ICTEST-2025

Paper Presentation Schedule

	03-	04-2025 TIME: 9.00 AM - 10 AM, 12 Noon - 1.00 PM TRACK-1: AI, ML & DS VENUE: Hall 1-VASCO DA GAMA				
	SESSIONS: CS-1, CS-4 CHAIR (EXT): Dr Pramod Pavithran					
Sl. No	PAPER ID					
31. NO		TITLE				
1	65	Skin Disease Identification Using CNN				
2	72	Optimizing Acute Myeloid Leukemia Subtype Classification Through Data Balancing Techniques				
3	92	Leveraging Convolutional Block Attention Module in Transfer Learning for Scalable Multi-class Classification of Knee Osteoarthritis				
4	163	Genemate: A Real-Time Animation of a 3D Human Model				
5	439	Al and Machine Learning in Software Testing: Bridging the Gap Between Defect Prediction, Test Automation, and Continuous Integration				
6	474	FEDERATED LEARNING BASED CROP DISEASE DETECTION IN PRECISION AGRICULTURE				
7	497	Efficacy of Topological Data Analysis for Contextual Plagiarism Detection: A Literature Analysis.				
8	559	Her Shield:Speech Emotion Recognition for Women Safety				

	0.	3-04-2025 TIME: 9.00 AM - 10 AM, 12 Noon - 1.00 PM	TRACK-1: AI, ML & DS	VENUE: Hall 2-MARCO POLO		
		SESSIONS: CS-2, CS-5	CHAIR (EXT): Dr Shailesh Si	van		
SI. No	PAPER ID		TITLE			
1	114	Dual Approach for Video Summarization: Key Frame Captio	ning and Audio Summarization			
2	301	AI-Driven Financial Advisory Systems: Optimizing Investmer	nt Strategies with Sentiment Ana	alysis and Predictive Modeling		
3	314	A Comparative Analysis of Medical Image Segmentation util	izing U-Net Architectures : Effici	entNet-B7, Half U-Net and Nested U-Net		
5	451	Learn to Fuse: A Reinforcement Learning Framework for Mu	lti-Focus Image Fusion			
6	458	Cyberbullying Detection Using Fine-Tuned BERT				
7		Smart Farming: Improving Disease Detection in Pepper Leav				
8	584	Enhancing Medical Image Segmentation with 3D U-Net and	Explainable AI for Trustworthy	Healthcare		

		03-04-2025 TIME: 12 Noon - 1.00 PM TRACK-1: AI, ML & DS VENUE:Hall 4-RASLEELA
		SESSIONS: CS-3 CHAIR (EXT): Dr Annie Julie Joseph
SI. No	PAPER ID	TITLE
1	39	ParkIt: An ANPR based Automated Parking Registry Using YOLO And EasyOCR
2	68	Deepfake Image Detection using a Unified Inception-V3-Xception Net Framework
3	164	SignMate: Real-Time Speech to Sign Language Translation
4	492	Impact of Advanced Image Preprocessing Techniques on Automated Chromosome Metaphase Detection with Deep Learning Models

		03-04-2025	TIME: 2.00 PM -5.00 PM	TRACK-1: AI, ML & DS	VENUE: Hall 1-VASCO DA GAMA	
			SESSION: CS-6, CS-9	CHAIR (EXT): Dr Pree	tha Theresa Joy	
SI. No	PAPER ID			TITLE		
1	119	A Custom 1D ResNe	t-GRU Model for Accurate Pork	Adulteration Classification in E	Beef	
2	152	Rectilinear Hybrid E	selief Classifier for Cyber-Physica	al Attack Detection in Water D	istribution Systems	
3	206	SafeDrive: Intelliger	t Pothole Detection and Mappi	ng System		
4	445	Unravelling Protein	-DNA Interaction Predictions: A	State-of-the-Art review		
5	506	Autonomous UAVs a	and Cable-Fusion Technology fo	r Real-Time Coral Reef Health <i>A</i>	Assessment	
6	512	Digital Cultural Her	tage Preservation: A Literature A	Analysis		
7	523	Neural Indicators of	Deception: EEG Data Analysis fo	or Lie Detection		
8	527	Analysing Facial Dyr	namics - Navarasas in Kathakali \	/ideos Using Deep Learning		
9	554	Advancements in so	ftware assisted speech recognit	ion for individuals with speech	n impairments – A comprehensive review	
10	577	Women Stress Dete	ction System using Neural Netw	orks		

		03-04-2025 TIME: 2.00 PM - 3.00 PM TRACK-1: AI, ML & DS VENUE: Hall 2-MARCO POLO
		SESSION: CS-7 CHAIR (EXT): Dr. Jeena Kleenankandy
SI. No	PAPER ID	TITLE
1	171	Automated Vision-Based System for Real-Time Detection and Classification of Rice Diseases using YOLO - NAS
2	291	Automatic Number Plate Recognition Powered by Deep Learning
3	540	ARoma: Revolutionizing Dining Experiences with Augmented Reality Interactive Menus

	03-	04-2025 TIME: 3.00 PM - 5.00 PM TRA	ACK-2 Cybersecurity and Network Technologies	VENUE: Hall 2-MARCO POLO
		SESSION: CS-	10 CHAIR (EXT): Dr. Jeena Kleenankandy	
1	83	ADVANCED RESOURCE ALLOCATION TECHNI	QUES FOR EFFICIENT CLOUD COMPUTING	
2	108	Secured Information Hiding principle for Co	oncealing 448-Bit Key of Blowfish Algorithm on Digi	tal Images using Chess game based Queen placement s
3	132	FAIRHIRE: AI-DRIVEN RESUME PROFILING A	ND TECHNICAL INTERVIEW AUTOMATION	
4	368	Bayesian Neural Network Uncertainty Estim	nation for Detecting Adversarial Attacks on Network	Intrusion Detection Systems
5	422	NOMA-Based Secure Physical Layer Commu	nication in UAV Networks with Artificial Noise Injec	tion
6	434	Enhancing UAV Reliability and Security: A M	Machine Learning-Based Framework for Anomaly Det	ection and Classification
7	443	Investigating the BERT Capabilities with GR	U Model in Semantic Extraction for Short Answer G	rading Tasks: A Regression Problem

04-04-2	2025 TIME:	9.00 AM - 11.00 AM TRACK-3: Image Processing, Signal Processing and Communication Systems VENUE: Hall 1-VASCO DA GAMA			
		SESSION: EC-1, EC-3 CHAIR (EXT): Dr Rajesh Cherian Roy			
SI. No	PAPER ID	TITLE			
1		Sphere Decoding with BER Enhancement in MIMO Systems: A Radius Prediction Approach with Wiener Filtering			
2	165	A data efficient segmentation to localization framework for effective copy move image forgery localization			
3	248	CPW-Fed Monopole Antenna Employing Sierpinski Triangle Fractal Designs for Compact Wireless Systems			
4	264	Deep Learning Models for Classification of Lung Cancer Types from Histopathology Images			
5	351	Performance Evaluation of various Image Enhancement Techniques for Gastric Polyp Detection in the K-vasir Dataset			
6	361	A high-capacity reversible data hiding on grayscale images using threshold-based clustering			
7	500	Comparative Study of Signal Processing Algorithms for Noise Reduction and Sonar Signal Reconstruction			
8	510	Multiple Apex Frame Detection and Emotion Analysis in Micro Expression Videos			

04-04-	2025 TIME:	11.00 AM - 1.00 PM TRACK-3: Image Processing, Signal Processing and Communication Systems VENUE: Hall 1-VASCO DA GAMA			
		SESSION: EC-5 CHAIR (EXT): Dr Jobin K Antony			
SI. No	PAPER ID	TITLE			
1		Spectrally Efficient High-Speed MDM-FSO Using Higher-Order Modes			
2	483	3D-Printed Bionic Arm with Flex Sensor Control			
3	576	Evaluation of Kalman and Unscented Kalman Filters for Multiple Object Tracking in ADAS Applications using the KITTI Dataset			
4	590	ANKLE FOOT ORTHOSIS FOR FOOT DROP			
5	592	Modeling and Evaluation of Photonics RadarLiDAR Configuration for Enhanced Target Detection			

			04-04-2025 TIME: 9.00 AM - 11.00 AM TRACK-4: VLSI VENUE: Hall 2-MARCO POLO
			SESSION: EC-2, EC-4 CHAIR (EXT):Dr. Arun A V
SI.	No	PAPER ID	TITLE
	1	118	K-means Clustering for Image Segmentation Using Approximate Booth Multiplier
	2	167	Optimal Defect Testing of Radiation-Tolerant SRAM for Spacecraft Avionics
	3	174	Development of Configurable Controller ASIC for Spacecraft Power Systems
	4	182	Design & Verification of Reconfigurable SRAM Controller with AMBA AXI Protocol Interface for Automobile Application
	5	496	A Compression Technique for NoC Packets to Enhance Compression Time
	6	502	FPGA-based Adaptive Noise Cancellation System for Audio Systems
	7	552	Differential Amplifier Optimization using Black Widow Algorithm

		04-04-2025 TIME: 11.00 AM - 1.00 PM TRACK-1: AI,ML & DS VENUE: Hall 2-MARCO POLO
		SESSION:CS-12 CHAIR (EXT):Dr. Anil Raj J
SI. No	PAPER ID	TITLE
1	190	MEDVEND:AUTOMATED MEDICINE VENDING MACHINE
2	288	Autonomous Wheeled Robot For Intelligent Supermarket Restocking
3		Performance Evaluation of a Predesigned Compact Bow-Tie Slot Antenna in Medical Imaging
4	454	Fine-Tuning TinyLLaMA and GPT-2 with Proximal Policy Optimization for Sentiment Enhancement and Toxicity Reduction
5	528	An Al-Powered Web Application for Automating Brain Tumor Identification

		04-04-2025 TIME: 9.00AM - 10.00 AM TRACK-5: BE & HT VENUE: Hall 3-KENSINGTON
		SESSION:BE-1 CHAIR (EXT):Dr. Anil Raj J
SI. No	PAPER ID	TITLE
1	449	A Comprehensive Review of the Short-Term Load Forecasting Techniques Using Different models
2	450	Reading Assistance and Obstacle Detection Device for the Visually Impaired
3	570	Attention-Based Feature Fusion With External Attention Transformers for Ovarian Cancer Histopathology Analysis
4	571	Methodology for Automatic diagnosing Colon and Lung Carcinoma using TSA- PSODL Algorithm

		04-04-2025 TIME: 10.00 AM -1.00 PM TRACK-5: BE & HT VENUE: Hall 3-KENSINGTON
		SESSION: BE-2, BE-3 CHAIR (EXT): Dr. Saritha S
SI. No	PAPER ID	TITLE
1	106	Design and development of console-based gaming for balance training in Autism Spectrum Disorder Children
2	159	Recognition and Analysis of Colours Using Generative AI And Brain Computer Interface
3	245	Development of a Wearable Biosensor System for Remote Monitoring of Physiological Parameters to Aid Prognosis and Diagnosis in Indigenous
4	260	Exploring the Distinguishable Characteristics of EEG Signals of Visually impaired Persons (VIPs): Cognitive Load Perspective
5	267	Design and Development of a Novel Volume-Gated Syringe for Precise Dosage Control and Data Logging
6	276	MediLoc:Navigating Healthcare with GIS Precision
7	421	Pediatric Focal Cortical Dysplasia Classification through SPP ConvNet
8	514	A Biomechanical Approach for Assessing Rheumatoid Arthritis Progression
9	585	Deep Learning-Based Seasonal Forecasting of Oceanographic Parameters Using LSTM Networks

		04-04-2025 TIME: 11.00 AM - 1.00 PM	TRACK-1: AI,ML & DS	VENUE: Hall 3-KENSINGTON
		SESSION: CS-11	CHAIR (EXT): Dr. Preetha	a Theresa Joy
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SI. No	PAPER ID		TITLE	
1		Advancing Through the Integration of Deep Neura		Data-Driven Approach
2		Real-Time Weapon Detection and Alerting System		
3	240	An Enhanced Crack Detection System Using YOLOv	11 Model for Underwater Mar	ine Structures
4				A Comprehensive Approach to Public Health Monitoring and
5	470	Blind Assist System for Currency Recognition Using	g Sequential Convolutional Ne	ural Networks
6	511	Fake News Detection using BERT Model		

		04-04-2025 TIME: 3.00 PM - 4.30 PM TRACK-4 VLSI VENUE: Hall 4-RASLEELA	
		SESSION: EC-7 CHAIR (EXT): Dr. Varun P Gopi	
SI. No	PAPER ID	TITLE	
1	8	Hybridized Efficiency: A Combined Approach of Parallel Prefix and Hybrid Adders for High-Performance Arithmetic Circuit	
2	139	Comparitive Analysis of gem5 and ChampSim: Essential Simulators for Microarchitecture Research	
3	233	Comparator Design using Carbon Nanotube Field-Effect Transistors	
4	236	Performance Improvement of 9T SRAM Cell by Efficient Memory Design	
5	586	Novel FPGA based Systolic Array Design for Dynamic Workflows	

		04-04-2025 TIME: 2.00 PM - 4.30 PM TRACK-1 AI, ML, & DS VENUE: Hall 1-VASCO DA GAMA
		SESSION: CS-13, CS-14 CHAIR (EXT): Dr. Varun G Menon
SI. No	PAPER ID	TITLE
1	93	Leveraging Augmented Samples as an Auxiliary Task for Enhancing Spoken Language Identification in Indian Languages
2	217	SecureNest - Smart Home Security System
3	310	FaceFinder: Advanced Facial Recognition and Enhancement for Security and Surveillance
4	348	TRAFFIX: DAPP FOR TRAFFIC VIOLATION REPORTING
5	382	Healthcare-SignNet: Advanced Medical Sign Language Recognition using CNN+LSTM model
6	399	Audio-Based Emotion Analysis Using Deep Learning Techniques
7	550	Machine Learning Integrated Driver Drowsiness Detection System Using Facial Features
8	575	Machine Unlearning in recommendation systems

04-0	04-2025 TIN	ME: 2.00 PM - 3.00 PM TRACK-6 Image Processing, Signal Processing and Communication Systems VENUE: Hall 2-MARCO POLO	
		SESSION: EC-6 CHAIR (EXT): Dr Remya V R	
SI. No	PAPER ID	TITLE	
1	251	AI-Enhanced 2.45 GHz Microstrip Patch Sensor for Milk Adulteration Detection	
2	266	Design and Testing of Circular Patch Antenna at 2.45GHz for Wireless Power Transfer Applications with DGS	
3	432	Augmented Reality Multiplayer Game for Interactive Character Control Using Unity	
4	495	MICROSTRIP ANTENNA FOR NON-DESTRUCTIVE METAL CRACK DETECTION	

04	-04-2025 TIM	IE: 3.00 PM - 4.30 PM TRACK-7 Internet of Things(IoT), Blockchain Technologies and Smart Systems VENUE: Hall 2-MARCO POLO	
		SESSION: EE-8 CHAIR (EXT): Dr Remya V R	
		SESSION. LE GOOGLE CHAIN LENT J. DI Nelliya V N	
SI. No	PAPER ID	TITLE	
1	250	Towards Robust Media Integrity: Semi-Supervised Image Forgery Localization with DeepLabv3 and ELA	
2	350	Initial Setup and Calibration of Direction Control Using Magnetic Field Sensors	
3	494	Development of an IoT-Based Smart System for Toxic Gas Detection and Monitoring of Manholes and Workers	
4	566	Methodology for Identifying the Cancerous Cells in 3D Visualization of Gastric Histopathology Images using CNN LSTM Algorithm	

		04-04-2025 TIME: 2.00 PM - 4.30 PM TRACK-1 AI, ML & DS VENUE: Hall 3 - KENSINGTON
		SESSION: CS-17, CS-18 CHAIR (EXT): Dr. Vince Paul
SI. No	PAPER ID	TITLE
1	79	PrecisionCare: A Personalized Medical Recommendation System Using Artificial Intelligence and Machine Learning
2	227	Generative AI-based Interpretation of Human Ultrametrics and Analysis (GIHUA)
3	391	KPI-Based Analysis and Prediction of Supplier Performance Using Machine Learning
4	424 Towards Secure AI: Detection of Prompt Injection Attacks with Explainability	
5	5 440 Automated Grocery List Generator	
6	448	Automated Banking Complaint Classification using Stochastic Gradient Descent
7	486	Exam Guard: Enhanced Academic Integrity Surveillance System for Real-Time Behavioral Analysis in Examination Settings
8	589	A Topological Deep Knowledge Graph Approach for Protein Interaction : Sheaf Neural Networks in Drug Discovery

05-04-	2025 TIME:	09.00 AM - 10.00 AM TRACK-8: Power Electronics, Power Systems and Renewable Energy VENUE: Hall 1-VASCO DA GAMA
		SESSION: EE-1 CHAIR (EXT): Dr. Deepa Sankar
SI. No	PAPER ID	TITLE
1	189	Analysis of HHO gas production based on the types of Electrodes for Electrolyzer
2	379	Classification Of Partial Discharge Signals Through Acoustic Sensor On Basis Of Propagation Paths
3	429	Fault Detection and Monitoring in Microgrids using Intelligent Controllers and Synchrophasor Integration

	05-04-2025 TI	IME: 09.00 AM - 10.00 AM TRACK-9: Electric & Hybrid Vehicles and Battery Technologies VENUE: Hall 2 - MARCO POLO
		CECCION, EF 2
		SESSION: EE-2 CHAIR (EXT): Dr. Linss T Alex
SI. No	PAPERID	TITLE
1	33	ETEDPOF Gain Optimization for Cuk Converter Fed Induction Motor Coupled with DC Motor for Smart EV
2	104	An InC-based Double Integral Sliding Mode Controlled Synchronous Boost Converter for Grid-Connected Solar EV Charging System With Surplus
3	447	A Review of Dynamic Wireless EV Charging
4	529	A Comprehensive Review of Active Cell Balancing Techniques in EV Battery Management Systems

	05-04-2025	TIME: 10.00 AM - 11.30 AM TRACK-10: Mechatronics, Robotics, Control and Automation	Hall 1-VASCO DA GAMA
		SESSION: EE-3 CHAIR (EXT): Dr. Ani Harish	
SI. No	PAPER ID	TITLE	
1	241	A Holistic Approach to Wheeled Robot Design: Mechanical Structure and Control Strategies	
2	273	Enhanced Design of Rocker-Bogie Mechanism for All-Terrain Military Surveillance Rover	
3	517	UNDERWATER ROV WITH SONAR TRACKING	
4	526	Review on mmWave Radar Sensor for 3-D Mapping	

05-04-20	25 TIME: 1	0.00 AM - 11.30 AM TRACK-7: Internet of Things(IoT), Blockchain Technologies and Smart Systems	VENUE: Hall 2 - MARCO POLO
		SESSION: EE-4 CHAIR (EXT): Dr. Linss T Alex	
Sl. No	PAPER ID	TITLE	
1	354	A SMART DRUG INVENTORY AND SUPPLY CHAIN TRACKING SYSTEM USING IOT	
2	406	Design of Fire Detection System with Extended Range	
3	442	CLOUD-ENABLED UV DISINFECTION SYSTEM FOR REMOTE HEALTHCARE SANITIZATION DURING PANDEMICS	
4	508	Smart Glove Based Sign Language Recognition System of Malayalam Alphabets	

05-04	1-2025 TIMI	E: 11.30 AM - 1.00 PM TRACK-8: Power Electronics, Power Systems and Renewable Energy	VENUE: Hall 1-VASCO DA GAMA
		SESSION:EE-5 CHAIR (EXT): Dr. Deepa Sankar	
SI. No	PAPER ID	TITLE	
1		Effect of active layers on solar device structure	
2	255	Design and Comparison of LCL Filters in STATCOM	
3		Implementation of PV fed QZSI using F28379D TI controller	
4	342	Modular Multilevel Converter based Grid connected DC Microgrid Integrating Wind Energy	
5	501	Smart Solar Flower	

	05-04-2	O25 TIME: 11.30 AM -1.00 PM TRACK-2: Cybersecurity and Network Technologies VENUE: Hall 2 - MARCO POLO
		SESSION:CS-19 CHAIR (EXT): Dr Shailesh Sivan
SI. No	PAPER ID	TITLE
1	280	EDUCHAIN:A BLOCKCHAIN BASED SYSTEM FOR EFFICIENT AND SECURE CERTIFICATE VERIFICATION
2	423	ENHANCED CANOPY STRESS DETECTION IN VERTICAL FARMING USING EXPLAINABLE AI
3	478	SMART GLOVE FOR SIGN LANGUAGE INTERPRETATION AND VOCALIZATION
4	522	UAV-Assisted AR Visualization for Real-Time Agricultural Field Monitoring Using Multispectral Data and U-Net Segmentation
5	555	Deep Convolutional Neural Network-Based Sarcasm Detection and Sentiment Analysis on Social Media

05-04-20	025 TIME: 2	2.00 PM - 3.00 PM TRACK-7: Internet of Things(IoT), Blockchain Technologies and Smart Systems	VENUE: Hall 1-VASCO DA GAMA					
SESSION: EE-7 CHAIR (EXT): Dr. Ani Harish								
SI. No	PAPER ID	TITLE						
1	91	A Comprehensive IoT-Enabled LoRa Tracking System for Enhancing Adventurer Safety and Situational Awareness						
2	97	Smart Healthcare: IoT driven Environmental Integration in EMR systems for Real Time Healthcare Monitoring						
3	405	Analytical Assessment of Prospective Technologies Tailored to Industrial Needs						
4	551	Development of Novel Chronic Kidney Stone and Tumor Detection using Deep Sequential CNN						

		05-04-2025	TIME: 2.00 PM -3.00 PM	TRACK-1: AI.ML, & DS	VENUE: Hall - 2-MARCO POLO		
			SESSION: CS-16	CHAIR (EXT): Dr Shaile	sh Sivan		
SI. No	PAPER ID	TITLE					
1	413	Blockchain-Powered Platform for Microloans and Lending Solutions					
2	425	Comparative Analysis of Machine Learning Models for Speech Disorder Detection					
3	464	Explainable AI for Disease Detection and Body Constitution Analysis Using Tongue Imaging: A Deep Learning Approach for Non-Invasive Diagnostics					
4	524	Explainable AI for Diabetes Risk Stratification Using Severity Index Indicators					