First International Conference on Intelligent Machine Processes and AI-Centric Technologies (IMPACT 2025)

Schedule

Date	Time	Session	Paper ID	Event/Paper Title	Author	Session Chair
05 Dec	8.30-9.30	Registration				
05 Dec	9.30-11.00	Inauguration				
05 Dec	11.00-11.30	High Tea				
05 Dec	11.30-12.30	Keynote 1 Dr. Sian Lun Lau, Sunway University, Malaysia Topic: The Autonomy Paradox: Vain AI Systems make decisions we don't understand Session Chair: Dr. M.P. Singh, NIT Patna				
05 Dec	12.30-1.30	Session-1	190	Learning to Generate_A Survey on Meta-Learning Approaches in Generative Modeling	Shoeb Ahmad	1. Dr. Imon Mukherjee, IIIT Kalyani 2. Dr. Shamik Tiwari, IILM University
			517	Hybrid Deep Learning Architecture for EEG-Based Emotion Recognition	Anamika Kumari	
			61	Explainable Deep Learning Model for Lung Cancer Detection Using OEDCNN-VGG Model	Priyanka Rawat	
			14	Comprehensive Prediction of Obesity, Alcoholism, and Smoking manner using Machine Learning Techniques	Smita Pallavi	
			404	Precision Agriculture: an UGV based case study for site specific crop protection	Arnab Mandal	
			528	AI for Education and e-Learning in Indian Higher Technical Education	TRISHA KUMAR	
			526	Enhancing Detection of Fraud Transaction with Unified Ensemble Method for Credit Card and Network Security Using Machine	MADHUP KUMAR	

Date	Time	Session	ID	Title	Author	Chair
				Learning		
			527	Enhancing The Fraud Detection in Digital Transactions Using Hybrid Ensemble Learning Models	MADHUP KUMAR	
05 Dec	12.30-1.30	Session-2	532	Sentiment Analysis on Social Media Data: A Comprehensive Study of Twitter and Facebook Content Using Hybrid Machine Learning Approaches	Sheel Shalini	**1. Dr. Radha Tamal Goswami, Adamas University** **2. Dr. Ditipriya Sinha, NIT Patna**
			134	Robust Recognition of Handwritten Digit sequences using Convolutional Neural Networks and Adaptive contour Segmentation	Sudhir Kumar Pandey	
			122	Adaptive Risk-Aware Conversational Wealth Management Using Temporal Sentiment Graphs and Deep Reinforcement Learning	Bikki kumar	
			541	Intelligent Optimization of Ku-Band Microstrip Antennas for Advanced Satellite Communications	Sharad Shahi	
			537	Braiding the Invisible: Simulating Topological Entanglement and Cryptographic Security with Majorana Quasiparticles	Dr.Sumanth V	
			517	Bridging the AI Frontier: Transforming Data Protection Frameworks for the Generative Age in Emerging Economies	Parijat Parimal	
			563	Leveraging Multimodal Contrastive Learning for Emotion Aware Conversational AI	Bikki kumar	
05 Dec	1.30-2.30	**Lunch**				

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05 Dec	**2.30-3.30**		**Keynote 2** **Dr. Ian Chew** **Founder of Greenie Web, Singapore** **Topic: Low carbon computer code: the future of technology** **Session Chair: Dr. Manoj Kumar Mishra**			
05 Dec	**3.30-4.30**	**Session-3**	93	Integration of MobileNetV2 with Parallel Convolutional Network for the Detection of Diabetic Retinopathy	SWETA MORAJKAR	**1. Dr. Puneet Garg, KIET Ghaziabad** **2. Dr. Himadri Nath Saha, Surendranath Evening College**
			192	A Study of Machine Learning Methods for Falsification Scoring	Akhil Vikram Singh	
			80	Effect of Optimized Threshold Technique and Ensemble Algorithms for Heart Disease Prediction	Dr. Padma Prabha	
			94	A Comparative Study On Brain Tumor Detection Using Machine Learning	Harsh Gupta	
			61	Explainable Deep Learning Model for Lung Cancer Detection Using OEDCNN-VGG Model	Priyanka Rawat	
05 Dec	**3.30-4.30**	**Session-4**	140	Blockchain-Enabled Deep Learning in Healthcare: A Comprehensive Survey of Secure and Intelligent Systems	Ruth Mary Paul	**1. Dr. Manoj Kumar Mishra** **2. Dr. Imon Mukherjee, IIIT Kalyani**
			39	DRIVER DROWSINESS AND FATIGUE DETECTION SYSTEM USING COMPUTER VISION	Kareena Jaiswal	
			8	A Hybrid GWO-DE Optimization Algorithm for Enhanced Phishing Email Detection	Pallavi Pandey	
			16	A Cross-Domain Evaluation of Transformer Models	Rahul Kumar Sharma	

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				Versus Traditional Learning Approaches in Sentiment Analysis		
			82	Evaluating Machine Learning Algorithms with Feature Engineering and NLP: A Comparative Study	Yogesh Lohumi	
05 Dec	3.30-4.30	Session-5	119	A Revenue-Aware Loss for E-Commerce Recommendation	Abhishek	**1. Abhijeet Das Manipal University, Bangalore** **2. Dr. Kanika Gupta, ABESIT, Ghazibad**
			168	Performance Enhancement in Energy and Stability Metrices using Sectored Zone based Meta-Heuristic Algorithm	AMIT KUMAR GUPTA	
			23	Predictive Insights for Cardiovascular Disease Diagnosis Using Ensemble Machine Learning	Dr. Pooja Nagpal	
			126	AI in Education: Assessing college students' perception and satisfaction with ChatGPT	A J Anuradha	
			59	Multimodal 3D AI Framework for Realtime Personalized Interview Simulations and Assessments	Sidharth Kumar	
05 Dec	3.30-4.30	Session-6	142	A Two-Step Approach for Optimal Backbone–Model Selection for Satellite Image Change Detection	Deepak Gupta	**1. Gururaj, MAHE, Bangalore** **2. Dr. Aswin Perti, Galgotias University, Noida**
			35	Optimizing QoS in Opportunistic Networks	Mansi Mathur	
			402	Temporal Graph Convolutional LSTM for Spatio-Temporal Traffic Flow Forecasting	Kanchan	
			131	Indivibe	Mansi Aluna	
			420	A Hybrid Econometrics	Shrihari Kalakoti	

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Date	Time	Session	ID	Title	Author	Chairs
				and Machine Learning Framework for Structural Analysis of GDP growth rate with its Related Microeconomic Variables of SAARC Nations		
05 Dec	4.30-5.30	Session-7	274	A Unified Platform for Beach Cleanup Coordination, Gamification, and Environmental Data Tracking	Maria Lokhandwala	**1. Naveen Kumar, MAHE Bangalore** **2. Dr. Nandita Goyel, AKG Ghaziabad**
			170	Enhancing Crop Disease Detection in UAV-Based Precision Agriculture: Challenges and Solutions for Real-Time Analysis	Sathiya Priya R	
			153	Efficient Diabetes Diagnosis Using ML Algorithms and Dimensionality Reduction Methods	Salva Abilash	
			152	Identifying Diabetes Detection Using Machine Learning Algorithms with Kernel PCA	PremChand Yedoti	
			151	Data-Driven Prediction of Diabetes Using ML Algorithms	Aakash Agarwal	
05 Dec	4.30-5.30	Session-8	154	MACHINE LEARNING-BASED PREDICTIVE MODELING FOR DIABETES DIAGNOSIS	Snehil Bhoumik	**1. Dr. Sumant V, MAHE Bangalore** **2. Garima Sinha, JAIN University, Bangalore**
			157	Customizing & Creating the Architecture of CNN Encoder Model for Processing and Predicting Abnormalities of Retinal Images In DRIVE, STARE, And CHASE	Mesiya Stalin	
			497	Performance Analysis of Machine Learning Models for Epilepsy	Diwakar Tiwari	

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				Detection using Electroencephalogram		
			506	Comparative Analysis of Recent Machine Learning and Deep Learning Models for Pediatric Pneumonia Detection Using Chest X-rays	ANKIT SHUKLA	
			60	Deepfake Detection Using Hybrid Machine Learning Algorithms: A Comparative Study	Varsha Saxena	
			327	Explainable AI Ensemble Using U-Net, EfficientNetV2, and Xception for Tuberculosis Detection	Prashant Ahuja	
05 Dec	4.30-5.30	Session-9	90	EqualFund: A Decentralized Microloan Platform	Pranesh Vaibhav	1. Shreyas J MAHE, Bangalore 2. Dr. Suchismita Mahato, NIT Jamshedpur
			150	Intelligent Prediction System for Diabetes Using Machine Learning	Devasurya J Menon	
			280	Traiblazing New Horizons in Cyber Threat Detection propelled by SAViT Vigilance.	Sara noor	
			53	Identification of Medicinal Plants Using Deep Learning	Ayush Singh	
			412	Zero-Day Attack Detection Applying Modified Neural Algorithmic Reasoning	Arpita Srivastava	
05 Dec	4.30-5.30	Session-10	89	SELVision: Integrating Social and Environmental Impact into Customer Lifetime Value Models for Sustainable Growth	Shreya Sharma	1. Dr. Amit Gupta, KIET Ghaziabad 2. Dr. Merin Thomas, RV University Bangalore
			50	An Efficient Blockchain Based Distributed and Group auditing of Outsourced Data Integrity"	Akhilesh Kumar Srivastava	
			109	Efficient Image	Swasti Singhal	

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				Management Strategies for Scalable E-Commerce Platforms: A Comparative Study		
			108	A MERN-Based Secure Social Media Platform for Academic Collaboration	Swasti Singhal	
			164	A Detailed Survey of Human Activity Recognition and a Hybrid PCA model with AR to utilize in it	ARNAB CHAKRABORTY	
06 Dec	9.00-10.00	Session-11	401	An Integrated Machine Learning Model for Binary and Multiclass Classification of Aortic Stenosis using Echocardiographic Clinical Data	PURABI CHOUDHURY	**1. Dr. Satya Sundar Mahapatra, PSIT Kanpur** **2. Dr. Mydhilli Nair, Presidency University, Bangalore**
			522	IoT-Driven Energy Optimization in Smart Buildings: Trends, Technologies, and Challenges	Parita jain	
			74	Tabu-LoRA: A Hybrid Loss-Aware Optimization Scheme for Congestion Control in VANETs	Dr. Chayapathi A R / Dr. Srinivasulu M	
			508	mBERT - A Transformer based Approach to analyze the sentiment of English typed Kannada text along with Emotion detection using FER CNN Model	Supriya T C	
			111	Leveraging AI Language Model Applications in Computational Chemistry	Dr. Poongodi T	
06 Dec	9.00-10.00	Session-12	106	Leveraging U-Net++ with Deep Supervision for Music Source Separation	Ajayvir Singh	**1. Dr. Surya Prakash, Jain University, Bangalore** **2. Dr. Rachit Garg, SP Jain**
			533	Artificial Intelligence Adoption and Financial Sustainability: Evidence	Vijay Agrawal	

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				from a Sectoral and ESG-Aligned Analysis of Indian Firms		**University, Dubai, 3. Dr. Gaurav V Londhe, Symboisis University, Nagpur**
			520	CliniVoice: A Web-Based Solution for Stuttering Detection and Therapy Support	PIYUSH PARASHAR	
			105	Multimodal PCOS Diagnosis Using Vision Transformers with Genetic-AHOA Fusion and Clinical Data Embedding	Remya R	
			201	Cross-Modal Transfer Learning in Domain-Adaptive Video Summarization	Tushar Jaju	
06 Dec	**9.00-10.00**	**Session-13**	539	Application of Machine Learning Algorithms in Environment Pollution Control	Roomana Hasan	**1. Dr. Atul Gupta, PSIT Kanpur** **2. Dr. Atif Jamshed, KIET Ghaziabad**
			521	DEEPFAKES, MISINFORMATION, AND DEMOCRACY: THE URGENT CASE FOR AI-SPECIFIC CYBER LAWS IN INDIA	Arpita Mishra	
			399	IoT-Enabled Geofence and RFID Passkey System for Secure Blood Bag Handover in Cold Chain Logistics	Sai Harshit Balaji	
			39	A Privacy-Preserving Multi-Model Framework for Robust and Interpretable Skin Lesion Classification Using Feature Extraction and LIME-Based Explainability	Dr K Sridhar	
			398	An AI based Efficient Model Approach to Detect and Control Carbon Emission For The Environment	Milan Kumar Dholey	

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06 Dec	9.00-10.00	Session-14	100	A Hybrid Blockchain and IPFS-Based Framework for Secure, Scalable, and Decentralized Cloud File Storage and Access	Ananya Srivastava	**1. Dr. Shabeer Basa, Vidya Shilpi University, Bangalore** **2. Dr. Dharambeer Yadav, GEC Katihar** **3. Dr. Aarti Chug, IILM University**
			136	A Systematic Review of advancements in Post-Quantum Cryptography: Algorithms, Standardization, and Deployment Challenges	Sanjay Ajani	
			178	YOLOv7 and Beyond: Advanced Detection of Road Anomalies Using Deep Learning	Manvi Khatri	
			543	Lightweight Dermatological Lesion Classification Using an Improved MobileNetV2 Architecture	Yogesh Bajpai	
06 Dec	10.00-11.00	Session-15	535	AI-Agent-Based Approaches for Early Detection and Management of Tomato Plant Diseases: A Comprehensive Review	Kulan Deepak B S	**1. Dr. Radha Tamal Goswami, Adamas University** **1. Dr. Imon Mukherjee, IIIT Kalyani**
			148	ML-Augmented Risk Analysis of Zero-Day Attacks using UEBA and Agentic AI: A Case Study on UNSW-NB15	Manasa U	
			555	Fuzzy Sentiment Classification of Customer Reviews with Firefly-Inspired Hyper parameter Optimization and Glove Embedding's	Amit kumar Srivastava	
			548	Role of Adaptive Hypervolume-Based Genetic Algorithm in Test Case Prioritization	Dr. Shrankhla Saxena	
			531	Thermal Image Based Emotion Classification Using CNN for	Vanitha A	

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				Adolescents		
06 Dec	**10.00-11.00**	**Session-16**	551	Predictive Analysis Model for Malicious Traffic Identification in IOT-based Healthcare Services	Krista Chaudhary	**1. Dr. Amit Sinha** **2. Dr. Himadri Nath Saha, Surendranath Evening College**
			37	Image-Based Apple Disease Diagnosis Using EfficientNet and YOLOv11: A Deep Learning Approach for Precision Agriculture	Dr. Jyotismita Talukdar	
			554	Deep Learning Based Deepfake Detection System Using Convolutional Neural Networks with Multi-Modal Analysis	Abhishek Kumar	
			553	FEEDBACK SNIFFER	Shagun Tomar	
			550	ABES OneView: A Web-Based Academic Performance and Management System Using React and Firebase	HIND SINHA	
06 Dec	**10.00-11.00**	**Session-17**	545	BioVista Al: A Review on Medical Image Understanding and Personalized Medicines Consultation	Raghav verma	**1. Dr. Pramod Bichyut, GEC Nawada** **2. Dr. Puja Batra, IILM University**
			547	Deep Hybrid Architecture with Scene Parsing for Accurate Liver Tumor Segmentation	Sugandha Chakraverti	
			561	Source-Pocket Engineered Vertical TFET with Hetero-Gate Architecture for IOT Applications	Vipin Tiwari	
			169	CNNs or Transformers? A Comparative Study of ResNet-34 and ViT-B/16 on BACH 2018 Breast Cancer Histopathology	Shivangi Agrawal	
			549	Bidirectional Translation System Between Indian Sign Language and	Shivangi Dhama	

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				Text/Audio Using Deep Learning and 3D Animated Avatars		
06 Dec	**10.00-11.00**	**Session-18**	564	Hybrid Approach For Segmentation of Brain Tumor MRI Images Using Levy Flight	Raj Pal Singh	**1. Dr. Satpute, Jain University, Bangalore** **2. Dr. Swapna Arrora, IILM University**
			486	Decentralized land tracking and Crop yield distribution in agriculture with inclusion of AIML and IOT	Bakkachennaiahgari Jagadeeshwar Reddy	
			568	Quantum Computing: A Bibliometric Study of Global Trends in Quantum Computing	Ritik Kumar Sinha	
			552	Emo Health Nexus: Cross-Domain Disease Detection	Aastha	

06 Dec	**11.00-12.00**	**Keynote-3** **Dr. Ditipriya Sinha, NIT Patna** **Topic: Emerging Trends of Blockchain based IoT** **Session Chair: Dr. Puneet Garg**
06 Dec	**12.00-2.00**	**Lunch**
06 Dec	**2.00-3.00**	**Keynote-4** **Kamiya Khatter, Springer** **Topic: Scientific Writing: Hints and Tips for Early Career Researchers** **Session Chair: Dr. Soumya Sen, University of Calcutta**
06 Dec	**3.00-4.00**	**Tea break**
06 Dec	**4.00-5.00**	**Keynote-5** **Dr. Sriparna Saha, IIT Patna** **Topic: Harnessing Generative Intelligence for Healthcare: Models, Methods and Evaluation** **Session Chair: Dr. Imon Mukherjee, IIIT Kalyani**
06 Dec	**5.00 onwards**	**Valedictory**