

TECHNICAL PAPER PRESENTATION SCHEDULE: CONFLUENCE 2025

Day1: 16th January 2025

**14:00 Hrs- 16:00 Hrs
(E3-312)**

**Session Chair: XXXXX
Session Co-Chair: XXXXXXX**

Presentation: Track 1A- Machine Learning

Paper ID: 486 “Adaptive fusion based Multimodal Biometric Model using Deep Learning”, Laxman Singh
Paper ID:711 “An Improved Genetic Algorithm Optimization Random Forest (GAORF) Machine Learning Model for Cervical Cancer Prediction”, Shilpa Suryavanshi, Mukesh Asati
Paper ID:219 “A Deep Learning Approach Using Dermoscopy Images for Classification and Diagnosis of Skin Diseases”, Sambhavi Gupta, Ishitaa Chugh, Lakshita Aggarwal, Arushi Rawat
Paper ID:281 “Time Series Deep Learning Models to Predict and Analyze Air Quality Index of Indian Cities”, Devarpita Dey, Kuldip Katiyar
Paper ID:371 “Exploring Generative Power: A Comparative Investigation of Generalized Ensemble GAN and Variants”, Preeti Sharma a, Manoj Kumar, Hitesh Kumar Sharma, and Pradnya Bhagwat
Paper ID:375 “Stacked CNN: Deep Networks for Brain Tumor Classification”, Sreenubabu Dasari, Janmenjoy Nayak, Tripti Swarnkar
Paper ID:487 “Advancing Diabetic Retinopathy Detection through Collaborative Vision Transformer and CNN Architectures Integrated with Explainable AI”, Kriti Priya Shah, Tripti Singh, Mansi Sharma, Achal Baniya and Afnaan K
Paper ID:498 “A Hybrid Approach for Efficient and Precise Food Detection using YOLOv9 and RCNN”, Amrendra Yadav, Anurag Shukla, Naina Garg, Surendra Kumar Keshari and Veepin Kumar
Paper ID:516 “Transforming Molecular Insights: Enhancement of Property Prediction using Graphormers”, Pratham Deepak Rao, Purvik S Nukul, Rahul Ranganath, and Bhaskarjyoti Das
Paper ID:519 “Parallel Text Classification using Sentiment”, Aditya Basavaraj Halingali, Ruchitha S R, N Gopalakrishna Kini and Jyothi Upadhya K

**14:00 Hrs- 16:00 Hrs
(E3-311)**

**Session Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Session Co-Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx**

Presentation: Track 1B- Machine Learning

Paper ID:11 “Feature Clustering based Semi-Supervised Approach for Efficient Human Action Recognition”, Shivam Tiwari, Maneesh Pant, Charu Awasthi
Paper ID:48 “Deep Learning Based Human Activity Recognition for Sports and Fitness Performance Enhancement” Fiza Bansal, Nikita Jha, Vansh Sharma and Dolly Sharma
Paper ID:53 “Diagnosis and Prediction of Multiple Sclerosis Disease Using Quantum Machine Learning Classifiers”, Jyoti
Paper ID:85 “Sentiment Analysis using NLP on Social Media”, Shailendra Narayan Singh, Vaishnavi Sharma, Pragya Madnawat, Somdatta Sarkar
Paper ID:780 “A Movie Recommendation System Using Machine Learning Algorithms”, Raushan Kumar Singh, Nihar Ranjan Roy, Lekhraj, Sachin Upadhayay
Paper ID:794 “Melanoma Skin Cancer Diagnosis Based On Deep Learning: A Comparative Study”, Asura Khanom Mahi, Topu Biswas, Hadaate Ullah
Paper ID:798 “Enhanced Deep Learning Framework for Predicting Physical Stability in Amorphous Solid Dispersions with Robust Class Imbalance Resolution”, Renu Tushir, Sanjeev Kumar Prasad, Vedanshi Verma
Paper ID:815 Mental Health Prediction Based On Behavioral Analysis And Digital Device Usage Using Machine Learning Algorithm”, D. Helen
Paper ID:324 “Image dehazing using deep neural networks and boundary constraint”, Rama Krishna Peddarapu, Harini Gunti, B.Sai Sriyuktha , Maddipati Rishitha,

Yuktha Shreya Naregudem

Paper ID:379 “Bi-DCGAN: Improving Facial Image Synthesis from Textual Descriptions with Integrated Deep Learning Models”, Dharamsotu Bheekya, Zubair Ali Ansari, D Vibhaas Chandra, A Koteshwar, and K V Nehavalli

**14:00 Hrs- 16:00 Hrs
(E3-310)**

Session Chair: xxxxxxxxxxxxxxxxxxxxxxx

Session Co-Chair: xxxxxxxxxxxxxxxxxxxxxxx

Paper Presentation Track 2-Artificial Intelligence

Paper ID:253 “AI-powered Network Efficiency Prediction for LoRa-based Smart Traffic Systems”, Sakshi Gupta, Manorama Patnaik and Usman Ibrahim Musa

Paper ID:369 “Advanced AI-Driven Predictive Modelling for Enhancing Customer Retention in Subscription-Based Service Platforms”, Janjhyam Venkata Naga Ramesh, Dr. Roshan D Suvaris, Mahabub Basha S, Dr. Divya Nimma, Dr B Kiran Bala

Paper ID:407 “AI-Driven Sentiment Analysis for Improved Emotional Ergonomics of Healthcare Workers”, Krishnaveni Subramani, Geetha Manoharan, Puneet Sharma

Paper ID:575 “Segmentation of tumour in human brain MRI using diffusion filter and Otsu thresholding”, Amar Singh, Rajesh Kumar Shrivastava, Ashutosh Srivastava

Paper ID:791 “An AI-Enhanced Framework for Mental Health Management”, Abhishek S Shetti, Asha Kurian

Paper ID:150 “Recommendation System for Cardiovascular Disease Using Smart Sensor Band”, A. Arivardhini, R. Kayalvizhi

Paper ID:191 “A Comparative Analysis of Existing and AI-Driven Frameworks for Industrial Interaction Practices”, Ashwini Kumar and Rekha Agarwal and Archana Singh

Paper ID:696 “Parallelized Hybrid Sorting using Quick and Insertion Sort for Big Data”, Maithri Bairy, Prajna Pai, N Gopalakrishna

Kini, Jyothi Upadhya K

Paper ID:608 “TabGAN-Enhanced Predictive Maintenance Framework for turbofan engines in avionic systems”, Sahil G K, S Sidwin, Shreya M P, S Yashas, Dr. Prajwala T R”

Paper ID:585 “GreenChain: Innovating Carbon Markets with AI and Blockchain for a Sustainable Future”, Guaranshi Gupta, Anant Jain, Ansh Sindhwani, Rahul Johari

**14:00 Hrs- 16:00 Hrs
(E3-309)**

Session Chair: xxxxxxxxxxxxxxxxxxxxxxx

Session Co-Chair: xxxxxxxxxxxxxxxxxxxxxxx

Paper Presentation Track 3- Data Science

Paper ID:727 “Enhancing Ultrasound Nerve Segmentation: Optimized ResU-Net with Noise Reduction and Multi-Scale Feature Extraction”, Hardik Doshi, Roshan Lal, Shweta Singh, Vipin Kr. Kushwaha, Shiva Gupta Deepak Kumar Verma

Paper ID:204 “Predictive Analytics based on Public Health Response using Epidemiological Models: A Data Driven Approach”, Saumya Giri, Harshita Sharma, Lakshita Aggarwal

Paper ID:321 “Comparative Analysis of Feature Selection Techniques for Malware Detection in URLs”, Neha Yadav, Faizal Siddique

Paper ID:468 “Ontology-Driven Semantic Interoperability Approach for Big Data Analytics in Healthcare IoT Systems”, Ritesh Chandra, Sadhana Tiwari, Sonali Agarwal, Navjot Singh

Paper ID:623 “Image Segmentation of Unlabelled Periapical Radiographs to Detect Periapical Lesions”, N. Deepa , Ketha Sathwik Reddy ,Manpreet Kaur ,Maneesha Singh ,Tanmaya Arora ,Alpa Gupta

Paper ID:673 “Unveiling the Dynamics: Exploring Meteorological and Hydroclimatic Factors in Rainfall Prediction”, Manpreet Kaur Aiden, Sanjeev Thakur, Deepti Mehrotra

Paper ID:122 “Forecasting Revenue Trends: Leveraging Regression and Deseasonalized Index Analysis”, Shrey Arora, Krishna Kumar Singh, Ajay Singh

Paper ID:135 “Identifying Key Software Metrics for Fault Prediction Using Advanced Feature Selection”, Harsimran Kaur, Parminder Kaur, Hardeep Singh, Amitpal Singh Sohal, Inderdeep Kaur

Paper ID:775 “Google and Flower Federated Learning Frameworks Comparison in Bug Prediction in terms of Flexibility and Technical Factors”, Sahand Saed

15:00 Hrs- 17:00 Hrs
(E3 316)

Session Chair: xxxxxxxxxxxxxxxxxxxxxxxx,
Session Co-Chair: xxxxxxxxxxxxxxxxxxxxxxxx

Paper Presentation: Track 1C-Machine Learning

- Paper ID:185 “Enhancing Fake News Detection Using Stacked Ensemble Learning with XGBoost, Random Forest, and Support Vector Machines”, Barun Kumar, Punam Kumari, Ajit Kumar and Sanjeev Kumar Prasad
Paper ID:186 “Towards Secure and Efficient Brain Tumor Detection: Federated Learning for Privacy-Preserving MRI Analysis”, Vikas Maurya and Abdul Aleem
Paper ID:188 “Early Prediction and Detection of Liver Disease Using Deep Learning”, Vartika Srivastava, Naveen Kumar, and Abdul Aleem
Paper ID:207 “Analyzing Lightweight Language Models for Real-Time Mental Health Counseling: A Data-Driven Approach”, Nikhil Rajput, Diviit MG, Sofia Singh, and Manish Kumar Ojha
Paper ID:218 “A Deep Dive into NLP Based Text Emotion Analysis”, Sagar Kohli, Kuldip Katiyar
Paper ID:774 “Exploring Sentiments in Stack Overflow Score and Discussion: A Dual Approach with Machine Learning Models and Expert Evaluation”, Golshid Ranjbaran, Banani Roy, Chanchal Roy
Paper ID:816 “A Comparative Study on Text Summarization using Large Language Models”, S.Lakshmi
Paper ID:767 “Deep Learning Models for Accurate and Efficient Classification of Brain Disorders using MRI Scans”, Krishna J, Jagan M, Eswar R, Harsha Niketh R, Mohammad Areef Basha A
Paper ID:738 “Prognosis, and Diagnosis of Diabetes through Minkowski Distance Metric”, K. Kanmani, A. Murugan, Sivakumar Selvarasu, and Soumya Ranjan Nayak

15:00 Hrs- 17:00 Hrs
(E3-317)

Session Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxand
Session Co-Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Presentation: Track 4-Computational Techniques

- Paper ID:439 “A Framework for Cross-Dataset Semi-Supervised Segmentation of Liver Hepatocellular Carcinoma in Whole Slide Images”, Aryan Tyagi, Atharav, Tanishq Mehta, Priti Bansal, Preeti Kaur
Paper ID:478 “An Efficient ADAS Framework for Cross-Domain Image Translation and Feature Preservation Utilizing CycleGAN”, Abhishek Bidhan, Nitesh Kumar Shah, Rohit Kumar, Vyom Kumar Gupta, Anshu S Anand, Surya Prakash
Paper ID:504 “Framework for Malware Detection in IoT Resource Allocation”, Arti Kotru, Dr.Isha Batra
Paper ID:506 “Transforming Customer Engagement Through Curated Ad Creatives: An Agentic Approach”, Meghana Anand, Spoorthi Shivaprasad, Sumukh Suresh, Surabhi A. Chilkunda, and Charu Kathuria
Paper ID:511 “Parallelization of Fast Non-Local Means Algorithm for Video Denoising”, Krishnamoorthy Karantha K, Gajendra S Kundar, *N Gopalakrishna Kini and Jyothi Upadhya K
Paper ID:561 “Parallel Implementation of Dutch Flag Sorting Algorithm Using MPI and CUDA” Aishwarya S, Ananya Bhat, N Gopalakrishna Kini, Jyothi Upadhya K
Paper ID:601 “Optimizing Double Metaphone Algorithm for Search Suggestion” Generator Deepthi, Aparna Saju, N Gopalakrishna Kini, Jyothi Upadhya K
Paper ID:637 “Key Exchange Protocol with (p, q)-Transform: Leveraging on BLAKE3 Hashing” Alvary Kefas Kwala, Alpna Mishra, Shri Kant
Paper ID:708 “Optimization of the Bitap Algorithm for High Performance Pattern Matching in DNA Sequences” Apoorva Ananth P , Rachana V Shanbhogue , N Gopalakrishna Kini and Jyothi Upadhya K
Paper ID:556 “Structural-Linguistic Protein Interaction Modeling (SLPIM): Bridging Protein Structure and Natural Language Insights” S. Kunal Achintya Reddy, V. Sriman Vashishta, Raaghavan M.S, Thara S, and Veena G

Day2: 17th January 2025

10:00 Hrs- 12:00 Hrs
(E3-312)

Session Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxand
Session Co-Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Presentation: Track 1D-Machine Learning

Paper ID:537 "A Comprehensive Review: Machine and Deep Learning Techniques for Sentiment Analysis on Datasets of Political Tweets" Rekha Jangra and Abhishek Kajal

PaperID:574 "Deep Learning based Periapical Lesion detection using labeled radiographs" N. Deepa, Maneesha Singh, Manpreet Kaur, Alpa Gupta, Aayush Kumar Singh, Gul Mittal

Paper ID:619 "Image Denoising with Generative AI: A GAN-CNN Based Approach" Kanika Dhiman, Pankaj Deep Kaur

Paper ID:625 "Reviewing Violence Detection with Explainable AI and Alert System: Using CNNs, LSTM" Aditi Khasnis, Amogh Firke, Pragnya Vempati, Sujal S, Dr. Charu Kathuria

Paper ID:701 "Improving Coronary Artery Disease Prediction Accuracy with Novel Machine Learning Algorithms" Sachin Upadhyay, Anil Kumar Sagar, Nihar Ranjan Roy

Paper ID:726 "Cotton Leaf Disease Identification in Precision Agriculture - A Comparative Analysis of VGG16 and VGG19" Mr. Jaydeep Kishorbhai Ratanpara, Dr. Krunal Vaghela

Paper ID:755 "Visual Speech Recognition: Advancements in Lip-Reading through Deep Learning" Kandula Narasimharao, Uppalapati Padma Jyothi, Ch. Gowithami, J. Harini

Paper ID:759 "Revolutionizing Brain Tumour Detection with Vision Transformers (ViT)" Umang Sachdev, K. Srinivas, A. Charan Kumari

Paper ID:762 "Analysis of Brain Tumors: A Comparative Study of YOLOv5 and U-NET Architecture" Priti Mohan Pattanayak, Sourav Behera, Subhajit Pati, Spandan Sahoo, Anwaya Kumar Nayak, Pratyush Sahoo

Paper ID:765 "Optimizing Crop Yield Forecasts through Machine Learning Integration of Meteorological and Pesticide Data", T. Hari Krishna, M. Guru Naga Jyothi, S. A. Rizwana, A. Mounika, B. Bhavitha, K. Madhurima

10:00 Hrs- 12:00 Hrs
(E3-311)

Session Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxand
Session Co-Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Presentation: Track 1E-Machine Learning

Paper ID:99 "Beyond the Pitch - Deep Learning in Cricket Performance Analysis" Shalini Gambhir, Ananya Swami, Divyansh Tyagi, Vishesh Aggarwal

Paper ID:100 "Predictive Modeling for Breast Cancer Diagnosis Using Machine Learning Algorithms" Anjali Sirohi, Ankeeta Singh, Anusua De, Dr. Swati Singal, Dr. Mandeep Kaur

Paper ID:101 "Advances in Podcast Sentiment Analysis: A Comparative Study Using NLP Techniques" Anshika Sansanwal, Akanksha Thakur, Riddhi Gupta, Richa Gupta

Paper ID:152 "Automated Onset Seizure Detection Using EEG Signals by Machine Learning" Sandeep Kumar Saini, and Garima Chande

Paper ID:157 "Early Detection of Cardiovascular Disease through the Utilization of Multiple Machine Learning Techniques" Sanjeev Bhardwaj and Deepankar Bharadwaj

Paper ID:158 "PDF Document Query Analyzer Using Generative AI" Sushant Bhoite, Rushikesh Hiray, Saurabh Isane, Roshani Raut

Paper ID:175 "Information retrieval of historical milestones of events using RAG" Deepak Kumar Sahoo, Divyasri Sa, Veena Gb, Deepa Gupta

Paper ID:178 "Precision in Fake News Detection: A Multi-Embedding and Stacked Neural Network Approach Shivam Bhadula, Devashish Kartik, and Deepa Gupta"

Paper ID:181 "Restaurants Profit Maximization Using Machine Learning Algorithms" Alukapally Neha Reddy, Jeffy Finny and Dr. Gaurav Raj

Paper ID:183 "Deep learning based navigation techniques for Vision Guided UAVs: A Review Paridhi Naithani Akashdeep, Sakshi Kaushal"

**10:00 Hrs- 12:00 Hrs
(E3-310)**

**Session Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxand
Session Co-Chair: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx**

Presentation: Track 5-Advancements in IoT, Cyber Security and Cloud Computing
Paper ID:805 “ATM Transactions made safer using NFC and Blockchain” Divyans Mahansaria and Uttam Kumar Roy
Paper ID:728 “Adversarial Attacks on Large Language Models: The Prompt Injection Approach” Siri H , Vijayshree V M and Jyoti Shetty
Paper ID:187 “Malware Detection Using Cyber Intelligence” Naveen Kumar, Shubhi Singh, and Abdul Aleem
Paper ID:71 “vKavach: A Real-Time Attack Resilient Malware Detector in Virtualization Environment” Fiza Bansal, Nikita Jha, Vansh Sharma and Dolly Sharma
Paper ID:444 “Predicting Agitation in Dementia patients using IOT sensor data and deep learning techniques” B. Umah, Suja Palaniswamy, Kumaran U
Paper ID:283 “Securing Wireless Sensor Networks: Physical Unclonable Function-Driven User Authentication and Key Agreement Framework” Aparna Singh, Surbhi Sharma, Pallavi Goel , Surabhi Solanki
Paper ID:590 “IoT based Image Defogging and Obstacle detection System to avoid road accident during winters” Suraj Upadhayay, Srijan Srivastava, Tanisha Choudhary, Soham Tyagi, Surendra K Keshari
Paper ID:682 “FORML: A Hybrid Approach to Real-Time Forest Fire Detection Using WSNs and UAVs” Jhalak Dutta, Smita Das, Abhjit Sinha, Atyasha Bhattacharyya, Srijita Bhattacharya
Paper ID:720 “Enhancing the Performance of Wireless Sensor Networks Based on Tasmanian Devil Optimization by Energy-Efficient Clustering and Routing” Namita Shinde and Vinod H.Patil
Paper ID:778 “Smart Windshield: Real-Time Heads-Up Display for Safe Driving”, Pranav Sourya, Shasi Sree Charan, Ananya Tayi, Meena Belwal