

Schedule for CISCON 2025						
Day	Time	Programs	Venue	Presenter/ Session in Charge	Session Coordinator (ICE dept.)	Session Volunteer
Day – 1 1st August 2025	8:30 AM - 9:30 AM	Break-Fast				
	9:30 AM – 10:30 AM	Inauguration	MV Seminar Hall	Director of MIT, Chief Guests		
	10:30 AM - 10:45 AM	Tea Break				
	10:45 AM – 11:30AM	Keynote 1	MV Seminar Hall	Dr. Shankar Venugopal, Vice President, Mahindra & Mahindra		
	11:30 AM – 12:15 PM	Keynote 2	MV Seminar Hall	Dr. Ravi Kumar L. (Sci. Engr. 'G' and Group Director, U R Rao Satellite Centre, ISRO, Bengaluru)		
	12:15 PM – 1:30 PM	Lunch Break				
	1:30 PM – 3:00 PM	Session 1	ICE Lab 6	Track 1.1: Communication and Signal Processing (CSP)	NG	Rolen
			ICE Lab 5	Track 1.2: Control, Instrumentation, and Automation (CIA)	MKM	Vasavi
			ICE Lab 7	Track 1.3: Cyber Physical Systems (CPS)	NA	David
			ICE Lab 9	Track 1.4a: Data Science and Engineering (DSE)	SN	Sonal
			ICE Lab 3	Track 1.4b: Data Science and Engineering (DSE)	NN	Vrinda
			ICE Lab 4	Track 1.6: Sustainable Technologies (ST)	PCSB	Padmavathi
	3:00 PM - 3:30 PM	High Tea				
	3:30 PM- 5:00 PM	Session 2	ICE Lab 7	Track 2.2: Control, Instrumentation, and Automation (CIA)	BK	Vasavi
			ICE Lab 6	Track 2.3: Cyber Physical Systems (CPS)	SY	Vasantha
			ICE Lab 3	Track 2.4a: Data Science and Engineering (DSE)	NGH	Nisarga
			ICE Lab 4	Track 2.4b: Data Science and Engineering (DSE)	BM	Maargavi
			ICE Lab 9	Track 2.5: Interdisciplinary Systems Design (ISD)	RB	Sreehari
			ICE Lab 5	Track 2.6: Sustainable Technologies (ST)	CJ	Ankita
Day – 2 2nd August 2025	8:30 AM - 9:30 AM	Break-Fast				
	9:30 AM - 10:30 AM	Keynote 3	MV Seminar Hall	Dr. (Mrs.) Manju Nanda (Chief Scientist, CSIR - NAL)		
	10:30 AM - 11:00 AM	Tea Break				
	11:00 AM - 12:30 PM	Session 3	ICE Lab 3	Track 3.1: Communication and Signal Processing (CSP)	BM	Rolen
			ICE Lab 4	Track 3.2: Control, Instrumentation, and Automation (CIA)	BK	Vasantha
			ICE Lab 7	Track 3.4a: Data Science and Engineering (DSE)	BRN	David
			ICE Lab 6	Track 3.4b: Data Science and Engineering (DSE)	HG	Sonal
			ICE Lab 5	Track 3.5: Interdisciplinary Systems Design (ISD)	PCSB	Vrinda
			ICE Lab 9	Track 3.6: Sustainable Technologies (ST)	RB	Padmavathi
	12:30 PM - 1:30 AM	Lunch Break				
	1:30 PM - 3:00 PM	Session 4	ICE Lab 3	Track 4.2: Control, Instrumentation, and Automation (CIA)	VKS	Vasavi
			ICE Lab 4	Track 4.3: Cyber Physical Systems (CPS)	SN	Vasantha
			ICE Lab 5	Track 4.4a: Data Science and Engineering (DSE)	NG	Nisarga
			ICE Lab 6	Track 4.4b: Data Science and Engineering (DSE)	NN	Maargavi
			ICE Lab 7	Track 4.4c: Data Science and Engineering (DSE)	AA	Sreehari
			ICE Lab 9	Track 4.6: Sustainable Technologies (ST)	CRS	Ankita
	3:00 PM - 3:15 PM	Tea Break				
	3:15 PM- 4:45 PM	Session 5	ICE Lab 3	Track 5.2a: Control, Instrumentation, and Automation (CIA)	VKS	Rolen
			ICE Lab 4	Track 5.2b: Control, Instrumentation, and Automation (CIA)	MKM	Nisarga
			ICE Lab 5	Track 5.3: Cyber Physical Systems (CPS)	SY	David
			ICE Lab 6	Track 5.4a: Data Science and Engineering (DSE)	NGH	Sonal
			ICE Lab 7	Track 5.4b: Data Science and Engineering (DSE)	PM	Vrinda
			ICE Lab 9	Track 5.5: Interdisciplinary Systems Design (ISD)	GN	Padmavathi
	4:45 PM - 5:30 PM	Valedictory				
	5:30 PM - 6:00 PM	Send-off Tea				

Tracks	Paper ID	Paper Title	All Authors
Track 1.1: Communication and Signal Processing (CSP)	204	Breadboard++: A Programmable Device for Dynamic Circuit Prototyping	Akash A S, Arjun Deepu
	538	Image Tampering Detection Using Multi-Feature Scoring and PCA-Based Classification	Mr. M. Deenadhayalan, Mr. R. Navin Kumar
	842	Securing Images by Embedding Encoded Images in QR Codes	Ms.Vipina Valsan, Mr.Abbaraju Sree Tharun Raju, Mr.Sarvan Sri Sai Pilli, Mr.Teja Sindhukuri, Mr.Mukesh Koragangi
	848	Design of Microstrip Patch Antenna Using Machine Learning	Ms.Vipina Valsan, Mr.Abbaraju Sree Tharun Raju, Mr.Sarvan Sri Sai Pilli, Mr.Teja Sindhukuri, Mr.Mukesh Koragangi
	987	A Dynamic Hybrid Adaptive Routing Algorithm for Optimizing Performance in Wireless Network-on-Chip Systems	Mr. Guru Dev Singh, Dr. Ranjana Rajnish, Dr. Meenakshi Srivastava, Mr. Mohd Sarfaraz Faiyaz, Ms. Zuhra Maksudi
	135	Phonocardiogram based cardiovascular abnormality detection	Dr. Rajeshwari B.S, Dr. Sheela S.J
	235	Optimizing Routing Protocols in Grid-Based Underwater Wireless Sensor Networks for Enhanced Performance	K Sathish, Ravikumar CV

Track 3.1: Communication and Signal Processing (CSP)	236	Investigating Vibration-Induced Particle Motions in Water for Improved Acoustic and Hydrodynamic Applications	K. Sathish, Sivakumar Rajendran
	338	Enhancing Reflected signal loss and Transmission loss of RF MEMS Shunt Switches with TiO ₂ and ZnO Materials for Ka-Band Applications	Dr. Anitha Gopalan, Mr.Kompala Monesh Babu
	377	Optimized Rectangular Slot Design for Enhanced Gain and Bandwidth at 2.4 GHz in CPW-Fed Microstrip Patch Antenna	Ms. Shreeya H. Thamanam , Dr. Jeane Marina D'Souza , Dr. Subraya Krishna Bhat
	433	Bayesian Classifier for Convolutional Codes of 1/2 code rate	Mr.Deepak Vittal V , Mr.Shanmughasundaram R
	528	Energy-Aware Stability Enhanced Routing Objective Function (EASER) Algorithm for Enhancing Efficiency in Low Power Lossy Networks	Mr. Sreenivasa M S, Dr.S.Bhargavi Latha
	533	HYBRID VARIATIONAL MODE DECOMPOSITION AND DEEP CNN FOR ROBUST EEG BASED EMOTION RECOGNITION	Mr. M. Deenadhayalan, Mr. R. Navin Kumar
	709	A Real-Time EEG Signal Artifact Detection Using Integrated ICA and Machine Learning Techniques	Mr. T. Yuvaraj , Mrs. S. Saradha
	81	Dynamic Equilibrium Control of a Ball-on-Beam System: Newtonian Modeling and Stabilization Techniques	Niha Singhanian, Vidya S Rao, Bipin Krishna, Mukund Kumar Menon, Kavyashree

Track 1.2: Control, Instrumentation, and Automation (CIA)	689	Design of Read-Out Circuit for Ion-Sensitive FET Using 45nm CMOS Technology Node	Ms. Ankkitha, Dr. Atanu Das
	182	Customer Support Ticket Generation using RPA	Ms. Swati Jha, Mr. B Abhiram, Mr. V Ramkumar
	469	A New No-Equilibrium Hyperchaotic System and its Synchronization for Control Applications	Dr V. Sundarapandian, Dr R. Rameshbabu, Chittineni Aruna, Mallikarjuna Rao
	788	Analysis and Design of a Multi-Input Multi-Output Buck-Boost Converter for Enhanced Renewable Energy Integration	PROF. PRIYA S, ANITHA S
	129	Smart Highway Overtaking: IoT-Driven Communication for Safer Roads	Jennifer C Saldanha, Wilroy S Dcunha, Abhishek G M, Ranjith R, Anand M Acharya
Track 2.2: Control, Instrumentation, and Automation (CIA)	470	Bifurcation Results and Amplitude Control of a Novel Multistable Chaotic System having Two Stable and One Unstable Rest Points	Dr R Rameshbabu, V. Sundarapandian, Chittineni Aruna, P.S.Gomathi
	265	BATTERY HEALTH MANAGEMENT BASED ON DIGITAL TWIN TECHNOLOGY	Dr. Kavitha B.C, Dr. Pallavi Singh, Dr. Kavitha M., Mr.Althaf Hussain Shaik, Ms.Archana Kuruba, Mr.Krishna Babu Jampala
	629	Development and Implementation of an Intelligent Deep Learning-Based Brain Tumor Detection System Integrated with Raspberry Pi for Real-Time Diagnostic Applications in the	Dr. Shubhangi Joshi, Rupali Vijay Ithape, Sheetal Sachinkumar Mali, Priyanka Suhas Dhumal, Dr. Shashidhar V., Dr. T.C.Manjunath

Instrumentation, and Automation (CIA)	95	A Smart Device for Power Sharing and Prepaid Metering in Micro Grid	Dr. Mamatha I., Mr. A Jagadeesh, Mr. S Praneeth Verma, Ms.A Sreeja Reddy
	861	Implementation of Low-Cost Mini Drone for Ariel Surveillance and Automation	S Rowan Reynold , Ankitha Y Nayak , Devika Sreeraj , Dr Manjunath R Kounte
	37	Accessible Online Payment Billing Machine for Visually Impaired	Dr. C. Suganthi Evangeline, Ms. A. Barani Priyadharshini, Ms. V. Harini, Mr. S. Jeyagowtham, Ms. S. Kavinaya
Track 3.2: Control, Instrumentation, and Automation (CIA)	471	Nonlinear Adaptive Control and Bifurcation Results of a Novel Multistable Chaotic Model	Dr R Rameshbabu, Dr V. Sundarapandian, Chittineni Aruna, Sarathkumar Annavarappu
	405	IoT-Based ATM Security System with RFID and SMS Control	Dr. Jyoti Neeli, Ankith S Menon, Y James Hansel Raj, Akash P
	406	Frequency Abnormalities control of Two Area Interconnected system using Firefly Algorithm	B. Shiva Shankar Reddy, P. Rajashekar, Y. Siva Kumar Reddy, J. Rupavani, K. Sanjeeva, B. Vijay Sundar
	325	Efficiency Improvement and Development of Electrostatic Motors	Dr. Dakka Obulesu, Mr. Rajib Kumar Kar , Mr. Amit Dutt , Mrs. B. Rajalakshmi and Mr. Fatimah Dhari Jabbar
	346	Concert evaluation of two - segment grid - associated PV converter with PR controller	Dr. Anitha Gopalan, Mr. Kompala Monesh Babu

	438	Teleoperated Soft Vine Growing Robot	Grace Maria George, Sudheesh Devadas, Amal Krishna, Jain varghese, Sabin johnny, Athira P Preman, C. Karthik
Track 4.2: Control, Instrumentation, and Automation (CIA)	472	Bifurcation Results and Dynamic Analysis of a New Hyperchaotic Hyperjerk System for Secure Communication Applications	Dr V Sundarapandian, Chittineni Aruna, Dr R Rameshbabu, Sathyanarayana Reddy
	386	Optimization of Greenhouse using Real Time Monitoring and Control System using PSO Algorithm	Dr. Jyoti Neeli, Ankith S Menon, Y James Hansel Raj, Akash P
	437	Design and Implementation of an Umbrella Dryer using cyclonic airflow	Thashfal Migdad B.C, Melvin Alex, Jithin George Thomas, Finu Fawas, Jinesh K J, Jain Varghese, Athira P Preman, C.Karthik
	439	Real-Time Stray Animal Management System Using IoT and Computer Vision	Mrs. Soumya C., Mr. Akash Hari K., Dr. Jithin K. Jose, Mr. Eldhos Sunny, Mr. Navaneeth Krishna P.
	481	Energy Management of DC Microgrid with Solar and Battery Integration	Ms. Nithyasri V, Ms. Lavi Sharma, Ms. Bandi Pranavi, Dr. P Sankar, Dr. M Kavitha
	485	Dynamic modeling, Stability and Trajectory Tracking Control of a Surveillance Quadcopter	BHAVYA SOBHANAKUMAR, RAJESH GHOSH, ASHIMA C R, Dr. S. KANAGALAKSHMI

Track 5.2a: Control,
Instrumentation, and
Automation (CIA)

529	Enactment of SL dq Control for Isolated Inverter with Nonlinear Loads	Mr. Sreenivasa M S, Dr.S.Bhargavi Latha
584	Analysis of Turret Gun System with Advanced Control Strategies	Priya Kumari , Dr. Vijaya. S. Rajguru , Dr. Sarala Adhau
680	Weed Detection System using Machine Learning for Real-Time Application	Mr. Abhishek K Guttedar , Dr. Shashi Raj K , Mr. Adithya A R, Mr. Jatin C R, Mr. Rohan Mali
703	Reinforcement Learning Agent – Based Traffic Signal Management System for Four Way Junction.	Satish Muppidi, Balajee Maram, V.Malathy, J Anitha, Alok Misra, U D Prasan
749	Simulation-Based Smart Wheelchair Navigation Using YOLO and R-CNN with Customized A* Algorithm.	Ms.G.Sakthi Priya, Mr.K.Vignesh Saravanan, Mr.K.S.Advaith, Mr.R.Subramani Raja, Mr.David W Joshua

Track 5.2b: Control,
Instrumentation, and

127	Advancing Level 2 Autonomy: The Role of Vision Systems and Sensor Fusion in Driver Assistance	Jennifer C Saldanha, Wilroy S Dcunha, Abhishek G M, Ranjith R, Anand M Acharya
834	Voice-Enabled Smart Automotive Assistant System	Akshay S, Sneha K, Tejas Suresh Desai, Kallesh Patel B U, Shreyas R
880	Ayurveda Plant Identification and Information Retrieval Using Image Processing and GenAI	Dr.Mohideen Badhusha S, Shubhanga CS, Vrushabh Jain A, Veda Ishwar Chavan

Instrumentation, and Automation (CIA)	899	Black-Box modeling of a Multivariable Didactic Process Module using System Identification	Dr Saravanakumar Gurusamy, Dr D Ganesha Perumal, Mr Natnael Shiferaw Belete, Mr Biniam Legesse Ashagre
	1064	Performance Evaluation of Reduced Switch Topology for Seven Level Inverter Using SHE and LS-PWM Techniques	Naveen Kumar S B, Manjunath K C, Shamanth K S
	477	Bifurcation Results of a New Chaotic Jerk System for Cyber Security Applications	Dr V Sundarapandian, Dr R Rameshbabu, Chittineni Aruna, Raghava Raju
Track 1.3: Cyber Physical Systems (CPS)	67	A Robust Multi-Hop LoRa-Based Emergency Communication System for Maritime Safety	Dr. C. Suganthi Evangeline, Ms. A. Barani Priyadharshini, Ms. V. Harini, Mr. S. Jeyagowtham, Ms. S. Kavinaya
	195	Comparative Analysis of AI-Driven IoT-Based Surveillance Systems for Enhanced Security	Dr. R. Rajavel, and Mrs. D. Suganya
	246	SEAT-FA: Automated Sub-domain Enumeration Tool for Security Auditing of Fintech Industries	Mr. Niranjan Hegde, Mr. Shashank B S, Dr. Durbadal Chattaraj
	567	Exploring UWB-Based Vehicle-to-Vehicle Communication in Changing Signal Environments	Dr Santhosh KV
	857	Scalable and Reference-Independent Hardware Trojan Localization using Graph Attention Networks for Enhanced Security	Ms. Keerthana C P, Dr. Nirmala Devi M

	938	Smart Detection of Malicious SMS Using AI: A Security Solution for Android Devices	Mr. Poliseti Sri Ganesh, Mr. N Amarnath Rao, Mr. GVS Kowshik, Mr. Chinta Mahesh Kumar
Track 2.3: Cyber Physical Systems (CPS)	985	IoT-Integrated Smart Parking for Urban Areas	Mr. Guru Dev Singh, Dr. Ranjana Rajnish, Dr. Meenakshi Srivastava, Mr. Mohd Sarfaraz Faiyaz, Ms. Zuhra Maksudi
	1006	Quantum-Safe Protocols Design for IoT Communications: Critical Observation and Analysis	Dr. Durbadal Chattaraj, Mr. Abhishek Paul, Ms. Ananya Kasiraj, Ms. Ananya R, Ms. Bindurani KP
	74	Malware classification with n-gram based nlp and cosine similarity	Dr. C. Suganthi Evangeline, Ms. A. Barani Priyadharshini, Ms. V. Harini, Mr. S. Jeyagowtham, Ms. S. Kavinaya
	92	Vulnerability analysis of an Electronic Control Unit	Niha Singhanian, Vidya S Rao, Bipin Krishna, Mukund Kumar Menon, Kavyashree
	237	Deep Learning Powered Video Analysis for Anomalous Event Detection	K. Sathish, Sivakumar Rajendran
	648	Analysis of Machine Learning Models for Malware Detection in Network Traffic Data	Eisha Akanksha

Track 4.3: Cyber Physical Systems (CPS)	784	IoT based Real-Time Health Monitoring System (HMS) with integrated Room Environment Control, utilizing ThingSpeak platform and Webserver Technology	Mr. K MUNISIMHA DEEPAK, Dr. RESHMA VERMA, Dr. LAKSHMI SHRINIVASAN
	850	Comprehensive Comparative Analysis of RandLANet and PointNet++ for Aerial LiDAR Semantic Segmentation	Ms.Vipina Valsan, Mr.Abbaraju Sree Tharun Raju, Mr.Sarvan Sri Sai Pilli, Mr.Teja Sindhukuri, Mr.Mukesh Korangani
	859	Decentralized Peer-to-Peer Energy Trading Using IPFS for Transparent and Secure Data Sharing	Ms. Vipina Valsan, Ms. Rashmi Shaik, Mr. Mukhesh Balaji M
	891	Assistive Technologies for the Elderly: Smart Robotic Pill Dispenser using SLAM Algorithm	Ms.M Rachana Srinivas, Mr.Vishnu C.V, Mr.Sougandh Sunil, Dr.Adwitiya Mukhopaday
	926	Development of Fingerprint database Enhancement for IoT Based Indoor Localization using Machine Learning	Mr. Polisetti Sri Ganesh, Mr. N Amarnath Rao, Mr. GVS Kowshik, Mr. Chinta Mahesh Kumar
Track 5.3: Cyber Physical	965	Hybrid LSTM-Based Real Time Energy Demand Forecasting for Smart Grids with Edge Computing	Mr. Polisetti Sri Ganesh, Mr. N Amarnath Rao, Mr. GVS Kowshik, Mr. Chinta Mahesh Kumar
	974	Permission-Based Smart Contract Framework for Decentralized and Secure Medical Record Management in Healthcare	Mr. Guru Dev Singh, Dr. Ranjana Rajnish, Dr. Meenakshi Srivastava, Mr. Mohd Sarfaraz Faiyaz, Ms. Zuhra Maksudi
	992	CYBERSECURITY IN METAVERSE USING STARLING MURMURATION BASED RESIDUAL LONG-SHORT TERM MEMORY	Dr. Jarin T, Ms. Riya Jacob, Ms. Chippi P D, Mr. Manikandan N R, Dr. Ameer Tamoor Khan, Dr. Jithin K Jose

Systems (CPS)	997	A Hybrid Autoencoder-XGBoost Model for Network Intrusion Detection: Performance Analysis on UNSW-NB15 and TON_IoT Network Datasets	Dr. Jarin T, Ms. Riya Jacob, Ms. Chippi P D, Mr. Manikandan N R, Dr. Ameer Tamoor Khan, Dr. Jithin K Jose
	1035	An IoT based Assessment in Workspaces: Indoor Air Quality vs Thermal comfort	Dr. S. Shriram
	460	Web Application Security System with Automated Recovery and Threat Mitigation	Mrs. Soumya C., Mr. Akash Hari K., Dr. Jithin K. Jose, Mr. Eldhos Sunny, Mr. Navaneeth Krishna P.
Track 1.4a: Data Science and Engineering (DSE)	186	Video Dehazing and Object Detection using Deep Learning	Ms. Swati Jha, Mr. B Abhiram, Mr. V Ramkumar
	189	Assessing Fairness and Transparency in Credit Scoring Using Explainable AI	Ms. Swati Jha, Mr. B Abhiram, Mr. V Ramkumar
	194	Enhancing Investment Decisions in P2P Lending Using Machine Learning	Nithya BN, Sailaja Bhaskar Murthy, Samudyatha D S
	221	A Trace-Driven Framework for Generating Realistic Synthetic Microservice Interactions	Akash A S, Arjun Deepu
	611	Thermal Imaging and Deep Learning for Bearing Fault Diagnosis in Induction Motors	Dr. R. Rajavel, D. Suganya

	671	DeepSwarmNet: a Lightweight Deep Learning Model for Kidney Cancer Detection using CT Scans	Mrs. Manjari Joshi, Dr. A. K. Pal, Dr. Ankita Pandey
Track 1.4b: Data Science and Engineering (DSE)	45	Empowering the Future: AI-Driven Smart Education for Underprivileged Learners	Dr. C. Suganthi Evangeline, Ms. A. Barani Priyadharshini, Ms. V. Harini, Mr. S. Jeyagowtham, Ms. S. Kavinaya
	71	Enhancing Cryptographic Misuse Detection in Source Code using AST and ML Techniques	Dr. C. Suganthi Evangeline, Ms. A. Barani Priyadharshini, Ms. V. Harini, Mr. S. Jeyagowtham, Ms. S. Kavinaya
	112	Lip Movement Reading Using Convolution Neural Network with Bidirectional LSTM	Sonal Alvisha Dcunha, Sinchana A J, Anantha Murthy, Harshitha G M, Keerthi Shetty
	126	Brain Tumor Detection in Brain MRI Slices using Fused Deep Features	Sonal Alvisha Dcunha, Sinchana A J, Anantha Murthy, Harshitha G M, Keerthi Shetty
	192	Parametric and Non-Parametric Analysis on Metaheuristic based Event Recommendation System	Nithya BN, D. Evangelin Geetha, Rudreshwari G
	302	Development of a Skin Disease Identification System Using Convolutional Neural Networks and Django Framework	Ritu Pal, Hari Singh Joshi, Sharad Pratap Singh, Jagdish Chandra Patni, Ayush Kumar, Kabir Bhatt, Arya Bandhu
	256	Enamel Caries Detection in Tooth Photographs: A Study with EfficientNet Models	Mr. Niranjana Hegde, Mr. Shashank B S, Dr. Durbadal Chattaraj

Track 2.4a: Data Science and Engineering (DSE)	277	EYES IN THE THICKET: A NEURAL GAZE FOR INVISIBLE WILDLIFE ENCOUNTERS	Dr. Kavitha B.C, Dr. Pallavi Singh, Dr. Kavitha M., Mr.Althaf Hussain Shaik, Ms.Archana Kuruba, Mr.Krishna Babu Jampala
	193	Improved Quantum Neural Network for Intrusion Detection and Blowfish for Data Security	Nithya BN, Sailaja Bhaskar Murthy, Samudyatha D S
	314	Enhancing Software Quality with Gen AI Powered Crowdfunding	Maddi Yashaswini, Kapuganti Nithya Sree, Kukutla Vishnu Vardhan, Kukunarapu Manikanta, Lanke Pallavi
	353	Enhancing Text Summarization Techniques: Comparative study of BART and T5 Models	Dr. Anitha Gopalan, Mr.Kompala Monesh Babu
	369	Smart Predictive Maintenance: ML-Driven Fault Detection & Dashboard Insights	Gaurav Kaushik, V Maria Anu
Track 2.4b: Data Science and	380	Enhancing Online Learning: A Platform for Aspiring Tech Students	Dr. Jyoti Neeli, Ankith S Menon, Y James Hansel Raj, Akash P
	409	Impact of Data Preprocessing on Machine Learning Classification Metrics	Vani E S, Dr. Manjula Gururaj, Dr. Karunakara Rai
	417	Reinforcement Learning for Intelligent Healthcare Systems: Optimizing Patient Treatment and Resource Allocation in Dynamic Clinical Environments	Vani E S, Dr. Manjula Gururaj, Dr. Karunakara Rai

Engineering (DSE)	422	Estimation of State of Health and Remaining Useful Life of EV Batteries Using a Hybrid Recurrent Neural Network Model	Mr.Deepak Vittal V , Mr.Shanmughasundaram R
	428	Hybrid Quantum-Classical Approach for MRI-Based Brain Tumor Detection and Classification	Mr.Deepak Vittal V , Mr.Shanmughasundaram R
	430	Image-Based Oral Cancer Detection with Advanced Deep Learning Methodologies	Mr.Deepak Vittal V , Mr.Shanmughasundaram R
Track 3.4a: Data Science and Engineering (DSE)	795	SIViT: Scrap Inspection Vision Transformer Fine-Tuned with LoRA for Industrial Scrap Classification	Dharshan A, Rishikaandh Devadoss, Pravin R F, Dr. S. Ravimaran, Dr. U. Srinivasulu Reddy
	846	Machine Learning Based Osteoporosis Detection	Ms.Vipina Valsan, Mr.Abbaraju Sree Tharun Raju, Mr.Sarvan Sri Sai Pilli, Mr.Teja Sindhukuri, Mr.Mukesh Koragangi
	858	Hand Movement Classification from sEMG Signals Using Machine Learning	Ms. Keerthana C P, Dr. Nirmala Devi M
	980	Exploring Ensemble Learning Strategies for Robust Medical Deepfake Detection	Mr. Guru Dev Singh, Dr. Ranjana Rajnish, Dr. Meenakshi Srivastava, Mr. Mohd Sarfaraz Faiyaz, Ms. Zuhra Maksudi
	981	Seismic and Geospatial Feature Integration for Earthquake Magnitude Prediction Using Machine Learning	Mr. Guru Dev Singh, Dr. Ranjana Rajnish, Dr. Meenakshi Srivastava, Mr. Mohd Sarfaraz Faiyaz, Ms. Zuhra Maksudi

	1039	Interpretable Deep Learning Model for Sensitive Detection of Post-Viral Neurological Complications Using Brain MRI	Dr.Balajee Maram , Dr. Venktakotireddy.G
Track 3.4b: Data Science and Engineering (DSE)	479	Pet Sentiment Analysis Using Deep Learning Methods	Ms. Nithyasri V, Ms. Lavi Sharma, Ms. Bandi Pranavi, Dr. P Sankar, Dr. M Kavitha
	535	Fungal Keratitis Classification using Advanced Meta-Ensemble Learning Techniques	Mr. M. Deenadhayalan, Mr. R. Navin Kumar
	558	Enhancing Stroke Prediction: Integrating Genetic Algorithm-Based Feature Selection with Machine Learning Models	Santhosh C S , Nisha P , Siddesha S , Narendra Khatri , Hiren K Mewada , Praveen Kumar Shukla
	640	Improved Speaker Recognition with Convolutional Neural Networks and MFCC Feature Extraction	Mrs. Navya A., Dr. Nachappa. M. N
	651	AI-Driven Fraud Prevention in Agricultural Subsidies: Advances in Deepfake Detection, AI-Generated Voice Forensics, And Blockchain-Enabled Security	Mrs. Mayuri K P, Dr. Ravi Hosur, Mrs. Amitha S K , Mr. Chidananda K
	665	Optimized Transfer Learning with Xception for DR Grading: A Data Augmentation and Balancing Approach	Mrs. Manjari Joshi, Dr. A. K. Pal, Dr. Ankita Pandey
	682	Refining Predictive Learning Models through Adaptive Feature Selection in Educational Data Analysis	Ashwini S Chavan, Shalabh Gaur, Naga Lalitha Sree Thatavarthi, Dr.Madamala Nagabhushana Rao,V Sai Anusha

Track 4.4a: Data Science and Engineering (DSE)	693	Deep Ensemble Learning for the Identification of Uncommon Retinal Conditions in Fundus Imaging	Balajee Maram,Jagadish Sripelli, D Siva Raja Kumar,Rajeshwari.B, Rohan Raj Maram,U D Prasan
	695	Self-Supervised Deep Learning for the Classification of Musculoskeletal Anomalies in MRI Scans	Satish Muppidi, Balajee Maram, V.Malathy, J Anitha, Alok Misra, U D Prasan
	735	Optimization of Foundation Design using Support Vector Machines	Mr. Sahil K. Gupta, Miss Kimsy Gulhane, Mr. Ravi Kant Sahu, Miss Bhumika Joshi, Miss Merlyn Sharma,
	747	Handwriting as a Window to Mental Health: Classifying Psychological States from Handwriting Using Deep Learning Approach	Mr. Akshay S, Ms. Rakshitha B S, Ms. Aishwarya M, Ms. Sahana M S
	748	A Unified Framework for Gender and Emotion Recognition in Facial Images Using Deep Learning Techniques	Ms.G.Sakthi Priya, Mr.K.Vignesh Saravanan, Mr.K.S.Advaith, Mr.R.Subramani Raja, Mr.David W Joshua
Track 4.4b: Data Science and	768	Transforming Classrooms with Adaptive Content: From One-Size-Fits-All to Personalized Mastery	Nagarathna C R ,Tejaswini R Murgod, Nandini G , Bhagya K, Santrupth B C, Anoop G L
	780	Modelling and optimization of Biodiesel production using Advanced Machine Learning: - A study	Nagarathna C R ,Tejaswini R Murgod, Nandini G , Bhagya K, Santrupth B C, Anoop G L
	816	Real-Time Plant Disease Detection in Field Conditions using Deep Learning	Dharshan A, Rishikaandh Devadoss, Pravin R F, Dr. S. Ravimaran, Dr. U. Srinivasulu Reddy

Engineering (DSE)	820	Non-Invasive Analysis of Chilli Powder Adulterant Using Machine Learning	Dr.Supriya P, Dr.Haripriya Ravikumar
	864	DESIGN AND DEVELOPMENT OF A MULTILINGUAL OCR PLATFORM FOR HISTORICAL DOCUMENT DIGITIZATION AND ACCESSIBILITY	Mr.Vignesh.V,Mr.Santhosh.R,Mr.Naveen.D,Dr.M.Sivarathinabala
	888	A Hybrid CNN – PNN Approach For Animal Footprint Detection	Dr. Balaraman Sundarambal , Mr.R. Senthil Kumar, Dr. N. Kirubakaran,Vishali Muralidharan,Bhanupriya M,Navinaa G
Track 4.4c: Data Science and Engineering (DSE)	892	Impact Of Peer-Based Feedback Mechanisms On Understanding Programming Language	Mr. Vinayakhegde , Ms. Bhoomika G V, Ms. Chaitra S, Ms. Pallavi M S
	898	Exploring Stages of Effective Teaching Skills Implication for Teacher Formatting Assessment to Improvement of Teaching Skills	Mr.Vinayakhegde, Ms. Anusha K L, Mr.Krishnakant Gupta K, Ms.Kanchana V
	901	AI Based Departmental Management System	Mr.R. Senthil Kumar, Dr. N. Kirubakaran,Dr. Balaraman Sundarambal , Mr.C. Selvaganesan, Mr.M.Lokesh M, Mr.M. Ahamed Ismail Hisam
	906	Momentum Matrix: An Integrated Business Intelligence System	, Dr. N. Kirubakaran, Dr. Balaraman Sundarambal ,Senthil Kumar G , Selvaganesan C, Priyadharshini N, Jeeva J V
	907	Optimizing Random Forest for Alzheimer's Disease Classification: A Transparent AI Approach	Arnab Dana, Dr. Maroti Deshmukh, Dr. Surendra Singh

	913	AI-Driven Smart Ambulance and Dynamic Traffic Control System for Optimized Emergency Response	Chidananda K, Dr. Pradeep K R, Dr. Ravi Hosur, Mayuri K P, Mythri S, Rishitha Pathi
Track 5.4a: Data Science and Engineering (DSE)	920	Anxiety Among First-Year Higher Education Students and Its Impact on Academic Performance	Mr. Vinayak Hegde, Ms.Sinchana H S, Ms.Kanchan S , Dr. Pallavi M S
	921	Enhancing Patient-AI Interaction in Healthcare Using Sentiment Analysis with BERT and Hybrid Deep Learning Models	Mr. Poliseti Sri Ganesh, Mr. N Amarnath Rao, Mr. GVS Kowshik, Mr. Chinta Mahesh Kumar
	945	A Review on Neural Network Architectures for ECG-Based Arrhythmia Identification: A Comparative Analysis	Mr. Poliseti Sri Ganesh, Mr. N Amarnath Rao, Mr. GVS Kowshik, Mr. Chinta Mahesh Kumar
	946	Hate Speech Detection and Analysis Using NLP: A Hybrid DB-BiLSTM Approach	Mr. Poliseti Sri Ganesh, Mr. N Amarnath Rao, Mr. GVS Kowshik, Mr. Chinta Mahesh Kumar
	971	Meta-ZeroNAS a Zero-Shot Neural Architecture Search Model for Edge AI with Self-Supervised Task Adaptation and Hardware-Conscious Optimization	Pushpa Latha Thumma , P. Madhuri Paul , S.Sivasankara Rao , Kola Adilakshmi , Vidya Sagar S. D. , Lavanya Addepalli
	998	Ensemble Deep Learning for Parkinson's Disease: A Comparative Study of CNN models	Dr. Jarin T, Ms. Riya Jacob, Ms. Chippi P D, Mr. Manikandan N R, Dr. Ameer Tamoor Khan, Dr. Jithin K Jose
	1010	A Maximum Matching Similarity Based Feature Selection Procedure for Email Classification System	Madan H T, Aruna Kumara B, Prashanth K, Ganesha M

Track 5.4b: Data Science and Engineering (DSE)	1031	Crafting and interpreting Forensic Face Illustrations	Ms. Shivani G, Ms. Ramya Bagepalli, Ms. Sanchitha R, Prof. R C Ravindranath, Dr. Kumaraswamy S, Dr. Ruhin Kouser R
	1032	Financial Stress Prediction and Student Retention Analysis Using Machine Learning.	Ms. Ravikala K G, Mr. Harshith M Gowda, Mr. Yash Goyal, Dr. Pallavi M S, Mr. Vinayak Hegde.
	1036	IntegrityShield: Novel Approaches to Multi-Model Authentication and Granular Permission Systems for Sensitive Document Repositories	Sumith Sai Koraboina, Simran Pradhan, Manjunatha Reddy Dubba, Angayarkanni S A, Rajaram V, Balakiruthiga B
	1054	Detection and Prevention of Man In the Middle Attack using DGPR	Ms.Varshini M , Ms.Ashwini Srinivas , Dr.Adwitiya Mukhopadhyay, Ms.Princy KTM,
	1067	Leveraging Telegram Bots for Real-Time AIBased Image Synthesis	Mr. Aniketh Rao, Mr. Arjun Ghanekar, Mr. Manas Dawkhar, Mr. Divyam Chitnis, Prof. Dhirendra Mishra (Dr.)
Track 2.5: Interdisciplinary	3	A comparative study of Propagation Delay and Noise Margin for Various inverter configurations using Cadence Virtuoso	Ms. Samana Nagendran, Mr. Samrat Sharma, Ms. Nandana Kamath, Ms. Aditi Javeri, Dr. Arjun Sunil Rao, Mr. Basavaraj S Sannakashappanavar
	4	Impact of Aspect Ratio on Propagation Delay and Parasitics in CMOS Inverters: A Cadence Simulation Study	Ms Nandana Kamath, Ms Aditi Javeri, Mr Samrat Sharma, Ms Samana Nagendran, Dr Arjun Sunil Rao, Dr Basavaraj S Sannakashappanavar
	393	Design and Implementation of a High-Performance BLDC Motor Speed Controller for Electric Vehicles using the VEGA RISC-V Platform	Dr. Jyoti Neeli, Ankith S Menon, Y James Hansel Raj, Akash P

Systems Design (ISD)	627	Energy-Efficient Posit Multipliers for Optimized VLSI-Based Quantum Computing in Bio-Medical Image Processing for High Speed Computing Applications	Dr. Purohit Shrinivasacharya, Dr. T C Manjunath
	705	Aerial Object Detection and Geopositional Mapping with GPS Integration Operated via Drone	Satish Muppidi, Balajee Maram, V.Malathy, J Anitha, Alok Misra, U D Prasan
	791	Comparative Analysis of Real-Time Shoulder Angle Estimation in Functional Tasks Using MediaPipe and Kinovea	Padmavathi Shenoy, Dr. Meenatchi Sundaram S*, Dr. Senthil Kumaran D, Dr. N Manikandan
Track 3.5: Interdisciplinary Systems Design (ISD)	319	Design of advanced algorithms for supercapacitor assisted electric vehicle drives	Mrs. G.Divya, Mr. E Vijay Kumar, Mr. Amandeep Nagpal, Mr. Hemanth Raju, Mr.Taqi Mohammed Khattab Al-Rubaye
	349	Understanding Stability in Inverter Circuits: Phase Margin and Gain Margin Insights	Dr. Anitha Gopalan, Mr.Kompala Monesh Babu
	446	A Study on Propagation delay and Dynamic power Dissipation of inverter Architectures using Cadence Gpdk90	Mrs. Soumya C., Mr. Akash Hari K., Dr. Jithin K. Jose, Mr. Eldhos Sunny, Mr. Navaneeth Krishna P.
	491	Analyzing the Role of Fan-In on Speed and Power Metrics in CMOS One-bit Magnitude Comparator Architectures	BHAVYA SOBHANAKUMAR, RAJESH GHOSH, ASHIMA C R, Dr. S. KANAGALAKSHMI
	783	Advanced Quad-Port Memory Design Featuring Dynamic Access Prioritization and Write Control	Mr. K MUNISIMHA DEEPAK, Dr. RESHMA VERMA, Dr. LAKSHMI SHRINIVASAN

Track 5.5: Interdisciplinary Systems Design (ISD)	908	A Mathematical Modelling of Macronutrient Composition on Energy Content in Indian Breakfast Foods	Arnab Dana, Dr. Maroti Deshmukh, Dr. Surendra Singh
	915	Design and Development of an Expandable Four Spoked Wheel-Leg Hybrid Mechanism	Mr. Ayaan Sayyed, Mr. Granth Mehta, Mr. Panav Shah, Mr. Jash Jain, Dr. Ravi Terkar
	916	Repurposing waste PET Bottles for Sustainable 3D Printing Filament	Mr. Ayaan Sayyed, Mr. Jash Jain, Mr. Bhuvan Bagwe, Mr. Shoaib Attar
	1028	A Non-Contact Smart Wound Monitoring System using Multi Sensor Data and Machine Learning	Mr. Ayush Mukherjee, Mr. Dishank Shah, Mr. Ayaan Sayyed, Mr. Jaitra Patel
	841	Decentralized Energy Market Mechanism in Microgrids Using Cartesian Co-ordinate System	Ms.Vipina Valsan, Mr.Abbaraju Sree Tharun Raju, Mr.Sarvan Sri Sai Pilli, Mr.Teja Sindhukuri, Mr.Mukesh Koragangi
	166	Deep Learning-Based PWM Control for Single-Phase to Three-Phase Power Conversion in Induction Motors	Ms. Swati Jha, Mr. B Abhiram, Mr. V Ramkumar

Track 1.6: Sustainable Technologies (ST)

258	Design and Analysis of a Rack and Pinion-Based Regenerative Suspension System	Mr. Niranjan Hegde, Mr. Shashank B S, Dr. Durbadal Chattaraj
622	Improving Voltage Stability and Reactive Power Balance in Islanded Microgrids Using an Enhanced Droop Control Method with Adaptive Virtual Impedance	Revannath B. Kakade, Dr.S. Kayalvizhi
631	SMART SOLAR POWER INTEGRATION WITH GRID USING ARDUINO AND GSM FOR REAL-TIME MONITORING	Dr. Shubhangi Joshi, Rupali Vijay Ithape, Sheetal Sachinkumar Mali, Priyanka Suhas Dhumal, Dr. Shashidhar V., Dr. T.C.Manjunath
147	Design and Evaluation of Robotic Mechanism for Cleaning Solar Panels	Ms. Swati Jha, Mr. B Abhiram, Mr. V Ramkumar
667	Design and Development of Tri-fuel Hybrid Vehicle	Mrs. Manjari Joshi, Dr. A. K. Pal, Dr. Ankita Pandey
678	A Novel Approach to Transient Suppression in Power Electronics Using Super capacitor Integration	Amandeep Nagpal, Hemanth Raju, Taqi Mohammed Khattab Al-Rubaye
731	Bandgap Modulation in Sn-Doped V ₂ O ₅ Thin Films: Role of Annealing and Dopant Concentration	Mr. T. Yuvaraj , Mrs. S. Saradha
829	Robust Multi-Sensor Fusion for Autonomous Driving: A YOLOv8-Based Approach with Hungarian Matching	Mrs. SHREELAKSHMI PARVATIKAR, Dr. LAKSHMI SHRINIVASAN, Dr. RESHMA VERMA

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	26	Deepfake Technology and Online Cyber Crime: A Critical Analysis of AI Tools in Unethical Practices	Ms Nandana Kamath, Ms Aditi Javeri, Mr Samrat Sharma, Ms Samana Nagendran, Dr Arjun Sunil Rao, Dr Basavaraj S Sannakashappanavar
	77	Enhanced EV State of Charge Prediction Using DDPG-Optimized PSO	Dr. C. Suganthi Evangeline, Ms. A. Barani Priyadharshini, Ms. V. Harini, Mr. S. Jeyagowtham, Ms. S. Kavinaya
	632	Real-Time Smart Solar Grid Integration Using Arduino and GSM Monitoring	Dr. Shubhangi Joshi, Rupali Vijay Ithape, Sheetal Sachinkumar Mali, Priyanka Suhas Dhumal, Dr. Shashidhar V., Dr. T.C.Manjunath
Track 3.6: Sustainable Technologies (ST)	61	Tuning the Crystallite Size of Metal Doped V2O5 Thin Films via Annealing	Dr. C. Suganthi Evangeline, Ms. A. Barani Priyadharshini, Ms. V. Harini, Mr. S. Jeyagowtham, Ms. S. Kavinaya
	199	Smart Flood Monitoring: AI-Integrated Radar-Camera System for Contamination and Debris Detection	Mr. Ashrith P Jain, Ms. Anjali Devarajan, Mr. Rohan Menon, Ms. Aishwarya H, Mrs. Vinutha Mrs. Moses, Vidya C
	372	Sustainable Innovations in Soft Robotics: Material Analysis for Edible Actuators	Ms. Shreeya H. Thamanam , Dr. Jeane Marina D'Souza , Dr. Subraya Krishna Bhat
	459	FTIR Spectroscopic Characterisation of Crystallinity and Bond Rearrangement in Metal Doped V2O5 Films	Mrs. Soumya C., Mr. Akash Hari K., Dr. Jithin K. Jose, Mr. Eldhos Sunny, Mr. Navaneeth Krishna P.

	539	Structural and Electronic Properties of Donor-Doped V2O5: Insights from Surface Morphology, and Activation Energy Analysis	Mr. M. Deenadhayalan, Mr. R. Navin Kumar
	969	A Novel Electric Scooter Design Featuring a Retractable Solar Panel System for Last-Mile Transport	Mr. Y N V Ganesh, Dr. R Resmi
Track 4.6: Sustainable Technologies (ST)	734	Enhancing Transformer Reliability and Load Management for Sustainable Power Distribution in Smart Cities	Dr. Virendra K. Sharma
	760	Strategic Job Allocation Through Sensor Behavior Analysis Using Random Forest and XGBoost	Sai Bhumika Challagulla, Beena B.M.
	831	Performance & Stability Analysis of Fuzzy-PI Controller in a SPV-Grid Integrated System under LG-Fault Condition	SARAT CHANDRA SWAIN, RITESH DASH, BIRANCHI MAHALA, ARJYADHARA PRADHAN
	852	SPR Grating Structure with Graphene layer for Enhancing the Sensitivity of the Biosensor	Ms.Vipina Valsan, Mr.Abbaraju Sree Tharun Raju, Mr.Sarvan Sri Sai Pilli, Mr.Teja Sindhukuri, Mr.Mukesh Koragangi
	918	An Efficient Review on MPPT Schemes Used in Piezoelectric Energy Harvesting	Mr. Ayaan Sayyed, Mr. Jash Jain, Mr. Bhuvan Bagwe, Mr. Shoaib Attar
	1021	A Smart Microservices-Based Platform for Collaborative Warehouse and Supply Chain Management	Anant Tripathi, Dr. Meenakshi Srivastava, Dr. Namrata Nagpal, Dr. Ranjana Rajnish

	1048	Detection and Classification of Vehicles and its Applications	Mr.Kiran B V , Ms.Harshitha S , Ms.Kamma Pusapuri Madhavi , Ms.Madhura B S , Ms.January Shylla
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