

2026 7th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2026)

Tirunelveli, India

20-22 May 2026

Pages 1–696

IEEE Catalog Number:
ISBN:

CFP26ONG-POD
979-8-3195-2948-0



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:	CFP26ONG-POD
ISBN (Print-On-Demand):	979-8-3195-2948-0
ISBN (Online):	979-8-3195-2947-3

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

Hybrid Satellite–Wi-Fi 8 Architecture for Nationwide High-Speed Broadband Connectivity	1
<i>Aruni Basu, Satyajit Lingras, Pravin P</i>	
Learning-based Traffic Signal Preemption System for Time-Critical Emergency Vehicle Navigation	8
<i>G. Govinda Rajulu, B. Surendar Reddy, J. Teja Ram Sai, S. P. Santhoshkumar</i>	
Integrated Deep Learning Framework for Safety Helmet and Face Mask Detection on Construction Sites using YOLOv11	15
<i>Hariram K, Bagya Lakshmi M, Y. Harold Robinson</i>	
AI-Driven Smart EVM using GAN and Reinforcement Learning	23
<i>Bonthala Venkata Ranga Sai Teja, S Suguna Mallika</i>	
IoT-Enabled Railway Track Fault Detection and Preventive Safety Alert System	32
<i>Senthilkumar N, Prathaanini S, Subashitha P, Vijai S</i>	
Edge-AI based Intelligent Road Monitoring System using YOLOv8 for Real-Time Traffic Analysis and Road Damage Detection	38
<i>M. Durgapoorani, S. Abinaya, J. Joel Jeffrey, P. Leninpugalhanthi</i>	
Polyamide based Flexible Logo Antenna with Excellent Impedance match for Wearable Applications	47
<i>Manikandan Manoharan, Aravinthkumar Veeramanikandan, Gopinath Senthilkumar Jegatheesh Karuppusamy</i>	
IoT based E-Notice Board with Smart Display Activation and Web Integration	54
<i>Manikandan M, Dharshini S, Divya Jenifer A, Cathrine Praba P, Dhivya D</i>	
Performance Analysis of Microstrip slotted square Antenna in Futuristic 5G Wireless Applications	61
<i>M.Kavitha, R. Indhumathi</i>	
IoT-based CO ₂ Filtration System and On-Site Disinfectant Generation for Medical Equipment Cleaning	67
<i>Jamuna P, Ezhilarasi E, Gokula Shankari K S, Bhuvanesh S S</i>	
LoRa-based Wireless Load Monitoring and Control using PZEM Module	74
<i>Prabu M, Suruthi K M, Rithi R, Kowsalya E</i>	
A Robust Hybrid Solar–Wind–Battery based Standalone DC Microgrid for Reliable Off-Grid Power Supply	79
<i>K.Divya, Deshath M, Karthikesan P, Srinath S, Yuvaraj M</i>	
Optimized Gate-Free QCA Logic Gates using 2:1 Multiplexer Architecture for Nanoscale Computing	83
<i>Adilakshmi Grandhi, Rukmini M S S, Amairullah Khan Lodhi</i>	
A Privacy-Preserving Federated Learning Framework for Intrusion Detection	89
<i>Nivedhidha M, Ramkumar M P, Dharani M, Emil Selvan G S R</i>	
A Lightweight Meta-Learning-based Adaptive Clustering Algorithm for Energy-Efficient IoT-Enabled Wireless Sensor Networks	96
<i>Shivleela Mudda, P.Loganathan, Abirami M, R.Dhilip Kumar, L.Sowmya, S.V.Saveeithaa</i>	

Secure Approach using SAIC Model for Adaptive Cloud in Industrial Internet of Things and Industrial Applications	105
<i>Rahul Chiranjeevi. V, Pooshika S, Yuva Kaarthiyaayini S V, Prasanthi V, P. Ezhumalai</i>	
Voice-based Early Parkinson's Disease Prediction using Multi-Modal Wavelet-Deep Learning Fusion	112
<i>Veena B</i>	
A Multi-Layered Service-Oriented Architecture For Data-Driven Housing Society Management	118
<i>Tamizharasi A, Lakshmi Deepika L, DivyaBharathi V, Indhu A</i>	
AF-LIDS:An Adaptive Feature-Aware Lightweight Intrusion Detection System for Efficient Network Security	124
<i>Priya Stalin, Nithya R, Shikha Singh, Angeline M Flashy, Pravin P, Shanker N R</i>	
Freeze-Release: A Transient Supervisory Control Layer for Mixed-Criticality Traffic Under Overload	130
<i>Nurgüneş Yordanov, Bulent Çavuşoğlu</i>	
A Network and Cost-Aware Adaptive Cloud-Edge Computer Vision Framework using Machine Learning for Latency-Critical Applications	138
<i>Sheena P, Monika K, R Mohandas, Kandavel N, J Raj Karkee</i>	
Design and SAR Analysis of a Compact Polyester-based 2×2 Textile MIMO Antenna for Biomedical Applications	147
<i>Ms.S.Leena Gifty, K. Kalai Selvi, M.Vijayaraj</i>	
Software Systems Design-Stage Sustainability Evaluation using Flow-Diagram-based Metrics	153
<i>Nivya Shree P, Gokila S</i>	
Intelligent Water Quality Monitoring using IoT Sensors and Multi-Modal Data Fusion with Edge Analytics for Environmental Protection	159
<i>Reshma R, Asfiya M, Priyadharshini V, Sandhiya N, Ramya N, Jarlitjermila C</i>	
Intelligent LoRa WAN-Enabled Waste Bin Level Detection System for Smart Waste Management and Automated Collection Decisions using IoT Sensors	166
<i>D. Revati, Santhiya L, Sarmila B, Charupritha K, Sonu P, Sindhu S</i>	
A Scalable Cognitive Edge-based Routing Architecture for Next-Generation WSN's	173
<i>Vimal S P., Nideshwaran S, Prasanna Baalaji N N, Pyintamil Phari S</i>	
Temporal Swarm Intelligence Driven Enhancement of LEACH-C for Energy Neutral and Self-Healing Wireless Sensor Networks Enabled by Piezoelectric Energy Harvesting	179
<i>S P Vimal, Harshini R, Mithra K M, Nakshathraa N B</i>	
Digital Twin Integrated Diffusion Graph Neural Network for Smart Respiratory Signal Analysis and Prediction	188
<i>A. Nivetha, Manikandan A, Divyadharshini A, Mithun Bahavath S K</i>	
IoT based Smart Home Surveillance System with ESP32-CAM, PIR Sensor & Telegram App	194
<i>Rishav Kumar, Koushik Ghosh, Sudipta Chatterjee, Payel Khatun, Sayan Mondal, Debaparna Sengupta</i>	
Blockchain-based Smart Contract Frameworks for Secure AI Healthcare Systems: A Systematic Review of Privacy-Preserving Methodologies	202
<i>V. Jothi Prasad, S. Nagendra Prabhu</i>	

An IoT Enabled Smart Farming and Disease Identification using ML with AI Chatbot Support System	209
<i>Mariam Sherin, Monisha T Y, K. Chanthirasekaran</i>	
Real-Time Torque Gap Compensation for Electric Cars On Rough Terrain	216
<i>S. Divya, G. Sudha Ram, V. Ashok, M. Dharun Pandi, S. Tamizharasan</i>	
Robust Multimodal Biometric Fusion System for Smart ATM Authentication: Integrating Fingerprint, Iris, and Liveness Detection	222
<i>K. Karthik Kumar, S. Kishan, Jenifer A, M. Revathi</i>	
Smart Transit: Real-Time Monitoring for Optimized Public Transportation	229
<i>M. Anusia, Y. Harold Robinson, M. Bagya Lakshmi</i>	
Automated Weed-Crop Distinction for Sustainable Farming using Aerial Imagery and YOLO	234
<i>Devansh Patel, Anna Anbumozhi, Kanak Shrivastava, Ayush Singh</i>	
An Explainable Multimodal AI Framework for Early Cyberattack Warning	242
<i>Sasikala M, Akilandeswari J, Mazhaiyaran.M, Mythili.S, Koundika Periyasamy, Parthasarathy.L</i>	
A Trust-Aware Hybrid Intelligence Platform for Explainable Cyber Threat Analysis and Proactive Defence in Next-Generation Internet of Vehicles Infrastructure	249
<i>Bethi Saiteja, Vupulluri Sudha Rani</i>	
AI-Optimized Programmable Metasurface Array for Adaptive Sub-6 GHz/mmWave Smart Grid Communications	256
<i>K Gattaiah, Ashok Kumar Kondra, Suhail Afroz, M Archana, Pavan Kumar Reddy Manellore Ch Bhagyalaxmi</i>	
A Privacy-Preserving Federated Averaging Framework with Homomorphic Encryption and Hybrid Convolutional Transformer for Secure Distributed Utility Data Analytics	263
<i>Pullaiah Chowdary Vutla, Miss. Triveni Yenugu</i>	
OFDMA Resource Scheduling Improvements for WiFi7 - A Review	269
<i>Venkateswaran Narayanan, Anitha Gopalan</i>	
Advanced Machine Learning Models for Identification of Network Intrusion for Enhanced Cybersecurity	277
<i>Vishakha Tomar, Dr.Shashikant Pandey</i>	
Deep Reinforcement Learning-based Link Optimization in MANETs over Time-Varying Fading Channels	284
<i>Khushbu Rai, Dr. Bhawana Pillai, Jitendra Agarwal, Dr. Bhupesh Gour</i>	
Investigating the Robustness of Machine Learning Models Against Data Poisoning in Industrial Control Systems	291
<i>Soumya Ranjan Bej, Kamal Mann, Abhilash Pakalapati, Bhawana Pillai</i>	
HawkCharge: Hybrid Harris Hawk–Deep Reinforcement Learning Optimization for Intelligent Bidirectional EV DC-DC Converter Control	298
<i>Shunmuga Sankari M, S. Gomathi</i>	
GridHarmony: Hybrid Metaheuristic-Driven Secondary Distributed Control for Stable and Optimal Power Sharing in DC Microgrids	306
<i>Kamalkumar T, S. Gomathi</i>	

A Multi-Model AI Consensus Framework for Trusted Data Delivery in Decentralized Blockchain Networks	314
<i>Kanagapriya S K, Lokesh K</i>	
Towards Secure UAV Ecosystems: A GAN-Assisted CNN–BiLSTM Hybrid Deep Learning Framework for 6G Edge Networks	320
<i>Nelson Francis I M, Sophia S</i>	
Deep Intelligent Optimized Privacy Preserving in Internet of Things Cloud System	328
<i>S. Mary Evanchalin, R. Mallika Pandeewari, R. Ravi</i>	
Group Priority Indexing Assisted Power Allocation in MIMO-UFMC Systems	334
<i>Ramachandran Vijayarani, Aishwarya V, Vishnupriyai R, Jenifer Sandier M</i>	
Transformer Augmented Mask R-CNN with Variational Denoising Autoencoder for Robust EEG Signal Reconstruction	340
<i>M.Rama, T Nalini, Arulanantham G</i>	
Right-Sizing Containers: CPU/Memory Requests, Cgroups V2, and Cost-To-Performance Modeling	348
<i>Kaviya Sri.B, K.Mahalakshmi</i>	
A Blockchain-based Framework for CTI Sharing in Healthcare	356
<i>V Vijaya Durga Poodi, SK Nazma</i>	
FinFET based Breath Analyzer for Rapid Detection of Respiratory Infections	365
<i>A. Jansi Rani, I. Vivek Anand, R. Thangameena</i>	
Crypto-Enhanced RPL: An AI-Assisted Intrusion Detection and Lightweight Cryptographic Framework for Securing IoT Networks	379
<i>Gollapudi Mounika, V. Raghavendra Sai, V. Yeshaswini, P. Hemalatha, A. Sai Sharan</i>	
Tunable Graphene-based Four-Element Terahertz MIMO Antenna for 6G Communication Systems	387
<i>K Ramesh Chandra, D Lakshmana Lokesh, B Tulasi Lakshmi, B Harichandana, B Solman Sravan</i>	
A Comprehensive Study and Hybrid Framework for Secure System Authentication	392
<i>Revanth Bokka, Yaswanth Varada, Sandeep Kalyan Pulaparathi, Bhanu Durga Prasad Nomula Sowmya Korada, Siva Prasad Kilari</i>	
An Embedded System Framework for On-Road Vehicle Safety Management and Control	400
<i>Deepak Sakthivel, Shreya Veronica John, Sneha V, Balaji M</i>	
Blockchain based Financial System for Jewel Loan Disbursal and Bond Issuance	406
<i>Sudarsanam, C. Ashokkumar</i>	
Intelligent Parcel Monitoring and Security System for Smart Apartments using IoT and AI Technologies	412
<i>Kanimozhi S, Thanush S, Vishwa S, Sanjai K, Naveenkumar M</i>	
AI-Based Object Detection and Audio Feedback for Visually Challenged	418
<i>Mahalakshmi J, Mohana R, Swathi E, Ramkumar M P, Emil Selvan G S R</i>	
An Efficient YOLOv8 Framework for Real-Time Human, Fire, and Smoke Detection in Surveillance Systems	425
<i>Sri Y.K. Viswanadham, Aluri Pravallika, Batchu Rupa Sree, Bethala Chandhana, Gorikapudi Sukumar</i>	

Machine Learning-based Beam Association for Massive MIMO in Dense Distributed Renewable Energy Networks	431
<i>Hala Adnan Fadel, Ahmed Al-Dulaimi, Maryam K. Hasan</i>	
AI-Driven Wearable System for Predictive Health and Fatigue Analytics	439
<i>S. DilipKumar, Swathi Mirra V S, Vishwa B, Vishwa R</i>	
Artificial Intelligence (AI) Enabled Programmable Logic Controller (PLCs) for Smart Traffic Light management and Energy Optimization	446
<i>A. Manonmani, A.Manivanna Boopathi, Sham Kumar G, Sugantha Kumar M, Ranjith Kumar K</i>	
Smart Gloves for Sign Language Translation and Gesture Bot Control	451
<i>Nagapriya Kamath K, Swathi K</i>	
Experimental Study of Fabricated Dual Band Frequency Selective Surfaces for C and X Band frequency Applications	455
<i>Bhuvaneswari Balachander, M.Sai Prasad, Debora S, M. Maheswar Reddy, Manigandan R</i>	
TCAD Simulation and Analytical Investigation of a Lateral Tunnel FET Biosensor for Biomolecule Detection	460
<i>N. Pathmavathi, I. Vivek Anand, S.Mathu Suthan, M. Manoj Kumar</i>	
AI-Assisted Channel Estimation for 6G Massive MIMO using Hybrid CNN–Transformer Networks	467
<i>Saveetha.T, R.Ramya</i>	
Deep Learning Ensemble Harnessing Optimization: An Intelligent and Adaptive Framework of Intrusion Detection	472
<i>K Thamarai Selvi, V.Arun V. Arun</i>	
Comparative Analysis of Detection and Segmentation Architectures using YOLO Variants and Deep Segmentation Models for Gastrointestinal Polyp Detection and Segmentation	478
<i>Sourav Das Polok, Md Zillur Rahman Saimon, Salil Batra, Pravallika Kondapalli Muhammad Aumlanul Abrar, Gouri Shankar Chakraborty</i>	
IoT-based Wearable Elderly Assistance System with Real-Time Fall Detection and Emergency Alerts using Deep LSTM Prediction Algorithm	486
<i>Mahesh M, Monicka E, Pavithra V, Mahilvarasi M, Priyadharshini S, Rathika S</i>	
Real-Time Wildfire Detection and Alert System using Satellite-Aided IoT Networks and Convolutional Neural Networks	492
<i>Saravanakumar K, Dharani M, Baby Sharmila S, Christy A, Monisha V, Gowri R</i>	
STM32-based IoT Soil Moisture Monitoring System with Deep Learning–Powered Predictive Irrigation Control using CNN-LSTM	498
<i>Mohana K, Ashya K, Savitha B, Thenmozhi D, Prema R, Tamizharasi M</i>	
Edge-AI Security Architecture for Real-Time Threat Prediction in Distributed IoT Networks	504
<i>Hemalatha R, Abisha R, Anjutha V, Dhanalakshmi E, Kaviya E, Megala E</i>	
Autonomous Robot Navigation in Warehouses Leveraging LIDAR IoT Communication and Edge AI for Real-Time Adaptive Path Planning and Efficient Intelligent Motion Control	510
<i>Bharathi P, Abinaya M, Abitha P, Akila A, Archana V, Karthika V</i>	
Energy Efficient VLSI Architecture for ECG Arrhythmia Detection	516
<i>B.V.V. Satyanarayana, G. Lakshman Murthy, Ch. Vinayak, B. Charan Kumar, Ch. Venkata Sai Kumar</i>	

A Multimodal Emotion-Aware AI Chatbot using SER and RAG-based LLMs for Real-Time Mental Health Support	524
<i>S. P. Chokkalingam, M. Ganesh</i>	
An AI-Driven Predictive Maintenance and Emission Intelligence Framework for Smart Vehicle Health Management	531
<i>Dhanya Girish, Sri Deiva Prasanna V</i>	
Satellite-Enhanced Deep Learning for Agricultural and Hydrological Drought Forecasting in Data-Scarce Indian Regions	537
<i>Kanishka Duary, Jigyasha Rajgarhia, Viji D.</i>	
A Comparative Study of Machine Learning-based Intrusion Detection Approaches for Securing IoT Networks	545
<i>Jagdeep Singh, Harjit Singh</i>	
Edge-Enabled Smart Parking Management System using Deep Learning Image Recognition and Vehicle Detection Algorithms	552
<i>Jansi Sophia Mary C, Arunadevi K, Bhuvaneshwari S, Arinisha S, Jayachitra K, Jayasri S</i>	
An IoT based Voice-Activated Wheelchair for Healthcare and Mobility Assistance	558
<i>Sivasangari Ayyappan, Devaraju Thangellamudi, Sudha Rajesh, C.A.Subasini, Kiran, Jami Venkata Suman</i>	
FPGA Implementation of NLMS Adaptive Filter using Shift based Division	564
<i>A M V Pathi, V Santosh Kumar, R Jnaneswari, P Leela Krishna, P Swamulu</i>	
Optimized FPGA Architecture for DCT-based Harmonic Wavelet Transform with Reduced Latency and Power	570
<i>A M V Pathi, M Sai Mukhesh, M Utkarsh Nandan, M Dileep Kumar, K M V S Subrahmanyam</i>	
Design of Adaptive Multi-Band Frequency Reconfigurable Antenna for Next Generation Wireless Networks	575
<i>B. Bharathi Devi, N. Lahari, M. Gayathri Sri, M. G. H. S. Phaneesh, N. Saathvik</i>	
EcoNetML: Multi-Objective Machine Learning Framework for Energy-Aware IoT Sensor Networks	584
<i>K.Malarkodi, G.Sheeba, Ashok Kumar R, R.Jayalakshmi, D Beulah David, S. Sampath Kumar</i>	
6G and Beyond: Enabling Terahertz Communication and Ultra-Low Latency for Energy-Efficient Next-Generation Networks	591
<i>K.Malarkodi, G.Sheeba, Selvi P, Suria S, S.Sargunavathi, K.P.Indira</i>	
Q-IoTGuard: Lightweight Quantum Cryptographic Protocols for Resource-Constrained IoT Devices	598
<i>K.Malarkodi, G.Sheeba, Sarumathi S, S. Sampath Kumar, B.Vidhya, K.P.Indira</i>	
Sleep Quality Monitoring using Heartbeat and Motion Sensor	605
<i>Balakumar C, Sneha A</i>	
Next-gen Wearable Tech for Real-time Health Analytics and Emergency Signaling	611
<i>Elakkiya.A, Subhashini.K</i>	
Decentralized Blockchain Framework for Tamper-Proof Cloud Data Storage and Retrieval	617
<i>Prathusha Perugu, Thummala Varshini, Anumula Akhil Sai, Eeranolla Yojitha Thangillapalli Venkata Chaithanya</i>	

A Comparative Study of Intelligent Intrusion Detection Systems in IoT using Deep Learning Approaches	625
<i>Jagdeep Singh, Harjit Singh</i>	
Humidifier Robot for Home using IoT	632
<i>Odugu Kireeti Reddy, Matavalam Bhavana, A Vaishnavi, Kamasani Chinni Krishna Reddy K. S. Chakradhar</i>	
A Novel Privacy-Preserving Structure for Emergency Communication Systems: Homomorphic Encryption for Safe and Robust Edge-Cloud Computing Disaster Management	639
<i>M. Subalatha, Parveen Banu S, M Kanniga Parameshwari, Babitha Lincy, Mahmoud Odeh, D. Rajeshwari</i>	
A Hybrid Machine Learning and Deep Learning Framework for Smart Solar Power Prediction and Energy Management with Real-Time Weather Integration	646
<i>Sathish K, S. Sudha</i>	
Evaluation of Energy Efficient Modulation Scheme for Wireless Receiver using Kalman SNR Prediction	652
<i>Srilakshmi Gubbala, Venkata Narasimha Valavala, Harsha Vardhini Sakhamuri, Likhitha Vaddadi Bhavyasri Vattikuti</i>	
An Optimized Explainable Transformer-based Intrusion Detection System for Enhancing IoT Security	659
<i>M. Petchiammal, S. Mary Evanchalin, R. Mallika Pandeewari, P. J. Beslin Pajila, G. Tamilpavai, R. Ravi</i>	
Dynamic Spectral Fusion Network for High-Accuracy Wind Power Generation Forecasting	669
<i>S. Gomathi</i>	
An Intelligent IoT-based Framework for Early Detection of Vector-Borne Diseases	676
<i>Chettiyar Vani Vivekanand, Radhika Rakesh, Priyadarshini M</i>	
Enhancing Data Integrity and Authenticity for Blockchain Powered Online Healthcare Services	683
<i>Anguraju Krishnan, Rajesh Arunachalam</i>	
A Novel Healthcare Records Privacy-Preserving and Dynamic Error-Free Communication Medium based on Blockchain enabled IoT Technology	690
<i>Anguraju Krishnan, Rajesh Arunachalam</i>	
Deploy Low-Latency Convolutional Neural Networks for Autonomous Embedded Applications: Real-Time Object Recognition on AI-Integrated Microprocessors	697
<i>T. S. Balaji, Ali Hussein Ali Abu Zaidline, V.G Dharsana Dharani, Sami Anand, N Krishna Chythanya Jeevitha R</i>	
Employ Blockchain Technology into Smart Agriculture: Tracking Crops, Sharing Data Securely with the Internet of Things and Distributed Ledgers	703
<i>Muruganantham Angamuthu, Safeyah Tawil, Gaurav Pushkarna, M. D. Boomija Kolisetti Giridhara Sravani, Padmavathi N</i>	
Federated, Real-Time AI Analytics for Vaccine Effectiveness and Variant Surveillance Across Distributed Healthcare Systems	710
<i>Vijitha Uppuluri</i>	
Hybrid Machine Learning and Rule-Based Framework for Comprehensive Vulnerability Assessment in Modern Networked Systems	719
<i>Shanmuganathan V, Sibhi K, Esther P</i>	

Eye Blink–based Morse Code Translation for Assistive Communication using a MobileNetV2–LSTM Framework	725
<i>Pavithraa.M.S, Kujani T</i>	
AI-Driven Adaptive Quantum PSO-Optimized TabNet Framework for Intelligent Crop Recommendation	731
<i>Velukumarasamy A, Manohar E</i>	
Convolutional Neural Network Approach for Identifying Brain Tumours in MRI with Visual Feature Localisation	739
<i>Sirodhar Athyala</i>	
PDF Knowledge Extraction System with RAG and CAG Models	745
<i>P. Venkateswarlu Reddy, Nelimela Varalakshmi, Mudadla Keerthana, Mappeti Sri Harsha Tej Pamula Pranathi</i>	
Interpretable Vision Transformer–based Retinal Disease Detection using HOG Features and Guided Graph Segmentation	752
<i>Mary Shalini A, Jenifer P</i>	
An Agentic AI for Personalized Investment Advisory: Detecting and Mitigating Cognitive Biases in Financial Decisions	759
<i>Subashri Vazhai Parathan, Aditya Padmanabhan, R Thamizhamuthu</i>	
Lightweight U-Net based Segmentation of Low-Grade Glioma Tumors from Brain MRI	764
<i>K R N Aswini, Gayathri J, D. Prakash, Shree Ramalingam Balasubramanian, Pravin P, Shanker N R</i>	
An End-to-End Layout-Aware System for Intelligent Form Understanding	770
<i>Pooja Damavarapu, Kavinya Mahesh, Krishna Khare, Mogili Greeshma, Radha D</i>	
Entropy-Aware Temporal Behavioral Modeling for Early-Stage Ransomware Detection using System-Level Telemetry and Sliding Window Analytics	775
<i>Irshad Ahmed R, S Murugaanandam, Dinesh Kumar S, Swapnil Shankar Talke</i>	
A Decoupled GRU-ELM Framework For Edge-Based Panel-Level Fault Detection in Photovoltaic Systems	782
<i>Mohanraj S, Balaguru Madhavan G, Chiradeep P, Magudeeshwari V, Shifana S</i>	
A Multi-Objective Machine Learning Method for Growth Scheduling and Plant Suitability in Urban Rooftop Settings	790
<i>Vinodh Kumar S, Mrithika D, Pravin P</i>	
An Autoencoder and Gradient Boosting Framework with Advanced SMOTE Variants for Disaster Prediction	796
<i>J. Avanija, Rama Krishna Sankavaram, Dharani Palla, Chandana Saladhi, Akhilesh P</i>	
Self-Supervised Meta-Adaptive Multimodal Graph Attention Learning for Clinical Decision Support	804
<i>Sharmistha S, Shrinidhi C, Pandeewaran C</i>	
Real-Time Posture Correction using MediaPipe	811
<i>Mohanapriya S, Mohana Saranya S, Dinesh K, Jaya Nirenjan A C, Kavinnath A R, Keshore V M</i>	
A Real-Time Multimedia Protection Framework Integrating Decipher Guard and Steganographic Adversarial Defense	817
<i>S. Safrin Fathima, M. Archana</i>	

Scalable Deep Learning Models for Automated Fish Species Classification in Real-World Aquatic Scenarios	825
<i>K. Malarvizhi, T. Srinivas Reddy, R. Abitha, P. Saravanabhava, S. P. Santhoshkumar, A. Kaliappan</i>	
Privacy-Preserving Patient Data Storage in Cloud Environments	831
<i>Rudhranath Baladhandapani, Sri Harsha Grandhi, Bhanutheja Nagabhushana Reddy Kasinayakanahally Elegbeleye Femi Abiodun, Biplov Paneru, T.Kalaikumaran</i>	
Hybrid Multimodal System for Early Stage Autism Detection	837
<i>Dhanya Sanagapalli, Kommineni Chandhana, Konjeti Surendra Vamsi, K Lakshmi Prasanna Yamarthi Narasimha Rao</i>	
A Survey on AI-based Classification and Detection of Canine Dermatological Diseases	845
<i>Malathy EM, S.Anisha, M.Anitha</i>	
A Deep Learning-Driven System for the Segmentation, Visualization, and Diagnostic Augmentation of Cerebral Tumors from Volumetric MRI	851
<i>D. Rajesh, J. Swapna, S Bindu Priya, P Pradeepika</i>	
Early-Stage Lung Cancer Prediction using Supervised Machine Learning Algorithms	857
<i>Maragatha Mani V, Sherin Eliyas</i>	
Synergistic LLM and Cognitive Platform for Neuro-Diagnostic Screening	863
<i>B. Mohanraj, B. Maga Sree Aswenh, B.Maha Sree Prasenna, P. Narumuzhil, P. Dineshkumar Dwijen Kirtania</i>	
Early Detection of Heart Disease from Cardiology Reports using Hybrid TF-IDF and BERT Features: an NLP Driven Approach	871
<i>Ganesan A, Sherin Eliyas</i>	
AI-Driven Simulation and Prediction of Urban Microclimate Dynamics using GNNS and PINNS	878
<i>M. Sobhana, Tejaswi Kondabolu, Surya Sanjay Damuluri, Chandrika Kanuru, Smitha Chowdary Ch</i>	
Hybrid Deep Learning Framework for Human Skin Disease Identification with EfficientNetV2-L and SVM	885
<i>G. Gokulnathan, Y.Karthick Raja, Y. Manimegalai, P. Obulaxmi, G. Nagarajan, M. Sakthivel</i>	
Predicting Lifestyle Sustainability Ratings using Machine Learning Classification Models	894
<i>Geetha R, Diana Grace Thomas</i>	
MRI-based Meningioma Classification using the Xception Model for Healthcare	900
<i>Geetha R, D Jenila Rani</i>	
A Novel Methodology Design to Predict Heart Disease with Risk Factor Evaluation using Hybrid Deep Learning	905
<i>J.Sarojini Premalatha, S.Gowri</i>	
AI-Enabled Multimodal Prenatal Assessment Platform Utilizing Ultrasound Imaging and Amniotic Fluid Analysis for Early Anomaly Detection	912
<i>B. Mohanraj, S. Dhivyadharshini, A. Abisri, Zokir Mamadiyarov, C. Anusuya, M.Priya</i>	
Early Detection of Brain Tumors from MRI Images using Machine Learning Models	920
<i>Bejin Benjamin B, Sherin Eliyas</i>	

Context-Aware and Confidence-Guided Recognition of Ancient Tamil Stone Inscriptions using Multimodal Graph Learning	927
<i>Balasubramanian Murugan, Dr.P.Visalakshi</i>	
An Intelligent Crop Selection using Machine Learning for Precision Agriculture	933
<i>Nallakumar R, Anjana S, Sathyanarayanan S R, Akash R, Monika R</i>	
Voice-Based Parkinson's Disease Detection Utilising Autoencoder-Guided Graph Neural Networks	940
<i>Veena B</i>	
Lightweight Explainable CNN-Transformer for Skin Disease Classification	947
<i>Reecha Suryavanshi, Sameer Patil</i>	
Optimization of Forest Conservation using Genetic Algorithm Approach	954
<i>Sandeep Kumar Sunori, Deepak Bisht</i>	
An Intelligent and Scalable Machine Learning Approach for Food Recipe Rating Systems	961
<i>Joshi Rajeshwari, Kanneboina Ashok, Ramya Sri Kotta, Thota Anitha, Adlakadi Anand</i>	
An Intelligent DDPG Framework for Cost-Efficient Task Scheduling in Multi-Cloud Environment	969
<i>Sonam Marathe, C Veena, Johnson Kolluri, V Sravan Kiran, Santhosh Kumar Medishetti Raveendrababu Vempati</i>	
A Simplified Deep Learning Pipeline for Comprehensive Lung Disease Identification	978
<i>D.Chaithanya, Bhuvanagiri Karunakar Reddy, BoyaReddy Gari Dharmesh, Balineni Abhiraami C. Madhusudhan Rao</i>	
MORL: An Intelligent Cost and Reliability-Aware Task Scheduling in Multi-Cloud Data Centers	983
<i>C Veena, Seshu Bhavani Mallampati, Raveendrababu Vempati, P Ramya, A Vanaja Santhosh Kumar Medishetti</i>	
An Empirical Comparison of Dense, Hybrid, and Reranked Retrieval under Monolingual and Multilingual Embeddings for Indic Languages	991
<i>Alok Chedambath, Nikhil Shinde, Raghavendra Pratap Bohra, Subashini B</i>	
Confidence-Aware Dynamic Modality Weighting for Robust and Explainable Multimodal Breast Cancer Risk Assessment	997
<i>Pearl Rubyth Thomas R, Ralitsa Narayan, Tejasri S, T. Grace Shalini</i>	
Identity Shield-Anti Spoof detection	1005
<i>Nikitha Sree Uppala, Jagarlamudi Chandana, Angeline Lydia, Ignatious K Pious</i>	
Skill Development Platform with Voice Integration System	1013
<i>A. Deepha, M. Dharsana, S. Fazila, M. Bagya Lakshmi, Y. Harold Robinson</i>	
Crop Yield Prediction using Hyperspectral Imagery and Machine Learning Algorithms Deployed on Edge Computing Nodes	1019
<i>Arockia Jaya J, Thasneem A, Subasri I, Vanathammal Roslin D, Sathya B, Vidhya L</i>	
A Data-Driven Approach for Early Diagnosis of Autism Spectrum Disorder	1026
<i>Esha Subba, Vanita Jaitly</i>	
A Hybrid Stacking Framework for Corporate Fraud Detection using Dual-Layer Explainable AI	1033
<i>Esha Sagar S, H.J.Shanthi</i>	

Early Diagnosis of the Risk of Schizophrenia using Hybrid Machine Learning	1040
<i>Spardha Dahal, N.Sivakumar SG</i>	
A Python-based Method for Early Fibromyalgia Detection using Machine Learning	1047
<i>MŚ Chitra Devi T, Saniya P, Kavinprakash T, Madhu Balan V</i>	
Quantum-Inspired Hybrid Filtering for Enhanced Noise Reduction in Medical Images	1053
<i>Shankar M, Reddy Charan K, Manikandan R, N.P.Siva Teja, N. Purushottam, C.Vinay Kumar</i>	
Attention-Balanced Variational Autoencoder Framework for Credit Card Fraud Detection under Extreme Class Imbalance	1060
<i>Mukkara Indira, Rasta Mahaboob Basha, Pamisetty Sivamma, Mastik Suresh Babu Seemakurthy Hupesh Naga Ketan</i>	
ViT Backbone Optimization with Multi-Scale Patch Embedding in Dendritic Learning Framework : Enhancing Vision Transformer Backbones with Adaptive Patch Embeddings	1068
<i>G.Rajan, Y.Harold Robinson, M.Bagya Lakshmi</i>	
Continuous Compliance Monitoring with Real-Time Risk Quantification	1076
<i>Deepalakshmi Perumalsamy, Caleb Gunalan, Ganapathi Subramanian Pechiappan</i>	
An Automated Framework for Wheat Growth Stage Classification using Gabor Texture Analysis & Random Forest Learning	1084
<i>Purva Shinde, Ekta Ukey</i>	
A Hybrid VGG19–ResNet50 Feature Fusion Framework with Imbalance-Aware Learning for Robust Brain Tumor Classification	1090
<i>SivaKumar Depuru, Mokkal Kiran Moni, Suvarna Yashaswini, Dudekula Pedda Madarsa R Neeradh Kumar Reddy, P C Jaswanth</i>	
Topology-Regularized Self-Supervised Vision Transformer for Multi-Class Brain Tumor Classification using Br35H MRI Dataset	1098
<i>R.S.Amshavalli, Pagilla Hemanth, Nuthayti Sasidhar Yadav, Priyanka.N, B.Gracelin Sheena, M.Gowri</i>	
AI Cloud Sentinel: Multi-Agent Engine for Proactive Intelligent Disruption Detection and Self-Healing	1106
<i>Vijayalakshmi Chintamaneni, V. Srinivas, Shaik Sohin, Rameesa, Velpula Nagalaxmi, Nallala Ashruja</i>	
Predictive Modeling of Nutritional Deficiencies Through Dietary and Lifestyle Analytics using Machine Learning	1112
<i>Priya Thomas, V Asha, Mithili Devi, Uday C, Venugopal M, Tejaswini G S</i>	
Adaptive SVOA for Efficient Task Scheduling in Cloud-based Airline Reservation Systems	1120
<i>T Durga Bhavani, Katakam Srinivas, Raveendrababu Vempati, M Dharani Kumar, P Ramya Santhosh Kumar Medishetti</i>	
Artificial Intelligence Assisted Waste Surveillance and Environmental Sustainability Model	1128
<i>Kanagamalliga S, Latha R, Karthikeyan P, John Christober T</i>	
Deep Learning Framework for Predictive Smart Tourism Management with Multi-Stakeholder Decision Support	1134
<i>Salman Latheef T A, Dharaneeshwar S, Abisheak Ananthan S, Pravin P</i>	
A Machine Learning based Framework for Multi Cancer Type and Subtype Prediction using Medical Images	1140
<i>Ch Malathi, B Pallavi, P Lakshmi Prasanna, Ch Mounika</i>	

An Ethical AI Model for Bias Detection and Fair Decision-Making in Machine Learning Systems	1148
<i>Anshu Vashisth, Gagandeep Kaur, Nahita Pathania, Richa Jain</i>	
AI-Assisted Zero Trust Security Framework for Distributed Cloud–Edge Environments	1154
<i>Anshu Vashisth, Gagandeep Kaur, Richa Jain, Nahita Pathania</i>	
BES: Quantum-Inspired Deadline-Aware Task Scheduling in Cloud-based Machine Learning Systems	1161
<i>Santhosh Kumar Medishetti, Seshu Bhavani Mallampati, Sudipta Priyadarshini, Kannam Manjusha Marupaka Pranay, Baddam Harshavardhan</i>	
Precision Tumor Detection: Enhancing Clustering Models with Hybrid Intelligence for Medical Imaging	1169
<i>Faiza Iram, Mohammed Ali Shaik</i>	
An Approach for Heart Disease Detection using Optimized Recurrent Neural Network	1175
<i>Vidya C A, V.Baby Shalini</i>	
Comparative Implementation and Evaluation of Deep Learning Models for Ultrasound Image Analysis	1181
<i>Prabhneet Singh, Narinder Kaur</i>	
Deep Denoising Improved Super-Resolution Framework based on Convolutional Neural Network	1187
<i>Pawan Kumar Mishra, Gaurav Sharma, Pramod Mehra, Jagdish Chandra Patni, Jaydeep Kishore Piyush Chauhan</i>	
Rainfall Prediction using Temporal Feature Engineering and Ensemble Machine Learning	1193
<i>G. Vennila, Pujari Naveen, Ravi Bhargav, Ravipati Jeevan Sai, Shaik Bajivali</i>	
Reevaluating CNN Filter Dimensions: Experimental Findings on CIFAR-10 and Fashion-MNIST for Modern Network Architectures	1200
<i>Annapoorani S, Anna Anbumozhi, Subashini B, Dhanalakshmi J</i>	
Machine Learning for Clinical Outcome Prediction	1205
<i>Saran D, Sridharan V K, Rajan C, Indumathi M S</i>	
Lung Disease Detection with Hybrid CNN Models using only Chest X-Ray Images on the Basis of Deep Learning	1210
<i>B Yogeshwaran, K Ramya, M Revathi, A Jenifer</i>	
Skin Disease Cam: Classification of Skin Lesion using Convolutional Neural Networks with Home Remedy Recommendation	1216
<i>Jeika Bryll Stephannie C. Lago, Jazhem M. Hamid, Dave Matthew M. Ignacio, Cassandra Mae A. Baco Jaydee C. Ballaho</i>	
Brain Stroke Detection from Neuroimaging Data using XGBoost Algorithm	1224
<i>Gowri R, Dr.V.Govindaraj, Janaranjani C, Harshini J, Mohammed Thoufiq T</i>	
Fake News Detection in Social Media using Hybrid AI Techniques	1230
<i>Priya Thomas, V Asha, Diksha Diman, Tanmay Rana, Vaishnavi V P, Tejas K M</i>	
Enhanced Electric Demand Forecasting Accuracy using a CNN-BiLSTM Hybrid Architecture	1237
<i>Sibbala Bhargava Reddy, Sudhakiran Ponnuru, S.Amosedinakaran, Sundar R, Dr.R.Rajasree, P.Babu Rao</i>	
Lightweight Inference-Time Backdoor Attack Detection for Resource-Constrained Internet of Drones using Tiny Vision Transformers	1243
<i>Rahgul M S, Sophia S</i>	

TabTransformer-X Driven Feature-Optimized and Explainable Hybrid Ensemble Learning for Early Parkinson's Disease Detection	1250
<i>Steve Jachin Peniel S, Sophia S</i>	
A Soft Voting Ensemble Approach for Early Prediction of Cardiovascular Disease Risk	1257
<i>V. Chandana Sri, P. Amrutha Nagavalli, James Deva Koresh Hezekiah</i>	
Climate Change Adaptation Strategies in Modern Agriculture using Advanced Machine Learning Algorithms	1263
<i>N Mithili Devi, V Asha, Priya Thomas, ManjunathGoud M Patil, Kokkilagadda Vineela, Karishma Singh</i>	
A Multi-User Retrieval-Augmented Documentation Chatbot using LangChain, Ollama and ChromaDB	1269
<i>S. Deborah Roopavathi, D. Evangeline Nesa Priya</i>	
XMalCloud: Explainable Machine Learning Framework for Memory-based Obfuscated Malware Classification in Cloud Environments	1275
<i>Thenmozhi S, C. Bala Kamatchi</i>	
An Intelligent Image Forensic-based Framework for the Identification and Detection of Counterfeit Currency Notes using Digital Image Processing Techniques	1281
<i>Nithya S, Monika S, Yogasree S, Vijayalakshmi C, M.Malleswari, Sathiya Priya S</i>	
Super-Resolution Assisted Mask-Aware Face Recognition for Low-Quality CCTV Surveillance	1287
<i>Vijayalakshmi, Raghul S</i>	
Comparative Evaluation of Machine Learning Models for Hypertension Prediction	1293
<i>T Kishore Babu, K Lakshmaiah, P.V.V. S. D Nagendrudu, Pavan Kumar Varma Kothapalli Sriharsha Vikruthi, V T Ram Pavan Kumar</i>	
Machine Learning-Enabled Cloud Log Anomaly Detection and Automated Resolution System for Reliable AIOps Management	1298
<i>Abirami S, Saravanan S M</i>	
An Explainable Graph-based Framework for Intelligent Financial Transaction Risk Detection	1305
<i>Harish N N, Kanagapriya S K</i>	
A Context-Aware Risk-Adaptive Continuous Authentication Framework using Keystroke Dynamics	1312
<i>Vimit Varghese, Divyadharshini K</i>	
Intelligent Multi-Modal Edge Framework for Real-Time Railway Crack Detection and Automatic Braking	1319
<i>Nithish M, Naveena N</i>	
A Book-Verified Retrieval-Augmented Medical Chatbot for Reliable and Explainable Healthcare Assistance	1326
<i>Vimit Varghese, Hari Krishnan T</i>	
An AI-Driven Gamified Framework for Predictive Habit Formation and Personalized Wellness Management	1332
<i>S Sreeraj, Dhanaseelan S</i>	
Cognitive Data Guardian: An Intelligent AI Framework for Secure and Automated Privacy Protection	1339
<i>Senthilnathan T, Hare Preya P S</i>	

An Explainable Retrieval-Augmented AI Framework for Detecting Food and Nutrition Misinformation	1346
<i>S Sreeraj, Gokul R</i>	
Computational Image-based Identification of Monkeypox Infection	1353
<i>Selvi. T, Chellammal. S, Rupak. L. R, Sathiya. S, Kathiravan. S</i>	
A Hybrid CNN-Transformer Architecture for Accurate and Interpretable Kidney Abnormality Classification	1360
<i>B.Gracelin Sheena, Alasakani Sairam, Y.V. Pavan Kumar Reddy, R.S.Amshavalli, G.Kavitha, M.Gowri</i>	
Robust Multimodal Modulation Classification in Realistic Wireless Channels using Hybrid CNN-BiLSTM with Attention	1367
<i>Gayathri Devi S, Carmel Abigail Shirley Royan, Ramachandra Reddy K</i>	
Deep Learning Enhanced Detection of Multiple Sclerosis	1373
<i>Gururaj K, Kesav Bala R, Lokesh G, Yazhini Nivethitha</i>	
Ensemble Deep Learning for Context-Aware Fake News Detection	1377
<i>R. Manimegalai, P.S Vijayalakshmi, A.Uthiramoorthy, P.Sukumar, A.Priyadharshini, M.Geethanjali</i>	
Comprehensive Review of Phishing Website Detection using Machine Learning and Deep Learning	1383
<i>Divyanshu Pandey, Gaurav Garg, Shonak Bansal</i>	
Near-Earth Object Hazard Classification using Hybrid Strategy	1389
<i>N Mithili Devi, V Asha, Govindaraj M, Aditya Tatyaso Kamate, Agnay E T, Priya Thomas</i>	
AI-Powered Crop Recommendation System using FT-Transformer for Precision Agriculture	1394
<i>M. Ramya, Nisvan Mohamed, M. Devesh Reddy</i>	
An Integrated Explainable AI Architecture with Hybrid Attribution and Fairness Monitoring for Machine Learning	1399
<i>Shakthi Kalyan S, Jamuna R</i>	
Feature Fusion-based Glaucoma Detection through Deep Learning using Handcrafted and Deep Representations	1405
<i>Vaddagani Madhuri, Jayadeep Pakala, Nalanagula Harini, M Janakidevi, A.Lakshmanarao P.Chandra Sekhar Reddy</i>	
Handy Mouse Cursor Control using Hand Gesture in Deep Learning	1411
<i>J. Mala, Karuppusamy S, Shreenivasamoorthy T, Madhan Raj R</i>	
Explainable Hybrid Deep Learning Framework for Emission Prediction in Heavy-Duty Vehicles	1416
<i>N Saikiran, T Nalini, Arulanantham G</i>	
Epileptic Seizure Prediction for Diabetic Patients using Convolutional Neural network	1424
<i>S. Bhargavi, M. Sameeramma, B. Venkata Ramana, P. Sai Ganesh, Sivasangari Ayyappan</i>	
Prompt Pre-Screening and Compliance Enforcement System for AI Input Protection	1430
<i>Hari K, Kailas Vaari K, J Sarojini Premalatha</i>	
Interpretable Ensemble Machine Learning Approaches for Sleep and Lifestyle Health Prediction	1436
<i>Shri Venkatesh Babu Bharaneedharan, K. Sankar, S. Vairachilai, Abhay Kumar Sinha</i>	
Medicinal Leaf Identification using MobileNetV2	1443
<i>M Abhiram Sai, Sageengrana S, G.Mohit Sai Balaji</i>	

Explainable AI for Smart Irrigation using Soil Moisture and Climate Data	1449
<i>Vignesh R, Janani C, Dhyanesh M, A. Syed Ismail</i>	
NextGen ATM by Multi-Bank Access Through Biometric Authentication	1457
<i>M. Raghavi, J.Bharath J. J.Bharath, S.Karunakaran, T.Mahendrael, K.Yasmin</i>	
A Survey of Structural MRI-based Classification of Alzheimer's Disease: Traditional Machine Learning to Deep Neural Architectures	1464
<i>Binoop Kumar. C.A, K. Renuka</i>	
A Hierarchical Attention-Driven Semantic Matching Framework for Intelligent Resume–Job Description Alignment	1472
<i>Karunamoorthi R, Mohanapriya G</i>	
Fusion-based Approach using Deep and Machine Learning for CT and X-Ray Image Classification of Lung Diseases	1478
<i>Mithun Raja.P, Sujitha.S, Vishal.k, Gowri.S</i>	
Explainable AI-based Career & Institution Recommendation System for Higher Secondary Students	1484
<i>Ananthi S, Harshini S, Sandya T, Thanyasree N</i>	
LLM-Orchestrated Multi-Agent Framework for Log-Centric Cyber Threat Detection and Analysis	1490
<i>Sasikrishna A, Subhash J, Chaarvi Sai Renuka Choudary Ayineni, Balachander T</i>	
Improving Coronary Artery Disease Prediction Accuracy with an Ensemble Approach and Two-Layered Voting Framework	1498
<i>C. Hrishikesava Reddy, B. Saigokul, G. Naga Pavani</i>	
Poverty Mapping in Zamboanga City using Geospatial Analysis and Ensemble Models	1504
<i>Jamal A. Al Badi, Jerard J. Regalado, Stephanie Mei A. Bobon, Marverick O. Francisco, Marvic A. Lines</i>	
Plant Disease Prediction with the Help of Deep Learning based on the Analysis of Leaf Images	1511
<i>C. Balakumar, M. Jenastin</i>	
Skin Dehydration Tendency Estimation using Smartphone Macro Images via Micro-Texture Entropy and ResNet50 Transfer Learning	1517
<i>Omega, Harsitha Priyadharshni A, Aneesh Euprazia L</i>	
An Explainable and Uncertainty-Aware Deep Learning Framework for Histopathological Breast Cancer Detection	1524
<i>Rajkumar Pandiarajan, Kailasam Selvaraj, Vimal Sekar, Venkadesh V, Sowmiya N, Anuja J</i>	
Early Prediction of Chronic Kidney Disease using Ensemble based Deep Learning Techniques	1530
<i>Sandeep Kumar Hegde, Rajalaxmi Hegde, Thangavel Murugan</i>	
Attention-Guided Deep Learning Model for Intelligent Traffic Flow Prediction in Smart Cities	1536
<i>Rupadevi N, R.Ramya</i>	
A Real-Time Verification Framework for Hallucination and Bias Detection in AI Generated Text	1540
<i>Rithika R J, Uma Bharathi S, G.S. Devi Lakshmi</i>	
Explainable Brain Tumor Classification from MRI Images using Transfer Learning and Grad-CAM	1548
<i>S.Pavan Kumar Reddy, N.Bhargavi, A.Maheedhar, Ch.Mounika, K.Likith</i>	

A Hybrid Trust Intelligence System for Verifiable Assessment of Online Textual Claims	1555
<i>Swetha Gadde, A. Harini, G. Rohith Kumar, K. Anagha</i>	
Attention-Enhanced LSTM Model for SQL Injection Detection in Web Application	1561
<i>Somi Singh, S. Jaya</i>	
A CUDA-Accelerated Iterative Inversion Framework for High-Resolution Brain MRI Reconstruction	1569
<i>Anjali K S, Pankaj Krishna, Nagadevi S, Anand M, Sathyapriya L</i>	
Wrapper Model based Feature Selection On Diversity Dataset	1576
<i>Chithirala Bala Subramanyam, Hemanta Kumar Bhuyan</i>	
AI-Driven Anonymous Civic Intelligence for Transparent and Efficient Municipal Governance	1582
<i>Kanagapriya S K, Kesika V</i>	
A Tiered Patient-Centric Emergency Medical Access System using Dynamic QR-Codes	1590
<i>Riddhi Khatri, Riddhi Jadhav, Dhruv Gherwada, Vinit Kotak, Rashmi Malvankar, Swati Nadkarni</i>	
Automated Animal Intrusion Detection and Repellent Activation in Crop Fields	1596
<i>Krithika S, Keerthi Sheevani G, Lekharshini V, Balaji M</i>	
Meta-Learning Enhanced Transformer Networks with Adaptive Swarm Intelligence Optimization for Stock Market Trend Forecasting	1601
<i>Mohideen AbdulKader M, Sanjay Narasimhan, Oviya Rathinasankar</i>	
A Multilingual Voice-First Generative AI Framework for Financial Literacy in Low-Resource Communities using Lightweight LLMs	1607
<i>Sreesh Raghavendra, Hemanth Sankar, Deeban Chakravarthy V</i>	
SMS Spam Detection using an Ensemble Machine Learning Model	1615
<i>Moksha Dedhia, Tej Bhagat, Shreya Bhimani, Chintal Gala, Swati Nadkarni, Vinit Kotak</i>	
Leaf Disease Detection using Classical Image Processing and Rule-based Analysis	1621
<i>Sumit Dubey, Khushal Patel, Taizeeba Walele, Chintal Gala, Swati Nadkarni, Vinit Kotak</i>	
Real-Time Offensive Speech Detection in Google Meet using Speech-to-Text and NLP	1627
<i>Gopinath S, Sheeja Sudheer</i>	
Cyber Risk Assessment in E-Commerce using Anomaly Detection	1634
<i>Loganathan S, R. Sophia Janit</i>	
Comparative Evaluation of Machine and Deep Learning Models for Thyroid Disease Diagnosis	1641
<i>S.Priyadharshini, Dr.V.V.Karthikeyan, Dr.B.Sivasankari, N.Ramya Devi, S.Priyanka, S. Gowdhamkumar</i>	
Smart Traffic Safety: Predictive Modeling and Risk Factor Analysis with Explainable Deep Learning	1647
<i>R.Jeberson Retna Raj, Suriyaa S V, Thrurakaprabakar T</i>	
Focusing on the Essentials: Why Lightweight Attention Models Outperform Deep Networks in Automated X-Ray Diagnosis	1653
<i>Dev Arora, Bhupendra Singh, Anupama Bhan</i>	
Interpretable Neural Radiomics for Brain Tumor Mapping and Progression Analysis	1659
<i>Abhishek Jogur, Deekshith Gowda J, G Vishwas, Harshad S N, E. G Satish</i>	

A Comparative Study of Deep Learning-based Approaches for Accurate Dental Caries Detection and Classification	1667
<i>R Sivakumar</i>	
Deep Learning Approaches for Detection and Classification of Tomato Leaf Diseases: A Comparative Analysis	1672
<i>Rajendran Sivakumar</i>	
Implementation of a Digital Placement Management System for Academic Institutions	1677
<i>P.Sumalatha, V.Sankarnath, N.Deepika, N.Leelanjali, T.Priyanka</i>	
Writer-specific Handwriting Synthesis based on Diffusion Models	1682
<i>Ashlin Deepa R N, Gadamalla Sharvani, R Lakshmi Sravani, Praveen Jugge, R.Rajeswara Rao, Y Vijayalata</i>	
AFSA: Autonomous Few-Shot Prototype Adaptation for Open-Set Deepfake Detection	1687
<i>Ishank Yadav, Sonali Beura, Shyamapada Mukherjee</i>	
Enhanced Glaucoma Detection Framework Integrating Generative Adversarial Networks and Attention U-Net	1695
<i>Jayaprakash B, Mohan Raj S, Gnanaprakasam C N</i>	
API-First Architecture: Achieving Enterprise-Wide Operational Unity and Real-Time Data Flow in Complex Digital Ecosystems	1701
<i>Vishesh Goel, Astha Bhatiya, Kshitij Khare</i>	
Adaptive Cross-Modal Topology-Constrained Contrastive Representation Learning with Hierarchical Transformer-Graph Synergistic Fusion for Robust Preclinical Alzheimer's Disease Satisfaction	1708
<i>P.Sankhya Sarvika, S.Prashika Shri, P.Sireenjeevi</i>	
A Large Language Model Framework for Automatic PLC Control Logic Generation from Natural Language	1714
<i>Surya B, Ram K Shivany</i>	
Intelligent Multi-Agent Reinforcement Sanitizer for Securing LLM Systems	1720
<i>Pramila P, Nadana Ravishankar T</i>	
State-RAG: A Two-Layer Retrieval System for Large Language Model-Driven Website Builders	1728
<i>Cheemaladinne Vengaiah, Pulakani Sidhanth Reddy, Markuk Bhanu Prakash Swamy Mandapati Sai Tiru Charan Reddy</i>	
An Explainable Hierarchical Reinforcement Learning Approach for Personalized and Health-Constrained Meal Recommendation	1736
<i>Bhaves P, Nayantra Ramakrishnan, Nagendra Prabhu S, G. Shivashankar, Moorthi K Vaissnave Vaissnave</i>	
Enhanced Cardiovascular Disease Prediction using XGBoost	1744
<i>Kavin Kumar D, Devendhiran S, Gomathy G, Karnish N</i>	
Integrated Accident Risk Analysis: KDE-based Hotspot Detection and XGBoost Severity Classification for Safer Urban Mobility	1749
<i>P.N.V Lakshmi, A.Naga Venkata Sailu Sri, K. Prasanth Kumar, D. Sujith, A. Pranavnath Reddy</i>	
Sign Language Recognition Word Formation and Text to Speech Conversion using Machine Learning	1756
<i>G. Anjali, Shreeya Soma, Samudrala Sai Manaswini, Sreekari Manaswini Annavajjula, Samala Madhumitha Rondla Srujana</i>	

Machine Learning-based Automated Eye Disease Detection using Retinal Image Analysis and Real-Time Camera Integration	1762
<i>Janani S, Rohit Singh, Ashwin Choudhary</i>	
Advanced Task Intelligence for Automated Employee Performance Assessment	1771
<i>Kanagamalliga S, Srigitha S Nath, Winaayag Amit J, Ramya J</i>	
Deep Learning based Fundus Image Analysis for Detection of Papilledema and Pseudopapilledema	1776
<i>Sairish H, Santhosh Kumar T R, Subalakshmi R, Sri Nidhi P V</i>	
Multimodal Context-Aware Emotion Recognition using Transformer-based Fusion of Facial and Speech Cues	1782
<i>Charvitha Yerukonda, Shanthini J</i>	
Performance Analysis of Approximate Adders in Image Fusion	1793
<i>Bhavani Dantuluri, Bala Sindhuri Kandula, Relli Purna Chandra, Yandra Mohana Laxmi</i> <i>Syed Razack Akbar Ali, Viswanadh Maddala</i>	
An Intelligent Early Warning System for Student Dropout Prediction using Deep Learning on the OULAD Dataset	1798
<i>Angel Catherine M, Himasri S, Vinodh Kumar K</i>	
AI-Assisted Conflict Resolution Framework for Consumer-Centric Cloud Forensics	1804
<i>T. Sukumar, Pitchandi. R, K. Saiteja, K.Padmavathi, K.Himakar, K.Rohit</i>	
An Enhanced Lung Cancer Detection in CT Scans using SE-Modified DenseNet121 with FPN and Focal Loss	1812
<i>Mallareddy Adudhodla, Deeti Hemanth Kumar</i>	
A Hybrid Bio-Inspired Deep Learning Framework for Adaptive Web Threat Detection	1820
<i>J. Avanija, Sunku Siddeswara Mounika, Bitni Mohammed Owais Khan, Gundarapu Pavan Kumar</i> <i>Tammineni Poorna Chandra</i>	
A Deep Learning based Finger Vein Biometric Authentication System using CNN and Grad-CAM	1827
<i>B. Elisha Raju, Lokesh Kumar Polireddy, Harshitha Veeranki, Usha Kiranmai Talupula</i> <i>Vijay Kumar Yalamanchili</i>	
Cloud Data Warehouse Boolean Keyword Searchable Encryption: A Secure, Verifiable, and Efficient Method based on the HMAC Algorithm	1833
<i>P. Prathap Naidu, J. David Sukeerthi Kumar, Matam Divya</i>	
Adaptive Attention-Guided Deep-Texture Fusion Framework for Robust Multi-Class Lung Disease Classification using Chest X-Ray Images	1839
<i>D. Chaithanya, Bhuvanagiri Karunakar Reddy, BoyaReddy Gari Dharmesh, Balineni Abhiraami</i> <i>C. Madhusudhan Rao</i>	
A Comparative Study of Modern Object Detectors for Robust Apple Detection in Orchard Imagery	1846
<i>Mohammed Asad, Ajai Kumar Gautam, Priyanshu Dhiman, Rishi Raj Prajapati</i>	
Hybrid Convolutional and Bidirectional LSTM Network for Mental Health Severity Analysis	1854
<i>Ravita Chahar, Pankaj Kawadkar, Ashutosh Kumar Dubey</i>	
Task Specialized Bone Fracture Detection with Attention Models and Knowledge distillation	1860
<i>Sneha Sharma, Amey Ganesh Medewar, Niranjana Alase, Tarra Nikhitha</i>	

EfficientNet based Deep Learning Framework for Significant Classification and Early Detection of Skin Diseases	1867
<i>Subha S, Paranthaman M</i>	
Chronos-2 Inspired Cold-Start Weather Forecasting: A Transformer-based Approach for Limited Historical Data Scenarios	1874
<i>A. Akilandeswari</i>	
A Robust Deep Learning Framework for Automated Digital Image Forgery Detection Under Real-World Post-Processing Attacks	1881
<i>K. Lakshmi, Boya Uday Kumar, Karanam Venkata Raghava, Aashir Musaid Arcot, Boya Mallikarjuna Varikuntam Sravani</i>	
Bridging Accuracy and Interpretability in Deep Learning for Pancreatic Tumor Segmentation	1889
<i>Vaishnavi D, Savarna K, Sushmitha B, Sanjana M S, Akshaya Swati R, S. Anandaraj</i>	
Multi-Stage Mental Health Monitoring System using BERT-based Sentiment Analysis and AI-Driven Response Engine	1896
<i>Chettiyar Vani Vivekanand, Sakthi M S, Sanjay M</i>	
A Data-Driven Framework for Localized Water Scarcity Prediction and Adaptive Resource Planning	1901
<i>Chettiyar Vani Vivekanand, Krithika B, Nikilashree M</i>	
A Retrieval-Augmented Medical Chatbot for Evidence-based Clinical Question Answering	1909
<i>Chirag Beuria, Pranit Shaw, Mrinal Mohan, J.Shanthini</i>	
Enhancing Public Welfare Access Through an Intelligent AI-based Digital Assistant	1915
<i>Vinodh Kumar S, Sivathanu K P, Vishal P, Pravin P</i>	
AI-based Virtual Herbal Garden and Smart Cultivation Advisory System for Sustainable Farming	1921
<i>S.Suveda, S.Sunmathi, E.Hemalatha</i>	
Explainable Deep Learning for Real-Time eHealth Analytics in Edge-Cloud Environment	1927
<i>Konda Hari Krishna, Em Poorna Chandra, A Pujitha, B Vishnu Vardhan, B Yaswanth Prabhavathi Muneeswarla</i>	
Ensemble-based Predictive Analytics and Optimization for Multi-Resource Hospital Utilization During Pandemic	1933
<i>M. Jayasunitha, M S Anees Ahamed, S Kumar, P Lokesh, M Sivaji, O Uday Kiran</i>	
FinSight: Personal Financial Health Scoring and Advisory System using Machine Learning	1942
<i>Nilesh Mali, Sumit Patel, Varad Khandare, Yash Dhavde, Pratik Bhuvad</i>	
SmartFloor: AI-Powered Natural Language to 3D Architectural Visualization Framework	1950
<i>Donthamoni Jhansi, G. Balakrishna</i>	
SCANXPLOIT: Bridging the Gap in Security Assessments with Automated Penetration Testing using the IASE Framework	1958
<i>Pranav Ravichandran, Rithik Kumar R, Shanmuga Prabha P</i>	
TRIDENT-NET: A Multi-Stream Attention-based Hybrid Intrusion Detection Framework for Securing IoMT Networks	1966
<i>Parkavi S, Saravanan V, Sangeetha A, Abiramikayathiri S, Ramkumar M P, Emil Selvan G S R</i>	

Tree based Ensemble Methods for Pima Diabetes Prediction	1972
<i>B. Gopal Samy, R. Sethu Ritheesh, I. Raashibha Sherin, U. Nishanthini</i>	
AgriLeafNet: A Deep Learning Framework for Smart Leaf Disease Classification in Sustainable Agriculture	1977
<i>Md Shadaan Moin, Amogh Singh, Anna Anbumozhi</i>	
Artificial Intelligence Driven Data Visualization for Alzheimer's Disease Risk Analysis using Power BI	1985
<i>Rabia Khalid, Senthil Ramadoss, L. Annie Isabella, Magesh T, Devikala S, Shyam D</i>	
SoulSynth: Multimodal Emotion Recognition and secure Authentication for Mental Wellness	1991
<i>Lavanya K, Shanmadhi Rg, Nivethitha Devi M</i>	
VisionSpice: A Scalable Attention-Augmented Deep Learning Framework for Fine-Grained Indian Spice Classification	1997
<i>D. Viji, Sriram R, Meyyappan L</i>	
MindPulse: A Multimodal AI Framework for Early Detection of Mental Health Crisis in Young Adults	2003
<i>Abhishek Sriram, Ishwarya K</i>	
Aegis-ASD: A Forensic Honeypot Framework for Impersonation Detection using ArcFace	2011
<i>Saransh Singh, Bhupati Hemagirisai, Akshay Blahatia, Justina Michael J</i>	
Trust-AI: Explainable Machine Learning for Adaptive Financial Advisory	2017
<i>C. Balakumar, S Madhavan</i>	
Startup-Q: A Hybrid Quantum-Classical Framework for High-Fidelity Venture Capital Forecasting using ZZ-Feature Mapping	2023
<i>S Selvaraj, S Hemalatha, K Jothimani, M Yeshwanth, M K Swadhini, K Naren Karthick</i>	
Smart Parking Occupancy Prediction using Bidirectional LSTM and Real-Time Dashboard Visualization	2029
<i>Yuvaraja Mahesh, Vanita Jaitly</i>	
AMAC: An Adaptive Multimodal Framework for Dysarthric Speech Recognition and Interactive Rehabilitation	2035
<i>Tejasri S, Sharique Mukadam, Beaulah Jeyavathana R</i>	
Smart Conversational System for Air Pollution Awareness and Precaution Recommendation	2043
<i>Hema Malini A, Kalaivani C T, Archana T, Devan L, Lokeshwaran K</i>	
Ayush Medical Web Portal: A Platform for Secure and Integrated Traditional Healthcare Services	2049
<i>N. Gangatharan, Chahat Sharma. R</i>	
Employment of AI for Predicting the Quality of Stem Cells	2057
<i>G Alekya, Neeli Mahaboob Peera, Mary Posonia. A, Albert Mayan J, Bernatin T</i>	
DeepPark-Class: A Deep Learning Framework for Early Prediction and Stage Classification of Parkinson's Disease	2064
<i>Krishna Kumar Chaudhary, Pushkar Raj, Rudra Prasad Pati, Paurush Bhulania, Anupama Bhan Shubhra Dixit</i>	
DS-STAR: An Autonomous AI Agent for Automated Statistical Analysis, Visualization, and Data Wrangling	2069
<i>A. Akilandeswari</i>	

Human-in-the-Loop Automation Patterns for Financial Services using Camunda and Modern Java UIs	2074
<i>Sandeep Kumar</i>	