

4th International Conference on Artificial Intelligence and Applications

ICAIA 2026

Technical Session Schedule

19 – 20 November 2026 | Maharaja Surajmal Institute of Technology, New Delhi

Day 1 — Thursday, 19 November 2026 (2:00 PM – 4:30 PM)

Session 1 Track: Evolutionary Algorithms			
Date: Thursday, 19 November 2026 Time: 2:00 PM – 4:30 PM Venue: Seminar Hall #06			
Session Co-ordinators: Ms. Bhawna, Dr. Shikha Bhalla			
S.No.	Paper ID	Paper Title	Authors
1	1092	Leveraging Machine Learning Models in sustainability and Business Valuation	Ms. Komal Khatri, Dr. Sushma Malik, Dr. Anamika Rana
2	1097	Optimizing Enterprise Performance through AI-Driven Digital Management Systems	Ravinder Kaur, Neetu Sehrawat
3	1098	Transforming Organizational Decision-Making with Data-Driven Computing Frameworks	H S Abzal Basha, Gorantia Sriya Vardhini, Mamatha G, Naim Shaikh, Shahanawaj Ahamad, Tina Rani, Tripti Rathee
4	1100	Strengthening Corporate Agility via Smart Information Systems Architecture	Gitanjali Shrivastava, Veera Talukdar, Vivek Veeraiah, Asfa Ahamad, Ankur Gupta, Tina Rani
5	1102	Enabling Sustainable Organizational Growth using Data-Driven Intelligent Resource Planning Systems	Mamatha G, Ankur Gupta, Hardeep Kau, H S Abzal Basha, Kedas Manikanth, Veera Talukdar
6	1104	Reinventing Strategic Leadership through Predictive Analytics Algorithms	Kedas Manikanth, Veera Talukdar, Naim Shaikh, Shahanawaj Ahamad, Vijesh Chaudhary
7	1292	Cold-Start Inventory Replenishment Under Joint Demand and Supply-Yield Uncertainty: Yield-Aware Decision-Focused Meta-Learning	Nitin Kumar Mishra, Preeti Singh
8	1340	A Faithfulness Study of KernelSHAP and LIME on Large-Scale Anti-Money Laundering Transactions	Akshatha Srikantha, Manpreet Singh, Rohith Reddy Bellibatlu, Triveni Morla, Amandeep Kaur

Session 2 Track: AI for IoT Applications			
Date: Thursday, 19 November 2026 Time: 2:00 PM – 4:30 PM Venue: Seminar Hall #206			
Session Co-ordinators: Dr. Vinita Rohilla, Dr. Pooja Kherwa			
S.No.	Paper ID	Paper Title	Authors
1	938	A Robust Attack Type Detection Model Enhancing IoT Network Security	Shobha Chawla, Neha Gupta, Mridula Batra, Malkeet Singh
2	962	Integrating Machine Learning and Memory Forensics for Enhancing Cybersecurity in IoT-Enabled Energy Systems	Sonika Malik, Vedaang Chopra
3	974	A Hybrid Edge AI Framework for Real-Time Cyber Threat and Object Detection Using NLP, Behavioral Analytics, and Contextual Intelligence	Tejinder Kaur, Swathi Cheripelli, P. Prince, Ms Scinthia Clarinda S, S.L Jany Shabu, Kumari Deepika
4	993	Systematic Review from Traditional Machine Learning to Autonomous LLM Agents	Sujyoti Jha, Manoj Kumar
5	994	PhishScore: A Weighted Multi-Feature Phishing Email Scoring Framework for Human and AI-Generated Threat Assessment	Sujyoti Jha, Manoj Kumar
6	1109	AMR-Layer: Cloudflare Dependency Analysis and Adaptive Multi-CDN Failover for Internet Resilience	Mansimaran Singh, Anshpreet Singh Bindra, Parag Ravikant Kaveri, Anirudh Iyer, Dr. Manisha Mittal, Reshma R

Session 2 | Track: AI for IoT Applications**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Seminar Hall #206**Session Co-ordinators:** Dr. Vinita Rohilla, Dr. Pooja Kherwa

S.No.	Paper ID	Paper Title	Authors
7	1140	Modbus-Based Digital Energy Meter with DualCore Cloud Telemetry	Rohini Sharma, Abhinav Kumar Singh, Khushboo, Srishti, Sunil Gupta
8	1243	Deep Learning-Based Malware Classification with Explainable AI and Adversarial Robustness	Nakul Bakchi, Md Azmir Bhuiyan, Dr. Anshu Vashisth, Md Imran Hossain, Gagandeep Kaur, Buddha Dev Sarker
9	1342	Design of Optimized Hybrid Deep Learning Model	Saya, Prof. Ajit Singh

Session 3 | Track: Robotics & AI**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Seminar Hall #406**Session Co-ordinators:** Dr. Shalu, Ms. Kirti Dahiya

S.No.	Paper ID	Paper Title	Authors
1	850	Real-Time Crowd Density Estimation and Public Safety Monitoring Using YOLO-Based Deep Learning Framework	U. Sakthi, Datla Trilok Varma, Amarnath Devireddy
2	1046	Framework for Precise Weed-Crop Detection in Distorted Potato Farm Dataset Using A Robotic Vehicle with Manipulator	Prince Singh, Sanjay Patidar
3	1056	Sequential Activity Analysis: Implementing LSTM-CNN Models for Behavioral Anomaly Detection	Ashish Kumari, Parveen Kumar, Navdeep Bohra, Neeti Sangwan, Naveen Dahiya
4	1154	Predicting UAV Conflict Risk in Multi Traffic Environments Using Logistic Regression Model	Dr. A Saleth Mary Vetrisevi, Dr. S V Arun, P Madhuri, Kanmani Thirumalaisamy, C Srinivasan, Shally Grace Selvam
5	1191	Robust Edge Controlled IoT Autonomous Agricultural Robot for Efficient Precision Farming Operations	Sanjith N, Akhil Gupta, Prof. (Dr.) R. Jagadeesh Kannan, Dr. Deepa Dasarathan, S Sujatha, Shushmitha S J
6	1245	UAV Collision Avoidance: A Review of Strategies, Challenges and Algorithms	Himanshu Gandhi, Dr. Anshu Vashisth, Dr. Gagandeep Kaur, Dr. Bhupinder Kaur, Dr. Gurleen Kaur Walia
7	1310	Proximal Policy Optimization for Dynamic Obstacle Avoidance in Flapping-Wing Micro Aerial Vehicles	Vandana CP, Neelamegam G, N Varatharajan, Geetha V, Akshya. J, M Sundarrajan, Mani Deepak Choudhry
8	1364	AeroShield-AI: A Unified Data-Driven Architecture for Autonomous Flight Guidance, Navigation Resilience, and In-Time Operational Safety	Aashita Chhabra, Himang Tyagi, Aniket Verma

Session 4 | Track: AI for Human Machine Interaction**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Seminar Hall #106A**Session Co-ordinators:** Dr. Poonam, Dr. Parul Hooda (CSE)

S.No.	Paper ID	Paper Title	Authors
1	482	CareerMate: A Multilingual AI-Powered Conversational System for Personalized Career Guidance and Job Recommendation	Mahika Harikumar, Debasmita Mishra, Priyanka Savadekar, Neha Arora, Chanti Vasavi, Nisarga A
2	955	NeuroNote: A Knowledge-Tracing-Augmented Framework for Adaptive Note Retention and Personalized Spaced Review	Shefali Sharma, Pokuri Rajesh Kumar, Pooja P, Rohitha Mettu, Suraj Datta Narayana
3	1032	Feature-Enhanced Handwritten Text Recognition Using CNN–BiLSTM with Attention and NLP Post-Processing	Anushree Raj, Sandhya Madhuri G, Aishwarya D Shetty, C. Naveeth Babu
4	1089	SummarEase: An AI-Integrated Multi-Modal LLM Framework for Hierarchical Structural Parsing and Adaptive Academic Summarization	Anika Sharma, Pooja Gupta, Aayushi Chakraborty
5	1110	Machine Learning Framework for Intelligent Career Prediction Using Academic, Behavioural, Personality, and Skill-Based Analytics	Vidushi, Yashika, Sneha Chandel, Shikha Jain, Sneha Ashiwal

Session 4 | Track: AI for Human Machine Interaction**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Seminar Hall #106A**Session Co-ordinators:** Dr. Poonam, Dr. Parul Hooda (CSE)

S.No.	Paper ID	Paper Title	Authors
6	1162	External Interface Devices and Artificial Intelligence	Nishika M, A.Preethi
7	1222	AI-Powered Digital Employee for Enterprise Helpdesk Automation Using Retrieval-Augmented Generation and Agentic AI	Nivetha R T, Prithisha S, Karishma S, Sahana P
8	1320	A Smartphone based digital tool for health monitoring	Akash Singh, Abhinav Singh, Shivani Garg

Session 5 | Track: Deep AI & Neural Networks**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 111**Session Co-ordinators:** Mr. Sushil Kumar, Mr. Deepak (CSE)

S.No.	Paper ID	Paper Title	Authors
1	660	High-Accuracy Multi-Class Cotton Leaf Disease Classification Using EfficientNet-B3 and Transfer Learning on the SAR-CLD-2024 Dataset	Gajanan Ankatwar, Chitra Dhawale, Supriya Narad
2	874	Soil-Centric Multimodal Learning for Plant Health Assessment in Precision Agriculture	Ilakshi Singh, Anuradha Chug, Amit Prakash Singh
3	909	Deep Neural Networks for Early Detection of Chili Leaf Diseases	Khushi Dua, Ashima Dutta
4	972	Efficient Net Backbone for Cross-Domain Plant Leaf Disease Detection and Reliable Classification	Aaftab Alam, Shabina Ghafir, Ilhtiram Raza Khan
5	1017	Comparative Analysis of Deep Learning Models for Osteoporosis Classification in Knee X-ray Images	Ankur Rai, Sanjay Patidar
6	1057	CNN-Based Deepfake Detection Using Deep Learning Techniques	Mitu Sehgal, Sorabh Gupta, Suman Mann, Rashmi Makkar
7	1067	Deep Learning for ECG and EEG-Based Disease Detection: A Critical Survey of Architectures, Challenges and Emerging Trends	Jyoti Rani, Dr. Shilpa Gupta, Dr. Vikas Mittal
8	1080	Imbalance-Aware Skin Lesion Classification Using EfficientNetB0 with Focal Loss and Gradient-Based Visual Explanations	Shubham Mall, Shweta Meena
9	1142	Cluster-Oriented Sampling Methods for Imbalanced Data Learning: An Analytical Review of Algorithms, Challenges, and Innovations	Sangeeta Kapoor, Sumit Chopra, Prabhjot Kaur

Session 6 | Track: Pattern Matching and Speech Recognition**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 310**Session Co-ordinators:** Dr. Anshul, Dr. Akanksha Singh (Applied Science)

S.No.	Paper ID	Paper Title	Authors
1	551	Sentiment Analysis of Cyberbullying on Social Media	Shivika Singh, Mohit Goyal, Saisha Handa, Sanskar Mishra, Rinki Chauhan, Yasha Istwal
2	935	TF-IDF VS BM25 with BERT for Multi-Task Crisis Type and Urgency Classification	Basudev Nath, Ashok Sahu, Swati Sucharita Roy, Sampa Chau Pattnaik, Jogeswar Tripathy, Nilima Rani Das
3	998	Text-Based Emotion Classification using a Transformer and Deep Learning Models	Sorabh Gupta, Rattan Deep Aneja, Shipra Raheja, Vandana, Mrinal Paliwal
4	999	Ensemble based Fake News Detection with Transformers and Random Forest	Piyush Vashistha, Jai Anand, Aryan Malik
5	1004	ACMA: Affective Cross-Modal Attention for Sarcasm-Aware Cyberbullying Detection in Code Mixed Memes	Vinayak Suryavanshi, Manish Kumar, Ishika Rohilla, Vivek Mehta, Deepika Kukreja, Amarjit Malhotra, Rinky Dwivedi

Session 6 | Track: Pattern Matching and Speech Recognition**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 310**Session Co-ordinators:** Dr. Anshul, Dr. Akanksha Singh (Applied Science)

S.No.	Paper ID	Paper Title	Authors
6	1138	An Efficient Deep Learning Framework Based on CNN–BiLSTM for Sentiment Analysis	Dr. Anamika Rana, Dr. Sushma Malik, Dr. Meena Siwach Rana, Dr. Prashant
7	1145	A Parameter-Efficient Domain Adaptation Framework for Speech Recognition Using Synthetic Data	Golla Madhu, Srikar Janjirala, Ashish Lukka, Swaroop Mallidi, Shaik Afzal Elahi
8	1159	A Stacking Ensemble Framework for the Robust Sentiment Analysis of Assamese-English Code-Mixed Social Data	Himanshu Sayankar, Harshala Shingne, Sruthi Nair, Charanjeet Dadiyala

Session 7 | Track: AI Applications in Renewable Energy & Sustainability**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 411**Session Co-ordinators:** Dr. Nidhi Gupta (EEE), Ms. Anjali Baliyan

S.No.	Paper ID	Paper Title	Authors
1	913	Integration of Artificial Intelligence in Agriculture	Rohit Singh, Ranjan Kumar, Suman Paul, Neerja Negi
2	929	Regenerative Braking System in Solar Assisted Electric Vehicle	Dr. Sunil Gupta, Nirbhay Tiwari, Sujal, Kartikeya Singh Negi, Isha Gupta, Dr. Nidhi Gupta, Dr. Puneet Azad
3	1005	Framework for Meteorology-Only Urban AQI Forecasting	Sanjay Patidar
4	1055	Green Finance and Renewable Energy Investments: A Comprehensive Review of Technology Driven Sustainability	Prabhjot Kaur, Damanpreet Singh
5	1091	Temporal Forecasting in Machine Learning Based AQI Prediction	Dhruv Yadav, Sonam
6	1152	Multilayer Perceptron Model for Electrochemical Pollutant Detection Using Carbon Nanomaterials	N Abirami, Dr. R Kamaraj, Hari Krishna Kalidindi, Dr. J Lenin, C Srinivasan, Dr. Monisha R
7	1181	A Novel Weighted Marine Health Index for Real-Time Coral Reef Biodiversity Monitoring	Shri Harsan M, John Deva Prasanna DS
8	1277	Adaptive Ensemble of Transformers and XGBoost for Multi-Horizon NO ₂ Nowcasting in Urban Environments	Rohith A, Dr. Arikumar K S
9	1376	Spatially Transferable Machine Learning for Multi-Horizon Soil-Moisture Forecasting	Swaraj C M, Sasikumar A

Session 8 | Track: AI for IoT Applications**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 407**Session Co-ordinators:** Dr. Suman Lata, Ms. Manju Dhull

S.No.	Paper ID	Paper Title	Authors
1	845	An End-to-End MLOps Framework for Drift-Aware Scalable Predictive Analytics on Energy Consumption Forecasting	Sriram S, Dr. S. Venkatesh
2	1034	AI-Powered IoT Healthcare Wearable Ecosystem for Real-Time Health Monitoring and Predictive Analytics	Dr. Neha Gupta, Dr. Mridula Batra, Dr. Shobha Chawla
3	1087	Channel Assignment in Wireless Communication: A Survey	M. Gangadharappa
4	1150	Cloud Computing and IoT Framework for Electric Vehicle Wireless Charging Infrastructure	Dr. Pavithra M R, Dr. D Shofia Priyadharshini, V Jahnvi, Dr. H Azath, Dr. M Kotteswaran, C Srinivasan
5	1151	Multi-Node PIoT Sensor Analytics for Smart Grid Fault Prediction Using XGBoost	Dr. Pon Harshavardhanan, M Vadivel, Dr. M Saraswathi, R Poornima Lakshmi, C Srinivasan, Oviya V
6	1155	Edge Computing-Based Low-Latency Control for High-Gain DC–DC Converter Stability Improvement	Dr. S Vimali, R Leela Jyothi, Dr. R Srinivasan, D Amaravathi, Akhil Gupta, C Srinivasan
7	1184	Digital Twin with Cloud Analytics for Personalized Treatment of Chronic Neurological Disorder Patients	Dr. V Srividhya, Dr. R Poornima, S P Vimal, N Mohankumar, Dr. R Meenakshi, S Murugan

Session 8 | Track: AI for IoT Applications**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 407**Session Co-ordinators:** Dr. Suman Lata, Ms. Manju Dhull

S.No.	Paper ID	Paper Title	Authors
8	1250	OpenCyberKAN: Attack-Dependent Open-Set Intrusion Detection with Uncertainty-Calibrated Kolmogorov-Arnold Networks	Charanjeet Dadiyala, Rashmi Welekar, Padma Adane
9	1291	WeighGuard: A Physics-Informed Redundancy Autoencoder Framework for Detecting Adversarial Tampering in Weighbridge Load-Cell Systems	Mohamed Azeem A, Partha Sharathy K, Shyni Vinse R P

Session 9 | Track: AI and Neural Networks**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 410**Session Co-ordinators:** Dr. Ashish Kumari, Ms. Shweta Rana

S.No.	Paper ID	Paper Title	Authors
1	639	Cervical Cancer Prediction Using Hybrid Models: Integrating Urine and Blood Biomarkers	Seema Jakhar, Yogita Yashveer Raghav, Tanvi Chawla
2	723	Transforming Critical Care: AI-Based Precision Sepsis Prediction Using Machine Learning	Kiran Preet Bedi, Aditi Kharga, Pritika Adhikari
3	951	Decision Support and Diagnosis: A Review of Recent Survey Literature	Jeetkumar Makwana, Rani
4	1033	Machine Learning–Driven Diabetes Prediction Using Symptom-Based Clinical Features and Feature Optimization	Deepanshu Goyal, Apurva Vashist, Babita Deswal
5	1108	An Extensive Deep Learning Approach for Dental Disease Detection: Evaluating Architectures with Class Imbalance Handling	Himanshu, Manish Upadhyaya, Prince Pandey, Reena Gupta
6	1189	Random Forest Regression for Predicting Tensile Strength of Composite Materials	Dr. Deepa Dasarathan, Dr. S Vimali, V Vijaya Baskar, P Siva Durga Rao, V Balu, S Sujatha
7	1194	Random Forest-Based Assessment of Parkinson’s Hand Tremor Using IMU Sensor Data	J. Christina Linsey, N Divya Sri, K Vanishree, S Sujatha, Challapalli Suma, V Aruljyothi
8	1195	Support Vector Machine-Based Clinical Blood Analysis for Early Dengue Detection	Nisha Rani D, Dr. Sujatha T, Dr. Damodharan D, Dr. Indhumathi M
9	1249	Quantum-Based Learning for Heart Disease Classification: A Comparative Study with Classical ML	Riya Kharwal, Renu Dalal

Session 10 | Track: Online Session**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 107 (Online)**Session Co-ordinators:** Ms. Nidhi Goel, Ms. Ankita Gupta

S.No.	Paper ID	Paper Title	Authors
1	561	HEAL: Advanced AI System For Comprehensive Health And Eating Analysis Using Blood Reports Through Learning Techniques	Rakshitha, Minal Assadi, Disha D, Khyati S Suvarna, Rashmitha Shettigar
2	757	Energy Efficient and Sustainable Infrastructure for Smart Home IIoT: A Swarm-Intelligence Enhanced DRL Intrusion Detection Model	Sundaram P, Dr. M. Jayaprakash
3	878	Architecting the Next Generation of Semantic Plagiarism Detection: A Privacy-Preserving Framework Combining Local LLM Preprocessing, SBERT Embeddings, and Generative Validation	Sterlin S, S Gokulram, S Abirami
4	1149	Eden: A Multi-Modal AI Orchestration Engine for Automated Misinformation Analysis	Swathi A, Mohammed Sahil, Madhava K S Puranik, Mithun Kumar B V, Mohammed Abu Sufiyaan
5	1180	AI Based Healthcare Document Intelligence System for Medical Information Extraction and Semantic Search	Vignesh Manivannan, Balavigneshwar B, Dr. R. Vijayalakshmi

Session 10 | Track: Online Session**Date:** Thursday, 19 November 2026 **Time:** 2:00 PM – 4:30 PM **Venue:** Room No. 107 (Online)**Session Co-ordinators:** Ms. Nidhi Goel, Ms. Ankita Gupta

S.No.	Paper ID	Paper Title	Authors
6	1197	KrishiSetu: Smart Soil Analysis & Weather-Based Fertilizer Recommendation System	Piyush Gawali, Shrirang Amle, Rohit Raut, Harsh Mishra, Shriram Vyavahare
7	1200	Deepfake Detection Using a Hybrid CNN–GRU Architecture with a Discriminative Distance Index	Riyanshu Akash, Isha Bharti, Tanmoy Ghosh, Anish Kumar, Nitish Kumar, Dishani Roy
8	1211	A Multimodal System for Emotion-Aware Music Recommendation and Generation	Prajyot Bhoskar, Smita Daware, Swati K, Pankaj Warule, Gautam Jha, Soham Kathalay, Chinmay Anjanka
9	1214	FarmLens AI: An Explainable Deep Learning Framework for Crop Disease and Pest Detection with Severity Estimation	Anushree G, Yashwant Dev, Yogitha V, S B Samyuktha, Yuvaraj S
10	1218	FAANet: A Fault-Aware Attention Network for Multi-Class Photovoltaic Defect Classification in Electroluminescence Images	Gaurav Kumar Sinha, Ritula Thakur
11	1273	ELACHI: Construction, Preprocessing and Benchmarking of an In-Field Cardamom Pod Detection Dataset from Fixed-Camera Plantation Video	Aishwarya M F Prabhakar, Shilpa S Chaudhari

Day 2 — Friday, 20 November 2026 (9:30 AM – 12:30 PM)

Session 11 | Track: Evolutionary Algorithms

Date: Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Seminar Hall #06

Session Co-ordinators: Dr. Swati Malik (CSE), Ms. Sonia (ECE)

S.No.	Paper ID	Paper Title	Authors
1	973	An Agentic AI Framework for Resolving Natural Language Ambiguity in Database Querying Through Semantic Validation	Tejinder Kaur, Rubika Walia, Ramesh Cheripelli, Kamna, Payala Krishnanjaneyulu, Kirti Sharma
2	987	A Systematic Literature Review of Autonomous AI Agents Powered by Large Language Models	Pooja Yadav, Rohit Beniwal
3	1059	A Graph-Theoretic Multi-Agent Framework for Quantifying Emergent Collective Intelligence in Distributed Adaptive Systems	Saumya Maheshwari, Pranjal Sharma, Ritik Jha, Dev Ujalayan, Puneet Azad, Deepak Goyal
4	1082	Design and Implementation of a High-Concurrency Resource Booking System	Suman Lata, Sachit Rathee, Dinesh Sheoran, Pardeep Sangwan, Ketan Gulati
5	1101	Redefining Business Process Efficiency through Intelligent Technology Integration Frameworks	Gitanjali Shrivastava, Veera Talukdar, Mamatha G, Asfa Ahamad, Ankur Gupta, Hardeep Kaur, A. Pankajam
6	1271	The Charitable Attribution Bias in LLM Strategic Reasoning: Implications for AI Governance and Robust Multi-Agent Coordination	Ronald Lopes
7	1288	Artificial Intelligence and Evolutionary Optimization for Multi-Energy Microgrid Dispatch: A Systematic Review of Algorithmic Trade-offs, Edge Deployability, and Grid Stability	Dr. Akshay Raj, Dr. Vaibhav Sharma, Mr. Gaurav Rai, Mr. Sandeep Kumar Verma, Ms. Zoya Naaz, Ms. Zeba Rani
8	1398	A Unified Trustworthy Framework for Tabular Decision Support with Conformal Calibration and Sandboxed Agent Execution	Vasu Dev Sharma, Gurleen Kaur, Kshem Dikshit, Angad Pal, Challa Vinod Reddy, Saumya Tripathi
9	1402	A Real-Time Multi-Engine Research Terminal for Precious-Metal Market Intelligence	Ramkrishna Bharsakade, Parth Dongre, Parth Birari, Atharv Patil, Aryan Patil

Session 12 | Track: AI for IoT Applications

Date: Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Seminar Hall #206

Session Co-ordinators: Ms. Jyoti Sandhu, Ms. Mansi (App. Sci.)

S.No.	Paper ID	Paper Title	Authors
1	1134	A Smart IoT-Enabled Cyber-Physical Framework for Groundwater Surveillance and Control	Aakarsh Mishra, Vaani Garg, Bhawna Bhardwaj, Deepak, Divya Chaudhary, Sabnam Kumari
2	1139	Adaptive Cloud-Edge Task Offloading Using Reinforcement Learning in IoT Systems for Real-Time Optimization	Khushboo, Drishti Gulati, Raghav Garg, Ankit Singh Raghuvanshi, Puneet Azad
3	1153	Energy Aware GRU Framework for Robust IoT Network Intrusion Detection Systems	Dr Sundara Kumar M R, Challapalli Suma, Dr. Pon Harshavardhanan, Dr Rajasekar Rangesamy, C Srinivasan, Santhosh M
4	1167	Blockchain-Based IoT Network for Sustainable Farm-to-Fork Food Traceability and Certification	Dr. H Azath, Dr Uma Devi T, Cheepurupalli Raghuram, T Akila, M Muthulekshmi, M Jagadeeswaran
5	1171	Wearable IoT Sensors for Real-Time Detection of Night-Time Breathing Irregularities through Edge Analytics	Dr. D Sasikala, Buddaraju Rekha Madhavi, Dr. S Kala, M Vadivel, M Muthulekshmi, Dr. Ishwarya M V
6	1186	IoT-Based Fish Pond Water Contamination Analysis Using Random Forest Model	Dr. K Babu, Sugatha Kumari. B, Shaik Subhan, V Balu, S Murugan, Dr. Ishwarya M V

Session 12 | Track: AI for IoT Applications**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Seminar Hall #206**Session Co-ordinators:** Ms. Jyoti Sandhu, Ms. Mansi (App. Sci.)

S.No.	Paper ID	Paper Title	Authors
7	1188	Remote Postpartum Maternal Health Monitoring Using Wearable and Cloud Technology	M Vadivel, Dr. B Kannadasan, Potturi Sandhya, Ajay Kumar Vegi, S Murugan, V Aruljyothi
8	1408	A Secure Transmission of Data Using A Token-Based Method Over Wireless Sensor Networks	K. Kowsalya, J Swarnalakshmii, S Navaneethan

Session 13 | Track: Robotics & AI**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Seminar Hall #406**Session Co-ordinators:** Dr. Narender Singh, Dr. Anisha

S.No.	Paper ID	Paper Title	Authors
1	917	Locally-Global Synergistic Temporal Perception Network for Lightweight Video Summarization	Vaani Garg, Anil Singh Parihar
2	977	Automated Smart Parking and Cantonment Infrastructure Detection Using YOLOv11-Large, Computer Vision, Crowdsourcing, and Multimodal Vision–Language Reasoning	Tejinder Kaur, Shweta Joshi, Jaspreet singh, Aakash Kumar, Shweta Gupta, Mansi
3	1016	Predicting Flight Delays via Multi-Relational Graph Attention Networks	Prajwal Gupta, N Parthiv Kumar, Dr. Ashwini M Joshi
4	1165	Sequential Pattern Learning in Animal-Centric Motion Analysis and Surveillance: A Review	Sakshi Maurya, Madhu Bala, Tanima Thakur
5	1174	A Deep Learning Framework for RGB-Thermal Image Denoising and Enhancement in Autonomous Unmanned Vehicle Navigation Systems	Bhargav Ram Rayapati, Kotla Sree Samyuktha, Shaik Shanawaz, Mohamad Shoyab Akhil
6	1318	An Ensemble Learning Framework for Urban Traffic Slowness Prediction with a Proposed Multi-Agent Control Architecture	Dr Alisha Banga, Dr Monika Jain, Dr Amba Mishra, Ms Meenakshi Vishnoi
7	1332	SecureIrisNet: Lightweight Deep Learning Framework for Robust Iris Recognition and Classification	Manoranjitham S, Farooq Ahmad, Rasika Padegaonkar, Jayshree Gorakh, Thinaharan N, Dharmadurai K
8	1410	NSDFNet: A Neighbourhood and Self-Similarity Distance Fusion Network for Robust Image Denoising	V Tejovathi, Venkata Lakshmi Keerthi K, R Priyadharshini, Kuruma Purnima, G Ravi Kumar, C. Sushama

Session 14 | Track: AI for Human Machine Interaction**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Seminar Hall #106A**Session Co-ordinators:** Dr. Jayesh, Dr. Neetu Sherawat

S.No.	Paper ID	Paper Title	Authors
1	897	GitHub Issue Triage Bot	Dr. Ravi Sharma, Ananya Shakya, Ananya Singh, Prabhav Singh, Manibhav Gupta
2	990	Evaluating the Impact of Online Learning on Academic Performance: A Mixed-Methods Case Study of Undergraduate Students in Chennai	T.J.Nagalakshmi
3	1177	A Bi-LSTM–Based Conversational Framework for Early Academic Risk Prediction and Student Mentoring	S.M.Krishna Ganesh, Guhan Balaji. C, Vinoth Kumar V, Dr. G Vinoth Chakkaravarthy, Dr R. Santhana Krishnan, Nishanthini S
4	1263	Algorithmic Frameworks for Integrating Heterogeneous Educational Data in Hybrid Learning Environments: A Systematic Review	Sonia Yadav, Dr. Sachin Sharma
5	1269	Predictive Behavioural Analytics for Medical Tourists Using AI and Open Banking Data: A Domain Specific Feature Engineering and Fairness Governance Approach	Tejas Pawar, Dr. Ashwini Brahme, Dr. Ashwini Cahvan, Smita Chavan, Nitin Ganesar

Session 14 | Track: AI for Human Machine Interaction**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Seminar Hall #106A**Session Co-ordinators:** Dr. Jayesh, Dr. Neetu Sherawat

S.No.	Paper ID	Paper Title	Authors
6	1278	Lexora-An Intelligent RAG-Based Business Legal Assistant	Aditya Raj Upreti, Anshul Kumar, Ansh Bansal, Sonika Nagar
7	1373	Reimagining Animation Education in the Age of Artificial Intelligence: Challenges and Opportunities for Teaching and Learning	Sanjay Kumar, Pratap Rajpoot, Dr. Dhara Hans
8	1381	University Students' Utilization of Generative AI-Generated Solutions for Academic Problem Solving: An Extended Task–Technology Fit Model	Duy Vu Le, Anh Phan Ngoc Que

Session 15 | Track: Deep AI & Neural Networks**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Room No. 111**Session Co-ordinators:** Dr. Sonia Goel, Ms. Nisha Singh

S.No.	Paper ID	Paper Title	Authors
1	915	PocketGenMol: Structure-Conditioned Molecular Generation via Masked Diffusion over SAFE Representations	Monika Kumari, Soham Das, Kenneth Lobo, Navya Singh, Ritik Dwivedi
2	976	A Deep Learning Framework for Automated Insurance Advisory and Intelligent Decision Support	Tejinder Kaur, Daljeet Kaur, Kiranpal Singh Virk, Karan Walia, Karan Mahajan, Tejinder Kaur
3	1021	Integrating Machine Learning and Human-Computer Interaction for Accurate Early Dementia Detection	Dr. Jolly Parikh, Dr. Yugnanda Puri, Dr. Kirti Sharma, Dr. Sudesh Pahal, Mr. Manish Talwar, Urvi Maniar, Neetu
4	1088	Neural Network Architecture for Real-Time Warning Detection	Varsha Gupta, Gagandeep Kaur, Neetu Settia, Suhani Duggal, Shivani Duggal, Archana Priyadarshani
5	1132	Deep Dental Gender-Net: A GAN-Augmented Segmentation-Guided CNN–Transformer Model for Forensic Gender Identification from Teeth Images	Bhawna Bhardwaj, Amit Prakash Singh, Ruchi Sehrawat, Jeyaseelan Augustine, Mahesh Verma
6	1133	Sustainable AI Systems: Evaluating the Impact of Model Compression and Transfer Learning Strategies	Palak Gupta, Vedang Wadhawan, Vaani Garg, Deepak, Sunita Kumari, Pallavi Ranjan, Sabnam Kumari
7	1281	Vision Transformer-Based Framework for Multi-Stage Alzheimer's Disease Classification from Structural MRI	Dr. Anshu Vashisth, Tanvir Ahmed, Shahjadi Sultana, Khadija Slimani, Krma Ashokkumar Patel
8	1317	Pseudo-Multimodal MRI Representation Learning With Multi-Head Self-Attention Fusion for Alzheimer's Disease Classification	Shipra Raheja, Amit Kumar Bindal, Rattan Deep Aneja
9	1389	Topological Vision Transformer for Severity Aware Lung Disease Classification	Tharun M, Saravanan S, Kotteeswaran Rangasamy

Session 16 | Track: Pattern Matching and Speech Recognition**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Room No. 310**Session Co-ordinators:** Dr. Shilpam Malik, Dr. Sonika Malik

S.No.	Paper ID	Paper Title	Authors
1	565	A Hybrid Sparse-Dense Adaptive Retrieval-Augmented Generation System for Low-Resource Domain Question Answering	Chaitenya Chand
2	984	From Classical ML to Contrastive GNNs: A Systematic Review of Faux-Hate Detection Frameworks	Pooja yadav, Rohit Beniwal
3	985	ProxiMix: A Prototype-Driven Proximity-Aware Meta-Embedding Framework for Faux-Hate Detection	Pooja Yadav, Rohit Beniwal

Session 16 | Track: Pattern Matching and Speech Recognition**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Room No. 310**Session Co-ordinators:** Dr. Shilpam Malik, Dr. Sonika Malik

S.No.	Paper ID	Paper Title	Authors
4	996	A Systematic Review of Hallucinations in Large Language Models: Detection, Mitigation, and Evaluation	Prince Chaudhary, Rohit Beniwal
5	1013	A Hybrid Multi-Signal Framework for Hallucination Detection in Large Language Models	Prince Chaudhary, Rohit Beniwal
6	1020	PPO Fine-Tuning for Poetic Generation in Compact Llama-Style Language Models: A Controlled Two-Scale Study	Prabhsurat Singh, Poonam Narang
7	1161	Evaluating Seed Word Embeddings for Deep Learning Bugs Categorization	Gaurav Sandhu, Kamaldeep Kaur
8	1264	Impact of Data Preprocessing on Classical Time Series Forecasting Models for Retail Sales	Preeth Nair, Prof. Neha Dahiya

Session 17 | Track: AI Applications in Renewable Energy & Sustainability**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Room No. 411**Session Co-ordinators:** Dr. Pooja Singh, Ms. Pooja Mittal

S.No.	Paper ID	Paper Title	Authors
1	1058	A Data-Driven Framework For Thermoelectric Cooling and Power Generation Tracking Using Clustering And Polynomial Thermal Analytics	Deepshikha Yadav, Prinkle Talan, Koyel Datta Gupta, Archana Balyan
2	1071	Attention U-Net with Boundary-Aware Composite Loss for Urban Flood Detection from SAR Imagery	Rishabh, Amar Arora, Reena Gupta
3	1173	A Hybrid CNN and Bi-LSTM Deep Learning Framework for Accurate Water Quality Index Prediction	Bhargav Ram Rayapati, Narra Anuhya, Faisal Mohammad, Manivarun Nethi
4	1229	AI-Driven Solar Power Forecasting for Sustainable Development: Random Forest vs. LSTM	Ganesh Valiachi, S. Ishwarya, K. Kalidasu
5	1343	Renewable Energy-Based Feasibility Analysis for an Unelectrified Rural Village Using Load Survey Data	Shalom Irenc LB, Dr. A Immanuel Selvakumar
6	1366	A Stacking Ensemble Architecture for High-Resolution Multi-Output Spatiotemporal Load Forecasting Across Multi-Zonal Smart Grids	Himanshu Sayankar, Harshala Shingne, Sruthi Nair, Charanjeet Dadiyala
7	1371	Comparative Analysis of Production-Ready Time Series and Recursive Machine-Learning Models with Socio-Economic Covariates for Electricity Demand Forecasting in Delhi	Ankit Srivastava, Manish Jain, Devi Prasad Bhukhya
8	1390	Technical Quality of AI-Enabled EV Charging Applications and Users' Charging Management	Nguyen Dao Que Nhu, Duy Vu Le
9	1409	A Hybrid CNN–LSTM–DNN Framework for Electricity Theft Detection in Smart Grids	K Yuvaraj, M Lakshmi Prasanna, R Surekha, Kuruma Purnima, Vijayan P M, Shaik Hedayath Basha

Session 18 | Track: AI for IoT Applications**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Room No. 407**Session Co-ordinators:** Dr. Pooja Singh (Maths), Dr. Sonal

S.No.	Paper ID	Paper Title	Authors
1	1168	Cloud-Integrated IoT Electrical Substation Monitoring for Improved Smart Grid Reliability	Dr. Pavithra M R, Dr. B. Gopi, P Ravi Krishna, Dr. B Kannadasan, M. Muthulekshmi, Dr. Ishwarya M V
2	1169	Modeling and Optimization of Resonant Wireless Charging for Electric Vehicles with IoT Integration	Dr. S Kala, K Durga Bhavani, M Ravi Sankar, R C Karpagalakshmi, Dr. V Vidya Lakshmi, M. Muthulekshmi
3	1170	Random Forest-Based Detection of Abnormal Residential Electricity Usage in Smart Homes	Dr. Indhumathi M, Dr. Christuraja S, Dr. Vaithiyalingam Subramanian N, Pasumarthy Rambabu, R. Poornima Lakshmi, M. Muthulekshmi
4	1183	Scalable Electric Vehicle Battery Traceability System Integrating Blockchain and IoT	Dr J Venkatesh, Ahmed Shahebaaz, S N V P Ravi Teja, Dr. S Vimali, S Murugan, Dr. Ishwarya M V
5	1187	Cloud-Assisted Monitoring and Fault Diagnosis of Isolated DC–DC Converters in Distributed Power Systems	Dr. Christuraja S, Rajarajeshwari Kamaja, Dr. R Srinivasan, T Prasad, Dr. S Karthikeyan, S Murugan
6	1190	A Scalable Edge-Enabled IoT Architecture for Monitoring Floating Solar Power Plants	S P Vimal, Dr. H Azath, Challapalli Suma, Dr. R Poornima, S Sujatha, Gunasundari B
7	1193	Cloud-Integrated IoT Framework for Real-Time Control of SiC-Based EV Fast Charging Converters	Dr. R Kamaraj, Potturi Sandhya, P V V Satya Eswara Rao, Dr. R Jagadeesh Kannan, Dr. V Vidya Lakshmi, S Sujatha
8	1336	Robust Multi-Objective Lightweight Deep Reinforcement Learning for Secure NOMA-Based Smart Grid Communications Under Imperfect Channel State Information	S.Senthazhai, D.Ilakiaselvan, R.J.Kavitha, D.Dhanalakshmi, S.P.Anukodi

Session 19 | Track: AI and Neural Networks**Date:** Friday, 20 November 2026 **Time:** 9:30 AM – 12:30 PM **Venue:** Room No. 410**Session Co-ordinators:** Dr. Nidhi (App. Sci.), Dr. Rakesh Kumar

S.No.	Paper ID	Paper Title	Authors
1	1064	Intelligent Medical Image Management System for Chest X-Ray Classification and Multimodal Clinical Retrieval	Ezeddin Hakami, Ali Alyatimi, Ali Hakami, Gargi Verma
2	1090	Predicting Cardiovascular Disease Vulnerability based on Lifestyle Factors Using Deep Learning	Nishtha Jatana, Koyel Datta Gupta, Kavita Sheoran, Shaily Malik, Geetika Dhand, Deepshikha Yadav, Prinkle Talan, Divya Jatain
3	1156	Explainable AI Approaches for Healthcare Informatics and Clinical Decision Support Systems	Mounika N, Deepak Vats, Navjeet Kaur, Reena Gupta
4	1201	Explainable AI-Driven Clinical Decision Support for Personalized Drug Recommendation and Medication Discontinuation Planning	Asmitha Reddy P, Jayasri S, Dr. R. Aishwarya
5	1219	A Hybrid Neuro-Statistical Stacking Architecture for Evaluating Bengali AI-Generated Health Responses	Himanshu Sayankar, Harshala Shingne, Sruthi Nai, Charanjeet Dadiyala
6	1279	Machine Learning-Based Alzheimer's Disease Detection Using Radiomic and Texture Features from Brain MRI	Dr. Anshu Vashisth, Mithun Das, Tanvir Ahmed, Khadija Slimani, Denesh Das
7	1334	Deep Learning and Explainable AI for Pancreatic Cancer Detection: A Review and Critical Analysis	Vishesh Tanwar, Bhisham Sharma
8	1341	An AI-Driven Clinical Decision Support System for Automated Tumor Multi Classification Using MRI Images	Blesson Samuel D, Samuelraj Chrysolite G, Sivaprasath K, Glory Precious J, Sameera Fathimal M, Jothiraj Selvaraj
9	1392	Federated CNN with Diffusion Augmentation and Differentially Private Gradient Centralization for Lung Disease Classification	Saravanan S, Tharun M, Kotteeswaran Rangasamy

Session 20 Track: Online Session			
Date: Friday, 20 November 2026 Time: 9:30 AM – 12:30 PM Venue: Room No. 107 (Online)			
Session Co-ordinators: Dr. Anu Rana, Dr. Sandeep Kaur			
S.No.	Paper ID	Paper Title	Authors
1	1230	When Prediction Becomes Reconstruction: Quantifying Endpoint–Input Circularity in Respiratory Machine Learning	Adishree Gupta, Prof. Mahitha G
2	1238	An Optimized G–LSTM Framework for Option Price Forecasting	Shubhangi Porwal, Namita Srivastava, Manoj Jha
3	1256	Hybrid Quantum Deep Learning for Acute Lymphoblastic Leukemia Detection: A Pipeline Utilizing MedSAM Segmentation, Vision Mamba and Parameterized Variational Quantum Classification	John Annish Colin J, Kanuri Tagore Sai, Surukanti Eshwar Reddy, R L Aadithyaa, Dr. Suma Kamalesh Gandhimathi
4	1276	MemCP: Context-Aware Memory Compression and Retrieval for Long-Horizon Large Language Model Agents	Viomesh Singh, Praneel Jain, Raj Bapat, Ayush Mahajan, Prachi Jamdade, Sundaram Waghmare
5	1365	An Explainable AI Framework for Automatic Analysis of Laboratory Report in Context	P.Swetha, S. Dharsin, D. Dinesh, S. Sri Vishnu varthan
6	1377	When Does BERT Help? A Cross-Domain Study of the Marginal Value of Text Embeddings Beyond Structured Features	Ayush Srivastava
7	1378	HalDetect: Entropy-Based Hallucination Detection for Medical LLMs	Harsh Kumar, Himanshu Kumar
8	1383	HalluGuard-Med: An Explainable Framework for Grounded Medical AI and Clinical Claim Verification	Dr. Ramkrishna S. Bharsakade, Harshvardhan M. Patil, Rajvardhan P. Patil, Bhavesh M. Patil, Kartik N. Patil
9	1391	A Hybrid OCR-CNN-LLM Framework for Automated Medical Prescription Analysis	Diya Saha, Mansi Bhagoria, Suhaib Ahmad, Reya Sharma, Pooja Chaudhary
10	1404	AetherSea: AI-Powered Marine Debris Intelligence and Cleanup Route Optimisation	Amruta V. Patil, Ananya P. Kulkarni, Anushka A. Khot, Aditi V. Menbudle