am – 11.45 am | Design and Simulation of a Threshold-Based Memristor for Non-Volatile Memory Applications  *Jalpaben Pandya, Ramji Gupta* |
| D2-T1-182 | 11.45 am – 12.00 pm | MEMS-Based Biomechanical Energy Harvesting for Leadless Pacemakers  *Rishabh Lahkar, Reena P* |
| D2-T1-192 | 12.15 pm – 12.30 pm | Hardware Accelerated Implementation of CNN for Character Recognition  *Abhinav Ajith, Jino Vinod, Vaishnav V, Augusta Sophy Beulet P* |
| D2-T1-260 | 12.30 pm – 12.45 pm | Assessment of Voltage Level Shifter Performance Across Several Technology Nodes  *J. Kruthika, Dhandapani Vaithiyanathan, Manish Verma, Preeti Verma, Baljit Kaur, V. Jeyalakshmi* |

**TRACK 2: MICROWAVE AND ANTENNAS EMERGING TECHNOLOGIES (MAGNET)**

**DATE: 19/03/2025 VENUE: AB1 707**

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| **Track Chairs** | **Dr. Usha Kiran Kommuri** | **Dr. Niraj Kumar** |

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| **Invited Talk** | **1.30 pm – 2.00 pm** | **Dr. Sreenath Reddy**  IIITDM, Kancheepuram |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D1-T2-28 | 2.00 pm – 2.15 pm | Design of UWB Monopole MIMO Antenna with RFID for Automotive Applications  *S. Kolangiammal and S. T. Aarthy* |
| D1-T2-29 | 2.15 pm – 2.30 pm | Ultra – Miniaturized Meander Line Implantable Antenna For Leadless Pacemaker System at 1.4 GHz WMTS Band  *Archana Mohan and Niraj Kumar* |
| D1-T2-30 | 2.30 pm – 2.45 pm | Material Analysis for Patch Antennas in Terahertz Communication  *Selvakumar George, Kanthimathi N, Ramkumar Ramanujam, Dhanalakshmi D, Ezhil E. Nithila and Relin Francis raj J* |
| D1-T2-110 | 2.45 pm – 3.00 pm | Broad Band MIMO Tunable Antenna for 5G Wireless Application Using AI  *Kowshik. B, Gayathri P K, G. Supriya, Sai Keerthana and HBM Ajjaiah* |
| D1-T2-113 | 3.00 pm – 3.15 pm | Design of Wideband Modified Crossed Dipole Antenna with Parasitic Patches For 5G Sub 6 GHz  *Praveen Kumar B, Usha Kiran K and Nagajayanthi B* |
| D1-T2-146 | 3.30 pm – 3.45 pm | Wideband Reflect Array Antenna using Polarization Rotating Unit Cell  *Usha Kiran Kommuri, Jayakanth Reddy Velagala, Likhith Srinivas Boddu and Aashish Rapaka* |

**TRACK 2: MICROWAVE AND ANTENNAS EMERGING TECHNOLOGIES (MAGNET)**

**DATE: 20/03/2025 VENUE: AB1 707**

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| --- | --- | --- |
| **Track Chairs** | **Dr. Usha Kiran Kommuri** | **Dr. Niraj Kumar** |

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| **Invited Talk 1** | **10.00 am – 10.30 am** | **Ankit Bhattacharjee**  Technical Lead, HCL Technology (ERS-Engineering and R&D Services Team, Chennai) |
| **Invited Talk 2** | **10.45 am – 11.15 am** | **Dr. Lee Yong Hong**  Assistant Professor, Universiti Tunku Abdul Rahman (UTAR), Malaysia |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D2-T2-171 | 11.15 am – 11.30 am | Design of Dual-Band and Multi-Band Microstrip Patch Antennas at Sub-6 GHz and Millimeter Frequencies For 5G  *Sangam Prafulla Borkar and Nitesh B. Guinde* |
| D2-T2-178 | 11.30 am – 11.45 am | Offset Fed Slot Antenna for Quad Band Applications  *Shruti, Revanasiddappa Kinagi, Vilaskumar Patil, Padmavati* |
| D2-T2-189 | 11.45 am – 12.00 pm | Low-Power Autonomous Sensing Mode Lora Technology-Based Miniature Antenna  *Ummaka Venkatesh, Ummaka Subba Rao and N. Sugitha* |
| D2-T2-230 | 12.00 pm – 12.15 pm | A Novel Design of Rectangular Frame Slot Loaded Monopole Hybrid Microstrip Antenna  *Swati Shelar and Rajeshwari Biradar* |
| D2-T2-315 | 12.15 pm – 12.30 pm | Dielectric Resonator Antennas for 5G: A Review Focusing on MIMO Applications  *Peter Adejumo, Sadiq Batcha Abdul Rahim, Hanisah Zali and Md Sakib* |

**TRACK 3: GREEN INNOVATIONS IN PHOTONICS AND OPTICAL COMMUNICATION NETWORKS**

**DATE: 20/03/2025 VENUE: AB1 506A**

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| **Track Chairs** | **Dr. A. Sivasubramanian** | **Dr.T.Ilavarasan** |

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| **Invited Talk 1** | **10.45 am – 11.15 am** | **Dr. Prabu K**  NIT Surathkal |
| **Invited Talk 2** | **12.30 pm – 1.00 pm** | **Dr. Meenakshi M**  Professor, Anna University |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D2-T3-45 | 11:30 am – 11:45 am | Malaria Detection using PCF over Surface Plasmon Resonance Sensor  *Humscikha S, Pavithra V, Keerthana S, Dhinakaran Vijayalakshmi* |
| D2-T3-193 | 11:45 am – 12:00 pm | Finite Element Method-based Photonic Crystal Fiber Sensor with Surface Plasmon Resonance for Clinical Diagnostics  *Parthiban M, Dineshkumar TR,**Sivasaravana babu S, Sureshchinnathampy M, Barathwaj, Balaji M, Balavignesh S* |
| D2-T3-273 | 12:00 pm – 12:15 pm | Numerical Study of Surface Plasmon Resonance-Based Polished Nano-Pillar Photonic Crystal Fiber Refractive Index Sensor (SPR-PCF-RI Sensor)  *Revathi S, Christina Josephine Malathi A, Kousalya S, Roheet saha, Yemireddy Vignesh Reddy, Vennapusa Ganesh Kumar Reddy, Parthiban M* |

**TRACK 4: SIGNAL AND IMAGE PROCESSING FOR SUSTAINABLE DEVELOPMENT**

**DATE: 19/03/2025 VENUE: AB1 706**

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| **Track Chairs** | **Dr. Vijayarajan R** | **Dr. Sankar Ganesh S** |

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| **Invited Talk** | **1.30 pm – 2.00 pm** | **Ms. K. Chitra**  Scientist-F, NIOT |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D1-T4-86 | 2.00 pm – 2.15 pm | Automated Screening of Diabetic Retinopathy Using Explainable AI with Grad-CAM  *Pradeep Kumar G, Sridevi B, Sivakami D, Nallamani J, Sree Yegappan M, Niranjan S* |
| D1-T4-197 | 2.15pm – 2.30 pm | Automatic Panoramic Radiographs Segmentation for Dental Disease Detection Using Yolo11  *Priscilla Whitin, S. Sivakumar, K. Anish Pon Yamini, P. Sivaraj, S. Jebarose Juliyana* |
| D1-T4-90 | 2.30 pm – 2.45 pm | Advanced Static and Dynamic Object Detection and Identification Leveraging YOLOv11  *K Stella, Chandru P, S Hemajothy, M D Faheem M N, Suresh Chinnathampy M, Mohamed Zuhail Akhtar S* |
| D1-T4-122 | 2.45 pm – 3.00 pm | Enhanced Night Vision Image Processing Algorithm for Autonomous Robots: Integrating Diffusion Models and Adaptive Optimization  *Logeshwaran R, Saravanan Mohan, Markkandan S, Somasekar Muthusamy* |
| D1-T4-151 | 3.00 pm – 3.15 pm | Focus Track: A Multi-Faceted AI - Powered Framework for Real - Time Attention and Distraction Monitoring  *Kiruthik Kumar Jayakumar, Shree Sathiyaa Sankaralingam kannagi, Thiruvarshan Mohan, Mohammed Naazil Abdul Azeem, Sri Pavithra Balraj, Sam Varghese George* |
| D1-T4-153 | 3.30 pm – 3.45 pm | Comparative Analysis of GAN’S And GNN’S For Enhanced Stock Price Prediction  *Abhinav, Avika Porwal, Suhasini S* |
| D1-T4-164 | 3.45 pm – 4.00 pm | AI-Driven Adaptive Traffic Signal System Using Real-Time Vehicle Detection and Distance Estimation  *Devadharshini S, Lavanya S, Kiruba Wesley* |
| D1-T4-179 | 4.00 pm – 4.15 pm | Music Genre Detection with Live Audio  *Sasank Devabhakthuni, Lokesh Boda, Bandaru Ratna Siva Kumar, Manmohan Sharma* |

**TRACK 4: SIGNAL AND IMAGE PROCESSING FOR SUSTAINABLE DEVELOPMENT**

**DATE: 20/03/2025 VENUE: AB1 706**

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| **Track Chairs** | **Dr. Vijayarajan R** | **Dr. Sankar Ganesh S** |

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| **Invited Talk 1** | **10.00 am – 10.30 am** | **Dr. S Sakthivel Murugan**  Professor, NITTTR, Chennai |
| **Invited Talk 2** | **11.30 am – 12.15 pm** | **Prof. Dr. Chi-wen Lung**  Professor, Asia University, Taiwan |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D2-T4-116 | 10.45 am – 11.00 am | Cancer Detection in Chest CT Scan Imagery Using CNN Architectures and ML Classifiers  *Akshit Saxena, Yugal Pande, Aryan Blauria, Sundar S* |
| D2-T4-196 | 11 am – 11.15 am | Classification of AI generated images and real Images using Deep learning  *Muthaiah U, Divya A, Swarnalaxmi T N* |
| D2-T4-208 | 11.15 am – 11.30 am | Deep Learning Based Disaster Image Segmentation Using U-NET  *L Sai Ramesh, A. M. Admidilsen, A. Akshay* |
| D2-T4-243 | 12.15 pm – 12.30 pm | Real-Time Sign Language Interpretation in Google Meet for Inclusive Communication  *Thamizazhagan B, Ram Sri Vathssa C R, Samyuktha C S, Deepa D* |
| D2-T4-279 | 12.30 pm – 12.45 pm | Optimizing Traffic Flow: Real-Time Traffic Congestion Detection Using Computer Vision for Improved Road Management  *Arunvignesh K, Gowtham P, Ashwini S* |
| D2-T4-300 | 12.45 pm – 1.00 pm | Potato Leaf Disease Classification Using Convolutional Neural Networks: A Computational Approach for Early Detection and Diagnosis  *M R Vinoth Kumar, S. Praveenkumar, T. Aravind, T K Srinivasan* |

**TRACK 5: SUSTAINABLE INTELLIGENT SYSTEM**

**DATE: 19/03/2025 VENUE: AB1 607B**

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| **Track Chairs** | **Dr. Gugapriya G** | **Dr. Abraham Sudharson Ponraj** |

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| **Invited Talk** | **1.30 pm – 2.00 pm** | **Dr. Pethuru Raj**  Chief Architect and Vice President, Edge AI Division, Reliance Jio Platforms Ltd |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D1-T5-06 | 2.00 pm – 2.15 pm | Smart Security Personal Assistant  *Sagunthala G, Tanisha Sinha, Dhrishya Ramaswamy, Gugapriya G* |
| D1-T5-27 | 2.15 pm – 2.30 pm | Fall Detection for Patients with Mobility Issues  *Rupam Dutta, Gagan Gowda, V Sumitra* |
| D1-T5-53 | 2.30 pm – 2.45 pm | Prosthetic Hand Arm using Flex Sensors and Servo Motors  *A Sakthi Preetha, K Kavitha, Vaibhavi K R, Preethi S, Rithika S* |
| D1-T5-71 | 2.45 pm – 3.00 pm | IoT-based Intrusion Detection on Security Camera Using Machine Learning Techniques  *Sivashankar S, Kavitha S, Kamalanaban E, Rohan M, Reshikanth M* |
| D1-T5-97 | 3.00 pm – 3.15 pm | Digital Twins In Agriculture: Precision Farming For Sustainable Yield  *S. Surya, E. Yuvaraj, A Balachandar* |
| D1-T5-108 | 3.30 pm – 3.45 pm | Enhanced Accuracy and Customization In Hand Gesture Cursor Control Using Python And OpenCV  *V. Sabapathi, E Kamalanaban, Lathish P, Naveen N, Nihitha T* |

**TRACK 5: SUSTAINABLE INTELLIGENT SYSTEM**

**DATE: 20/03/2025 VENUE: AB1 607B**

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| **Track Chairs** | **Dr. Gugapriya G** | **Dr. Abraham Sudharson Ponraj** |

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| **Invited Talk 1** | **10.00 am – 10.30 am** | **Dr. Pradheep Balaji**  Global Delivery Manager, Nokia |
| **Invited Talk 2** | **10.45 am – 11.15 am** | **Dr. Yoshiro Okazaki**  Waseda University, Tokyo |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D2-T5-135 | 11.15 am – 11.30 am | An Intelligent Intrusion Detection for Enhanced Cybersecurity  *Joshua Shaji, Pranav Ramesh, Lekshmi. S. Raveendran* |
| D2-T5-227 | 11.30 am – 11.45 am | Intelligent Vehicle Access Control System Using Breath Alcohol Detection and Automated Locking Mechanism  *Tharani R, Rani K S, Menaka M, Aazeen farahana S, Asvadhani A, Barkavi B U* |
| D2-T5-239 | 11.45 am – 12.00 pm | Comprehensive Accident Prevention Device for Vehicles  *Sumanth N Prabhu, Himanshu Singh, Anany Sharma, Saksham Kaiastha, Aman Gupta, Velmathi G, Jamuna K* |
| D2-T5-255 | 12.00 pm – 12.15 pm | Enhancing Computer Interaction Through Media Pipe Based Hand Gesture Control for Accessibility and Efficiency  *Devika. R, Sandhya. U, Kalaiarasi.P, Sachin. N, Saaim Afnaanuddin Z S, Sakthivel. S* |
| D2-T5-283 | 12.15 pm – 12.30 pm | The Electric Foot Tiles Embedded with Piezoelectric Sensor  *Hanes Harini A, Kalaiarasi P, Sandhya U, Devika R, Gayathri V, Gowri S* |
| D2-T5-284 | 12.30 pm – 12.45 pm | Road Traffic Digital-Twin System Via Smart Road Studs  *Jianrong Wang, Weizhi He, Kai Zhao, Xiaojiang Ren, Kai Sheng* |

**TRACK 6: INTELLIGENT WIRELESS COMMUNICATION AND NETWORKS**

**DATE: 19/03/2025 VENUE: AB1 506A**

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| **Track Chairs** | **Dr. Vijaya Kumar P** | **Dr. Berlin Hency V** |

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| **Invited Talk** | **1.30 pm – 2.00 pm** | **Dr. M. D. Selvaraj**  IIITDM, Kancheepuram |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D1-T6-87 | 2.00 pm – 2.15 pm | Energy-Efficient Cooperative Attack Algorithms for UAV Swarms in Dynamic Environments  *Pradeep Kumar G, Teena S, Meenakshi R, Pooja K V, B.Sridevi, P.Suveetha Dhanaselvam* |
| D1-T6-150 | 2.15 pm – 2.30 pm | Cyber-Bullying Detection on Social Networking using NLP Algorithm  *Zibeon Samuel Moses, Sandra Maria George, Scinthia Clarinda* |
| D1-T6-175 | 2.30 pm – 2.45 pm | Drive Sense Pro  *Sivasankari K, Valarmathi G , Anouska P, Anitha Kamalin N, Mahalakshmi S* |
| D1-T6-228 | 2.45 pm – 3.00 pm | Real-Time Class Attendance Monitoring via Facial Recognition using Jetson Nano  *Chinni Krishna Kowsik P, Uday Reddy H, Mathivanan P, Udhayakumar S* |
| D1-T6-242 | 3.00 pm – 3.15 pm | IoT Based on Electric Vehicle Battery Monitoring System  *Tharani.R, Menaka M, Pemila, Dhanush Kumar.N, Dhanush.M , Dharnidhar.S* |
| D1-T6-294 | 3.30 pm – 3.45 pm | Energy-Efficient 5G beamforming with Embedded systems  *Pranav S, Susila M* |

**TRACK 7: DATA DRIVEN INNOVATIONS IN ELECTRONICS ENGINEERING**

**DATE: 19/03/2025 VENUE: AB1 505A**

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| **Track Chairs** | **Dr. Suganthi K** | **Dr. Logesh R** |

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| **Invited Talk** | **1.30 pm – 2.00 pm** | **Mr. Prem Kumar S R**  Head of Engineering Digital & AI Products |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D1-T7-31 | 2.00 pm – 2.15 pm | Crop Classification and Recommendation System Using Explainable AI  *Rohith R., Gokul Girish, Sudhakaran G., Hema R, Logeswari G.* |
| D1-T7-43 | 2.15 pm – 2.30 pm | Forecasting Carbon Dioxide Emissions In India: Leveraging Historical Fuel Consumption Data  *Gayathri J, Kavitha Subramani, Bhavadharani C, Maheswari M, Sathiya V, Vinmathi M S* |
| D1-T7-50 | 2.30 pm – 2.45 pm | Hate Speech Detection Using Machine Learning And NLP Techniques  *Sritama Roy* |
| D1-T7-66 | 2.45 pm – 3.00 pm | AI-Driven Plant Care and Disease Detection Treatment System *Shobha Rani P, Ashwini B, Chandanavalli P, Priyadharshini K, Lalith Kishore V P, Keerthivasan A* |
| D1-T7-69 | 3.00 pm – 3.15 pm | Optimized Sustainable Harvest Planning with Multi Objective Metaheuristic Algorithms  *Kavitha S, Selvarani P, Brinda P, Santhiya M, Priyanka M, Shakthi Deepti SS* |
| D1-T7-82 | 3.30 pm – 3.45 pm | AI-Driven Plant Care and Disease Detection Treatment System *Shobha Rani P, Ashwini B, Chandanavalli P, Priyadharshini K, Lalith Kishore V P, Keerthivasan A* |
| D1-T7-123 | 3.45 pm – 4.00 pm | An Explorative Study of Big Data Analytics in IoT  *Mercy Sharon Devadas, W. Nancy, Jessy Sujana G* |
| D1-T7-160 | 4.00 pm – 4.15 pm | Comprehensive survey on Phishing Detection Using Machine Learning  *Nailah Fathima Khan, Sameen Mehnaz Fathima, Ravi Kumar J* |
| D1-T7-167 | 4.15 pm – 4.30 pm | Timely Synchronized Analysis of Traffic Control Using Machine Learning  *Hussana Johar R B, Manushree M V, Pooja S, Vidhatri M, Yashaswini S* |
| D1-T7-238 | 4.30 pm – 4.45 pm | AI – Integrated embedded framework for real - Time Health Monitoring & Predictive Anomaly Detection in Geriatric Care Systems  *Nazar Ali A, Manimegalai D, Kavin V, Kamalesh T* |

**TRACK 7: DATA DRIVEN INNOVATIONS IN ELECTRONICS ENGINEERING**

**DATE: 20/03/2025 VENUE: AB1 505A**

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| **Track Chairs** | **Dr. Suganthi K** | **Dr. Logesh R** |

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| **Invited Talk 1** | **10.00 am – 10.30 am** | **Mr. Srinivasan Narayanan**  Senior Director  Oracle, Bengaluru |
| **Invited Talk 2** | **10.45 am – 11.30 am** | **Dr. Gunasekaran Thangavel**  University of Technology and Applied Sciences, Muscat, Oman |
| **Invited Talk 3** | **11.30 am – 12.15 pm** | **Prof. Dr. Chih-Yang Lin**  Professor, National Central University, Taiwan |

**Paper presentation schedule:**

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| **Paper ID** | **Time** | **Title of the Paper** |
| D2-T7-245 | 12:15 pm – 12:30 pm | An AI-Driven Approach for Enhancing Patient Healthcare in Resource-Constrained Rural Areas  *Harshavarthan S, Hafeel Ahmed S, Sabareesawaran M, Kavitha T* |
| D2-T7-250 | 12:30 pm – 12:45 pm | Enhancing AI Climate Change Resilience Using Machine Learning  *Khallikkunaisa, Soha Rumana, Rifat Riazahmed Desai, Saba Fathima* |
| D2-T7-287 | 12:45 pm – 1:00 pm | Deep Learning Approaches to Diagnosing Skin Malignancies  *R.Breesha, Jalaja S, Merlin Cm, Mohana Priya S, Priyadharshini V* |