



Ist

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ON

ELECTRICAL ELECTRONICS AND COMPUTER ENGINEERING

UPWIECON 2025



Co-Sponsored by IEEE Uttar Pradesh Section

IEEE CONFERENCE RECORD NUMBER # 67212

30-Oct-2025 to 31-Oct-2025

NIELIT, Dehradun

Session # 1-A

Day: 1
Venue: Jaypee Residency Manor, Mussoorie
Link: NA

Date: 30-Oct-25
Time: 9:30 AM

Theme: Power, Energy, and Electrical Systems

Session Chairs: *Dr Prema Lata Jena, IIT Roorkee*
Dr Mridu Sahu, NIT Raipur

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	131	Gate Electrode Work Function Engineered FinFET for Improved Performance	Vanshika Sharma, Ajay Kumar, Vaibhav Bhatt, Neha Gupta, Aditya Jain, Amit Kumar Goyal	9:30 AM to 9:45 AM
2	181	Queuing-Theoretic Model for MEMS and Nano electronic Testing with Vacation-Triggered Interruptions	K.Kavitha, S. Maragathasundari, K.Karthikeyan	9:45 AM to 10:00 AM
3	307	Analysis and Implementation of Current Signature Analysis for Fault Detection in Single-Phase Induction Motor	Bhoomika C J , Chandasree Das , Akshay D R , Subrahmanya K S	10:00 AM to 10:15 AM
4	336	Indium-Optimized InAlN/GaN HEMT as a Versatile Biosensor: Modelling and Validation for HER-2 Quantification	Mukta Sharma, Chia-Lung Tsai, Ajay Kumar	10:15 AM to 10:30 AM
5	337	Graph Rewiring using explicit rating and bidirectional trust	Rachana Mehta, Shakti Mishra, Snehanishu Saha	10:30 AM to 10:45 AM
6	354	Optimized Wallace Tree Multiplier Architecture with RD-CLA for Low-Power VLSI and Real-Time FPGA Applications	P. Sai Sri Pooja, Ishant Kumar Bajpai, Mallikarjuna S	10:45 AM to 11:00 AM
7	377	Planar Antenna with two symmetrical rectangular rings for X & Ku band Applications	Drashti Khokhar, Praveen Kumar Chakravarti	11:00 AM to 11:15 AM

Session # 1-B

Day: 1
Venue: Jaypee Residency Manor, Mussoorie
Link: NA

Date: 30-Oct-25
Time: 11:30 AM

Theme: Power, Energy, and Electrical Systems

Session Chairs: *Dr Gaurav Gupta, Shoolini University, Solan, HP*
Dr Dev Baloni, Quantum University

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	542	Temperature Sensitivity and Reliability in Asymmetric 3D GAA Nanowire NCFETs: Beyond Room Temperature for Next-Gen Nanoelectronics	Malvika, Ashutosh Srivastava, Divya Srivastava, Prabhat Singh, Rajan Singh, Jagritee Talukdar	11:30 AM to 11:45 AM
2	544	Analysis of Long-Term EEG Signals for Seizure Detection by Time-Domain Feature Extraction	Sandeep Kumar Saini, Garima Chandel	11:45 AM to 12:00 PM
3	555	Integrating Hydro-Chemical Assessment with Machine Learning for Groundwater Quality Forecasting in Durg Block of Chhattisgarh	Pradhumn Soni, Dr. D.C. Jhariya, Dr. Mridu Sahu, Dr. Chandan Kumar Singh	12:00 PM to 12:15 PM
4	572	Optimizing Spectrum Usage in Ultra-Dense Wireless Communication Systems	Chetan Harsha Lekkala, Sitadevi Bharatula, B. Naresh Kumar Reddy, Lekkala Nehal	12:15 PM to 12:30 PM
5	585	Enhancing Stability of 8T SRAM cells using Dual Split Power lines and Vertical Read word lines on 45nm Technology	Archana Verma, Arun Kumar Singh, Ashwini Kumar Upadhyay , Harshit Srivastava , Vedant Saxena , Devi Prasad Shahi	12:30 PM to 12:45 PM
6	588	Augmented Multinomial Logistic Regression for Mineral Classification in Charnockite Rock	Richa Nayak, Mridu Sahu, Shivangi Diwan, Sagar Misra, N. Vishwakarma , D.C. Jhariya	12:45 PM to 1:00 PM
7	781	Partial Ground Plane-Based UWB Antenna for Microwave Imaging Applications	Ravi Kumar Malik , Jaspreet Singh Bajaj , Sachin Kumar	1:00 PM to 1:15 PM

Session # 1-C

Day: 1

Date: 30-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 1:30 PM

Link: NA

Theme: *AI for Science and Engineering*

Session Chairs: *Dr Vandana Verma, Galgotias University*
Dr Suman Lata Dhar, Sharda University

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	8	AI POWERED PERSONALISED E-LEARNING SYSTEM USING LARGE LANGUAGE MODELS	Prapti Yadav, Niyati Shammi, Swati Vashisht, Shivali Singhanian, Madhav Gupta	1:30 PM to 1:45 PM
2	153	AI-Driven Digital Twins and Data-Driven Smart Manufacturing in the Textile Industry: Integrating Domain Expertise with Intelligent Systems	Sehajpreet Kaur, Pushpinder Singh, Navjot Kaur Cheema, Nemaï Chandra Ray, Sarwan Singh	1:45 PM to 2:00 PM
3	494	Real-Time Windows Event Log Analysis and Anomaly Detection using Explainable Mac	Himendra Devabhaktuni, Nithin Marreddy Yeruva, Tamilselvan C , Arun Mohan, Sini S Nair	2:00 PM to 2:15 PM
4	562	Federated Learning in Quantum Environments: Architectures, Challenges, and Real-world Applications	Gaurav Kumar, Dr. Pushpendra Kumar Verma	2:15 PM to 2:30 PM
5				2:30 PM to 2:45 PM
6				2:45 PM to 3:00 PM
7				3:00 PM to 3:15 PM

Session # 1-D

Day: 1
Venue: Jaypee Residency Manor, Mussoorie
Link: NA

Date: 30-Oct-25
Time: 3:30 PM

Theme: *AI for Science and Engineering*

Session Chairs: *Dr Suman Avdhesh Yadav, IILM University*
Dr Birendra Kumar Saraswat, GLBITM, Greater Noida

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	632	Hydrochemical Assessment and Machine Learning-Based Prediction of Groundwater Quality in Janjgir-Champa District, Chhattisgarh, India	Narendra Sahu, Mridu sahu, D. C. Jhariya	3:30 PM to 3:45 PM
2	643	An Approach to Predicting Diabetic Readmissions Using Feature Selection and Optimization Techniques	Aarti, Richa Sharma, Manik Rakhra	3:45 PM to 4:00 PM
3	668	Bridging Quantum Algorithms and Classical Finance: Portfolio Optimization Using QAOA and QUBO Frameworks	Arnav Aggarwal , Pranav Shrivastava, Rajneesh Kler, Prerna Agarwal	4:00 PM to 4:15 PM
4	738	PlantGuardian: Intelligent Plant Monitoring & Care Recommendation System	Kumari Shivangi , Mr. Prakash Pratik	4:15 PM to 4:30 PM
5	745	Review of Artificial Intelligence Integration Opportunities and Priorities in Healthcare Flow	Anoushka Vijay	4:30 PM to 4:45 PM
6	777	Design of AI-Enhanced Channel Modeling Techniques for Accurate mmWave Propagation Predictions in 6G Wireless Applications	Mridul Gupta, Deepak Upadhyay, Shivani Varshney	4:45 PM to 5:00 PM
7				5:00 PM to 5:15 PM

Session # 2-A

Day: 1

Venue: Jaypee Residency Manor, Mussoorie

Link: NA

Date: 30-Oct-25

Time: 9:30 AM

Theme: Scalable ML and Distributed Systems

Session Chairs: *Dr Swati Vashisht, IILM University*
Dr Ajay Kumar, IIIT Noida

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	130	Optimization and Performance Analysis of Dual Absorber Layer DPSC For Improved Efficiency	Kavish Gupta, Ajay Kumar, Neha Gupta, Kaushal Kumar, Aditya Jain, Amit Kumar Goyal	9:30 AM to 9:45 AM
2	193	A Hybrid Visual-ML Framework to Classify and Support Neurodiverse Learners Using Behavioural and Educational Data	Twinkle, Shikha, Rohit Kanauzia, Deepak Kumar, Sumit Kumar Rana	9:45 AM to 10:00 AM
3	358	Machine Learning-Based Forecasting Model for Bitcoin Price Prediction	Alka Singh, Gagandeep Kaur, Anshu Vashisth, Bhupinder Kaur	10:00 AM to 10:15 AM
4	536	A Comprehensive Study on Classifying Fetal Health Using Machine Learning Models: The Impact of Feature Selection	Arti Kori, Mridu Sahu, Shivangi Diwan	10:15 AM to 10:30 AM
5	576	Machine Learning Approaches for Acoustic Feature-Based Stress Level Classification	Neha Bhatt, Zokir Mamadiyarov, Jushkinbek Yuldoshev, Rajesh Vaidya, Anant Deogaonkar, Amit Mittal	10:30 AM to 10:45 AM
6	612	ATR-FTIR spectroscopy integrated with machine learning: a new method for classification of two similar gynecological disorders	Imon Mitra, Abhijit Saha, Pratip Chakraborty, Sunita Sharma, Koel Chaudhury	10:45 AM to 11:00 AM
7				11:00 AM to 11:15 AM

Session # 2-B

Day: 1

Date: 30-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 11:30 AM

Link: NA

Theme: Deep Learning Architectures and Advanced Neural Networks

Session Chairs: *Dr Mridula Singh, Quantum University*
Dr Vandana Sharma, Christ University, Delhi/NCR

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	126	HotspotNet: A Hybrid CNN-LSTM Model for Accurate Crime Hotspot Prediction	S. Nirmala Sugirtha Rajini, Tonjam Gunendra Singh, Monita Wahengbam, P. Abirami , Sangeetha. S , N V P. Keerthi Vembu	11:30 AM to 11:45 AM
2	144	Renewable Energy Output Forecast using Hybrid Time Series Modeling	Harendra Singh Negi , Bhawnesh Kumar , Gunjan Mehra, Kamlesh Chandra Purohit , Dinesh Chandra Dobhal	11:45 AM to 12:00 PM
3	285	An Interpretable LSTM-Based Framework for Predicting Survival in Breast Cancer Using TCGA Omics Data	Anoushka Duggal, Samya Muhuri	12:00 PM to 12:15 PM
4	332	ECG Based Biometrics Authentication Using Deep Learning Models	Gurkirat Singh, Piyush Taneja, Gurkirat Singh Sandhu, Khayati Seth, Simranjit Kaur, Jyoti Maggu	12:15 PM to 12:30 PM
5	349	A Contextual-Submodular Approach for Summarizing Electronic Health Records	Akanksha Dhamija , Arun Sharma	12:30 PM to 12:45 PM
6	445	Deep Learning-Based Sequential Modeling of AQI Using Optimized LSTM Networks under Noisy Environmental Conditions	Shailja Tripathi, Shashi Shreya, Vinayak Gupta, Yajnaseni Dash, Rajeev Tiwari, Naweena Kumar	12:45 PM to 1:00 PM
7				1:00 PM to 1:15 PM

Session # 2-C

Day: 1
Venue: Jaypee Residency Manor, Mussoorie
Link: NA

Date: 30-Oct-25
Time: 1:30 PM

Theme: *Deep Learning Architectures and Advanced Neural Networks*

Session Chairs: *Dr Brij Mohan Singh, Quantum University*
Dr Sudeshna Chakraborty, Galgotias University

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	471	End-to-End Speech-Based Fear Emotion Detection Using CNN-BiLSTM Networks	Mandeep Mehan, Harpreet Kaur, Neelofar Sohi	1:30 PM to 1:45 PM
2	516	Boosting Diagnostic Accuracy in CKD Prediction: A Tri-Model Ensemble Approach Using RF, AdaBoost and GBM	Harwinder Singh Sohal, Isha , Jobanpreet Singh, Masroof Bashir	1:45 PM to 2:00 PM
3	537	Assessing the Effectiveness of Augmented Reality in Anatomy and Botany Education by Transforming Complex Images and Diagrams into Interactive 3D Visualizations	Havi, Mridu Sahu, Deepika Agrawal	2:00 PM to 2:15 PM
4	540	Optimized Gradient Boosting for Predictive Maintenance: A Dual-Task Framework for RUL Estimation and Failure Classification	Navaneeth S, Vimala Mathew	2:15 PM to 2:30 PM
5	559	Sarcasm Detection in News Headlines Using DistilBERT: A Lightweight Transformer-Based Approach	Shetty Ashwini Jayaram, Anushree Raj	2:30 PM to 2:45 PM
6	571	Adaptive Graph Embedding-based DRL Approach for Intelligent UAV Swarm Trajectory Planning	Maneet kaur, Avinash Kaur, Parminder Singh	2:45 PM to 3:00 PM
7				3:00 PM to 3:15 PM

Session # 2-D

Day: 1

Date: 30-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 3:30 PM

Link: NA

Theme: Deep Learning Architectures and Advanced Neural Networks

Session Chairs: *Dr Madhu Gaur, GLBITM Greater Noida*

Dr Shalini Aggarwal, IPEM Group of Institutions, Ghaziabad

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	601	Metaheuristic-Enhanced Deep Learning Models for Network Anomaly Detection: Evaluation and Future Outlook	T. Anupama Thankam, Y. Jeya Sheela	3:30 PM to 3:45 PM
2	624	Compressed Spatio Temporal Graph Neural Networks for Multivariate Time-Series Forecasting	Katherin Binu, Prem Sahni, Vidushi , Arun Kumar Choudhary	3:45 PM to 4:00 PM
3	631	Differential Expression Meta-Analysis of NGS Datasets to Classify Chronic Hypersensitivity Pneumonitis and Idiopathic Pulmonary Fibrosis	Palash Paul , Abhijit Saha, Sushmita Roychowdhury, Sivareshmi Unnithan, Koel Chaudhury	4:00 PM to 4:15 PM
4	634	Decoding Neurodevelopmental Signatures of Autism from EEG Using Deep Learning	Abhyuday Venkatesh, Yashvi Kumar, Maninder Kumar, Unnatti Khariwal, Harmanjot Kaur, Simranjit Kaur, Sachin Kansal	4:15 PM to 4:30 PM
5	642	UAV Image Detection Using YOLO and SSD: A Comparative Study	Richa Sharma, Aarti	4:30 PM to 4:45 PM
6	760	Explainable Deep Ensemble Learning Framework for Lung Cancer Classification	Santosh Srivastava, Swati Vashisht	4:45 PM to 5:00 PM
7				5:00 PM to 5:15 PM

Session # 3-A

Day: 2

Date: 31-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 9:30 AM

Link: NA

Theme: Industry 4.0 & Internet of Things

Session Chairs: *Dr Mridu Sahu, NIT Raipur*

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	53	Advanced Hydroponic Crop Management: A Smart IoT Architecture Leveraging Hybrid and Transformer-Based Deep Learning Models	Tushar Kumar, Neha Tyagi, Monali Gulhane, Mahmoud Ahmad Al-Khasawneh	9:30 AM to 9:45 AM
2	247	Individual Load Monitoring using Smart Energy Meter: An IoT-based Approach	Abhijeet Singh , Pushpendra Singh , Neelam Srivastava, Anurag Chauhan , Vipin Agrahari , Shweta Sonkar, Sakshi Tripathi, Shivani Gautam	9:45 AM to 10:00 AM
3	316	IoT-Based Automation and Real-Time Monitoring for LPG Gas Cylinders	Dhamodharan Srinivasan , Megala R , Elango T , Muthu raja S , Dinesh R , Yukesh R	10:00 AM to 10:15 AM
4	641	Generative AI for IoT Security: A Review of Attack Detection, Prevention, and Secure Data Transmission Mechanisms	Kanchan Vishalkumar Wankhade, Aditi Sharma	10:15 AM to 10:30 AM
5	655	Protecting AI-Enabled IoT Systems through Indistinguishable Obfuscation	Rahat Naz, Suman Avdhesh Yadav	10:30 AM to 10:45 AM
6	768	Optimising Health Monitoring Systems through IoT-Enabled Body Area Sensor	S Vikram Singh, Dr. Abhinav Srivastava and Dr Smita Sharma	10:45 AM to 11:00 AM
7	784	Predictive Modelling of Crop Yield Using Machine Learning and Sensor Analytics	Krashnkant Gupta, Deepshikha Bhargava, Rajeev Agrawal	11:00 AM to 11:15 AM

Session # 3-B

Day: 2

Date: 31-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 11:30 AM

Link: NA

Theme: Cyber Security and Blockchain Technologies

Session Chairs: *Dr Mridu Sahu, NIT Raipur*

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	310	Energy-Efficient Frameworks for Sustainable IoT: A Study on Green Communication Technologies	Ishu Chaudhary, Preetika bhardwaj, Krashnkant Gupta	11:30 AM to 11:45 AM
2	419	ENHANCED SECURITY AND BLOCKCHAIN BASED ONLINE MEETING PLATFORM	Rishika Agarwal, Yashasvi Saxena, Kishan Agrawal, Shubham Singh, Arti Sharma	11:45 AM to 12:00 PM
3	769	Economic Feasibility Study of Renewable Energy Integration in Retrofitted Green-to-Be Buildings	Vijay Bhutani, Preeti Singh Bahadur, Sunil Kumar Sansaniwal	12:00 PM to 12:15 PM
4				12:15 PM to 12:30 PM
5				12:30 PM to 12:45 PM
6				12:45 PM to 1:00 PM
7				1:00 PM to 1:15 PM

Session # 5-A

Day: 1
Venue: Jaypee Residency Manor, Mussoorie
Link: NA

Date: 30-Oct-25
Time: 9:30 AM

Theme: Power, Energy, and Electrical Systems

Session Chairs: *Dr. Chakradhar Adupa, SR university Warangal*
Prof. (Dr.) Dr Pooja Singh, Galgotias University

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	262	Comparative Analysis of FANET Routing Strategies: A Comprehensive NS-3 Based Study	Rashi , Archana Das , Pawan Kumar , Kamal Kumar Gola	9:30 AM to 9:45 AM
2	267	Unified Monitoring Across Payment Channels: An Enterprise Approach to Detecting SWIFT and MQ Message Failures	Shubhankar Shilpi , Piyush Ranjan	9:45 AM to 10:00 AM
3	268	Zero Trust CI/CD Pipeline: A Blueprint for Secure Software Delivery in Modern DevSecOp	Avdhesh Kumar Bhardwaj, Praveen Anugula, Shubhankar Shilpi, Piyush Ranjan	10:00 AM to 10:15 AM
4	501	Hybrid Cooperative Spectrum Sensing using Adaptive Weights & Sliding Window Approach	Jaspreet Kaur, Neelam Srivastava	10:15 AM to 10:30 AM
5	568	Fault Detection in Transmission Lines: A Review of Classical, Modern and Intelligent Schemes	Somya Saxena, Qurratulain	10:30 AM to 10:45 AM
6	625	Review of Centralized, Decentralized and Hierarchical Energy Management System of Microgrid	Singh Rupal Hukampal, Premalata Jena, Dushyant Kumar Singh	10:45 AM to 11:00 AM
7	635	Design of Read isolated 15T SRAM Cell with SEU Resilience for Radiation Hardened Electronics	Shahneela Jamal Kidwai, Naushad Alam, Belal Iqbal	11:00 AM to 11:15 AM

Session # 5-B

Day: 1

Date: 30-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 11:30 AM

Link: NA

Theme: AI for Science and Engineering

Session Chairs: *Dr. Shanu sharma, ABES Engineering College, Ghaziabad*
Prof. (Dr.) Inderjeet Kaur, Ajay Kumar Garg Engineering College

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	229	Cloud-Driven NLP Architectures for Clinical Note Summarization and Knowledge Extraction	Keshav Kaushik, Geeta Chhabra Gandhi, Mukesh Soni	11:30 AM to 11:45 AM
2	305	Brain Tumor Detection and segmentation using Swin transformer V2 and Swin U-NET	G H M RAVIPRAKASH , AKSHAY J , VINAYA M G , VINAY M , T. POONGODI	11:45 AM to 12:00 PM
3	372	AI-Driven Solar Tracking System for Optimized Photovoltaic Energy Harvesting	Vandana, Sivaneasan Bala Krishnan, Udit Mamodiya, Prasun Chakrabarti	12:00 PM to 12:15 PM
4	469	Hybrid Predictive Modeling Framework for Chronic Kidney Disease: Integrating Exploratory Data Analysis, Advanced Machine Learning and Explainable Artificial Intelligence	GAGANDEEP KAUR , Manik Rakhra	12:15 PM to 12:30 PM
5	478	An Integrated Fuzzy-Queuing Inventory Model with Real-Time Data Communication Considering Shortage, Lead Time, and Carbon Emissions	Anshu Rathi , Geetanjali Sharma	12:30 PM to 12:45 PM
6	505	Leveraging T5 and Recurrent GANs for Improved Sarcasm Generation in Natural Language Processing	Ashish Kumar Verma, Shruti, Manik Rakhra	12:45 PM to 1:00 PM
7	522	Battery-Integrated Boost-Type Hybrid Converter for Wind Energy Systems	Nancy Mary J S , Inba Remy A , Jishnuraj , Loubet Agnelo , Sathish , Denesh	1:00 PM to 1:15 PM

Session # 5-C

Day: 1

Date: 30-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 1:30 PM

Link: NA

Theme: AI for Science and Engineering

Session Chairs: *Prof. (Dr.) Sonam Gupta, Ajay Kumar Garg Engineering College,
Dr. Mahfooz Alam, G. L. Bajaj Institute of Technology and*

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	566	AI-Driven Anomaly Detection in IoT Networks: A Blockchain-Based Approach for Tamper-Proof Security	Ayush Shishodia, Aparna Sharma, Gaurav Chaudhary, Birendra Kumar Saraswat, Prem Chand Vashist, Neeru Singh	1:30 PM to 1:45 PM
2	651	Sentiment Analysis and Psychological Well-Being: A Comprehensive Survey on AI-Driven Detection of Mood Disorders	Dev Sahni	1:45 PM to 2:00 PM
3	652	A Review of the Role of Quantum Computing in Simulating	Ayaan Kalra	2:00 PM to 2:15 PM
4	653	The Economic Impact of Generative AI on Labor Markets and Income Distribution	Ojas Bansal	2:15 PM to 2:30 PM
5	687	LegalTech-Driven Assessment of Corporate Carbon Footprints and Their Implications on Environmental Public Health	Shalini. R , U.MARIMUTHU , Anju Mohan	2:30 PM to 2:45 PM
6	762	Intelligent Energy Management in Solar-Powered Microgrids Using AI-Based Load Forecasting and Optimization	Vedika Jain	2:45 PM to 3:00 PM
7	763	Personalized Marketing Strategies Using Generative AI: A Deep Learning Approach to Customer Segmentation	Tushar Goel	3:00 PM to 3:15 PM

Session # 5-D

Day: 1

Date: 30-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 3:30 PM

Link: NA

Theme: AI for Science and Engineering

Session Chairs: *Dr. Misha, Amity University Uttar Pradesh*

Dr. Kajal Rai Saraswat, G.L. BAJAJ INSTITUTE OF

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	519	Multimodal Deep Learning for Fine-Grained Brain Tumor Subtype Classification	Radhika Sethuraman, Gururama Senthilvel P	3:30 PM to 3:45 PM
2	639	A Survey on Multimodal and Sociobehavioral Approaches for Robust Deepfake and AI-Generated Fraud Detection in Social Networks	V. QUEEN JEMILA, VIDHYASATHISH	3:45 PM to 4:00 PM
3	764	Harnessing AI for Competitive Intelligence: Real-Time Market Monitoring and Analysis	Ayushi Aggarwal Goel	4:00 PM to 4:15 PM
4	765	Integration of Smart Charging Infrastructure and Battery Management Systems in Modern Electric Vehicles	Arshi Bansal	4:15 PM to 4:30 PM
5	857	Intent-Driven Zero-Touch Provisioning in Private 5G Networks with AI/ML Automation	Shweta Goyal , Bhaksara Rallabandi , Krishna Kumar Gattupalli , Monish Sai Medarametla	4:30 PM to 4:45 PM
6	858	Integrating Terrestrial and Non-Terrestrial Networks for Reliable Rural Coverage in Agriculture and Smart Grids	Shweta Goyal , Bhaksara Rallabandi , Krishna Kumar Gattupalli , Monish Sai Medarametla	4:45 PM to 5:00 PM
7	859	AI-Native Cloud-RAN Orchestration for Enterprise Private 5G Using Digital Twin Models	Neha Tripathi, Bhaksara Rallabandi , Krishna Kumar Gattupalli , Monish Sai Medarametla	5:00 PM to 5:15 PM

Session # 6-A

Day: 1

Venue: Jaypee Residency Manor, Mussoorie

Link: NA

Date: 30-Oct-25

Time: 9:30 AM

Theme: AI for Science and Engineering

Session Chairs: *Prof. (Dr.) Sandhya Umrao, I.T.S Engineering College, Greater
Dr. Manjula Shanbhog, CHRIST UNIVERSITY, DELHI NCR*

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	1	A Review on AI-Driven Predictive Analytics for Smart Healthcare	Amanpreet Kaur , Priyanka Kumari , Tanishqpreet Kaur , Akshay Juneja , Vijay Kumar , Kamal Kumar Gola	9:30 AM to 9:45 AM
2	154	Customized CNN for detecting abnormalities in X-ray and CT scan images	Shruti Sharma, Deepak Painului	9:45 AM to 10:00 AM
3	209	Aspect-Based Sentiment Analysis (ABSA): A Review of Techniques and Applications	Aafia Hussain, Sandhya Samant, Aditi Singh, Rimmy Chhabra, Vyeshikha Arora, Ananya Kapoor	10:00 AM to 10:15 AM
4	223	Multi-Sensory Data Fusion using Edge-Tethered AI for Autonomous Security in Industrial IoT Ecosystems	Sarat Piridi, Kumaran Ramaswamy, Keshav Kaushik, Renu Kumawat, Mukesh Soni	10:15 AM to 10:30 AM
5	224	AI-Enhanced Wearable Sensors Connected to Cloud Platforms for Continuous Health Monitoring in Aging Populations	Karthick Cherladine, Ojasvi Razdan, Keshav Kaushik, Ronish Balvantbhai Patel, Renu Kumawat, Mukesh Soni	10:30 AM to 10:45 AM
6	479	Design and Implementation of Surveillance System using ML	Rajnesh Singh, Sonia Rani, Alankrita Aggarwal, Ashish Tripathi, Shweta Roy, Sudeshna Chakraborty	10:45 AM to 11:00 AM
7	758	Sentiment Analysis and Classification of Tourist Place Reviews Using Machine Learning	Guruprasad Madapathi, Baljinder Kaur	11:00 AM to 11:15 AM

Session # 6-B

Day: 1
Venue: Jaypee Residency Manor, Mussoorie
Link: NA

Date: 30-Oct-25
Time: 11:30 AM

Theme: Scalable ML and Distributed Systems

Session Chairs: *Dr. Dr. Sonia kukreja Galgotias University, Gautam Buddha Nagar
Dr. Sanjeev Kumar, G.L. Bajaj Institute of Technology and*

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	62	Automated Budget Forecasting Using Machine Learning	Radhika, Kratika Jain , Rashmi Agrawal	11:30 AM to 11:45 AM
2	124	Forecasting Gender Gaps in Computer Science Learning Using Advanced Machine Learning Models	Monita Wahengbam, Tonjam Gunendra Singh, P. Abirami , G. Mahalakshmi, D. Vetriselvi, S. Nirmala Sugirtha Rajini	11:45 AM to 12:00 PM
3	140	Towards a Nuanced Sentiment Analysis: A Novel Hybrid Approach to Aspect-Based Insights	K S Shashikala, Shreyas Patil, Chethan S P , Sushruth M S , Chethan S Reddy, Dhiran Kumar Reddy P	12:00 PM to 12:15 PM
4	148	Metaheuristic Optimization for Feature Reduction in Cerebrovascular Disease Detection: A Butterfly Algorithm Approach	G S Pradeep Ghantasala, Anuradha Reddy, Rajesh Sharma R , Pellakuri Vidyullatha , Akey Sungheetha, Ananthanagu U	12:15 PM to 12:30 PM
5	202	Beyond Depression: A Two-Phase Framework for Comorbid Anxiety Detection in Depressed Individuals Using Transcript-Based Emotional and Semantic Features	Avreet Kaur, D.Vetrithangam, Zahid Hussain Wani, Dinesh Singh Dhakar	12:30 PM to 12:45 PM
6	206	Multi-Modal Smart Animal Detection System for Farm Surveillance	Prabhanshu Upadhyay, Priyanka Tyagi , Priyanshi Koundil , Akarsh Tayal	12:45 PM to 1:00 PM
7	226	Evaluating Machine Learning Model Performance in Brain Tumor Diagnosis	Umesh Kumar Verma, Sourabh Jain, Jayati Sharma	1:00 PM to 1:15 PM

Session # 6-C

Day: 1
Venue: Jaypee Residency Manor, Mussoorie
Link: NA

Date: 30-Oct-25
Time: 1:30 PM

Theme: Scalable ML and Distributed Systems

Session Chairs: *Dr. Seema Srivastava, Mangal group of Institutions, Greater Noida*
Prof. (Dr.) Divya Mishra, GALGOTIAS College of Engineering and

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	233	Computer Aided Diagnosis of Skin Cancer: A Review of Machine Learning and Deep Learning based Detection Techniques	Neha , Sandeep Mathur, Laxman Singh	1:30 PM to 1:45 PM
2	362	MAAF-Panoptic: Modality-Specific Attention and Panoptic Segmentation for Brain Tumor MRI	Sandeep Kaur, Usha Mittal, Ankita Wadhawan	1:45 PM to 2:00 PM
3	363	Performance Comparison of Path Planning Methods for Swarm UAV Networks	Sheveta Vashisht, Avinash Kaur, Parminder Singh	2:00 PM to 2:15 PM
4	382	Sequence-Aware Clone Detection: Tokenization and Matching Techniques for Software Similarity	Geetika , Navdeep Kaur, Amandeep Kaur, Manik Rakhra	2:15 PM to 2:30 PM
5	403	Pre-owned Car Price Prediction via Cross-Validated Meta-Ensembles and Feature Composites	Yamani Chandana, Garikapati Aishwarya, Pagadala Sirisha, Kurapati Anusha, Garigipati Satish, Areman Ramyasri, Dodda Venkata Reddy	2:30 PM to 2:45 PM
6	411	ExplaiLiver+: A Multi-Stage Stacking Framework with SHAP-Based Interpretability for Clinical Liver Disease Prediction	Mounica Pulagorla, Saranya Gaddam, Ramadevi Mahamkali, Abhinayasri Valivarthi	2:45 PM to 3:00 PM
7	455	Multi-Disease Risk Prediction: Leveraging Machine Learning for Heart Disease and Diabetes Prediction	Rohit Kanauzia, Mridula, Kamal Kumar Gola, Renu Bahuguna, Mansi, Sidak Singh	3:00 PM to 3:15 PM

Session # 6-D

Day: 1

Venue: Jaypee Residency Manor, Mussoorie

Link: NA

Date: 30-Oct-25

Time: 3:30 PM

Theme: Deep Learning Architectures and Advanced Neural Networks

Session Chairs: *Dr. Shikha Singh Madan Mohan Malaviya University of Technology*
Dr. Yogesh Kumar, Pandit Deendayal Energy University,

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	184	Crop Disease Detection Using Convolutional Neural Network (CNN)	Prerna Singh Baghel, Madhur Singhal, Reshami Rani, Rohit Kanauzia, Sumit Kumar Rana , Deepak Kumar	3:30 PM to 3:45 PM
2	186	Deep Learning Approaches for Predicting Consumer Purchasing Behaviour in the Organic Cosmetics Market	Neha Rawal , Archana Sharma, Yogesh Kumar	3:45 PM to 4:00 PM
3	189	Predictive Analysis and Monitoring of Crop Health using Satellite Imagery and Deep Learning	Shashank Gupta, Shefali Arora Chouhan, Amritansh Sharma	4:00 PM to 4:15 PM
4	225	Detection and Classification of Edible Mushrooms Using Deep Learning Model YOLOv12s for Market Authentication	Vivek Kumar , Dev Baloni , Mridula Singh , Vipin Kumar Dhiman, Sachin Ranjan	4:15 PM to 4:30 PM
5	227	Data-Driven Motion Planning for Autonomous Robots Using Deep Reinforcement Learning in Dynamic Environments	Pushpinder Bharti, Preeti Narooka, Keshav Kaushik, Mukesh Soni	4:30 PM to 4:45 PM
6	265	AutoGuard: A Self-Healing Proactive Security Layer for DevSecOps Pipelines Using Reinforcement Learning	Praveen Anugula, Avdhesh Kumar Bhardwaj	4:45 PM to 5:00 PM
7	284	Enhancing Cloud-Based Big Data Analytics with Adaptive Job-Level Parallelism	Isha Saini, Sumit Kumar, Vishnu Prasad Verma, Santosh Kumar	5:00 PM to 5:15 PM

Session # 7-A

Day: 2
Venue: Jaypee Residency Manor, Mussoorie
Link: NA

Date: 31-Oct-25
Time: 9:30 AM

Theme: *Deep Learning Architectures and Advanced Neural Networks*

Session Chairs: *Dr. Rupa Rani, Ajay Kumar Garg Engineering College Ghaziabad
Dr. Nandini Modi, Pandit Deendayal Energy University,*

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	266	Proactive vs Reactive Application Security in DevSecOps: A Comparative Evaluation of Shift-Left Security Tools and Strategies	Avdhesh Kumar Bhardwaj	9:30 AM to 9:45 AM
2	379	Deep Learning Based Diagnostic Framework for Pancreatic Cancer Detection Using CT-Images	Meghna Panara, Vikas Tulshyan, Premal Patel	9:45 AM to 10:00 AM
3	418	An Attention Module-Based Deep Learning Approach for Detecting Image Forgery	Neha Garg, Akshat Srivastava	10:00 AM to 10:15 AM
4	467	AgriCastNet: A Unified Deep Forecasting Framework for Smart Greenhouse Microclimates	Sathyam Reddy Mothe, Tasneem Banu Syed, Bhumireddy Sailaja, Shaik Nazeera, Takkellapati Venkata Suneetha, Padmavathy Jageti, Dodda Venkata Reddy	10:15 AM to 10:30 AM
5	468	Performance Benchmarking of Multiple Ensemble Classifiers for Predictive Modelling of Chronic Kidney Disease	GAGANDEEP KAUR , Manik Rakhra	10:30 AM to 10:45 AM
6	470	Alzheimer's Disease Detection in Brain MRI Images Using Fine-Tuned MobileNetV2	Anshu Sharma, Chirag Sharma	10:45 AM to 11:00 AM
7	491	Facial Emotion Recognition: An Efficient CNN Approach	Shivani Singh, Jay Kumar Pandey	11:00 AM to 11:15 AM

Session # 7-B

Day: 2

Date: 31-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 11:30 AM

Link: NA

Theme: *Deep Learning Architectures and Advanced Neural Networks*

Session Chairs: *Prof. (Dr.) Krishna Kant Agrawal Galgotias University, India*
Prof. (Dr.) POONGODI T, Dayananda Sagar University, Bangalore

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	640	DEEP LEARNING APPROACHES FOR HEMATOLOGICAL DISORDERS: A REVIEW ON CLINICAL AND IMAGING DATA	Parth Sanjay Wadhwa, Nandini Modi, Yogesh Kumar	11:30 AM to 11:45 AM
2	700	Ensemble ResNet-XGBoost Model based Socio-Economic Empowerment of Women	V.Vandana , D.Vezhaventhan	11:45 AM to 12:00 PM
3	736	Evaluation of Deep Learning Classifiers and Hybrid Networks for Mammogram – Based Breast Cancer Detection	VELPULA ANUSHA , SIVAKUMAR V , RAGAVAN K	12:00 PM to 12:15 PM
4	759	A CNN-Transformer Framework for Real-Time Analysis of Tennis Match Dynamics	Swati Vashisht	12:15 PM to 12:30 PM
5	761	Feature-Enhanced Deep Learning Models for Robust Ransomware Detection	Shweta Singh, Tejaswi Khanna, Deepak Kumar Verma	12:30 PM to 12:45 PM
6	766	Enhancing Cognitive Behavioral Insights Using Neural Networks: A Deep Learning Approach to Psychological Pattern Recognition	Sumayah Mittal	12:45 PM to 1:00 PM
7	792	Enhancing Healthcare Chatbots with Retrieval-Augmented Generation and Large Language Models	Yajnaseni Dash, Abhinav Gautam, Vinayak Gupta, Sudhir C. Sarangi, Ajith Abraham	1:00 PM to 1:15 PM

Session # 7-C

Day: 2

Date: 31-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 9:30 AM

Link: NA

Theme: Industry 4.0 & Internet of Things

Session Chairs: *Prof. (Dr.) Ruchi Gupta, Ajay Kumar Garg engineering college
Dr. Yajnaseni Dash, School of Artificial Intelligence, Bennett*

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	119	Transformer-Led Adaptive Multi-Modal Biometric Authentication and Fusion	Chitra Jain, Kamal Kumar Gola, Puja Das, Ansul, Shruti Kumari, Akshay Juneja	9:30 AM to 9:45 AM
2	164	AI-Powered Plant Disease Detection Using EfficientNetB3 with Deep Learning	D.Vetrihangam , Devendra Singh Sogarwal , Dinesh Singh Dhakar, Ishita Rani, Zahid Hussain Wani, Aman kumar	9:45 AM to 10:00 AM
3	205	Navigating Ethical and Legal Challenges of IoT Adoption in Ecommerce : A Review of Responsible Digital Transformation Frameworks	Shaweta Berry, Garima Bhardawaj, Sapna Popli	10:00 AM to 10:15 AM
4	207	Leveraging AI for a Multi-Class Intrusion Detection System in IoMT-Based Digital Healthcare	Pragya Bajpayi, Sandeep Mathur , Madhu Sharma Gaur	10:15 AM to 10:30 AM
5	264	Optimal Dynamic Regimes for Corporate Human Capital Development Using Transfer Learning	Shivareddy Devarapalli , Monu Sharma , Abhishek Jain , Sonia Rani Sharma	10:30 AM to 10:45 AM
6	487	Experimental Investigation on Energy-Efficient LoRaWAN and NB-IoT Technology for Device-to-Device Communication Framework for Sustainable Smart City	M. Vinodhini , S. Sadhana , A. Pradipa	10:45 AM to 11:00 AM
7	826	Enhancing Diabetic Retinopathy Classification Using Advanced CNN Models	Yajnaseni Dash, Priyanka Mathur, Shriyash Saxena, Shaurya Thakur, Sudhir C. Sarangi, Rajeev Tiwari	11:00 AM to 11:15 AM

Session # 7-D

Day: 2

Date: 31-Oct-25

Venue: Jaypee Residency Manor, Mussoorie

Time: 11:30 AM

Link: NA

Theme: Cyber Security and Blockchain Technologies

Session Chairs: *Prof. (Dr.) Ruchi Gupta, Ajay Kumar Garg engineering college
Dr. Yajnaseni Dash, School of Artificial Intelligence, Bennett*

#	Paper ID	Paper Title	Author(s)	Presentation Slot (IST)
1	298	AI IN SUSTAINABLE DEVELOPMENT AND CLIMATE CHANGE MITIGATION	Rahul Kumar, Amita Bisht, Sukesh kumar Bhagat	11:30 AM to 11:45 AM
2	299	Leveraging AI for Early Detection and Intervention in Mental Health Disorders in the Digital Age	Amita Bisht, Rahul Kumar, Sukesh Kumar Bhagat	11:45 AM to 12:00 PM
3	422	A Comprehensive Framework for Enhanced Detection and Mitigation of Cyberbullying	Ritu Singh, Mohammad Arif , Prashant Upadhyay, Himanshu Payal	12:00 PM to 12:15 PM
4	569	Blockchain and Explainable AI (XAI) for Trustworthy IoT Decision-Making in Industry 4.1	Birendra Kumar Saraswat , Karuna Sharma , Kavya Goswami, Arun Mittal, Monika , Kajol Kathuria	12:15 PM to 12:30 PM
5	573	Analytical Hierarchy Process Based Approach for Resource Selection in Cloud Environment	Anju Shukla Shukla, Siddharth Singh Chouhan, Rajneesh Kumar Patel, Shishir Kumar	12:30 PM to 12:45 PM
6	767	A Systematic Review of Threat Intelligence and Intrusion Detection Systems in Cybersecurity Architecture	Arth Bhardwaj	12:45 PM to 1:00 PM
7	825	BESDR: Blockchain-Driven Sale Deed Registration for Secure and Transparent Property Transactions	Parveen Mor , Rajesh Kumar Tyagi, Deepak Kumar Verma	1:00 PM to 1:15 PM