

2026 International Conference on Intelligent Computing, Networks, and Security (IC-ICNS 2026)

Bhubaneswar, India

26-28 March 2026

Pages 1–723

IEEE Catalog Number:
ISBN:

CFP268AW-POD
979-8-3315-8338-5



Copyright © 2026, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP268AW-POD
ISBN (Print-On-Demand):	979-8-3315-8338-5
ISBN (Online):	979-8-3315-8337-8

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

Development of a Cloud-Coordinated Mobile Virtual Power Plant Using Public-Service EVs for Community-Level Techno-Economic Valorization	1
<i>Selva Vengatesh M, Charles Raja S</i>	
Datacleanz: A Modular C Library for Scalable Data Cleaning and Preprocessing	7
<i>Priyanka Gupta, Vijay Kumar, Sarat Kumar Patra</i>	
Forest Fire Detection and Classification using YOLO v4, YOLO v11 & YOLO v12 - A comparative Study	13
<i>Bolem Divya Sri, M. Niveditha, Jawaji Jerusha Angeline, A. Diana Andrushia, Mary Neebha T</i>	
A Flask-Based Web Application to Simplify International Trade for New Exporters	18
<i>D. Menaka, Joyclyn Immanuel J, Hirthick Raja C</i>	
Enhanced Thermal Face Recognition through Advanced Feature Extraction Methods: A Biometric Approach Using CNN	24
<i>M. Chengathir Selvi, Sarumathi R, Indhuja M, Bharathi R</i>	
Predictive Maintenance Strategies Using Big Data and Machine Learning	32
<i>Shreyas Chandra, Amit Kumar Patro, Harshvardhan Sharma, P Adarsh, D. Saveetha</i>	
MobileNetV2 Based Deep Learning Framework for Accurate Orange Leaf Disease Detection	38
<i>Rahul Chauhan, Bura Vijay Kumar, Bhawna, Neha Sharma, Gaurav Tuteja</i>	
Optimized Hybrid Deep Learning Framework for Early Detection of Breast Cancer Using Image Processing Techniques	44
<i>Pralohith Reddy Chinthalapelly, Prabhu Krishnaswamy, Prabhu Muthusamy, Kalyan Kondisetty Sandeep C S, MM. Poornima</i>	
Comparative Analysis of Foundational and New Authentication Methods	51
<i>Punya Shree J, Surabhi Saxena, Neha Singhal</i>	
Hybrid Ensemble-Based Assessment Framework for Measuring EFL Reading and Speaking Skills among University Students	61
<i>Roseline Jesudas, Sajeena Gayathrri, Kesavan Vadakular Elumalai, Udhy Sajeelal, Johnsy Mary Johnson Subham Pankaj Samantaray</i>	
Parallel Deep Learning LSTM Models for Scalable Financial Market Prediction	67
<i>Karthik V, Parvathareddy Akhil Tej Reddy, Lakshmi Harika Palivela</i>	
Gait Analysis for Disease Detection using CNN and LSTM	73
<i>Anil Kumar Meher, Rajesh Kumar Ojha, Gopi Krishna Panda</i>	
Attention Mechanisms in Deep Networks for Retinal Image Segmentation	79
<i>Tripty Singh, Vundela Lasya, Mekala Varun, Vijay Gosu</i>	
Effective Strategies for Parents to Manage their Children's Online Activities Using AI/ML	85
<i>Kripa Singh, Muskan Pandey, Abhishek Kumar, Vijay Kumar Mehta, Rohit Kumar Sinha, Ritesh Kumar</i>	
Explainable 3D-CNN for Schizophrenia Detection using Multi-Site Structural MRI	91
<i>Sameen Raza, Amogh Gupta, Subhashree Mishra, Bhabani Shankar Prasad Mishra</i>	

A Hybrid Feature Fusion Framework using CNN and EfficientNet-B2 for Brain Tumor classification	97
<i>Debasish Padhy, Pradeep Kumar Jena, Charulata Palai</i>	
Smart Home Automation Using a Fuzzy Logic–Decision Tree Hybrid Model for Enhanced Efficiency and Resource Management	103
<i>Savithri Padma Priya V, K. Rajanikanth, Snehal Dewalkar, Nanthini L, Nandhini N, Vinayak B. Kale</i>	
Real-Time Energy Management in Smart Homes Using Soft Actor-Critic Deep Reinforcement Learning	109
<i>Menaka S R, Dharani G, Boopathy S S, Kamali R, Hariesh R, Vengatesh K</i>	
Decentralized Freelancing Platform with Smart-Contract Escrow & AI Talent Matching	115
<i>Konduri S P S Narayana Murthy, Tirumala Anand Kumar, R.Nivedha, B Balasaigayathri</i>	
Facial Expression Recognition Using Convolutional Neural Network, Fuzzy Adaptive Resonance Theory, and Ensemble Learning (An Unsupervised Approach)	121
<i>Medidi Vinay, S. Srinivas Kumar</i>	
A Data-Driven Modelling Approach to Predict Retailer Stocking Behaviour in the OTC Wound-Care segment	127
<i>Arunava Mookherjee, Somroop Siddhanta, Bijoy Gupta, Surjadeep Dutta, Bishal Kr. Rajbhar</i>	
FA–GA–RF: A Hybrid Optimization and Ensemble Learning Framework for Kidney Stone Disease Prediction	133
<i>Pinakshi Panda, Sukant Kishoro Bisoy, Prabodh Kumar Sahoo, Harsh Kumar Dixit</i>	
An Ensemble Deep Learning Approach for Multi-Disease Chest X-Ray Analysis: Tuberculosis Classification and Pneumonia Detection	138
<i>Tripty Singh, Yashaswini Manyam, Hemanth Saga, Prakash Duraisamy, Afnaan K</i>	
Deep Learning for Detecting Anomalies in Water Treatment Systems	144
<i>Rajan S, Vinithkrishna V G, Subiksha M S, Tamilselvam G, Vimalathethan I</i>	
Adaptive Trajectory Control and Obstacle Avoidance in Autonomous Vehicles Using MPC and RL-Enhanced Decision-Making	151
<i>Viamrsh P S, Vijayabhaskar B, Ramkiran B</i>	
Scalable Transfer Learning Approach Using EfficientNetB5 for Colon Disease Detection	157
<i>Stuti Bhatt, Bura Vijay Kumar, Alankrita Joshi, Neha Sharma, Gaurav Tuteja, Sheifali Gupta</i>	
Secure Offline Transactions Using Bluetooth: A Cryptographic Approach for Wireless Payments	163
<i>Shashank Parmar</i>	
Spam Mail Detection System Using Deep Learning	169
<i>Dushyant Krishna Sharma, Vaishali Ganganwar</i>	
Agri Hub: The Farmer's Digital Partner (Central platform for all farming needs)	175
<i>Supriya Telsang, Nishant Ninawe, Piyush Pagar, Surabhi Nikam, Om Agarwal</i>	
Ringai : A Hybrid Machine Learning Model for Early Detection of Tinea Corporis	181
<i>Naseema Begum, Krithika V, Hema Prasanna K, L Mary Gladence</i>	
Advancing Crop Health: An Integrated Deep Learning Approach For Plant Disease Detection	187
<i>Murthuja P, Radha Krishna Ghodke, Mohan Reddy Pasurla, Prasanthi Kaluri</i>	

Detection of Leaf Health in Carissa carandas Using Deep Learning	193
<i>Patatri Acharya, Sudipta Acharya</i>	
ASL Alphabet Recognition Using a Deep Convolutional Neural Network	199
<i>Seerat Singla, Deepak Kumar, G Sunil, Sonal Malhotra, Kamlesh Kukreti, Aryan Gupta</i>	
Cognitive Restructure of Crowd Emotions and Predicting Crowd Behavior using Concrete Autoencoders Superimposed over AAM and FaceNet	206
<i>Supratim Basu, B Janet</i>	
Vision-Based Integrated Detection of Traffic Signals and Lane Markings for Autonomous Vehicles	211
<i>Sangeetha K, Saravanan V, Sushil Kumar V, Tarun P V</i>	
An Enhanced Deep Learning Framework for Cardiac Arrhythmia Classification using 12-Lead Multi-labelled ECG Signals	217
<i>Mahathi D, Rishita Bafna, Likhitha S, M. Vijetha, Manasa T. P, Madhuri J</i>	
AI-Driven Deep Learning System for Alzheimer's Disease (AD) Detection Via MRI Imaging	223
<i>Sanjoy Mukherjee</i>	
Physics-Constrained Vision Transformer Framework for Disaster Forecasting Using SAR–Optical Image Translation and Meta-Learning	229
<i>Shon K Wilson, Nirmal Varghese Babu P, J. S Rajkumar</i>	
Breast Lesion Characterization in Ultrasound Images Using Explainable and Feature-Guided Machine Learning Ensembles	235
<i>Divya Rashmi, Bikesh Kumar Singh, Narendra Kuber Bodhey</i>	
AI-Driven Energy Optimization for Sustainable Wireless Connectivity: Bridging the Gap Between 5G and 6G Networks	241
<i>Minakshi Banger, Sugandha, Archana Tanwar, Jyoti Syal, Deepa Rani</i>	
Stochastic Performance Modeling of Multi-Charger Charging Stations with an SOC-Dependent Arrival Rates	247
<i>Arun Mozhi S, Charles Raja S, Vijay Kumar N M, Arul Doss Adaikalam</i>	
Impact of Power Outages on Informal Livelihoods in India: A Multi-Phase Analysis of AT&C Losses and Supply-Demand Dynamics	253
<i>Gayatri S Nair, Sangeetha G, Manasa Kulkarni</i>	
A Lightweight LSTM with CatBoost Framework for Intrusion Detection in 5G Networks	259
<i>Selvi.M, Vijaykumar V.R, Swethambri Mohan</i>	
Enhanced Parkinson's Disease Detection using Ensemble Machine Learning and Spiral-Derived Handcrafted Features	265
<i>Vaibhav Dutt Trivedi, Sanjana Malhotra, Rajkumar S, Arumuga Arun R</i>	
SmartNano: Data-Intelligent Modeling of Macrobrachium rosenbergii Chitosan Nanoparticles for Predictive Antibacterial Analysis	271
<i>S.John Justin Thangaraj, Divya Vijayakumar, Deepak. V</i>	
Detection of Pneumonia and Tuberculosis from Chest X-ray Images using a Hybrid Deep Feature Fusion-based Representation Learning	278
<i>Subrat Kumar Kabi, Rajesh Kumar Tripathy, Dipti Patra, Ganapati Panda</i>	

Deep Learning-Based Prediction and Classification of Microplastics in Water Samples	282
<i>Abirami G, Triveni K, Gaddam Hemanth Reddy, Gadi Manohar Nadiu</i>	
Dual Feature Selection-Based Hybrid GRU-Attention-XGBoost Model for Stock Index Price Prediction	288
<i>Rajesh Kumar Ghosh, Bhupendra Kumar Gupta, Ajit Kumar Nayak</i>	
AutoAdapt-LoRA for Intelligent Vulnerability Detection using Parameter-Efficient Fine-Tuning	294
<i>B.Ujalesh Subudhi, Santosh Kumar Kar, Bandhan Panda, Brojo Kishore Mishra, Bonomali Khuntia</i>	
Enhancing IoMT Security with Deep Learning In Healthcare Systems	301
<i>Makaire Njie</i>	
Enhanced Frequency Stability in Low-Inertia Shipboard Microgrid using Virtual Inertia Control	307
<i>Pratap Chandra Nayak, Rupali Balabantaraya, Amit Kumar Panda, Om Prakash Pradhan</i>	
<i>Sunita Pahadasingh, Ramesh Chandra Prusty</i>	
Advanced Fraud Detection using Federated Learning and Integration with RPA	312
<i>Srisha N, Prasad A Y, Tarun N, Thanmay S</i>	
Design and Development of Polarization Agile Sinuous Antenna for Direction Finding Applications	317
<i>N. M. Mary Sindhuja, E. Jerlace Selin, S. Viveka</i>	
Gastric Cancer Histopathology Classification Using Deep Learning Models with Grad-CAM Visualization	323
<i>Tripty Singh, Anantha Hothri Inuguri, Dorai Sai Charan Madisetty, Prakash Duraisamy, Afnaan K</i>	
Multi-Modal CNN-Based EEG-EMG Fusion for Upper Limb Gesture Classification in Assistive Robotics	329
<i>S Shubham Achary, Santosh Kumar Sahoo, Anshuman Bharati, Snehasish Barik, Satyabhama Dash</i>	
Optimized Control of Grid Interactive Multi-Zone HVAC Systems Using Model Predictive and RL Techniques	335
<i>Ananya M. S., R Deepika, Haya Mariya C. G., Surekha Paneerselvam</i>	
An Adaptive QoS-Aware Hybrid Meta-Heuristic Framework for Task Scheduling and Resource Allocation in Heterogeneous Cloud Computing	342
<i>Manoranjan Sahoo, Raj Vikram, Sanchita Mohanty, Yusuf Jibrin, Rahul Priyadarshi, Diptipriya Sinha</i>	
A Comparative Analysis of CodeBERT, LSTM, and GRU Deep Learning Models for Vulnerability Detection in C/C++	349
<i>Atharva Badgujar, Om Bharambe, Supritha Anchan, Prathmesh N. Gunjgur, Bhavana A. Alte</i>	
<i>Vivek P. Khalane</i>	
A comprehensive deep-learning method for the Multi-level Diabetic Retinopathy-classification with Clinical Interpretation using Grad-CAM	355
<i>Tripty Singh, Chebrolu Sai Kumar, Narahari Sai Jaswanth, Payel Patra, Prakash Duraisamy</i>	
<i>Rishabh Kumar</i>	
Bio-Inspired BESH0 Algorithm: A Hybrid Bat Echolocation and Slime Mold Optimization Strategy for Sustainable AIoT	361
<i>Latha J, Sathiamoorthy J, S.Karthick Murugan</i>	
Real Time Bus Tracking and Smart Seat Availability System with Route Visualization and Estimated Time of Arrival Prediction	367
<i>Rajan S, Kumaraguru M, Kavya K, Mohamed Haris Khan G, Sabareesh S</i>	

Evaluation of Federated Learning based Heart Disease Diagnostic Framework by Addressing Class Imbalance	374
<i>Rupesh Nomula, Madhu Bala Myneni</i>	
From Cloud Evidence to Inference: The Unified Cloud Forensics Ontology(UCFO)	380
<i>Payal Saluja, Madhuri Bhavsar</i>	
AutoRxAnnotator: A Multimodal Deep Learning Framework for Automated Annotation and Labeling of Handwritten and Digital Medical Prescriptions	386
<i>Ajit Kumar Samal, N. Toyaad Kumar Reddy, Brojo Kishore Mishra</i>	
Comparative Assessment of Aquatic Ecosystem Quality with Traditional Methods and Advanced Learning Algorithms Using Satellite Images	392
<i>Dhruvin Kotak, Lata Gohil, Jaiprakash Verma</i>	
Advancing Image Generation: Integrating Transformer-Based Latent Diffusion With Semantic Clip Embeddings	398
<i>Suthir Sriram, Karthikeyan, Nivethitha V</i>	
IoT Based Smart Wheelchair with Voice Control and SoS Button	404
<i>Deepanjana Saha, Tiasha Santara, Sayantika Roy, Prasun Chowdhury, Arpan Ghosh</i>	
Leveraging Transformer Models for Authorship Attribution in Low-Resource Languages: A Case Study on Odia	409
<i>Hari Krishna Sahu, Swarupananda Bissoyi, Santosh Kumar Das</i>	
AI Powered Personalised Stylist Recommendations	415
<i>Punitha K, Ramyabharathi R, Deepesh R, Dinesh S</i>	
Smart Room Automation System	421
<i>Siddhartha Srivastava, V Arvind, Rajarshi Mukhopadhyay, Priya B K</i>	
Testing of Large Language Model in Indian Legal Datasets: A Comparative Semantic Study	429
<i>Jigar Kumar, Divyansh Singh, Gunjan Aggarwal, Swati Singal</i>	
"AiKrishi - Crop disease detection"	435
<i>Ashish Lokapure, Bhushan Sukate, Vaidehi Utane, Shailesh Kendre, Ramesh Patole, Dhananjay Bhagat</i>	
Intelligent Fire Prediction and Detection Management Using Real-Time Grad-CAM Analysis	441
<i>Mahmoud Y. Shams, Mohamed Wasef, Amal Yasser, Roheet Bhatnagar, Esraa Hassan</i>	
RDSwinBTC: Radiomics-Guided Swin Transformer for Brain Tumor MRI Classification	447
<i>Sireesha Kakulla, Satish Kedari, Rajeswari Kavali, K Kishore Kumar, A Radhika, Kota Venkateswara Rao</i>	
Enhancing Cognitive Load Assessment Using AI Models	453
<i>Chethana B, K Aditya Shastry, Harini N, Ramya S</i>	
Securing Containerised Applications Using Kubernetes-Based Orchestration in Software Development	459
<i>Henry P Cyril, Nilesch Dnyaneshwar Bhandarwar, Shiva Kumara, Sumeet Mathur</i>	
Automatic Vehicle Accident Detection and Classification from Images Using YOLOv8	465
<i>Evita Bhowmik, Prakhar Bhardwaj, Asif Uddin Khan, Dayal Kumar Behera, Kumar Surjeet Chaudhury Binayak Kar</i>	

AI Enhanced Code Fault Detection and Automated Fixing	471
<i>V Arun Antony, T.A.Karthikeyen, N.Kannan, S.Gowtham, V. Jai Akash, R.Kamalica</i>	
YOLO-based Pipeline for Real-Time Classification of Tinted and Non-Tinted Vehicle Glass from UAV Video Streams on Edge AI Devices	477
<i>Umang B. Gajjar, Ruchi Gajjar</i>	
Diagnostic Assistance for Cardiac Arrhythmias from ECG Data using Hybrid CNN–LSTM Model	483
<i>Afnaan K, C. Tejesh, B. Sai Vivek, Tripty Singh</i>	
Presymptomatic ALS Detection using Multimodal Machine Learning: A Review	489
<i>Snehalata Rout, Purna Chandra Sethi</i>	
Insider Threat Detection System with Federated Learning and Differential Privacy	496
<i>J Jeo Godson Samuel, V Balasubramaniya, G Gautam Kumar, R. Geetha, R. Shobana</i>	
ECG-Based Arrhythmia Classification using Few-Shot Learning with Continuous Wavelet Transform	502
<i>Priyanka Gupta, Vijay Kumar</i>	
Pest Detection System Using Deep Learning and Computer Vision	508
<i>N. Ramadevi, P. Radhika, C.H. Padmavathi, M. Sravani, S. Ashifa, D. Kaveri</i>	
A Deep Learning–Enabled Computer Vision System for Real-Time Tomato Spider Mite Detection	515
<i>Gagandeep Kaur, Manjeet Kour, Rohini Sharma, Meenakshi Rana, Mohit Singh Bisht, Dinesh Singh Dhakar</i>	
AI-Powered Early Diagnosis of Rheumatoid and Osteoarthritis using Multi-Model Medical Data	521
<i>Nikita Soren, Sunethri K, Uthra S N</i>	
A Multi-Modal Biometric Authentication Framework Integrating Voice and Face Recognition	527
<i>Bindiya M K, Asiya Anjum S, Aashish S Anderson</i>	
InceptionV3-Driven Deep Learning Framework for Medicinal Plant Leaf Identification	533
<i>Parul Nasra, Neha Sharma, Jayapal Lande, Ashwani Kharola, Ritika Badhani, Aryan Gupta</i>	
A Federated Learning Approach to Lightweight Intrusion Detection in Edge Networks	538
<i>Sonakshi Srivastava, Ananya Rajaraman, Praveen Kumar S</i>	
Random Forest–Based LR-DDoS Detection in Cloud: Enhanced Preprocessing and Comparative Evaluation	545
<i>Ujjawal Rajput, Upamanyu Roy, Sahil Roy Chowdhury, Vibhav Agarwal, Asif Uddin Khan Dayal Kumar Behera</i>	
Patch-Based EfficientNet–BiLSTM Framework for Ternary Pneumonia Classification from Paediatric Chest X-Rays	552
<i>Atharva Tembhurnikar, Sharvari Deshmukh, Preeti S. Voditel, Vedansh Gupta</i>	
Federated Deep Learning for Pneumonia Diagnosis from Distributed Non-IID Clinical Imaging Data	557
<i>Sanjana S, M S Bhargavi</i>	
Decryption at the Edge: eBPF-Assisted TLS Insight for Enhanced DPI	563
<i>Puran Chand, Jyoti Grover, Meenakshi Tripathi, Krutidipta Samal, Amit Yadav</i>	

An Explainable Deep Learning Framework for Multistage Diabetic Retinopathy Detection: A Comparative Study of EfficientNet-B7 and the Proposed DR-AttnNet (EfficientNet-B5 with CBAM) Using Grad-CAM and Grad-CAM++	570
<i>Dharshini A, Jeyachidra J</i>	
Real-Time Gastrointestinal Polyp Detection and Clinical Reasoning Using YOLO11m and Dual LLM Agents	577
<i>Sambit Patnaik, Sangram Kishore Mohanty, Smita Rani Parija, K.P.Swain</i>	
NeuroFusion: Intelligent MRI Modality Imputation and Cross-Modal Learning for Accurate Brain Tumor Diagnosis	584
<i>Mohanapriya K, Kotteeswari C, Nithya D, Abinaya S, Booja N, Gokula Krishnan R</i>	
Detection and Mitigation of DDoS Attacks in SDN Using DNN Approach	590
<i>Samantha S, Akshaya Shree C, Ishwarya R, Gowthami N, Tamilselvi S</i>	
Quantum-Inspired Hybrid Tamper Detection System for Secure Data Vaults in Offline Environments	596
<i>Prerna J, Puchha Bhavya, Ranjni U. A</i>	
AR-CITIZEN: AI-Powered AR Civic Engagement Platform	602
<i>Abhijeeth Pandey, Aavesh Khan, Sonia Jenifer Rayen</i>	
Brain Tumor Detection Through Medical Imaging Using State-of-the-art Advanced Deep Learning Techniques	608
<i>Saiswini Roy, Rashmirekha Jena, Padmini Nayak, Parimal Kumar Giri, Rashmi Rani Patro</i> <i>Priti Priyadarsani Pradhan</i>	
Robust Named Entity Recognition of Low-Resource Odia Language: An Experimental Comparison of Machine Learning and Deep Learning Models	614
<i>Jnanendra Satapathy, Mohapatra Girashree Sahu, Tusarkanta Dalai, Chiranjibi Behera</i>	
AI-Driven Hybrid Recurrent Neural Networks for Advanced E-Commerce Intrusion Detection	619
<i>Sabina A Nair, Yogesh Jaiswal Chamariya, V. Manoranjithem, Odaiah Rachapally, Sunil Kumar</i> <i>Ramkumar Vahalingam</i>	
Smart Water Governance: An IoT-Based System for Automated Distribution, Leakage Detection and Usage Transparency	625
<i>P A Mathina, K Valarmathi, B Mohan, G Jayahari Prabhu, S P Santhoshkumar, Muthyala V V S Chowdary</i>	
Real-Time Fall Detection Using Pose Estimation and Support Vector Machine for Elderly Homes	631
<i>Mishel Thomas Sony, Nirmal Varghese Babu, J. S. Rajkumar</i>	
Real-Time GPU-Accelerated AES Encryption for High-Resolution Video Streams using OpenCL	637
<i>Varshini V Poojary, Govardhan Hegde K</i>	
An SOS Women Safety Device: Automatic Emergency Alerts and Geo-location Sharing with GSM/GPS Integration	643
<i>Sudharani Potturi, Sailaja Thota, Pranav Kandukuru, Karanam Uday Kiran, T.V.N.S. Guru Srikar</i> <i>Harsha Vardhan Sai</i>	
Hardware IP Protection Using Selective Constant Obfuscation: An 8-Bit Adder Study	649
<i>Vumanthala Sagar Reddy, Mothe Shivaramakrishna, K Sangeetha, Ranjan K Senapati</i>	

Design and Simulation of an RF enabled MIMO Ankh-Key Antenna Array for 5G and Ka band Applications	654
<i>Kandala Kalyana Srinivas, Mohammed Roshan, Boyapati Harshith Ram, Shivam Kumar Maurya</i>	
A Hybrid Isolation Forest and Deep Learning Model for Anomaly Detection in Financial Transactions	660
<i>Utkarsh Anand, Raj Karan Singh, Yashi Singh, Avinash Kumar Sharma</i>	
Comparative Analysis of Deep Learning Models for Breast Cancer Histopathological Image Classification	667
<i>Sanjana Rout, Priyanka Nayak, Prachi Anand, Prasant Kumar Dash</i>	
Sysmon-Assisted Honeypot Framework for Real-Time File Activity Monitoring and Behavioral Detection	672
<i>S. Ramamoorthi, B. Vinesh Chowdary, Avula Jyoshna, Mohamed Sithik M, Priya S, Mohammed Uveise S A</i>	
Latency-Optimized Osmotic Offloading for Smart Agriculture Using Whale Optimization	678
<i>Tripti Bhagat, Priyanshu Ojha, Reet Agarwal, Benazir Neha</i>	
Transfer Learning Driven Multi-Class Weather Recognition Using Deep Residual Networks	683
<i>Sonal Malhotra, Nagendar Yamsani, Sudhir Joshi, Neha Sharma, Parul Nasra, Rupesh Gupta</i>	
Robust Active Noise Control Using Nonlinear Error Compression: A Logarithmic-Hyperbolic Approach	688
<i>K. Anil Kumar, M.V.R. Vittal</i>	
GAN-Based Deep Learning Model for Cyberbullying Image Detection	695
<i>Loshini S, Lithika S, Karthika N, R. Geetha, Belshia Jebamalar</i>	
A Speech Clarity and Object Detection Based Interactive Learning System for Early Childhood Education Using YOLOv8	701
<i>R S Latha, G R Sreekanth, K S Kalaivani, M Harshini, N Ajaykumar, M Hari Sri Uvan</i>	
Enhancing Public Administration Security through Blockchain and Intelligent Routing	707
<i>P. Anitha Rajakumari, Naveen B, Hariharan P K</i>	
Evolutionary Osmotic Migration for Real-Time Urban Traffic Control: Balancing Delays and Power in Multi-Tier Networks	712
<i>Rishit Kamboj, Ayush Goyal, Ritesh Ranjan, Benazir Neha</i>	
Technology-Mediated Auditing: Impact on Internal Control Frameworks and Corporate Performance	718
<i>Deepit Sapru</i>	
Early Detection of Lung Cancer Using Clinical Data and Machine Learning Methods	724
<i>Bishal Jaysawal, Rahul Raj Sah, Mahamad Sahjad Dewan, Ujjwal Kumar, Aman Kumar, Smita Rani Parija</i>	
Deep Learning-Driven Adverse Drug Reaction Surveillance Using Online Health Data	730
<i>M. Umamaheswari, P. Ranjana</i>	
Smart Baby Monitoring Cradle with Cry Recognition and Auto-Rocking	736
<i>Jean Jackson, Nirmal Varghese Babu P B, J. S. Rajkumar</i>	
A Comparative Analysis of Chaotic and Stochastic Compressive Sensing Matrices for MFCC-Driven Audio Classification	740
<i>Shyam Tripathi, Kritika Agrahari, K. Ashwini</i>	

Efficient Deep Learning Framework for Automated Potato Leaf Disease Detection	746
<i>Gaurav Tuteja, Bura Vijay Kumar, Arushi Vaish, Preeti Badhani, Garima Jaitly, Aryan Gupta</i>	
Benchmarking Link Prediction in Complex Networks: A Leakage-Aware Evaluation Protocol and Practical Selection Guide	753
<i>Gowthami Vusirikayala, Madhu Viswanatham V</i>	
A Comparison of Deep Learning and Machine Learning Models for Toddler Autism Spectrum Disorder Screening	759
<i>Dipak Mishra, Rakesh Ranjan Kumar, Subhadra Mishra</i>	
EfficientNetV2L-Based Transfer Learning Framework for Detecting AI-Generated Synthetic Images Using the CIFAKE Dataset	765
<i>Parul Nasra, Neha Sharma, Jayapal Lande, Ashwani Kharola, Ritika Badhani, Aryan Gupta</i>	
Cyberattack Identification in Smart EV Charging Systems Using Remaining Useful Life-Guided Autoencoder - LSTM Networks	770
<i>Rathika S, Charles Raja S, Nelson Jayakumar D, Ashok Kumar L</i>	
Real-time Anomaly Detection in IoT Sensor Data using Federated Learning on the Edge and Cloud	776
<i>D. Sheema, Taufiq Ahamed M. J, Tharun Bala N. B</i>	
Transfer Learning-Based CNN Models for Colorectal Cancer Histopathology Classification	782
<i>Tripty Singh, Ganganapalli Naveen, Vakati Kushal, Afnaan K</i>	
Design and Development of 1x4 Router Using Verilog for Multiprocessor Task Scheduling	788
<i>V.S. Prasanth, U. Harsha Vardhan, D. Jyothi Swaroop, B. Kamanth Roy, Parveen Akhther.A</i>	
Biofunctional Litopenaeus Vannamei Chitosan Nanoparticles: Spectroscopic Characterization and Predictive Antibacterial Analysis Using Machine Learning	794
<i>Divya Vijayakumar, Palaniappan Seedeve</i>	
A Learnable and Generalized Few-Shot Semantic Segmentation Framework with Prototype Fusion for Remote Sensing Images	800
<i>Srilakshmi H, S. Eliza Femi Sherley, Nivetha T, Abarna B</i>	
Decoding Phishing Attacks: Technical Insights, Trend Dynamics, and Sentiment Perspectives	806
<i>Keerthana Menon, Sreeraag G</i>	
AI-Driven Edge Computing Model for Automated Real-Time English Pronunciation Assessment in Smart Education Systems	813
<i>Arpita Bhudev Mishra, Piyush Charan, Saumya Sharda, Asha Bala, C. Nandhini Devi Rajashekher Koyyeda</i>	
ADSS: Adaptive Decision Support System for Retail Recommendation with Reinforcement Learning	819
<i>Bijayini Mohanty, Sushanta Meher, Rakesh Das, Soubhagya Ranjan Mishra, Abhisek Maharana Sneha Behera</i>	
An Integrated Transformer Architecture for Automated Detection of Toxic Language and Sentiment in Online Comments	825
<i>T. Sreeshanth, M. Gangappa</i>	
Comprehensive Survey on Federated Learning for Privacy Preserving	831
<i>Mandira Basak, Sahim Khan, Rupa Saha, Anushree Paul, Sudakshina Mandal, Subhasree Bhattacharjee</i>	

EWT-DCM: A Lightweight, Energy-Conscious Model for Real-Time Cardiac Anomaly Forecasting on Edge Devices	837
<i>Radhika Meegada, Mulaka Madhava Reddy, Madduluri Suneetha, Nagurla Mahender</i>	
Predicting Remaining Useful Life of Batteries Using Machine Learning	843
<i>Sushil Kumar, Selvakumar K, Dhanalakshmi B</i>	
A Multivariate ARIMA-Driven Analytical Framework for Structural Inflation Forecasting in the United States: Integrating Macro-Financial Indicators to Enhance Predictive Stability	849
<i>Venkat Vishwanath, Vishnupriya P, S. Aiswarya</i>	
AI Assisted Toll Revenue Forecasting and Reconciliation using Flower Pollination Optimized DI Model	855
<i>Venkateswarlu Mullangi</i>	
Design and Implement Smart Fuel Card Using RFID	861
<i>Manaswinee Madhumita Panda, Jagyanseni Panda, SubhaRanjan Das, PriyattamaMoharana Chandra Sekhar Mishra, Bijayalaxmi Panda</i>	
Artificial Intelligence-based and Explainable AI-driven Loan Approval Prediction System	865
<i>Pratheek Kachinthaya, K. Aditya Shastry, Manoj B K, Karthik N</i>	
Design and Implementation of High-Speed UART Communication System	871
<i>M. Sumathi, P. Kavipriya, G. Rajalakshmi, T. Thaj Mary Delsy</i>	
Brain Tumor Classification using Hybrid QCNN with ResNet	877
<i>S Karthik, Suma Dasari, Akhila Sree Menda, Venkata Rami Reddy Chirra, Sapthagiri Miriyala, M Mrudula</i>	
A Hybrid Machine Learning Approach for Detecting Traffic Anomalies in Large-Scale Telecom Networks	883
<i>Henry P Cyril</i>	
Comparative Study of Traditional Deep Learning and Matrix-Based Feature Extraction Methods for CIFAR-10 Image Classification	889
<i>Satyam Raj, Vishal Gupta, Kumar Surjeet Chaudhury, Basanta Kumar Padhi, Arpita Nibedita</i>	
Hybrid CNN-SVM Framework for Accurate Early Skin Cancer Classification in Smart Healthcare Platforms	895
<i>Venkata Kiran Kumar Ravi, B. Varalakshmi, Venkata Satya Praveen Rani, Saritha Kottu, Srinivasan P K. Lakshmi</i>	
DynaGraph-FL: Dynamic Federated Graph Learning with Privacy, Robustness, and Drift Handling	901
<i>Sathishkumar B, Abinaya M.</i>	
SAM-Guided Local-Global Feature Fusion for Pan-Cancer Nuclei Segmentation	908
<i>Aditya Vijay Shinde, C. K. Mohan, Ishu Priya</i>	
IoT-Enabled Smart Agriculture for Automated Irrigation and Equipment Rental	915
<i>Rajeshwari G L, Harshitha B, Keerthana Gowda C M, Ganavi S K, Suhas S</i>	
Towards Trustworthy Digital Identity: Designing a Privacy-Enhancing Self-Sovereign Identity Framework	921
<i>Pushkar Dangwal, Sumit Yadav, Shikhar Singh, Gunjan Aggarwal</i>	
Leveraging Wireless Sensor Nodes for Efficient & early flood Prediction	927
<i>Jailsingh Bhokya, Bhaskar Gugulothu, Abhinav Raj V, Adhyuth Narayan, Adwayith K S, Agnel M S</i>	

An Explainable AI Pipeline for Lung CT Analysis: Segmentation, Uncertainty Quantification, and Automated Vision–Language Reporting	933
<i>Tripty Singh, Gadi Joshith, Anusha C Reddy, Afnaan K</i>	
A Hadoop-Enabled Framework for Detecting Crop Yield Anomalies and Optimizing Irrigation in Smart Agriculture	939
<i>Rishuvan Selvakumaran, Kanishka Anantha Narayanan, Rakshan Dass, P.Malin Bruntha</i>	
An Integrated Multi-Sensor Framework for Autonomous Mobile Robot Navigation Using TEB-CA and Adaptive Locomotion	947
<i>Anil Kumar B, Polipalli Vedhakshari, Pondara Dileep Kumar, Putta Reshma, Nazokat Tukhtaeva Lakshmi Devi N</i>	
BERT-Based Nbias and MultiTaskBias Frameworks for Detecting Bias, Hate Speech, and Toxicity in Online Text	953
<i>Shyam Tripathi, Kritika Agrahari, J Umamageswaran, Mahboob Alam</i>	
Optimized Hybrid Deep Learning Framework for Early Detection of Breast Cancer Using Image Processing Techniques	959
<i>Pralohith Reddy Chinthalapelly, Prabhu Krishnaswamy, Prabhu Muthusamy, Kalyan Kondisetty Sandeep C S, MM. Poornima</i>	
Hierarchical Vision Transformer Architecture for Automated Pneumonia Detection in Chest X-Ray Imaging: A Comparative Study with Convolutional Neural Network	966
<i>Manas Singh, Kumar Surjeet Chaudhury</i>	
Seismic Activity Prediction using Machine Learning Algorithms	973
<i>Mukesh Kumar, Usha C R, Yuvraj Singh, Swapnil Sinha, Jyotishko Boral, Riti Tripathi</i>	
Guardrailed Uplift Targeting: A Causal Optimization Playbook for Marketing Strategy	979
<i>Deepit Sapru</i>	
Smart Surveillance System Using Deep Learning For Detection Of Missing Persons, Criminals, And Violent Activities	985
<i>R. Palanikumar, N. Kaliraja, G. Karthick Murugesan, K. Karthik</i>	
An Explainable Federated Learning–Based Intrusion Detection Framework for Zero-Day Cybersecurity Threats in SDN	991
<i>Mohamed Sithik M, Nikesh S, Mohammed Ziyahid S.A, Ramamoorthi S, Priya S, Mohammed Uveise S A</i>	
3D Object Reconstruction from Multi-View 2D Imagery: Implementation and Evaluation of an Attention-Fused Encoder-Decoder Voxel Network	997
<i>Aaling Jileef Babu, Chinmayi Ajay Rajani S, Dharaneesh Kumar, Venkata Rami Reddy Chirra</i>	
An Automated CNN-Based Model for Leukaemia Diagnosis from Blood Cell Images	1001
<i>Gaurav Tuteja, Kanegonda Ravi Chythanya, Neha Sharma, Preeti Badhani, Garima Jaitly, Aryan Gupta</i>	
Multi-Task EfficientNet-B3 With Dynamic Loss Balancing for Retinal Disease Detection and Explainability	1006
<i>Vijayalakshmi B, Shreyas Sangalad, Varun S, Sharan V. Neelgal, Srujan H. S</i>	
AI-Powered Multimodal Video Content Classification System for Genre, Censor Rating, and Type Detection	1012
<i>G. Shanmugapriya, Mayandi A</i>	

A Hybrid and Adaptive Deep Learning Framework for Robust Image Classification Across Diverse Domains	1020
<i>Pratik Singh, Vigyat Singh, Nishita Kindo, Gananatha Bhuyan</i>	
Hybrid CNN-Transformer based Deepfake Detection with Blockchain and Secure Multi Party Computation	1026
<i>Ananth G, Manoj T, Ram Prakash M, K Indira, Raja Lavanya</i>	
Quaternion Convolutional Neural Networks: Enhancing Color Image Classification through Inter-Channel Relationships	1032
<i>Ambika Sharma, Ajit Kumar</i>	
Intelligent Hybrid 6G Communication Framework with Cloud-Based Intrusion Detection and Privacy Preservation	1037
<i>Manthan S. Manavadaria, S.V. Sugin, Manya Gupta, Dineshkumar P, Shilpa Abhang, Sunil Kumar</i>	
A Decentralized Healthcare Records Management System built with Solidity Smart Contracts and React	1043
<i>Pooja Singh, Vipin Kumar Kushwaha, Shiva Gupta, B. Sharan, Murari Kumar Singh</i>	
A Deep Learning–Based Transformer Framework for Binary Mental Health Sentiment Analysis to Support Government Policy Decision-Making	1049
<i>Subhasis Mohapatra, Sudhir Kumar Mohapatra, Sweta Samantaray</i>	
Hybrid Deep Learning and Active Contour Framework for Uncertainty-Guided Brain Tumor Segmentation	1054
<i>Tripty Singh, Ishita Jonnalagadda, Ch. Hari Sankar, Payel Patra, Prakash Duraisamy</i>	
Real-Time Cyber Threat Intelligence Detection and Response Using Federated Machine Learning for Threat Classification	1060
<i>Darshan Prajapati, Punitha.K, Dhayabaran M, Ramyabharathi R</i>	
Energy-Aware Transformer-Enabled AI MIMO Antenna Architectures for 5G/6G Beamforming	1067
<i>Jagan Mohan Rao Saride, V L N Phani Ponnappalli, Giriraj Kumar Prajapati, R.Swaminathan R Saravanakumar, P.Sathiyamurthi</i>	
LSTM-GNN Hybrid Approach for Strengthening Authentication in Online Banking and E-Commerce	1073
<i>Jyothi G, Natalia Savina, Irina Kuznetsova, Katuru Jaswanth, S. Ragamayi, Naveen Nandal</i>	
A Deep Learning Framework for Anti-Surveillance: A Novel Custom CNN and Comparative Model Analysis	1079
<i>Roshan Laharwani, V C Premchand Yadav, Edapalapati Harsha Vardhan, Venkata Rami Reddy Chirra</i>	
A Deep Learning Model for Bean Leaf Lesion Classification Based on EfficientNetV2-S	1085
<i>Gaurav Tuteja, Bura Vijay Kumar, Neha Sharma, Preeti Badhani, Garima Jaitly, Aryan Gupta</i>	
Artificial Intelligence-Based Multi-Disease Detection System Using Ensemble Learning Techniques	1090
<i>Rakshith D N, K. Aditya Shastry, Rohit Naik, Sai Kumar C</i>	
Efficient Error Control Coding using A Novel SPDEC Scheme with Soft-Decision Decoding	1096
<i>M M Raghavendra, Suman Turpati, T.Syed Akheel, A Swetha, M.V Sruthi, K Siva Praveen Kumar</i>	
Building ReflexionGraph: A Practical AI System for Streamlined Legal Strategy in Indian Courts	1101
<i>Vedansh Gupta, Preeti S. Voditel, Sharvari Deshmukh, Atharva Tembhurnikar, Chithraja Rajan</i>	

Interpretable DNA Sequence-Based Disease Classification via Caduceus Transformer and SeqGAN Augmentation	1106
<i>Hani M, Chandrashekhar N Divate, Disha K, Divyanshu Chauhan, M S Bhargavi</i>	
Iterative Cross-LLM Agent Framework for Personalized Resume Optimization	1113
<i>B. U. Anu Barathi, R. Bhuvanesh, K. S. Dakshinaa</i>	
Enhancing Healthcare Systems Security Using Microservices and Zero Trust	1119
<i>Makaire Njie, Viktoria M. Korzhuk</i>	
Education Methodologies(Pedagogy) and Child Development Programs for Individuals with Down Syndrome	1125
<i>Sushil Kumar, Selvakumar K, Mamata Das</i>	
Multi-Modal Explainable Deep Learning Architecture for Early Detection of Oral Cancer	1131
<i>Deepak Varma B, Hema N L, Sangeetha K</i>	
Emerging Challenges in Cloud Computing: Addressing Security and Management Concerns	1137
<i>Chhabirani Mahapatra, Bibhu Kalyan Mishra, Prasant Kumar Dash, Manas Ranjan Samantaray</i>	
KEHGNN-FD Optimization: Scalable Fake News Detection with GraphSAGE and Embedding Precomputation	1142
<i>Anish Kumar Barik, Anagh Das, Anwesha Roy, Shreyansh Swain, Shubham Sekhar Soren, Asif Uddin Khan Soumya Ranjan Nayak</i>	
Hybrid ANN Optimization of BiFeO ₃ Photovoltaic Performance in IoT-Based Solar Energy Systems	1149
<i>P. Nagasekhara Reddy, Nitin Dattatray Nikam, P. Lakshmi Prabha, D. Sriram, Raj Kumar Gupta Umamakeswari S</i>	
Domain Transformation Methods for MRI to PET Image Synthesis	1156
<i>Tripty Singh, S Rossan, Aaron Xavier, Afnaan K, Prakash Duraisamy, Rishabh Kumar</i>	
Influence of Codon Usage Bias and Gene Compositional Features on Frameshift Tolerance	1162
<i>Pinju Saikia, Siddhartha Sankar Satapathy</i>	
Cassava Disease Recognition Using Transfer Learning With An Optimized DenseNet121	1168
<i>Gaurav Tuteja, Bura Vijay Kumar, Neha Sharma, Preeti Badhani, Garima Jaitly, Aryan Gupta</i>	
LAPo: A Load-Aware and Priority-Based Offloading Strategy for Latency-Critical Applications in Vehicular Fog Computing	1174
<i>Md Altab Uddin Molla, Asif Uddin Khan, Binayak Kar</i>	
Hybrid Attention and Transformer-Driven Deep Networks for Robust Lung Nodule Segmentation in Low-Dose CT	1180
<i>Tripty Singh, Nitin Sagar, Nithesh Nair PS, Payel Patra</i>	
Predicting Startup Success: A Machine Learning Framework Integrating Technology, Founder Psychology, Mentorship, and Sustainability	1186
<i>Debani Prasad Mishra, Abhijeet Raj, Subham Mohanty, Rohnit Guru, Rohan Jha, Dibya Jyoti Mishra</i>	
Kidney CT-ViT: A Pure Transformer Architecture for Multi-Class Renal Lesion Classification Using CT Images	1192
<i>N.Shilpa, Amar Prakash Rao, Mohammad Farukh Hashmi</i>	

Digitalization of Cultural Heritage Using Deep Learning Approach	1196
<i>Priyanka Chowdhury, Simran Bains, Aniket Singh, Richa Sharma</i>	
Genome-wide Repetitive DNA Profile Workflow for Evolutionary and Disease Insight using ML Algorithms	1202
<i>S Sreenivasa Charyulu, Banothu Ramji, O Nishwanth Patel, K Revathi</i>	
Distortion-Free Reversible Data Hiding in Encrypted Images through Advanced Cipher Logic and Adaptive Thresholding	1207
<i>T.Syed Akheel, A Swetha, M M Raghavendra, M.V Sruthi, Suman Turpati, Pasupula Anil Kumar</i>	
SoulSync: A Cross-Platform AI Web Application for Personalized Mental Health Assistance	1211
<i>Karanam Krishna Bhuvan, K S Sumukha, Apeksh, Abhilash S B, Krishna A N</i>	
A Post-Quantum Cryptographic Framework for Securing DDoS Mitigation in IoT-Driven Networks	1217
<i>Shibhani Shanker, Manogar Ellapan</i>	
Multi-label Deep Learning for Automated Diagnosis of Ocular Diseases using Fundus-DeepNet	1223
<i>Sachin Malviya, Prajeet Sharma</i>	
CXR Vision Models for Chronic Lung Disease Diagnosis: A Comparative Study of Hybrid Mamba and Transformer models for Feature Extraction	1230
<i>Shreeya Mahanty, Rohit Sharma, Gautam Kumar Mahanti, Ganapati Panda</i>	
Multimodal Threat Detection Using Federated Learning in Location Based Services	1236
<i>A Fanny Christa, R Christina, M Kanishka, R. Geetha, S. Gayathri</i>	
An Adaptive Framework with Optimized Machine Learning Models for Real-Time Zero-Day Cyber Threat Detection	1242
<i>Swati Mohanta, Sunil Kumar Mohapatra, Raj Kumar Mohanta, Sneha Tewary, Sudiksha Bharadwaj, Sujata Chakravarty</i>	
Optimizing Threat Detection and Mitigation in Azure Resources with Azure Sentinel	1248
<i>Charanjeet Dadiyala, Rashmi Welekar, Prasanna Tangade, Gaurav Singh, Ayush Jain, Vedant Khuje</i>	
A Hybrid Deep Learning Framework for Intelligent Intrusion Detection in Dynamic Networks	1254
<i>Yusuf Jibrin, Raj Vikram, Rahul Priyadarshi, Manoranjan Sahoo, Santosh Kumar Samarwar</i>	
Transfer Learning-Driven Multi-Class Tea Leaf Disease Detection for Precision Agriculture	1260
<i>Parul Nasra, Neha Sharma, Jayapal Lande, Ashwani Kharola, Ritika Badhani, Aryan Gupta</i>	
High-Precision Flower Species Classification Using Transfer Learning Based ResNet50	1265
<i>Gaurav Tuteja, Bura Vijay Kumar, Himanshu Namdev, Vijay Kumar Patidar, Neha Sharma, Rupesh Gupta</i>	
AI-driven Phishing Detection Utilizing Natural Language Processing Techniques	1271
<i>P VaraPrasada Rao, Vara Thimothi, KVSL Harika</i>	
Using Generative Adversarial Networks for Simulated Phishing Attack Testing	1278
<i>Ashin Murugan, Devraj Vishnu, Sreevani Maddukuri, Hemraj Shobharam Lamkuche</i>	
Dynamic Network Evolution Modeling with Time-Series Structural Features	1284
<i>Anisha Kumari, Rishabh Shukla, Harsh Rastogi, Anubhav Singh, Hrishant Atri, Aryan Jaiswal, Ranjan Kumar Behera</i>	

Effect of Modular Vs Standard LFSR in Novel Homogenous Reversible Logic Based LFSR-APUF	1290
<i>Nishant Bansal, Bhaskar Dutta, Gaganpreet Kaur</i>	
EfficientNetV2-S Based Automated Glaucoma Detection Using Retinal Fundus Images	1296
<i>Bhavna Thakur, Seerat Singla, G Sunil, Sonal Malhotra, Kamlesh Kukreti, Aryan Gupta</i>	
RAG-TLMs for Education: A Comparative Study of Tiny Language Models and Fine-Tuning Approach for Context Aware Student Query Resolution	1302
<i>Abhisekh Padhy, Rajkumari Padhi, N. Toyaad Kumar Reddy, Brojo Kishore Mishra</i>	
Breast Cancer Detection in Histopathology Images using Attention-Based Deep Learning	1308
<i>Tripty Singh, Sasank Reddy, Ginnaram Varun, Afnaan K</i>	
Design and Evaluation of an Emotionally Intelligent Conversational Agent With Long-Term Context Awareness	1314
<i>Jishnu Raghav P, Nikhil G, Lekshmi S Raveendran</i>	
Detection of AQI Anomalies in Indian Cities Utilizing Self-Supervised Learning (SimCLR) and Isolation Forest	1319
<i>Ashwini Raju Agashe, Advait Gadekar, Sharvari Deshmukh, Ayesha Khan, Samiha Khan</i>	
Hybrid Knowledge Graph and Reinforcement Learning Framework for Proactive Plant Disease Monitoring in Smart Agriculture	1325
<i>A. Punitha, M. Malini, Suganya S, Ankit R, C. Karthikeyan, Naveen Nandal</i>	
From TF-IDF to Transformers: A Comparative and Ensemble Approach to Sentiment Classification	1331
<i>Dip Biswas Shanto, Mitali Yadav, Prajwal Panth, Suresh Chandra Satapathy</i>	
IoT–Cloud Integrated LSTM Model for Early Detection and Predictive Diagnosis of Breast Cancer	1337
<i>S.Muthulakshmi, Lakshminarayanan R, Swati Kedar Nadgaundi, Abdyrakman Eshiev, Somasundaram K Muruganantham Ponnusamy</i>	
A Comprehensive Survey on Explainable Graph-Based Models for Disease–Gene Association Prediction	1343
<i>Chalumuru Suresh, Saketh Karumudi, Srikruthi Muthyam, Vishwanth Talluri, Sri Vaishnavi Yadavalli</i>	
Cloud-Enabled Hybrid Random Forest–Support Vector Machine Model for Early Detection and Prevention of Natural Disasters	1350
<i>Usha Kiran Appana, Suresh Kumar K R, Usha Sree R, Mamta Bansal, S. Kaliappan, T. Prem Jacob</i>	
Fault Diagnosis and Optimization of Solar Power Plant Array Using IOT	1356
<i>V. Karthikeyan, K. GopalaKrishnan, Karthik C, Bibhuti Bhusan Dash, Utpal Chandra De Sudhansu Shekhar Patra</i>	
Image-Based System for Forested Area Analysis and Optimal Path Computation	1361
<i>Sunita G. Rawat, Aditya Gaikwad, Kashish Pawar, Tejas Mahakalkar, Vidhi Dhakate</i>	
Skin Cancer Prediction Using Deep Learning And Transfer Learning Techniques	1366
<i>Mukesh Kumar, Riti Tripathi, Asha Latha C. R, Rahul Raj, Bhagyashree Kulkarni, Nandita Yambem</i>	
TwinIt: An AI Digital Twin Platform for IoT prototyping using LLM	1372
<i>Aswin V, Armintha Bobby S.R, Sonia Jenifer Rayen</i>	
A Comparative Study of Multi-focus Image Fusion using TL Algorithms	1378
<i>Jajnyadatta Samantaray, Bikash Meher, Bikramaditya Das, Sanjay Agrawal</i>	

Hadoop & Apache Spark-based Big Data platform for Real-time Bearing Fault Detection and Predictive Maintenance	1383
<i>Anu Vinaya.S, Indhurani. K, Sidhee Vinod, P.Malin Bruntha</i>	
SATOPTNET: Optimal satellite scheduling with the help of TGN in Maritime Defense	1389
<i>V. Saraswathi, Kishor kumar S, Naveen Raja M, Santhosh M</i>	
A 3D Object Scanning Tool using Gaussian Splatting for Real-time Logistic Packaging Optimization	1395
<i>Sailaja Thota, V M Subhash, Pranav Kandukuru, Suhas V M, Siddharth Manur, Sanjana R</i>	
Decentralized Chain-of-Custody System for Forensic Evidence Integrity Using Blockchain	1400
<i>Bharath Singh J, Surya K, Jebarson S, Udhayan V S, Sri Hari K, Vivekrabinson K</i>	
Performance Analysis of CNN Models on Burn Image Classification	1405
<i>Sagar Sunitha Raveendran, Ritu Bhat, Basavaraj Hiremath, Sangeet Bhati, Vibha Naveen Devadiga</i>	
A Secure Image Sharing System Using Hybrid Chaos-Based Encryption	1411
<i>Molika Y, Puli Venkata Sai Yashwanth, P Vishnu Vardhan, Ravi Bhargav, Priyanka Singh</i>	
Graph Neural Network–Fuzzy Logic Hybrid Model for Employee Stress Prediction Using Social and Performance Data	1417
<i>Milindkumar Namdevrao Dandale, Kirti Sahu, Charu Thakur, S. K. Rajesh Kanna, Prem Singh Anvesh Perada</i>	
Deepfake Voice Detection Using WavLM Feature Extraction and XGBoost Classification	1423
<i>Sadha Sivam M, Uma Makeshwari M, Petchiammal T, Ajitha C</i>	
An Explainable AI-Driven Transfer Learning Framework for Early Diagnosis and Interpretation of Colon and Lung Cancer	1429
<i>B K Bandana, Sunil Kumar Mohapatra, Raj Kumar Mohanta, Chimayee Dora, Charchit Gharai Somanath Parida</i>	
Edge-optimized deep learning framework for multispectral textile waste classification and automated robotic sorting	1435
<i>Padmavathy R, Reena R, Subha G, Shylash L</i>	
A Comparative Analysis of Predictive and DRL-Derived Target-Based Energy Management Smart Charging Scheduling for Small EV Fleets	1440
<i>Maya J, Suyampulingam A</i>	