

International Conference on Engineering Trends in Education Systems & Sustainability
ICETESS 2025
April 18-19, 2025

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE, JAIPUR (INDIA)



Springer



MATEC Web of Conferences

Date: 18th April 2025 Time: 2:30pm-4:30pm

Technical Session- 1 (Offline)

Venue – LT-3, A-Block

Session Chair: 1. Dr. Darshanaben Dipak Kumar Pandya

2. Prof (Dr.) Abid Hussain

Keynote Speaker: Dr. Ankit R. Patel

S.No	Paper ID	Paper Title	Author Name
1	102	Temporal Attention-Based Multimodal Networks for Real-Time Proctoring of Online Examinations	B H V S P Subrahmanyam
2	260	Advancements in Crop Disease Detection: A CNN-Focused Approach	Yash Upadhyay
3	147	Novel strategies for electric vehicle charging with solar PV based charging station having power back-up arrangement	Singh Sanjay Ram Singh
4	251	Analyzing Software Defect Prediction using AI Approaches	Divya Sharma
5	40	IoT-Driven Smart Surveillance: Architecture, Design, and Implementation	Dr. Darshanaben Dipak kumar Pandya
6	217	Gamification and Learning through Digital Platforms	Keshav Dev Gupta
7	187	Using AI-Powered Sign Language Generation, Deepfake GAN Technology, and Rural Education Insights to Advance Deaf Education and Communication	Shalini Kulshrestha
8	208	Conceptualizing Learned Helplessness in Higher Education: Investigating the Impact of Multiple Factors	Kusum Lata Jain
9	276	AI-Driven Object Recognition for Sustainable Agriculture: Enhancing Precision with Bounding Box Identification	Dr. Nikita Gupta
10	170	Mobile App for Direct Market Access for Farmers	Charu Upadhyay

Session Coordinator

Dr. Parul Tyagi (9772970343)

Dr. Shalini Kulshrestha (9887295484)

Technical Assistant

Mr. Rakesh Prajapat (9653704654)

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Date: 18th April 2025 Time:2:30pm-4:30pm

Technical Session- 2 (Offline)

Venue – A block Auditorium

Session Chair:1Dr. Vishal Rajendra Trivedi

2. Dr. Sarvesh Kumar

Keynote Speaker: Dr. Anuj Prakash

S.No	Paper ID	Paper Title	Author Name
1	270	Evaluation of services provided by JECRC College Jaipur in Central library	Dr. Kamlesh Maharwal
2	248	DE-FAKE: Counterfeit currency detection	Rakshit Sawarn
3	246	Multi-Agent Traffic Management System for Smart Cities – A Review	Ankita Kapoor
4	245	Tiny ML on Microcontrollers: A Review	Ugyen Jigme Rangdrel
5	244	Diabetes Prediction Based on Machine Learning Techniques: A Review	Agnishwar Raychaudhuri
6	243	Anomaly detection in human behavior using computer vision: A review	Ishika Sahu
7	242	A Multi-Mode Transportation System: Integrating Land, Air, and Water mode	Amit Mithal
8	289	Presentation Attack Detection in Facial Recognition: A Survey into Facial Spoofing Countermeasures.	Ahana Nair
9	254	An AI Driven Approach for Bird Species Conservation	Seema Jogad
10	218	Performance analysis of IEEE 33 Bus and IEEE 69 Bus radial distribution system using backward forward sweep load flow	Ms. Sonali Chadda
11.	292	Efficient circular Fractal Antennas for UWB applications in wireless network	Ms. Vinita Mathur

Session Coordinator

Dr. Vinita Mathur (9828284838)

Ms. Sonali Chadda(8058600010)

Technical Assistant

Mr. Shyam Sundar Sharma (9829610551)

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Date: 18th April 2025 Time: 2:30pm-4:30pm
Technical Session- 3 (Offline)
Venue – LT-4, A- Block

Session Chair: 1. Dr. Udit Mamodiya
2. Dr. M. Firdos Sheikh

S.No	Paper ID	Paper Title	Author Name
1	100	ICT Applications as a Generic Tool to Enhance Communication	Dr. Gaurav Kumar Jain
2	18	Machine Learning for Early Diagnosis and Prognosis of Prostate Cancer: A Comparative Analysis of Predictive Models	Jeeva Jothi. J
3	194	Deep Learning-Based User Behavior Analysis: A Neural Network Approach for Predicting Purchasing Patterns	Swati Paliwal
4	158	Dune Sand Stabilization Using Marble Dust	Subhash Rajpurohit
5	164	A Hybrid model for Classification: Neutrosophic logic meets Machine Learning	Kanika Bhutani
6	86	Unsupervised Information Retrieval: From Classical Models to Neural Architectures	Dr.Swati Agrawal
7	62	Enhancing Retail Marketing Strategies through Big Data Analytics of Consumer Behavior	Ms. Madhu Choudhary
8	235	Performance Evaluation of Photovoltaic Thermal System integrated with Fresnel Lens: A Comprehensive Review	Mr. Ajay Kumar Vashist
9	281	Deep Fuzzy Hypersphere Neural Network model for Anomaly Detection in Edge Computing	Sonali Bhushan Jadhav
10	254	An AI Driven Approach for Bird Species Conservation	Utkarsh Maurya

Session Coordinator
Ms. Kanika Bhutani (9996331017)
Ms. Charu Upadhyay (9549364030)

Technical Assistant
Mr. Yash Kumar Saini (9530028615)

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Date: 18th April 2025 Time: 2:30pm-4:30pm

Technical Session- 4 (Online)

Venue – IBM Lab, A-Block

Session Chair:1. Dr. K. D. Gupta

2. Dr. Shikha Sharma

Keynote: Dr. Vijay Kr. Banga

Link: <http://meet.google.com/xmw-jzvx-ecm>

S.No	Paper ID	Paper Title	Author Name
1	225	ITAS: Intelligent Traffic Automation System	Nikita
2	210	Optimizing Brain Tumour Classification Models through Advanced Image Segmentation Techniques	Anshul Khemka
3	204	AI-Driven Innovations for Genetic Risk Prediction in Healthcare.	Saptadip Das
4	133	Advanced Kinetic Modelling of Poly ethylene glycoladipate–Co–1,12–Dodecane Adipate Synthesis Integrating 2nd Order and Reversible Reactions	B. Yamini
5	7	Innovative Solar Lawn Mower for Smart Agriculture and Sustainable Lawn Care	Sanjay T
6	266	Real Time Carbon Footprint Monitoring in Manufacturing Industries using IOT and ML	Ishita Rakchhit
7	104	A Lightweight Framework for Obstacle Detection in Railway Images Using Fast Region Proposal and Improved YOLO-Tiny Network	Dhanush H
8	222	An In-Depth Analysis of Security and Privacy Issues in Smart Home IoT Systems	Atul Kumar
9	81	Unraveling the Influence of Sensor Characteristics on Robotic Exploration: A Comprehensive Analysis	Sonia Sethi
10	80	Prediction of Rotor Faults in Motor using Non-Decimated Wavelet Transform and Multiple Linear Regression through Multimodal Sensor Signals	S. Selvi
11	219	Geometric approach to calculate motion parameters by implementing inverse kinematics	Harsh Kumar Dixit

Session Coordinator

Ms. Kusum Yadav (9251039750)

Mr. Brijesh Kr. Singh (9587456711)

Technical Assistant

Mr. Manoj Sharma(6375356010)

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**MATEC Web of
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Date: 18th April 2025 Time: 2:30pm-4:30pm

Technical Session- 5 (Online)

Venue – Conference Room, A-Block

Session Chair: 1. Dr. Deepali Atheaya
2. Dr. Paramjit Thakur

Link: <http://meet.google.com/bfn-obdf-czw>

S.No	Paper ID	Paper Title	Author Name
1	67	Electric Vehicle Warning Sound System	K. Santhakumari
2	17	Development of an Electronic System for Tinnitus Frequency Detection and Management	P. Sinthia
3	119	Real-Time IoT Based Monitoring Robot for Women's Security in Public	J. Anish Kumar
4	192	Enhanced Thermal Control in Space Radiators: An SQP-Based Optimization Approach	Irigela Bharghava Vardhan Reddy
5	255	Dynamic Spectrum and Security in Cognitive Radio Networks with Unlicensed Bands	Dolley Maria C
6	166	Integrated Sensing and Communication Using Affine Frequency Division Multiplexing for High-Mobility Scenarios	R. Anil Kumar
7	109	Comparative Analysis of Banana Peel Powder and Neem Leaf Powder as Eco-Friendly Coagulants for Industrial Wastewater Treatment: A Sustainable Environmental Solution	Sheetal Thapa
8	121	Sustainable Industrial Wastewater Treatment: A Comparative Study of Tamarind Seed Powder and Hyacinth Peel Powder as Natural Coagulants	Asha Rani N R
9	11	Enhancing Real-Time Systems: Multi-Rider Transport, Safety Equipment Adherence, and License Plate Modernization	Hemalatha R
10	21	Smart Guardian Women Safety System Based on IOT Technologies	Dr S. Kavitha
11	115	Wear Characteristics of SS308L Fabricated by Wire Arc Additive Manufacturing (WAAM): A Review	Priyanshu Tiwari

Session Coordinator

Dr. Gaurav Jain (6376113352)

Mr. Rizwan Khan (9351539978)

Technical Assistant

Mr. Aashish Sharma(7568440969)

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Date: 18th April 2025 Time: 2:30 pm-4:30pm

Technical Session- 6 (Online)

Venue – CP-4, A- Block

Session Chair: 1. Dr. Reena Dadhich

2. Dr. Nistha Keshwani

Link: <http://meet.google.com/ynx-fiks-tfh>

S.No	Paper ID	Paper Title	Author Name
1	111	A Modelling Review and Recent Progress on Enhancement of Heat Transfer in Microchannel	Sandeep Kandwal
2	220	Development of Waste Heat Recovery Technologies – A comprehensive Review	Dr. Deepali Atheaya
3	122	Futuristic Approach to Cholesterol Detection by Utilizing Non-Invasive Techniques	V.Malathy
4	123	Optimizing Low Light Image Restoration through Deep Learning and Non-Local Means Denoising	V.Malathy
5	124	Harnessing Quantum Computing for Advanced Business Analytics: A New Frontier	Nagendar Yamsani
6	125	Precision Cardiovascular Care: Leveraging LLMs and Leopard Seal Optimization for Automated Diagnosis	Bura Vijay Kumar
7	175	Integration U-net Segmentation and Resnet50 classification model of Aloe vera Plant Leaf Disease Detection and Severity Assessment Techniques	Sakshi koli
8	26	IoT-Based Industrial Safety System for Monitoring Environmental and Electrical Hazards	Dr S. Kavitha
9	293	Advancements in ADAS and integration with Legacy systems	Nouhaad Raza Abidi
10	282	Pedagogical Innovation: Emerging Trends in Engineering Education	Eilia Jafar
11	199	Investigation of Obstacles and Indicators in the Manufacturing Industry: Case Study	Dr. M. P. Singh

Session Coordinator

Ms. B. Uma Maheswari (7014199072)

Mr. Rajan Jha (9664015955)

Technical Assistant

Mr. Bhupendra Singh (9929456216)

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**MATEC Web of
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Date: 19th April 2025 Time: 10:00am-12:30 pm

Technical Session-7 (Online)

Venue – Auditorium, A- Block

Session Chair: 1. Dr. Ruchi Nanda
2. Dr. Sandeep Sharma

Keynote Speaker:Dr. Lavika Goel

Link: meet.google.com/uvo-hybc-oig

S.No	Paper ID	Paper Title	Author Name
1	182	Improving Complex Emotion Recognition Using Transfer Learning and CNN Architectures	Shabanam Bano
2	183	A Comparative Study on Voila Jones and Adaboost Algorithms	Shabanam bano
3	73	A High Boost Transformer less DC/DC with Improved Efficiency for Solar PV Powered Applications	Kanchana, K.
4	189	Measuring Usability: Proposed Set of Metrics and their Role in Software Development	Ruchira Muchhal
5	128	Improving Pest Management through Multi-Site Data Integration and Machine Learning	Srinivas Komakula
6	150	AI Enhanced Cyber Security for Critical Infrastructure	Priyali Mandal
7	94	Skin Cancer Detection through Image Analysis with a Dual-Architecture Deep Learning Approach	SuyashDubey
8	212	Medical Insurance Price Prediction Using Xai	V Dinesh
9	16	Ultrasound-Based Smart Blind Cap for Safe Navigation	Kanchana, K.
10	221	Assessment Of Milk Adulteration Using Sensor Based Spectrophotometer	AvinashKaushal
11	173	Comparative Analysis of Blockchain Consensus Mechanisms in Education System	Naufil Kazi

Session Coordinator
Dr. Renu Sharma (9602423541)
Ms. Ritambhara Parashar(9472512757)

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Date: 19th April 2025 Time: 10:00am-12:30 Noon

Technical Session- 8 (Online)

Venue – CP-6, A- Block

Session Chair: 1. Dr. K. Suresh Sharma
2. Dr. S. Kavitha

Keynote Speaker: Dr. Sergei N. Polbitsyn

Link: <https://meet.google.com/cvz-fbxc-mky>

S.No	Paper ID	Paper Title	Author Name
1	268	Context-Aware Adaptive Wheelchair: AI-Driven Terrain Detection for Mobility Assistance	GunjanGoyal
2	265	Design and Fabrication of Fuel Monitoring System	Sneha Gracy Gidhi
3	285	Malware Detection Using Anomaly Detection Techniques: A Performance-Driven Approach	Anishka Gupta
4	74	A Comprehensive Framework for Conducting Creative Visualization Opportunity Workshops	PrathameshPawar
5	36	Ethical Implications of Artificial Intelligence in Modern Storytelling and Literature	Kapil Joshi
6	196	Legal and Managerial Challenges in Securing Civil Infrastructure Projects	Asha Rani N R
7	93	Comparison Between Fuzzy Logic Controller and P&O Based MPPT in a Solar PV System	Rajendra Prasad Jeenjwria
8	283	Time-Responsive Manufacturing: A Extensive Review of 4DP Applications in IoT and Mechatronic Systems	Neeti Kumari
9	92	Greening the Spark: Ethanol as a Biofuel for Blending with Gasoline for SI Engines	JyotiUmeshPawar
10	267	Sustainability Analysis of Hydrogen fuel cell vehicles and Battery electric vehicles	Yana Parasar
11	226	Decision making methods in supplier selection: A literature and bibliometric review	Paramjit thakur

Session Coordinator
Dr. Kashish Parwani (8387010549)
Ms. Anuradha (9636342171)

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Mr. Narendra Uchaniya (9461017841)

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Date: 19th April 2025 Time: 10:00am-12:30 Noon

Technical Session- 9 (Online)

Venue – CP-4, A- Block

Session Chair:1. Dr. P. Sinthia

2. Dr. Deepa Parasar

Keynote Speaker: Mr. Mel Dioneda

Link: <https://meet.google.com/xmt-rrbj-maz>

S.No	Paper ID	Paper Title	Author Name
1	91	AI-Driven Chatbot for Automated Data Analysis and Interactive Visualization	Sandeep Sharma
2	15	Comparative EEG Analysis of Neural Dynamics in Gamers and Non-Gamers	Nithyasri.K
3	5	Microseismic Monitoring For Real-Time Landslide Detection	KarpagaPriya R
4	95	Analysis of FCN8 and YOLOv8 in Enhancing Road Segmentation for Autonomous Driving	Deepa Parasar
5	103	A Comprehensive Review and Taxonomy on Machine Learning and Deep Learning Approaches for Brain Tumor Classification	Amrita Jain
6	77	Modeling and Simulation of Discrete Event Manufacturing Systems with SDCWorks: Case Studies and Analysis	PrathameshPawar
7	155	Review of meta-heuristic methods used for Big Data query optimization: Research Gap, Difficulties, and Prospects	KushalKanwar
8	75	Embedded system-based brewing	PrathameshPawar
9	76	Graph Analytics for Enhanced Supply Chain Risk Management: Identifying Critical Suppliers Through Centrality and Community Detection Metrics	PrathameshPawar
10	180	Performance Analysis of Wireless NoC Routers in Handling Inter-core Traffic in Tiled Chip Multicore Processors	Nikhil Singh Khatuwal
11	241	Minimized carbon emission in sustainable supply chain distribution using Meta -heuristic	Dr Anuj Prakash

Session Coordinator

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Ms. Swati Vijay (9414648932)

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Date: 19th April 2025 Time: 10:00am-12:00 Noon

Technical Session- 10 (Online)

Venue – IBM, A- Block

Session Chair: 1. Dr. Gaurav Kumawat
2. Dr. Jinesh Jain

Keynote Speaker: Vladimir Gritsichine

Link: <https://meet.google.com/jza-ixnf-gga?authuser=0>

S.No	Paper ID	Paper Title	Author Name
1	163	Detection Of Facial Micro-Expressions For The Recognition Of Subtle Emotions	Naadira Saharn
2	27	5G-Enabled Intelligent Warehouse Management System with RFID Technology	Arun Pradeep
3	191	Elevator Optimization with Real-World Constraint: Weight-Aware Algorithm	Valluri Keerthi Ram
4	22	Real Time Characterization Of Batteries Used For Ev Applications	Mahalakshmi S
5	6	Intelligent Fabric Defect Detection System Leveraging CNN and GAN Algorithms	Dr. R. Karpaga Priya
6	202	Weapon Detection System using YOLO and Convolutional Neural Network	Sandeep Sharma
7	41	Development in Malaria Diagnosis Utilizing Artificial Intelligence Technologies Review Paper	Inkashafalam
8	137	A Modified DEMATEL Method for the Improvisation of Machining Parameters using Causal Relationship Modelling	V Anandan
9	144	An AI Integrated Predictive Modelling for Surface Roughness in Grinding	K. Thirumalai
10	148	A Nutrient Recommendation System for Crops with Climate Prediction Using Random Forest Algorithm	J. Anish Kumar
11.	83	The Role of Deep Learning in Human-Robot Collaboration (Cobots)	Ajay Kumar Mehta
12	88	Analysis Of Performance Indicators and Obstacles in Manufacturing Industry: Case Study	Dr. M. P. Singh

Session Coordinator
Dr. Man mohan Siddh (9413992191)
Ms. Ruchika Solanki (7073075759)

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