2024 8th International Conference on Electronics, Communication and Aerospace Technology (ICECA 2024)

Coimbatore, India
6-8 November 2024

Pages 1-835

IEEE

IEEE Catalog Number: CFP24J88-POD
ISBN: 979-8-3503-6791-1

Copyright © 2024 by the Institute of Electrical and Electronics Engineers, Inc.
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:	CFP24J88-POD
ISBN (Print-On-Demand):	979-8-3503-6791-1
ISBN (Online):	979-8-3503-6790-4

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

8th International Conference on Electronics, Communication and Aerospace Technology ICECA 2024

6-8, November 2024

Table of Contents

S. No	Paper Title/ Author Name	Page. No
1	A Cohesive Battery Management System and Charger Design for Prolonged Battery Life in Electrical Cars Dhineshkumar K, Mythili R,Seshasai CR, Midhun SK, Vijayaragavan T	1
2	Wind Energy Prediction on Future Aspect using XGBoost Time Series Model Suman Chowdhury, Apurba Kumar Saha, Dilip Kumar Das	7
3	Multiplier Free FIR Filter Design using Array Product Generator and Multiplexer G Prasanna Kumar, Md. Abdul Mujeer Mujaheed, K Srinivas	11
4	Detailed Analysis of Various Techniques Used for Fault Detection and Analysis in Multilevel Inverters based on Renewable Energy Sources N. Kavitha, N. P. G. Bhavani	17
5	Enhancing Circular Economy Models for Battery Material Recovery using IoT Data and AdaBoost Algorithm Chitra Sabapathy Ranganathan, Arshadh Ariff Mohamed Abuthahir Riazulhameed, S. Saravanan, N. Mohankumar, M. Rajmohan, S. Murugan	25
6	Design and Implementation of Model Predictive Control (MPC) for Multiple Input Multiple Output (MIMO) Systems: A Labview-based Approach for Quadruple Tank Systems M. Lavanya	31
7	Analysis and Estimation of Time and Sensitivity in Continuous Stirred Tank Reactor (CSTR) M. Lavanya	36
8	Electrooculography based Automated Wheel Chair for Paralysed Person M. Lavanya, Priya. R. A	40
9	UAV-based Solar Powered Animal and Human Health Monitoring and Tracking Vedha Pranava Mateti, Sri Chaithanya Mathi, Snehith Reddy Jambula, Sudha Yadav	44
10	Data Visualization of Total Harmonic Distortion Comparison of Cascaded H Bridge Multilevel Inverters N. Kavitha, N. P. G. Bhavani	51
11	Performance Evaluation of a High-Frequency PLL with a 20.70 GHz VCO and Low-Phase Noise S. Shiyamala, P. A. Priya	55
12	Smart Body Protection for Soldiers at Higher Altitudes Gadi Sree Krishna Sai siri, Jonnalagadda Vaishnavi, Msr. Vaagdevi, Sudha Yadav	60
13	Adaptive Voltage Regulation System with GSM Integration and Enhanced Disaster Mitigation Strategies A. Shanmugapriya, A. Sangeetha Devi, M. Gomathi, G. Kiruthika	68
14	Design and Evaluation of ECG Compression Techniques using FPGA Palagiri Veera Reddy, V. V. Satyanarayana Tallapragada	75
15	Enhanced 16x16 Dadda Multiplier using Kung-Brent Adder for Superior Parallel Processing Performance	80

	Karthigadevi K, Sakthimohan M, Tamilselvan S, Bhuvaneswari Thiyagaraja, Elizabeth Rani G, Sanjeevi Kumar V	
16	Impact of Perovskite Layer Thickness to the Optimal Efficiency During the Solar Cell Fabrication Simulated in SCAPS-1D Suman Chowdhury	86
17	EnsemBEP: A Robust Ensemble Model for Enhanced B-cell Epitope Prediction Karthiga M, Shiv Navin V B, Cibin Kumar R M, Sathiya B, Satheesh Kumar A, Priyanga M A	91
18	TSPC STC-DET Flip-Flop with Autogated Clock Gating for Low-Power Nazir Nadaf, Sonali Agrawal	98
19	Performance Characterization and Link Budget Analysis for DVB-S2/S2X Waveform Deepika Revankar Manjunath	104
20	Design and Implementation of Renewable Solar Energy in Smart Cities D. Priya Matharasi, V. Balaji, S. Nalini Jayanthi, R. Manimegalai, S Raja, Leema Nelson	109
21	Auto Track: A Web Platform to Manage servicing, Predict resell price and Optimize Vehicle Performance Prema Sahane, Yuvraj Chavan, Shruti Ashtagi, Akhilesh Avhad, Sujit Gaikwad	113
22	Design and Analysis of FinFET-based Carry Lookahead Adder using GDI Logic Sujit Suresh, M Sai Haasini, Shelja Kaushal	119
23	Empowering Tomorrow's Cities: Navigating Power Challenges through Deep Learning Solutions Priyadarsini K, Karthik S, Tamilarasi R	125
24	A Retrospective of Solar-Powered Charging Stations and E-Vehicles D. Kavitha, B. Sharmila, M. Siva Ramkumar, M. Sivaramkrishnan, M. Brindha	131
25	Contribution of Doping Concentration of the Perovskite Layer to the Optimization of Solar Cell Efficiency Suman Chowdhury, Dilip Kumar Das	136
26	Performance Enhancement of Solar Energy Prediction using Machine Learning Algorithms S. Gomathi, Carmel Mary Belinda M J, A. Gnanasoundari, R. Dhanalakshmi, S. Pushpa Latha, S. Padmakala	141
27	Enhanced Device Alert System using NodeMCU Kasiselvanathan M, Vijayakumar K, Vijay A, Bharanidharan G, Benedict Raj A, Hari Prasath K	146
28	Intelligent Document Interaction with Advanced Vector Embeddings and FAISS-CPU Indexing Sriman B, Annie Silviya S H, Mouleesh Y, Vinod S, Nishanthini S, Polimera Nikitha	150
29	Revolutionizing Visual Artistry: Exploring the Transformative Power of Computational Photography Annie Silviya S H, Sriman B, Sathish Kumar P, Adithyaa A, Satyanarayanaa H, Priyadharshini K	156
30	Deep Learning-based Image Processing for Early Detection of Stripe Rust in Wheat Crops using CNN Model G. S. Annie Grace Vimala, Arul Raj A.M, C. R. Bharathi	162
31	Design of AlGaN/GaN HEMT for Biomolecules Recognition P. Vimala, T. S. Arun Samuel, Rohith S V S, Sourabh Konkala, E. Muthu Kumaran, Nithin Kumar N. R	167

32	Innovative Meta Ring Array Antenna Design for Ka-Band: Utilization of Arlon Substrate for Enhanced Performance Jagan Mohan Rao Saride, S. Saranya, Raju Thommandru, R Saravanakumar, Puneet Narayan, Sathish M	171
33	Power Management Comparison in DC -DC Converters for Electric Vehicles S. Gomathi	178
34	Optimal Operation Modes for CF Massive MIMO Systems in Nakagami Fading Channels Gujjula Ramya, Puli Kishore Kumar, Santhosh Kumar Dhatrika	183
35	Transforming 2D to 3D Light: Bringing AutoCAD Drawings to Life with Dialux Shadows and Light Lalitha B, G. Ramya, S. Ravi, Jayant Giri, Mahmoud Odeh	189
36	Implementation of A High Speed Layout Parallel Prefix Adder for Design Applications D. V. N. Bharathi, Y. Varthamanan	194
37	Automatic Temperature Control in Calendering Process S. J. Suji Prasad, M. Thangatamilan, R. Sureshkumar, P. Jothi Rubini, G. Karun, R. Dhivaker	199
38	Performance Analysis of Floyd-Warshall Algorithm: Sequential and Parallel Execution using Intel oneAPI Sanjay Kumar, Karthik S, Srilakshmi S, Dharun Viginesh P	205
39	A Python Streamlit App for the Merec-Spotis MCDA Method: A Practical Use for Selecting Training Aircraft Celio Manso de Azevedo Junior, Tullio Pires, Bruce Engle Froes , Alessandro de Castro Correa, Carlos Francisco Simoes Gomes, Marcos dos Santos	212
40	A Review of Resource Allocation of OFDMA using LDPC Codes M Selvi, Sherya L K, Srinivasan E V, Devasrimathi E	219
41	Analysis of Performance Metrics in Dual Input Dual Output DC-DC Converters for Hydrogen-Powered Electric Vehicles Loksharan Meganathan, Mohamed Esha, Shubhi Shukla, Arockia Selvakumar Arockia Doss, Ramani Kannan, Md Mahmudul Hasan	226
42	FPGA-based OFDM Systems for 5G and High-Speed Communication: A Comprehensive Review Selvi M, Thirunambi V, Sriram R, Srinivasan E	232
43	Empowering Visual Interaction: Raspberry Pi 4 and OLED Displays for Dynamic Feedback Applications Sivakumar P, Vijay Radha Surya R, Reehan Fazil S, Subhiksha R, R. Hariharan, Ramesh A	238
44	Modeling Plant Health Monitoring Solutions for Farmers and Gardeners A V S S Sampath, G Meher Pranav, Saurabh Kiran Mahuli, V Kanapathi, Radha D	242
45	A Water Sprinkler-Based Automatic Cooling System in a Textile Company Deepa G, Keerthana S, Naveena A, Nakshathra N, Navin Udaya S S, Harini S	249
46	Warehouse Management in Chemical and Textile Industry using Internet of Things (IoT) And Radio Frequency Identification (RFID) Technology G. Deepa, Monisha. M, Men suba. U. S, Mathan. K. R, Karthick Priya. K. N, Janani. R	255
47	Machine Learning Enhancements for Electric Vehicles: Fault Detection through Deep Echo State Networks (ESN) Model Erdal Büyükbiçakci, Cahit Atli, Metin Dumanli, Selcuk Bulat, C Nithiya,	260

	Monika Gulati	
48	Autonomous Farming Robot for Precision Seed Sowing and Targeted Irrigation using Wireless Control Shilpa Lambor, Purva Sarvade, Ninad Kamat, Omkar Tongare, Rahul Lade	266
49	Development of a Flask-based Medication Management System using PostgreSQL: Integration with OpenFDA and Twilio API for Enhanced User Experience Kathula Hareesh, R. Sumathi, Kare Ganesh Varma, Kolipakula Varadhana Varshini, Kammanamala Harshitha, Immidichetty Soniesh	273
50	Comparative Analysis of High Stability Soft Error Aware 16T vs. 14T SRAM Cells Krishna R Marar, L S Krishna Maanas, Sonali Agrawal	280
51	Smart Air-Conditioner Monitoring by IoT Applications Mari Sekar B, Dheeraj M, Abishek T, Dinesh Kumar K, Adharsh R, Dinesh TC	286
52	Real-time Road Surface Assessment through IoT Data Analysis and Random Forest Ramakrishnan Raman, Shashikala Gurpur, Chitra Sabapathy Ranganathan, K E Narayana, Vipul Vekariya, S. Murugan	290
53	Creating Effective Communication Solutions for Hybrid Work Environments using Cisco Webex Sarath Kumar. C, Krithika. M	296
54	Wearable Health Monitoring Devices and Technology's Impact on Work-Life Balance for Women Seafarers Aarthi Suresh, Krithika. M	303
55	AI and IoT-assisted Water Quality Monitoring and Prediction Jenila C, Jeyaprakash Kadambarajan, Vidavalapati Harsha Vardhan, Sangati Vishnu Vardhan Reddy, Vishnumolakala Rama Krishna, Koppolu Vishnu Vardhan	309
56	IoT-Enabled Precision Irrigation for Coconut Plantations: Enhancing Growth and Sustainability M. Jaganmohan Reddy, V. Ramu, T. Grace Shalini, R. Vincysahaba, M. Devaki, A. Athiraja	315
57	Optimizing Predictive Maintenance in Smart Factories using Random Forests and Internet of Things Sensors Preethi. E, A. Sarfaraz Ahmed, G Shyamala, G Vasukidevi, Tummapudi Sunil, Athiraja Atheeswaran	321
58	A Novel Framework for AI-Driven, Cloud- Integrated Energy-Efficient IoT Solutions in Smart Homes Dankan Gowda V, Ratidev Samal, Premkumar Reddy, A. V. G. A. Marthanda, Ravikiran Kamath Billady, P. V. Rajlakshmi	327
59	Energy-Efficient Underwater Communication using Bio-Inspired Algorithms in Metaheuristic Optimization A. Kannappan, Nagesh Kolagani	333
60	Sustainable Aquaculture Management through IoT and Deep Learning-Driven Remote Monitoring D. Panduranga, R. Prashanth Kumar, More Swami Das, G. Narender, M. Sreelaxmi, N. Rajeswaran	338
61	Hybrid Deep Learning Architecture for Accurate Classification of Alzheimer'S Disease using MRI Images Nair Bini Balakrishnan, Anitha S Pillai, Jisha Jose Panackal	345
62	Enhancing Road Safety with Connected Internet of Things (IoT) based Vehicle Technology using Cooperative Hazard Awareness and Avoidance	352

	Scheme G. Ramkumar, M. Tamilselvi, Jayant Giri, Mohammad Kanan	
63	Analyzing Algorithms: A Comparative Study of Book Recommendation Systems L. Eswarsairam, K. Varun Kumar, Prajay Reddy, Kantipudi Sai Sri Rohith, Anjali, Abhishek	359
64	6G Enabled Healthcare -A Survey on Future of Intelligent Care System Rishab Mural, Roopa M, Shreenath, Jayashwin, Jenish Sriman	366
65	Approaches to Mapping and Zonation of Groundwater Potential Mapping through Multi-Agent Optimization in GIS Vidhya Lakshmi Sivakumar, Soundharyaa Shri Harini. R	370
66	The Future of Job Satisfaction in a Hyper- Connected World: AI and IoT Perspectives Ruby Bisht, Amit Kumar Uniyal	380
67	Improving Online Education in Educational Institutions through the Integration of Internet of Things (IoT) Kottaimalai Ramaraj, Ann Mathews, Lynsha Helena Pratheeba HP, U Ramani, K. L. Sujitha, Thilagaraj M	385
68	Enhancing Historical Data Preservation: A Robust Steganographic Framework with Steghide Integration S. B. L. S Mehar, Sudhanya Sanka, S. S. Likhitha Obbilisetty, Lohitha Rongala, Radhika Rani Chintala	392
69	Design and Implementation of a Protocol Conversion Unit for SPI to I2C Communication S Sasikumar, B. Aravind Balaji, N. Jaya Krishna, Sidda Reddy	399
70	Hybrid Deep Learning-based Localization for Energy-Efficient Wireless Sensor Networks in Indoor IoT Environments Burri Naresh, Ravikumar Ch, P Laxmi Prasanna, B. Sudha Madhuri, Satyanarayana Nimmala, Pilla Srinivas	407
71	Early Landslide Detection using Multi-Sensor Data and IoT- based Alert Mechanism Neha Rajas, Kalash Kandare, Ajay Bhadre, Ekant Talele, Aarti Gurav, Himanshu Wani	413
72	Enhancing Patient Care with Zigbee-based IoT Systems in Smart Homes P. Prince, C. Rajabhushanam, K. Sivaraman	420
73	IoT-based Posture Pro Safeguarding the Human Spine from the Onset of Hunchback in the Initial Stages D Sathish Kumar, G. Ramya, S. Ravi, Jayant Giri, Mahmoud Odeh	426
74	Manhole Detection and System Monitoring Controlled by IoT Vaishali. B Niranjane, Pornima Niranjane, Krushil.M. Punwatkar	430
75	Smart Cloud Monitoring: Optimising Server Loads for Reducing Energy Consumption Vignesh R, S. Thenmalar	434
76	Automated Fabric Width & Length Measurement using Proximity Sensor Grid in Textile Finishing using IIoT M. Thangatamilan, S. J. Suji Prasad, S. Jaisri, B. Harshini, K. S. Jayyent, V. Manimuthu	440
77	IoT-based Manhole Monitoring with Street Light Alerts for Urban Safety Kattamuru Krishna Koushik, T K Ramesh	446
78	Development of Airborne Particle Filtering System using IoT Mahesh N, Mrunalini T, Dhanush M, Davesh Prabu P, Janadharshini V, Ashok S	453
79	An Intelligent Robot for Environment Monitoring based on IoT K V S H Gayatri Sarman, Gosangi Sukanya, T. Srilatha, S V Kiranmayi	458

	Sridhara, B Srinivasa Seshagiri Rao, N. V. Phani Sai Kumar	
80	Smart Health Monitoring for Comatose Patients: Integrating IoT and Real-Time Alerts Thivyabrabha K, Saranya C, Aakash R, Abishek T, Mohamed Hussain S	462
81	An Analysis of IoT based Smart Garbage Level of Detection System Vinoth Kumar K, Selve Veerabathran, Achinth H S, Agratha N, Joel Prithviraj, Jaison, Shreya N, Yashawini B S	467
82	Enhancing High-Density Fish Farming in a Biofloc System Through IoT Driven Monitoring System Akash S, Sampurna Sahoo, Vijayalakshmi M	472
83	Comparative Image Analysis of Chest X-RAY Image Encryption using Symmetric and Asymmetric Key Encryption Algorithms Bhupathi Vishva Pavani, Challagulla Sai Bhumika, Dumpa Venkata Sai Jagadeesh, Kavitha C. R	478
84	Enhancing Medical Record Security: using Role-based Access Control, Digital Signatures, and RSA Encryption Aditya Vijjapu, Anusha P Alagawadi, Anish Maddi, Kavitha C.R	484
85	Role of Blockchain in Automation of Trending Industrial Technologies Anand Patel, Miral Patel	489
86	Enhancing Web Security with Two-Way Authenticated SSL Communication Akshith Kosanam, Neeharika Ayalasomayajula, G Vivek, Kavitha C.R	496
87	Detecting and Preventing VM-based and Mininet-based ARP Spoofing Attacks using Scapy T. Hemanth Babu, Vidula N. A, V. Gopi Kiran, Kavitha C. R	501
88	Comprehensive Survey of Blockchain Techniques, Applications and Challenges: An In-Depth Analysis Pratheeksha Hegde N, Sudeepa K B	508
89	End-To-End Encrypted Agriculture Chatbot Pennabadi Devendra Reddy, K Satya Sampath Reddy, P Jayanth, Kavitha C R	516
90	Enhancing Car Pooling Systems Transactions using Consortium Blockchain-based Randomized Integrity Distributed Exchange approach J. Wessly, R. Durga	522
91	Blockchain Secured Energy trading for Grid Connected Renewable Energy System Sudha Yadav, Anand R	528
92	Improving Single Image-based Face Morphing Attack Detection Rate with Image Pre-processing Chalini G R, K. V. Kanimozhi	535
93	Implementation of AES Cryptography to Smart Farming Data using IoT under Agile framework Akash Badhan, Simarjit Singh Malhi, Hassandeep Singh, Gurjot Kaur, Salil Bharany	541
94	Autism Detection using InceptionV3 and Security using Blockchain Annie Silviya S H, Seetha R, Raja S, Sriman B, Rupesh S, Gopala Krishnan J	547
95	A Robust Hand Gesture Recognition Model for Assistive Typing Systems using YOLO v8 B Nagavasista, M Vishnu Datta, A S Mounish, U Prachotan, Anjali T, S Abhishek	553
96	Comprehensive Analysis and Detection of Multi-Step Cyber Attacks: Insights from the Multi-Step Cyber-Attack Dataset	561

	Atul Kumar, Kalpna Guleria	
97	High Performance Secured Image Transmission System Employing OFDM and Cryptography Maheswari. S, S. Agnes Shifani	565
98	Security Issues on Forensics Applications by Dynamic Malware Injection - Review E. Yuvarani, P. M. Gomathi	573
99	Standard Image Encryption Strategies: A Comprehensive Overview Gandhimathinathan A, Tejashree K, Tamilmani A	580
100	Intrusion Detection System for Robot Operating System using Hybrid Deep Learning Vinayakumar Ravi	586
101	Enhancing Cyber-Physical System Security: A Novel Approach to Real-Time Cyber Attack Detection and Mitigation TVS Adinarayana, Somepalli Umamaheswararao, R. Santhi Sri, Sudhir Ponnapalli, Raghunadha Reddi Dornala	592
102	Development of Near-Field Sensor for Detection and Characterization of Ice in Aerospace A Rajesh, Abirami Karthikeyan, C. Manikandan, Prakriti Vandini, Ujjawal Prakash, Srihari Srinivasan	599
103	Revolutionizing Skin Disease Diagnosis: Advanced Image Analysis and Precision Healthcare using EfficientNet Veeramachaneni Bindu, Shanmuga Sundari M, Pranathi Pasupuleti, Ramjanbee Shaik, Jashritha Pochareddy	604
104	Quality Prediction of Fruits using Artificial Neural Network and its Application in Food Science Archana Saxena, Sandeep Kumar, Surabhi Saxena, Anant Deogaonkar, Arti Goyal, Shweta Goyal	609
105	Enhancing Visual Clarity via Color Model-based Histogram Equalization S. Kayalvizhi, P. Balaji, M. Mouleesh, D. Ajay, S. Mohanavengatesh, S. Balaji	615
106	Student Placement Prediction using Deep Learning Techniques T. Maragatham, P. Yuvarani, S. Harishri, R Swetha	620
107	Contrastive Representation Learning for Multimodal Single-Cell RNA-Seq Data Integration Vishnu Vardhan Kosuru, Sree Virajitha Ramaraju, Sri Harshitha Anatatmula, Anjali T	627
108	Renal Cell Carcinoma Classification: Deep Learning with MLflow, DVC, and AWS CI/CD Deployment Niveditha J, Supreeth S, Kirankumari Patil	634
109	Enhancing Bird Species Classification with PaliGemma and Custom EfficientNet Architectures Medhovarsh Bayyapureddi, Lakshmi Sri Harshitha, Anjali T	642
110	A Novel Method for Traffic Sign Detection using Advanced Image Processing Techniques A. Mary Jenifer, R. Balamanigandan	650
111	Automated Apple Wax Detection with Convolutional Neural Networks Sundravadivelu K, Dheenath S, Sakthimohan M, Elizabeth Rani G, M. Thenmozhi	656
112	A Flutter App for AI-based Plant Disease Detection Anandavalli R, Karthigadevi K, Elizabeth Rani G, Sakthimohan M, Srinivasagan G	661
113	A Dual-Dataset Study on Deep Learning-based Tropical Fruit	667

	Classification Khyathisree Yarra, S Lakshmi Vijetha, Vijetha Rudra, Banavathu Balunaik, Janjhyam Venkata Naga Ramesh, Vahiduddin Shariff	
114	The Development of a Machine Learning-based Diabetes Screening System Suraj Chaunal, Devendra Singh, Janmejay Pant, Vaibhav Kumar Sharma, Parthak Mehra, Jaishankar Bhatt	674
115	Visual Impairment Navigation: Real-Time Contour Mapping with 3D Spatial Audio Feedback R. Kanagaraj, Archit Agarwal, Archit Baurai, Devyansh Jain, Saptak Singha, Subhanshu Baliyan	678
116	Li- Ion Battery Life Cycle Estimation by KNN Algorithm M Sesharanjith, Vishaal Dharsan M, Sundaresh G, Darshan K, Arunkumar S	683
117	An Efficient Neuro-Fuzzy Classification System for Identifying Emotions Kavitha S, A Jaya Mabel Rani	687
118	Enhancing Cloud Security through Log Aggregation and Real-Time Alerts Gontla Venkat Sujan, Hothur Ranga Neha, Cheekati Mani Shankar, Kavitha C.R	692
119	IoT-Enabled Smart Recycling Vending Machine using Raspberry Pi for Waste Management B. Gopi, P. Dass, P. G. Kuppusamy, Anuradha Balasubramaniam, Madona B Sahaai	699
120	Real-time Agrochemical Management Solutions using Cloud Computing and K-Nearest Neighbors Algorithm Sivanesan T M, N. Mohankumar, N V Shibu, V. Nandagopal, B. Rajasekaran, S. Srinivasan	705
121	A Novel Approach to Predict Cardiovascular Disease with Extra Trees Classifiers and Particle Swarm Optimization G. Ezhilvani, G. Thailambal	711
122	Enhanced Early Identification of Autism Spectrum Disorder using Deep Learning and Advanced Machine Learning M. Vimaladevi, R. Thangamani, Padmapriya R, Rashmika K R, Rithik Chandrasekar	718
123	Deep Learning Approaches for Dog Breed Identification and Behaviour Analysis in Conversational AI Systems Vimaladevi M, Thangamani R, Suganth Krishna E, Naveen B, Srihari Prrasath A	727
124	Electric Vehicle Range Prediction using Random Forest Regression Sagar B S, Mothiram Rajasekaran, Sakthisaravanan B, R. Leela Jyothi, K. Lalitha, S. Murugan	734
125	Lung Cancer Detection: A Machine Learning Approach for Early Diagnosis Praveen Kumar Joshi, Rahul Prakash, Devendra Singh, Saurabh Dhanik, Abhishek Tamta, Vaibhav Kumar Sharma	741
126	Artificial Intelligence in Healthcare: Predicting AIDS Progression with Machine Learning Models Akshay Rajan, Gouri Santhosh, Balu Manoj, Nandana Manohar, Anjali T	747
127	A Dynamic Traffic Orchestration for Seamless Urban Mobility using Nexus Flow G. Sheeba, S. Jana	754
128	Simplifying Graph-Parallel Computation in Apache Spark with GraphX Lasya Vyakaranam, Ramakrishnan Raman, Harshal Shah, Nilamadhab Mishra, R. Meenakshi, S. Murugan	763

129	Enhancing Telecom Customer Loyalty through Churn Prediction Models A. Thanam, M. S. Malchijah Raj, M. Robinson Joel, P. Shanthakumar, J. Joel Jacson	770
130	Deep Learning based Approach for Cassava Leaf Disease Detection T Kalpana, R. Thamilselvan, K. Chitra, S. Kaviya, M. Kiruthiga, C. Mahesh	775
131	Brain Image Analysis for Alzheimer's Disease Detection using Ensemble Machine Learning Bingi Manorama Devi, D. Ganesh	779
132	Deep Learning Approach for Disease Detection in Sweet Lemon Leaves to Enhance Citrus Fruit Yield K. Rama Gangi Reddy, K. S. Thirunavukkarasu	786
133	Artificial Intelligence based Food Nutrients Recommendation System using Enhanced Customer Behavior Learning Approaches P. Jeyanthi, R. Durga	793
134	Customer Segmentation using Mini Batch K-Means Clustering Algorithm P.Sudarsanam, C Siva Balaji Yadav, P. Venkateswarlu Reddy, B. Navatha, S. Sathish, D. Ganesh	801
135	Enhancing Breast Cancer Diagnosis with Statistical Features using Support Vector Machines Nikita Sharma, Diya Dubey, S. Santhanalakshmi	806
136	Comparative Analysis of Various Deep Learning Techniques for Weed Detection in Corn Crops Jiya Jiveesha, Vinothini A	812
137	An Improved Diagnostic Approach for Classifying Tomato Leaf Diseases using Ensemble Deep Learning based Technique Salil Batra, Gouri Shankar Chakraborty, Joy Chakra Bortty, Sourav Das Polok, Tamjid Ahmed, Tanvir Ahmed Taki	820
138	Efficient Non-Local Similarity-based Image Dehazing: A Pixel-Level Approach for Enhanced Performance and Robustness A. Swetha Rani, Venkata Lakshmi Keerthi K, M. V. Nageswara Rao, G. V. Pradeep Kumar, V. V. Satyanarayana Tallapragada, Kuruma Purnima	826
139	Handling Depression: An In-depth Study on its Causes and Treatment through Novel Machine Learning Approaches N. Balakrishna, M. B. Mukesh Krishnan, D. Ganesh	830
140	Development of a Language Model to Enhance the Performance of Hindi Automatic Speech Recognition Dileep Kumar M J, Prabha Niranjan	836
141	ML-assisted Defect Detection in Power Line Insulators for Reducing Energy Wastage Jenila C, Jeya Prakash Kadambarajan, Kypu Nagendra Reddy, Pedda Pokala Murali, Diddukuru Muralidhar, Potlapati Naga Pavan Reddy	843
142	Emotion Prediction from Text and Multilingual Voice Inputs Jambula Snehith Reddy, Dev Aakarsh Surat, Pachila Shyamala, Syama S	850
143	Categorization and Recognition of Pest in Crops and Remedial Action for Smart Agriculture M. Gnana Prakash, D. Sungeetha	856
144	A Machine-Learning Approach to Detect Heart Disease Janmejay Pant, Devendra Singh, Vaibhav Sharma, Hitesh Kumar Pant, Jaishankar Bhatt	860
145	Enhancing Image Classification with Federated Learning through a Flower Simulation Study on the CIFAR100 Dataset A. Akilandeswari, M Ramamoorthy, D. Akila, A B. Hajira, S. Radhika, S. Chandramohan	864

146	Deep Learning based Detection and Delineation Sound in Smart City System D. Sungeetha, S Nanthini, R. Sivabalan, A. Gnana Soundari, N. Legapriyadharshini, Gnanajeyaraman Rajaram	870
147	A Comprehensive Analysis of Ovarian Cancer Utilizing SVMs and Artificial Neural Networks S. Gomathi, K. Bala Maheswari	874
148	Enhancing Participation in Women Employee Resource Groups through Virtual Reality and Augmented Reality Nandhini S, Krithika. M	880
149	Gender-Sensitive Healthcare Interfaces Development for Enhanced Patient Engagement Vencila Arvin Devadhas, Krithika. M	886
150	Deep Learning Empowered Natural Language Understanding Voicebot's for farmers: Kissan Samvaad initiative Jayalakshmi V, Deepa R, Ganesan R, Sriram N, Surendran R	892
151	Leveraging NLP and Quantum Computing for Advanced Agricultural Solutions Bhargavi G, Manisha Das, Banumathi S, Malarvizhi E, Surendran R	900
152	Hydroponic using Deep Water Culture for Lettuce Farming using Random Forest Compared with Decision Tree Algorithm Jegan D, Surendran R, Madhusundar N	907
153	An Intelligent Human Pose Detection Comparing with Random forest and Recurrent Neural Network Naveen Kumar R, Surendran R, Madhusundar N	915
154	Deep Learning based Recognition of Auto Covariance Signatures through Protein Interaction Model for Amino Acid Sequence Balamurugan K S, Geetha Rani K, Sadish Sendil M, Kumutha D, Surendran R	922
155	A Deep-Siamese CNN-based Approach for Identifying Mycosphaerella Coffeeicola Disease in Coffee Foliage Raveena Selvanarayanan, Surendran Rajendran, Venkatesh Jayaraman, Sathish Kumar P. J	928
156	Cultivating Success using CNN-Powered Precision Farming Gopalakrishnan S, Abinash M. J, Sornalakshmi M, Sunatha S, Ramalakshmi N, John Bosco M	936
157	Enhancing E-Commerce Security: A Machine Learning Framework for Fraud Detection K Varada Rajkumar, Obu Venkatesh Yadav, Srikanth Bhyrapuneni, M Vijaya sudha, D Ratnagiri, Krishna Kishore Thota	942
158	Edge based Device using Machine Learning for Water Quality Management in a Smart Campus M. Meenalochani, T. Hariharan, S. Vishnu Kumar	948
159	Enhanced Skin Lesion Diagnosis using a Deep Learning Techniques Sornalakshmi M, Elizabeth Rani. G, Sakthimohan M, M. Thenmozhi, Amuthaguka D, Sanjeevi Kumar V	953
160	Multicollinearity Least Square Recursive Optimized Deep Belief Network based Financial News Sentiment Classification for Stock Price Prediction Vinodhini H, Amuthaguka D	959
161	Effective Classification and Identification of Brain Tumors using Hybrid Model of ResNet and DenseNet N. Shyamala, S. MahaboobBasha	966
162	An Enhanced Product Quality Evaluation using Hybrid LSTM-FCNN Model and GWO Algorithm for Social Media Sentiment Analysis	972

	V. S. Raj Kumar, T. Kumaresan, P. Rajesh Kanna, S. Jagadeesan, P. Showmiya, P. Nithin	
163	Advancing Tomato Crop Health: A CNN Approach to Leaf Disease Detection Bhoomika, Goldy Verma	979
164	Automated Severity Assessment of Algal Leaf Spot in Guava using CNN and Logistic Regression Deepak Banerjee	984
165	Health Monitoring System using Ensemble based Learning Mechanism A. Srinivasa Reddy, G. Malleswari, R. Raja, A. Dinesh Kumar	990
166	Reinforcement Learning with Fuzzy Neural Network for Medical Data A. Srinivasa Reddy, R. Raja, G. Malleswari, A. Dinesh Kumar	995
167	Evolving Patterns: A CNN Approach to Butterfly Species Recognition Jashanpreet Kaur, Shalli Rani, Gurpreet Singh	1000
168	Analyzing and Classification of Heart Disease using VGG19 Elavarasi. C, M. Priya	1006
169	Deep Learning Algorithms in DNA Sequencing: Transforming Genetic Testing and Analysis V. Ramu, Nagendar Yamsani, M. Praveen Kumar, D. Ragunath, T. Venkata Deepthi, Arulraj S	1015
170	Evaluating the Performance of Deep Learning Models in Predicting Brain Ischemic Stroke Risk using EEG Signals N. Shyamala, S. Roji Marjorie	1022
171	Design of a Recommendation System for an Efficient and Optimized (RSU) Usage and Protect from External Influences J Chitra, PiramuPreethika S. K	1028
172	Ocular Disease Detection using Machine Learning Vaishali Bangera, Rajashree, Srilaxmi Raja Bhagawath, Srujana A Shetty, Spoorthi B	1033
173	Experimental Evaluation of Textile Cloth Defects based on Color and Texture Analysis by using Moderated Deep Learning Algorithm S. Agnes Shifani, Franklin Thamil Selvi M. S, M. Deepa Suresh, M. Paramaiyappan, Jayant Giri, Mohammad Omar Sabri	1037
174	Enhanced Rice Leaf Disease Detection using Densenet201 for Improved Classification Accuracy and Reduced Misclassification Error M. Tamilselvi, Nalini N, G. Ramkumar, Jayant Giri, Mohammad Kanan	1043
175	Deep Learning for Automated Air Quality Classification Using Image Data: A Comparative Study of GoogleNet and MobileNet Maanav Thalapilly, Ketone Agasti, Kisor G, Anjali T	1049
176	Enhancing Product Review System: Leveraging CUDA-BB Algorithm for Sentiment Classification S Ramanjaneyulu, BHVS Ramakrishnam Raju, D Rajya Lakshmi	1057
177	Cobb Angle Measurement using U-Net for Scoliosis Treatment Plans Arasa Kumar R, Monisha R, Kanagamalliga S, Manju Sri. A	1064
178	Detection of Autism Disorder using Machine Learning Techniques P. Aurchana, M. Sakthivel, A. V. Santhosh Babu, G Revathy	1069
179	Enhanced Detection of Brinjal Diseases using YOLOv8: A High-Accuracy Real-Time Model for Precision Agriculture Annevena Sandhya, Pottapinjara Babu, U. Mohan Srinivas, B. Sravanthi, KSV Phani Kumar, N. Rajeswaran	1075
180	A Pre-trained EfficientNetV2B0 Model for the Accurate classification of Fake and Real Images Gurpreet Singh, Kalpna Guleria, Shagun Sharma	1082
181	Advanced Bird Species Classification using Self- Attention and GAN-	1087

	based Data Augmentation on BIRDS 525 Dataset K Abhirami, S. Puvaneswari, R. Sugantha Lakshmi, D. Mangalambigai, G Revathy	
182	Problem-based UAV Design for Port Surveillance and Monitoring and Machine Learning for Detection and Identification of Vessels Prakhar Sethi, Nishtha Sharma, Aarav Shah, Palash Shah, Madhavan Shanmugavel, S. Vani	1091
183	Deep Learning-based Models for Apple Leaf Disease Diagnosis: Implementation and Comparative Performance Assessment Abhishek Parihar, Salil Batra, Makul Mahajan	1098
184	CNN and Logistic Regression Synergy: Advanced Methods for Casting Defect Prediction Shubham, Deepak Banerjee	1105
185	Hybrid Kalman Filter with Adaptive Motion Modelling for Video Stabilization Siva Ranjani C K, Mahaboob Basha S	1111
186	Video Stabilization using SURF-CNN for Surveillance Application Siva Ranjani C K, Mahaboob Basha S	1118
187	Brain Tumor Segmentation and Classification using Deep neural networks Saravanan Alagarsamy, V. Durgadevi, A. Shahina, L. S Anish, A. Kameshwar, Madeshwaran A	1124
188	Enhancing Chili Disease Detection: A Hybrid Deep Learning Approach with YOLOv5 Algorithm A. Aruna, Srinivas Bodduna, Gera Vijaya Nirmala, Venkateswarulu Naik. B, B. Shravan Kumar, G. Charles Babu	1130
189	Enhanced Dense Image Captioning based on Transformers Tilottama Goswami, Sathvika Potu, Kuntluri Prasanna Reddy, Veltoor Prashamsa, Kovvur Ram Mohan Rao, Mukesh Kumar Tripathi	1138
190	Flood Risk Assesment System using Logistic Regression P Manikandan, S Tanmaya Sai Vivek, M Thejaswi, B Tejaswini, Sykam Manoj, P Tejaswar Reddy	1145
191	Novel Gender and Age Prediction from Real Time Facial Images using Linear Regression Algorithm Nalini N, D. Ferlin Deva Shahila, A. Rosi, M. Tamilselvi, Jayant Giri, Alas Al Sherideh	1150
192	A Comparative Analysis with Various Machine Learning Algorithms for Prediction of Liver Cirrhosis Suman Chowdhury, Dilip Kumar Das	1154
193	Malicious URL Analysis using Machine Learning Algorithm Ashok Reddy Kandula, Konakalla Phaneendra Kumar, Arepalli Bhanu Prakash, Kolluri Sanjay Kumar	1160
194	Hybrid Deep Learning and Behavioral Analysis for Enhanced Malware Detection in Banking Kshatriya Vinaya Sree Bai, M. Thirumaran	1168
195	Detection of the Crown of Thorns starfish using Yolov5 Pankaj Kunekar, Pradnya Vishal Patil, Babeetta Bbhagat, Tejal H. Patil, Neha Rajas, Pratiksha Yuvraj Sawant	1174
196	Assistive Robotic Arm for Wheelchairs: Enhancing Daily Living for the Disabled Myreddy Kumar Durga Trinadh, Jambula Snehith Reddy, Yara Hemavardhan Ram, M. Nithya	1181
197	Automated Classification of Monkeypox Disease based on Deep Learning Deepa, P Rajalaxmi Shetty, Prajna S Shetty, S Namita, Sahana	1186
198	Walk Well: Smart Sensor based Wearable Leg Support Exoskeleton with	1191

	Fall Alert Aswathy N, Parvathy S Nair, Sonu Rajesh, Sreehari L, Vishal Vinod, Jarin T	
199	Deep Forest based EEG Signal Analysis and Classification Geetha R, D Jenila Rani	1198
200	Real-Time Air Quality Monitoring with Edge AI and Machine Learning Algorithm V. Ramu, Usikela Naresh, P. Arun Prakash, G Shyamala, P Saritha, Athiraja Atheeswaran	1204
201	PlantPulse: Intelligent CNN-based Analysis for Effective Maize Leaf Disease Detection Ruchika Bhuria, Sheifali Gupta	1210
202	Machine Learning Models in Bone Tumor Diagnosis: Performance Evaluation and Hyperparameter Optimization Ankita Sharma, Sonam Mittal	1215
203	Innovative Machine Learning Techniques for Accurate Detection of Bacterial Blight in Rice Agriculture Gurdeep Singh, Sonam Mittal	1221
204	Bridging Safety and Technology: Deep Learning Innovations in Automated Tire Evaluation Arpanpreet Kaur	1227
205	An Automated Cavity Level Prediction based on Dental Imaging Sensors by using Enhanced AI assisted Learning Principles S. Agnes Shifani, Franklin Thamil Selvi M. S, M. Deepa Suresh, M. Paramaiyappan, Jayant Giri, Mohammed Kannan	1233
206	An Intelligent Deep Learning Process to Predict Textile Industry Fabric Quality Evaluation using Artificial Intelligence Logic S. Agnes Shifani, M. Deepa Suresh, M. Paramaiyappan, Franklin Thamil Selvi M. S, Jayant Giri, Mohammad Kanan	1240
207	EcoLux: Revolutionizing Living Spaces with Smart Window Solution Amruta Amune, Rohit Rajendra Dhage, Sharvari Dhage, Tanuj Mahesh Somani, Mayur Bhivasen Rokade, Varun Mohan Rajguru	1247
208	Enhancing Tyre Quality Assessment with Cutting-Edge Classification Algorithms Preet Singh, Taniya Hasija, K. R. Ramkumar	1253
209	Vitamin Deficiency Identification using Image Processing Nivedita Shimbre, Prema Sahane, Sarim Ansari, Rutuja Gadhave, Sakshi Jagdhane, Ashutosh Sharma	1260
210	Comprehensive Review of Low-Power XOR-XNOR Circuits: Emerging Technologies and Future Directions Simran Khokha	1269
211	Artificial Intelligence based Facial Emotion Recognition with Deep Neural GAN Augmentation D. Menaka, D. Karthika Priya, C. Reeda Lenus, Ashwini A, P. Josephin Shermila, Banu Priya Prathaban	1275
212	Analysis of Various Hyperparameters for Predicting Hypertension using Machine Learning Algorithms Shallu Duggal, Shivani Sood, Amanpreet Singh, Harjeet Singh, Muthukumaran Malarvel	1280
213	Enhancement of Logistic Regression to Detect Breast Cancer using Cross Validation Vinod Jain	1288
214	Scaling Approach Over Learning Layer of Deep Learning Model to Reduce the FALSE Error in Binary Classification	1294

	S. Gokila, D. Helen, Asmarech Muluneh Alemu, N. V. Suresh	
215	Predicting Groundwater Quality with Advanced Deep Learning Models: Improving Environmental Management by Addressing Pollution Issues and Obtaining More Accurate Forecasts K. Selvakumarasamy, Mahaveerakannan R, D. N. S Ravi Kumar, Balamanigandan R, T. Rajesh Kumar	1301
216	Exploring the Landscape of Lung Diseases: A Comprehensive Literature Survey E. Soumya, S. Santhanalakshmi	1306
217	AI-Driven Quadrocopter Propeller Acoustic Health Monitoring based on Deep Learning Asif Ahmed, S. M. Rizwanur Rahman, Nur Mohammad Chowdhury, Md Jillur Rahman, Mohammed Fahim Uddin, Md Tanvir Rahman Khan	1313
218	An Analysis of the Use of Machine Learning to Enhance Online Digital Learning Pinaki Pratim Acharjya, Jayeeta Majumdar, Mihir Baran Bera, Subhabrata Barman, Jayashri Deb Sinha, Moumita Das	1319
219	A Comparative Analysis of Classification Algorithms for Hyperspectral Data in Plant Stress Detection S Poornima, Shirly Edward	1325
220	Blood Cancer Detection Leveraging Deep Learning Fusion Techniques: An Optimized Model Based on VGG16 and AlexNet Vikrant Aadiwal, Bhisham Sharma, D. P. Yadav	1332
221	Enhancing Handwritten Digit Recognition: Insights into CNN and RNN Applications Ashok Reddy Kandula, Abhinav Panchadi, Donthireddy Rushendra Reddy, Kavuluri Rohit, Adapa Sai Santosh	1338
222	Design and Implementation for Innovative Tourism Expert System based on Artificial Intelligence R. Prasanth, R. Anitha, T. Sarathamani, M. Manoj	1345
223	AI-driven Text Generation for News Articles using a Deep Learning BiLSTM Model C. N. Vanitha, P. Anusuya, M. Santhosh, S. Pradeesh Kumar, S. Karthick	1351
224	Fortifying Digital Security: A Machine Learning and Explainable AI Framework for Password Strength Assessment Kuthati Shreya, Lasya Priya Divakarla, Kanderi Johith Kumar, Vishwas H. N	1358
225	Enhancing Music Discovery: A Real-Time Recommendation System using Sentiment Analysis and Emotional Matching with Spotify Integration Carol Jeffri J A, Tamizhselvi A	1365
226	Design of a Hybrid AI- based Phishing Website Detection using LSTM, CNN, and Random Forest based Ensemble Learning Analysis Kavya S, Sumathi D	1374
227	Paddy Plant Disease Detection using Hybrid Deep Learning Algorithms R Suguna, S Deepa, T Kanimozhi, M Chandru, G Arun, Harshini M	1382
228	Stoic Wisdom Meets Modern AI: Leveraging Large Language Models for Philosophical Guidance Laxmipriya Samantaray, Siddharth Swarup Rautaray, Manjusha Pandey, Swagatika Dalai, P Aniket Patro, Aryan Singh	1387
229	Human Emotion Detection using Deep CNN Ishan Dixit, Chandra Prakash, G. Ramya, M. Dinesh, Jayant Giri, Ayman Amer	1391
230	Desktop Bot using Voice Recognition Sivaramakrishnan S, Aastha Bhardwaj, Abhinav Kumar	1396

231	Datasets for Aquaculture: A Deep Learning Perspective P. Kabitha, D. Usha Nandini	1403
232	Improving Surgical Security using Artificial Intelligence and Deep Learning Rakeem Shaikh, Daksh Gupta, Malini S	1412
233	Advancing Telecom Customer Churn using Deep Learning R. Seethalakshmi, B. Swarna Varsha	1420
234	Deep Learning-based Image Classification Framework for Rice Leaf Disease Detection: A Systematic Implementation Approach with Comparative Analysis Joy Chakra Bortty, Gouri Shankar Chakraborty, Tamjid Ahmed, Sourav Das Polok, Tanvir Ahmed Taki, Partha Saha	1428
235	Automated System for Saree Putta Cutting and Rolling using Image Processing Mouleeshuwarapprabu R, Mrunalini T, Kalavathi Devi T, Arunraj N, Gokul S, Madhuritha E	1435
236	Designing a Feature Selection Model to Enhance the Prediction of High-Risk Diabetic Patients using Machine Learning Techniques P Venkata Kishan Rao, Aarti, A Suresh Rao	1441
237	Fabric Defect Detection System for Textile Webmaterial using YOLOv8 on Raspberry Pi Venkatesan B, Indhu. N, Suji Prasad S J, Kadir Aaditya M, Aishwariya D, Gokul Sugumar	1448
238	Machine Learning Model using Tsetlin Machine to Predict HbA1c Levels in Homeopathy P. Venkadakrishnan, K. L. Babu	1454
239	Detection and Classification of Retinal Fundus in Diabetic Retinopathy using Modern Artificial Intelligence and Machine Learning Approaches Kuppala Saritha, Bingi Manorama Devi, Karuna Valisammagari, D. Ganesh	1461
240	NectarGuard: Enhancing Queen Bee Protection and Monitoring with MobileNet-SSD Sailaja K. L, Ramesh Kumar P, Kavya Bejawada, Sri Tarak Ram Bandlamudi	1467
241	Advancing Oral Disease Diagnosis with Deep Learning and DenseNet Architecture M. Vijayalakshmi, Sajal Tandon, Tanay Gupta, Sam T. James	1473
242	Prediction of Water Potability through Voting Classifier Ashok Reddy Kandula, Kancharla Sowmya Sri, Gudipudi Sumithra, Jangam Nikhitha, Kagitha Neelima Rani	1482
243	An Improved Churn Prediction Model using Relevance Feature Identification and Personalized Modeling Technique with Optimized Retention Strategies T. Pratheebha, S. Santhana Megala, V. Indumathi	1489
244	Optimizing Breast Cancer Detection with Histopathological Images: A Machine Learning and Deep Learning Approach Kalaiyarasi M, Karthikeyan S, Harikumar Rajaguru	1497
245	Ovarian Cancer Detection using Microarray gene data and Deep Learning Techniques Santhosh Kumar M, Kalaiyarasi M, HariKumar R, Saravanan R	1505
246	Design of a Drug Smart Traceability System in the Pharmaceutical Supply Chain using Dynamic Non-Fungible Tokens Asha Judi V, T. Sasikala	1511
247	AI-Powered Radiomics and Advanced Deep Learning for Precision Brain	1518

	Tumor Detection: A Next-Generation Approach Sattivada Dinesh Kumar, Dhruva R Rinku, N. Rajeswaran, Safari Bhaskar Rao, Krishnam Harinatha Reddy, Kanakaprabha S	
248	Classification of Brain Tumor Detection Techniques - A Review Selvi M, Gokul K, Dhivin D	1525
249	Integration of Convolutional Neural Networks for Real-Time Monitoring of Soil Health in Precision Agriculture Tummapudi Sunil, Krishnagandhi Pachiappan, S. Senthilrajan, Y. Nagendar, Renato R. Maaliw III, C. Pavin	1532
250	Vision based Intelligent Garbage Collection and Sorting System M. Lizzy Nesa Bagyam, S. Maheswari, S. Dharanya, K. Janani, V S. Merun Hrithik, S. Elango	1539
251	Classification of Brain Tumor based on Convolution Neural Network Mayank Srivastava, Adarsh Mishra, Pratibha Dixit	1546
252	Real-Time Water Quality Monitoring and Automated Disposal System for Process Industry Revathi P, Mrunalini T, Poorani M, Parvesh K, Yugal Kishore MS	1550
253	Advancements in AI-Based Crime Detection and Prediction E. Monika, T. Rajesh Kumar	1557
254	SVM-Driven Approach for Source Camera Identification C Anitha	1563
255	Big Data Analytics on Irritating Anxiety of Long COVID Vinumon Jacob, M. Prakash	1568
256	Classification of Different Stages of Eczema Disease using YOLOv8 Ezhilin Freeda S, Hariharan T, Dinesh R, Muthuaravind M	1575
257	Leveraging EfficientNetB3 for Automated Plant Stress Identification Dhruv Kumar Soni, Ashu Taneja	1580
258	Investigation on Nail Denting or Crumbling from Nail Psoriasis Patient Ailment Data using the Machine Learning Algorithm and Data Mining Techniques K. Janani, S. P. Santhoshkumar, D. Vikram, S. Priya, M. Vijayaraj, M. Priyanga	1585
259	Identity-based Security Enhancement in Cloud Computing: Deep Learning-Powered Threat Detection Framework M. Pradeep, G Anitha, N. Spandana Smile, S. Sathappan, N. Rajeswaran, Kanakaprabha S	1591
260	SafeRoute: Pioneering Online Ride Booking with Pega & ML-Powered Safety Measures D. Rajalakshmi, P. S. Immaculate, S. Senthil Pandi, A. Rehash Rushmi Pavitra, V. Vijayalakshmi, S. Sharanya	1597
261	Formal Verification of Clock Synchronization Algorithms for Aerospace Systems Ranjani Krishnan, Ashutosh Gupta, Nitin Chandrachoodan Lalithambika VR	1603
262	Intelligent Surveillance with Real Time Object Detection Coupled with Distance Estimation and Voice Alerts R. Srinivas, R. Sumathi, N. Mokshith, P. Somesh Kumar, P. Nithya Siva Sai	1609
263	Comparative Analysis of VGG16 and EfficientNetB3 for Age Group Classification: A Study on Transfer Learning with Limited Data S. Padmakala, Uma Maheswari S	1615
264	Deep Learning-based MRI Analysis for Brain Tumor Detection: Insights from ResNet and DenseNet Models S. Padmakala, Uma Maheswari S	1620

265	Enhancing Potato Plant Disease Detection using CNNs with Transfer Learning: A Robust AI-Driven Approach K. Little Flower, P. Siva Padmini, SK. Rabbani, Krishna Kishore Datti, P. Kannan, V. Vivekanandhan	1627
266	An Ensemble Model based on Deep Learning for Lung Disease Prediction using Chest X-Ray Images Sanchit Raj, J C Kavitha, Subitha D	1633
267	Epileptic Seizure Prediction through ML and DL Models: A Survey J. Viswanath, S. Annamalai, S. Ramesh	1641
268	A Comprehensive Survey of AI-Driven Biomedical Image Processing for Intracerebral Hemorrhage Detection and Classification: Current Trends, Challenges, and Future Directions P. Raguraman, M. Kumaresan, S. Ramesh	1649
269	Optimizing Chronic Kidney Disease Diagnosis: A Comprehensive Review of Metaheuristic Algorithms and Their Applications in Detection and Classification S. Manjula, Hema Rajini N, K Chokkanathan	1654
270	A Secure and Efficient Framework for Storing Medical Data using Blockchain and Cloud Servers Lakshmanan M, G.S. Anandha Mala, G. Sivakumar, Divya Sundar V S, Rupa Kesavan, Ajoe Sweetlin Jeena A	1661