2024 4th International Conference on Sustainable Expert Systems (ICSES 2024)

Kaski, Nepal
15-17 October 2024

Pages 1-629

IEEE Catalog Number: CFP24VS6-POD
ISBN: 979-8-3315-4037-1

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: CFP24VS6-POD
ISBN (Print-On-Demand): 979-8-3315-4037-1
ISBN (Online): 979-8-3315-4036-4

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

4th International Conference on Sustainable Expert Systems

ICSES 2024

15-17, October 2024

Table of Contents

S. No	Paper Title/ Author Name	Page. No
1	A Smart Waste Management System using ESP8266 S. Thangam, Gurupriya M, C. Sai Kushal Yadav, M. Harshith, M. Sunil kumar	1
2	Implementation of Signal Processing Approach for the Intensity Transformation in Autonomous Cars Mubeena Mirshad, Emmanuel Jose, Ansula Rose, Binish M. C	6
3	Analysis of EMG Parameters to Predict Fatigue during Exercise in Young Athletes Annapoorani CL, Jayasree T	12
4	128-bit LFSR-based Counter with Backward Carry Propagation Sushma R, Rashmi Seethur	20
5	Thermal Management for EV Batteries using Microcontroller Parveen Khatal, Krithika Patgar, Shrinidhi Shambhoji, Raksha Kulal, Shweta Koraddi	28
6	A Smart Fire Rescue Bot using Sensors and Arduino IDE Ranjitha R, Bindu N, Kruthika Y, Sathish K R, Joel B Melwin, Rashmi M	33
7	A Novel High speed 2-Step TDC-based All-Digital DLL for DDR SDRAM Applications Sachin, Santosh Kumar Gupta	38
8	Graph-informed Neural Networks with Green Anaconda Optimization Algorithm based on Automated Classification of Condition of Mental Health using Alpha Band EEG Signal Sumit Kushwaha, Sivakrishna Kondaveeti, S. Mary Vasanthi, Thamba Meshach W, D. Leela Rani, J. Megala	44
9	An Efficient Hybrid Red Panda Optimization-Similarity-Navigated Graph Neural Network with Blockchain Technology for Shared Electric Vehicle Charging Sammy. F, Rajeshwari S, Prashanth G K, Babu Thirumalaimuthu, Hemant Singh Pokhariya, Natrayan L	51
10	Smart Solar Water Pumping: ANN-Enhanced MPPT System for Optimized Performance T Logeswaran, V Surendar, S Kamesh, G Kamalesh, M P Kaviprasath, E Shree Hari	58
11	Autonomous Boat: Floating Trash Collector and Classifier Ranjeetsingh Suryawanshi, Sandip Waghchaure, Sujit Wagh, Viraj Jethliya, Vedant Sutar, Vaibhav Zendage	66
12	Exploring Performance Characteristics of Static and Dynamic CMOS Designs using Cadence Tools R. Rajalakshmi, P. Sivakumar, G. Subhashini, L. Krishna Kumari	71
13	Time Series Analysis by XGBoost Model for Future Prediction of Power Consumption Suman Chowdhury, Dilip Kumar Das	79
14	Design and Implementation of Smart Interface for Next-Gen Monitoring in EV's Kalyan Dusarlapudi, Oleti Maha Goutham, RaviTeja Kasukurthi, Myla Chethan Simha, Derangula Amarnadh, Kattupalli Sudhakar	84

15	Educational Intelligent Chat Bot for Von Willebrand Disease Among Senegalese People Keerthi Sai Akuthota, Kishor Kumar Reddy. C, Aashritha Reddy Kyatham, Amrutha Sriya Ganjam, Shugufta Fatima, Sai Vamshi Akuthota	90
16	Marker-based AR Application for Better Understanding of Electrical Circuits and Capacitors Kishan Poddar, Bhanu Sharma	96
17	Prediction of Stability of Real Time Network Control System for Pressure Process Station Devasena D, Dharshan Y, Nandhanaa S, Trinetraa K, Sherlin Lincy A	102
18	Webcam-Guided Rover Control for Medical Waste Transport Priyanka Banka, Vijaya Lakshmi Korupu, Chaitanya Varma Pakalapati, Anusha Korukonda, Bindu Nalluri	108
19	Multimodal Biometric Authentication System using ECG Signals and Fingerprints Suneetha Madduluri, T. Kishore Kumar	115
20	Low Power Linear Operational Transconductance Amplifier Ravi Ranjan Kumar, Gautam Rana	122
21	Communication Protocols for Electric Vehicles: A Comprehensive Analysis Zaheda Sultana, CH Hussaian Basha, Mohammed Mujahid Irfan	127
22	Renewable Energy Trends in Future Prospect Analyzed by XGBoost- A Time Series Analysis Suman Chowdhury, Dilip Kumar Das	134
23	Improving Grid Stability and Power Quality in Advanced Technologies-based Bidirectional EV Charging Stations: A Review Rajeshkumar Damodharan, Pradeepkumar Sivakumar	139
24	Enhancing User Experience and Mitigating BIAS in Electronic Device Recommendations on E-Commerce Platforms: Leveraging NLP and GPT Technologies Pavan Gunda, Thirupathi Rao Komati	149
25	Machine Learning-enabled Robotic Trash Collector Ruchi Choudhary, Rohit Jadhav, Hardik Rokde, Rohit Kalaskar, Bhargav Rokade, Shrey Rupnavar	157
26	Innovative Solar Ironing System: Combining Renewable Energy with Advanced Deep Learning Techniques P. Priyadharshini, X. Arogya Presskila, R. Santhana Krishnan, G. Vinoth Rajkumar, V. Vinoth Kumar, G. Rekha	164
27	Order Reduction of Autonomous Microgrids using Pade and Routh Approximation Dugganapalli Deepika, Polu Sainadh Reddy, Mardinapalli Madhu Charan, Veerpratap Meena, J Ramprabhakar, Jitendra Bahadur	171
28	Proposed IoT-based Smart Garbage Management System A. M. Pujar, K. R. Pardeshi, Tanishka A. Shah, Yash N. Shah, Mrudula N. Lokhande, Yash S. Pandhare	177
29	Human Safety using GPS and Geofencing K Suriyakrishnaan, Guttikonda Rishitha, N Geetha, K S Yamuna	183
30	Complete Plant Care Monitoring using Internet of Things (IoT) Arun Kumar Gajula, Vaibhava Praneeth Maringanti	188
31	Optimized Siamese Humboldt Squid Attention Network Architecture for Cyber-Attack Detection in IoT 4.0 M. Varusai Mohamed, Ankita Nainwal, Ayshwarya B, H S Kumar, Dhaval Rabadiya, Syed Noeman Taqui	197
32	Quaternion Generative Adversarial Networks for IoT based Chronic Kidney Disease Detection using Greylag Goose Optimization Algorithm	204

	Nazeer Shaik, Ankur Choudhary, Srichandana Abbineni, Vipul Vekariya, Harshal Patil, Ramya Maranan	
33	Smart Flood Detection and Communication in Hazardous Zones via MANET-based IoT and Parallely Distributed Slimmable Neural Networks V. Sathya, Shuchi Bhadula, R. Srinivasan, Bhargav H K, Bhavani Sankar Panda, Amit Barve	211
34	Quantized Wavelet Dilated Convolutional Neural Network based Intelligent Surveillance System for Public Safety in IoT Security Networks R. Sowmya, Ruchira Rawat, Dinesh Mishra, Mamtaben Kamleshbhai Megha, Monikaben Maheshbhai Patel, Sathish Kannan	218
35	Automated Heart Disease Diagnosis and Monitoring System using Similarity Navigated Graph Neura Networks with Leopard Seal Optimization in IoT Healthcare Applications V. Sripathi Raja, Ruchira Rawat, Karuna Pandit, Raghu Dhumpati, Vipul Vekariya, Vijitha S	225
36	Smart Cow Care: IoT-Driven Automatic Feeding and Temperature Control T. Logeswaran, Johinth P, Madhu Prasanth K V, Manivashagan A, Prem S, Suresh M	231
37	Smart Energy Optimization Harnessing IoT and Advanced Learning Techniques Liyon Raj S, Malleeshwaran T, Prasanna T, Alfred Daniel J	236
38	Analysis of Internet of Things based Medication Dispenser Reminder and Drug Expiration Health Monitoring and its Applications A. Nirmal Raj, G Santhosh Kumar, Vellayan Srinivasan, D. V. Lokeswar Reddy, B V. Febiyola Justin, R. Priyadharshini	241
39	Automatic Irrigation and Crop Monitoring using Machine Learning and Internet of Things Inderpreet Kaur, Snehal Pradeep Patil, Bhukya Shankar, G H Kerinab Beenu, G. Suresh Kumar, D. V. Lokeswar Reddy, G. Ramachandran	245
40	Predicting Cardiovascular Disease Through IoT and Deep Learning Methods Sakshi Shukla, S. Neduncheliyan	250
41	Analysis of Internet of Things Build Autonomous Crops the Sustainability Precision Agriculture A. Padma, M. Ganeshwar Rao, Swatmaram	256
42	Intelligent Inhalation Therapy for Cystic Fibrosis using IoT and Machine Learning Solutions Chitra Sabapathy Ranganathan, Arul Prasath A, Nandhini R, Kannan Shanmugam, S. Velmurugan, S. Srinivasan	260
43	Optimizing Hospital Stay Duration Prediction using IoT and Linear Regression Techniques D. Sethuraman, D. V. N. Bharathi, Aarthy. S. T, Boopathy K, M. Rajmohan, B Meenakshi	266
44	IoT and Cloud-based Solutions for Energy-Efficient Restroom Lighting Systems Kishore Varma. Manthena, Jothi. M, Visumathi J, N. Mohankumar, S. Maheshwari, S. Sujatha	273
45	Advancing Safety in Cooperative Vehicle Platooning through IoT Connectivity and Convolutional Neural Networks G. Brindha, Mothiram Rajasekaran, Venkatesh Kavididevi, J. Preetha, Yuvaraj S, S. Sujatha	279
46	IoT based Cloud Kitchen Optimization using Fuzzy Intelligence and Advanced Signal Processing Deepak Sharma, Himali Lakhera, Ishan Bakshi, Suresh Chauhan	285
47	IoT based Forest Monitoring to Detect Illegal Logging & Fire Risks Kavita Narendrabhai Parmar, Tejal Patel, Dhenuka Patel	292

48	SmartBin+: Elevating Responsible Waste Disposal with Rewards Slayde Sequeira, Chhand Chaughule, Aston Castelino, Janice DCruz, Kranti Wagle, Ashwini Pansare	296
49	IoT Enabled Waste Fire Pollution Mapping Sachin.S.Sawant, Vikram Jirgale, Jay Paunikar, Janhavi Deo, Mithil Jatkar, Jay Gautam, Sarvesh Jawale	305
50	Real-Time Traffic Flow Optimization using Adaptive IoT and Data Analytics: A Novel DeepStreamNet Model V. S. Saranya, Garimidi Subbarao, Dega Balakotaiah, Maloth Bhavsingh, K. Suresh Babu, Srinivasa Rao Dhanikonda	312
51	Advanced Process Control in Manufacturing using IoT Devices and Artificial Neural Networks V. Sumathi, Ramesh S, Chethan Chandra S Basavaraddi, Visumathi J, Ishwarya M. V, S. Srinivasan	321
52	Internet of Things (IoT) based BIOFLOC Technology Anika Tabassum, Md. Mushfiqul Islam Khan, Md. Yeard Morshed, Mohammad Rejwan Uddin, Mahady Hasan	327
53	Autonomous Vehicle Communication with Parrot- Optimized Orientation-Aware Graph Neural Network for Next-Generation IoT Connectivity Immaculate Mercy, Ankita Nainwal, Balasubramani R, Praful V. Nandankar, Swapnil Parikh, Syed Noeman Taqui	332
54	Smart Composting Solutions for Organic Waste Management and Soil Enrichment in Agriculture with IoT and Gradient Boosting Arshadh Ariff Mohamed Abuthahir, Chitra Sabapathy Ranganathan, Pramod Pandey, Sakthisaravanan B, K Sasikala, S. Murugan	339
55	Mac Address Spoofing and its Impact on Network Security Kumaran U, B. Umah, Neeharika Ayalasomayujala, Akshith Kosanam, G Vivek	346
56	Cloud-Connected Wearable Devices for Lone Worker Protection with Wireless Sensor Networks N. Mohankumar, K. K. Manivannan, A. Ramesh Babu, M Maria Sampoornam, Rajesh Kambattan Kovarasan, C. Srinivasan	351
57	Securing Mobile Adhoc Network with Quantum Key Distribution: An Experimental Analysis Sneha Thapa, Anjan Bandyopadhyay, Mahendra Kumar Gourisaria, Satyendr Singh, Sudhansu Shekhar Patra	357
58	A Comprehensive Survey on Anomaly Detection in Social Media Networks: Challenges, Methods, and Future Directions Sonali Lunawat, Jyoti Rao, Pramod Patil	363
59	Advancing Reversible Data Hiding using GAN-Enhanced Steganography and Cryptography Synergy Mathan Kumar S, Vinod Kumar D, Murali G, Arunkumar Madhuvappan C, Azhagiri. M, Vasanth T	371
60	Blockchain Technology for Safeguarding Against Counterfeits Nareddy Sudha Rani, Anoosha Kaleru, Rajesh Saturi, V. Sridhar Reddy, M. Venkateswara Rao, Swapna Saturi	376
61	Secured Digital and QR Code Payments: A Comparative Analysis of Payment Models Bhavna Galhotra, Shalini Bhaskar Bajaj, Aman Jatain, Vivek Jaglan	382
62	Enhancing Trajectory Data Privacy through Information Gain-Fused Semantic Generalization Haohua Qing, Roliana Ibrahim, Hui Wen Nies	392
63	A Comprehensive Exploration of Data Security Techniques using Image Steganography Vishakha Singh, Manasi Sharma, Anushka Shirode, Sanjay Mirchandani	396

64	Artificial Intelligence Based Fraud Detection, Data Security and Privacy for Telecommunication Systems K. Prabhu Rajasekar, D. Vezhaventhan	402
65	Securing the Ballot: Ganache's Role in Modernizing E-Voting Garima Mathur, Pushpraj Singh Chauhan, Pankaj Savita, Shivratan Gupta, Priyanka Jain	407
66	Flexible and Secure EV Charging System using Blockchain Technology with Namib Beetle Optimization and Continual Spatio-Temporal Graph Convolutional Networks Rajanish Kumar Kaushal, G Shashibhushan, Hemantha C, Pandeeswaran Chellaiah, Dibyhash Bordoloi, Natrayan L	414
67	Hybrid Quantum Classical Convolutional Neural Network with Spider WASP Optimizer for Enhanced Data Security in Cloud Environments Monika Sharma, Manju Sharma, Neerav Sharma	421
68	Intelligent Cyber-Physical Systems: Integrating Machine Learning and Federated Learning for Enhanced Performance Prajwal Deore, Praneeth Reddy Mallupalli, Jyoti Parashar, Shubham Rajendra Ekatpure, Varun D, Virendra Singh Kushwah	428
69	Detecting Fake News on Social Networks: A Naive Bayes Approach to Enhance Information Trustworthiness S. Abirami, D. Amuthaguka	435
70	Regulatory Compliance and User Trust: Balancing Innovation and Security in AI-Driven Online Payment Systems Ayushi, Vidushi Dubey, Bhavna Galhotra	442
71	Enhancing Credit Card Fraud Detection: A Comparative Analysis of Machine Learning Models Mohit Beri, Kanwarpartap Singh Gill, Neha Sharma	449
72	Network Security Attack Detection using Machine Learning Algorithms Atul Kumar, Kalpna Guleria	455
73	Integrating Safety and Security in Autonomous Vehicles: A Comprehensive Review Simran Khokha	460
74	Enhanced UAV Delivery System with Image-based Authentication Sri Chaithanya Mathi, Snehith Reddy Jambula, Sai Nadh Reddy Polu, Sudha Yadav, M Nithya	465
75	Secure and Transparent Client Fund Collection Protocol Enabled by Blockchain L Sherin Beevi, Joe Prathap P. M, W Vinil Dani, Abinaya Lakshmi BG, GurramRenuka Chowdary, Hema Devi	473
76	Building a Secure and Scalable Finance Chatbot: Client-Server Architecture, Load Balancing, and TLS Security T. Anisha Reddy, S Akhilesh, Sodum Manogna, Sreebha Bhaskaran, Kavitha C. R	478
77	Phishing Attack Prediction using Several Machine Learning Techniques A. Krishnaveni, S. Balamurugan	484
78	Blockchain-Enabled Fair Profit and Transparent Supply Chain Platform for Small-Scale Farmers: A Case for Agricultural Transformation. Bhuvaneswari M, Srija Pal, Aman Kumar	490
79	Unlocking Blockchain: The Technology Set to Revolutionize Transactions, Security, and Industry Gunjan keshtwal, Rafia Abbasi, Rahul Chauhan, Ruchira Rawat	496
80	Security Issues and Solutions in Government to Citizens (G2C) Services – A Detailed Review Ganesh Bahadur Sunam, Subarna Shakya	502

81	Influence of COVID-19 in Tourism: A Sentiment Analysis of Twitter Data T. Kumaravel, C. Nallusamy, P. Natesan, K. S. Nagul, A. M. Naveen, A. Sakthisundaram	508
82	Analysis of Neural Machine Translation for English to Hindi using Long Short-Term Memory Model and Transformer Model Rashmi Naveen, Archana Praveen Kumar	515
83	Simhasth 2016 Feedback Dataset: A Domain Specific Sentiment Analysis Dataset and its Baseline Evaluation Pravin Karma, Vaibhav Jain	521
84	A Word Segmentation Approach for Code-Mixed Handwritten Text Mamta, Gurpreet Singh	526
85	Enhanced Cloud Intrusion Detection using Support Vector Machines R Hari Krishna, B Selvapriya	533
86	Tomato TriSort: Smart Sorting System for Size, Color, and Pest Detection Amruta Amune, Satyajit Shinde, Aditi Samargade, Shraddha Suryawanshi, Shrihari Suryawanshi, Yash Shirsat	539
87	Cloud-Enabled Patient Acuity Prediction Utilizing Decision Trees in Smart ICU Nurse Assignment Systems Arul Prasath A, S. Saravanan, Monikapreethi S K, G. Brindha, S. Maheshwari, C. Srinivasan	546
88	Extractive Multi-Document Summarization using Transformer-based Neural Networks Sunilkumar Ketineni, J Sheela	551
89	Optimizing Resource Allocation using Metaheuristic Approach for Load Balancing in Cloud Computing Manisha Thakur, Susheela Hooda, Rupali Gill	559
90	Intelligent Performance Enhancement of Sentiment Analysis for Social Data Collection in Big Data Management Hulin Jin, Zhiran Jin, Yong-Guk Kim, Guangxun Wang	565
91	ML based Text Summarization for Sentiment Analysis in Information Retrieval using Feature Engineering Shirley C P, Berin Jeba Jingle I, Venkatesan R, Tamilarasan R, Yashvanth Ram R V, Joyce Beryl Princess P	571
92	“Questomatic”: Automated Question Formulation System Pranita Jadhav, Suyog Deore, Shubham Aute, Rohit Gaikwad, Sapana Barphe, Ektaa Meshram	577
93	Collaborative Search with Knowledge Sharing and Summarization Venkateshwaran Mohan, Sivaganesan D, Balasubramaniam S, Vikhas S G, Dhinesh SP	582
94	Cloud-based AI Solutions for Early Wound Infection Detection and Treatment Recommendations Mothiram Rajasekaran, Chitra Sabapathy Ranganathan, G Manikandan, G Bhuvaneswari, T. R. GaneshBabu, M. Rajmohan	591
95	Cloud-Powered Neural Networks for Sustainable Fishing Practices and Stock Management System M. Xavier Suresh, Prathik A, V. Arun, R. Venugopal, T. R. GaneshBabu, M. Muthulekshmi	597
96	Homophily and Sentiment Analysis for Political Issues Related Discussions in Twitter Sarthavi Parmar, Pratik Patel, Yassir Farooqui	604
97	Enhancing Natural Language Processing: A Comprehensive Review of Retrieval Augmented Generation Aniket K Shahade, Priyanka V Deshmukh	609

98	Enhancing Communication and Data Transmission Security in RAG using Large Language Models Venkata Gummadi, Pamula Udayaraju, Venkata Rahul Sarabu, Chaitanya Ravulu, Dhanunjay Reddy Seelam, S. Venkataramana	612
99	Revolutionizing Design and Execution for Residential Construction through Virtual Reality Vidhya Lakshmi Sivakumar, Mohammed Ashick, R. Pamila	618
100	Design of a Floating-Point ALU for Calculating Shortest Distance between Two Floating Point Numbers Anita B. Agrawal, Amar Biswas, Shruti Singh, Sayan Neogy	624
101	High Performance Cloud Ready Parallel Batch Processing using Auto Scaling Containers and Queue Technique Anandhan Selvaraj	630
102	Optimizing Feature Selection Process through Variation Inflation Factor for Air Pollution Analysis R. V. S Lalitha, Challapalli Sujana, N. V. Lalitha, Rayavarapu Sridivya, M. Anil Kumar, D. V. Manjula	640
103	Designing an Enhanced MobileNet Integrated Architecture with Optimization for Accurate Detection of ASD using Extracted Facial Features Jagadesh Balasubramani, Surendran R	645
104	Depth Wise Separable Convolutional Neural Network with Context Axial Reverse Attention based Sentiment Analysis on Movie Reviews Akanksha Kapruwan, Pooja Pandey, Abhinav Priyadarshi Tripathi, Pankaj Dhaundiyal, Harshal Patil, Ramya Maranan	651
105	A Multifaceted Approach to Lung Cancer Diagnosis using Machine Learning Techniques Ongolu Bindu Sri Sai, Dosapati Vighnesh, Nalliboina Naga Varshitha, Panidapu Nandhini, Iwin Thanakumar Joseph S	658
106	Developing a Diabetes Prediction Decision Support System with Machine Learning Chilukuri Rajitha, Pappula Praveen	664
107	An Intensive Review on Deep Learning Approaches In Non-Invasive Fetal Healthcare Monitoring Harismithaa. LR, G. Sudha Sadasivam	670
108	Emotion Recognition through Speech using Deep Learning K Ananya, Priyanshi Sharma, Chenna Vanshika, C. Fancy	677
109	Optimizing Predictive Maintenance in Mechanical Engineering: AI and ML for Lathe Machines Kavekar Mukund, Thokal Gajanan, Tambuskar Dhanraj	682
110	Enhancing Three-Dimensional Human Digitization using Multi-Layer Pixel Alignment for High-Resolution Imaging E. Sujatha, S. Pradeesh Kumar	689
111	AI-Driven Mentor Service Advising Application for Timely Course Completion using RNN/LSTM Sumathy K, Surendran R, Maha Sweta Sathiamurthy	694
112	Comparative Analysis of Eminent Algorithms for Detecting Ham and Spam Contents in OSN Kardeepa Ponnuchamy, N. Subbulakshmi	702
113	Classification of Hidden Patterns in Cancer Genome using Deep Learning Balamurugan K S, Sundara Rajulu Navaneethakrishnan, Senduru Srinivasulu, Kumutha D, Surendran R, Kalyani G	710
114	Applications of Machine Learning in Detecting Unethical Sources of Raw Materials in Supply Chains in the Cosmetic Industry	716

	Khush Sanghavi, Heet Mehta, Geet Pawade, Malhar Konde, Shreyansh Singh, Seetha. R	
115	Transforming Checkpoints Experiences: Efficient Check-in and Check-out with Automatic Number Plate Recognition and Mobile App Integration D. R. Ingle, Rahul Pathania, Anurag Kumar, Hemant Gaikwad, Yusuf Fasahte	721
116	Enhancing Liver Cancer Detection with AI-Powered Image Processing A. Suresh Kumar, S. Rajathi, Vineetha Vargheese, M. Sudha, Anju A, P. Lokeshkiran	729
117	Smart Agricultural System using Machine Learning to Predict Rainfall and Conserve Water for Irrigation Poojasri S, Karuppusamy S, Loganathan R, Jelin Praisy J, Gerardine Immaculate Mary, Anitha Julian	734
118	Advancements in Artificial Intelligence-based Alzheimer's Disease Classification using Magnetic Resonance Imaging: A Comprehensive Review Nisha A V, M Pallikonda Rajasekaran, S K Rajeev, Akhil Wilson, Salman Sunil, Soorya M	742
119	Hybrid Deep Learning Methodology for the Detection of Lung Cancer: A Four-Step Methodology Koteswara Rao Kokkila Gadda, Lalitha Kumari Pappala	750
120	Corn Plant Disease Detection at Initial Stage using Deep Learning Models Pushpa B R, Yogesh B M, Subhash K B	756
121	Levelwise Degradation Classification of Ancient Stone Inscription Images using MobileNetV2: A Deep Learning Approach Bipin Nair B J, Veiyo P Mwatihanye, Akhil S	764
122	Detecting Drowsy Driving Through Eye Closure and Yawning: Azure Custom Vision System Kothai G, Pandiya Rajan G, Deepak Kumar R, Nimalan P	771
123	An Application of Deep Learning Techniques in Trajectory Planning of Autonomous Vehicles Jagadeeshwar Podishetti, Sridhar Chintala, Srihari Gude	776
124	Comprehensive Analysis of Autism Spectrum Disorder Detection using Deep Learning E. Sujatha, R. Suguna Devi, D. Pavai, K. Saranya	781
125	Improving Healthcare with Machine Learning and Deep Learning Kothai G, George princess T, Nandhagopal Subramani, Balakrishnan D, Ravi P, S. Amutha	786
126	Predictive Analysis for Multiple Disease Identification using Machine Learning A. Mohamed Musharuf, M. Vijay Anand	790
127	Artistic Fusion: AI Powered Artistry for Story Boarding Bhuvaneshwaran A, Kavya P, Dhaksana N, Amuthaguka D, Eraianbu R, Agilan S	795
128	Natural Language Processing (NLP) based Phonetic Insights for Improving Voice Recognition and Synthesis Priyadharshini N, Subbulakshmi N	801
129	Design of Error-Resilient Approximate Multiplier for Image Processing Applications Lohitharadhya R S, Tejashree Suryavamshi, Rashmi Seethur	807
130	Blood Cell Classification and Counting in Hematology through Deep Learning P. Ananthi, K Nirmala Devi, T. E. Ramya, P. Shanmugapriya, T. Aradhya	813
131	Colour Recognition using CLAHE Algorithm Muthyala. Sai Charan, K. Sudha rani	820
132	Comparative Evaluation of Post-Hoc Explainability Methods in AI: LIME, SHAP, and Grad-CAM Jeet Narkhede	826

133	Fingerprint Image Enhancement: Multi-Filter Approaches and Stage Timing Evaluation Neeraj Bhargava, Pramod Singh Rathore, Ankur Goswami, Kapil Chauhan, Suresh Choudhary	831
134	MediExchange: A Smart Web Portal to Buy and Sell Unused Medicines Vikas Nandeshwar, Shreya Shelke, Manas Shende, Vedant Shelke, Parag Shende, Rohan Shelke	839
135	A Novel Approach using Machine Learning and NLP for Revolutionizing Pali Manuscript Conservation Sangita R. Gudadhe, Aashish A. Bardekar, Amitkumar B. Ranit	844
136	Smart Walking Assistance for Visually Impaired People R. K. Ragavapriya, T. Abishek, V. Arunprasad, Ashwathi. R, S. Boomitha, C. Gayathri	849
137	Health Genie: An AI-Powered Platform for Personalized Healthcare and Illness Prediction Jyotsna Vilas Barpute, Shubhangi Suryawanshi, Vanita G. Kshirsagar, Digvijay G. Bhosale, Pramod Patil, Zuber Khan	855
138	Advancements and Trends in Student Prediction and Course Recommender Systems: A Review Syed Aamer Hashmi, Yashpal Singh, Harshit Bhardwaj	859
139	AwGhO_Res_Trans: Adaptive Weighting Grasshopper Optimization-based Residual Transformer for Autism Detection Jagadesh Balasubramani, Surendran R	866
140	Brain Stroke Prediction using Logistic Regression with Logarithmic Transform Ranjeetsingh Suryawanshi, Vedant Kulkarni, Prajwal Ghule, Krushna Patil, Hemashri Patil, Yash Manala	873
141	Heart Disease Prediction: Hyper Parameter Tuning based Ensemble Learning and Voting Classifiers Approach Shunmuga Priya S, Amuthaguka D	878
142	Enhancing Retail Sales Forecasting with Optimized Machine Learning Models Priyam Ganguly, Isha Mukherjee	884
143	An Implementation of Web Scraping IMDB Website Sumathi Pawar, Vandana B S, Geetha Laxmi, Vasanth Nayak	890
144	Artificial Intelligence of Sustainability and Internet of things Industry 4.0 Automation Applications Thiagarajan Kittappa, P. Priyadarsini, R. Muzhumathi, Malleswari Akurati, R. Sakthiganapathy, G. Ramachandran	898
145	A Study on Large Language Models in Multi Modal Learning Vinay Palakonda, Adharapurapu V S M Ashok Kumar, Duggirala Akshay Wesly, Satti Hemanth Krishna Reddy, Tatavarthy Santhi Sri	902
146	A CNN Centric Approach to Acute Lymphoblastic Luekemia Detection Mouna Suma Mandava, Divya Poojitha Macha, Haswanth Krishna Chundi, Bulla Sujitha	906
147	A Study of Machine Learning Techniques for Predictive Analysis of Suicidal Tendency Across Different Age Groups Md. Thoufiq Zumma, Md. Anikur Rahaman, Mohammad Abdul Muneem, Obyed Ullah Khan, Nuzhat Noor Islam Prova	912
148	Enhanced Breast Cancer Relapse Prediction using Ensemble Learning Techniques Mukesh Kumar Tripathi, Meka Ananya, V. N. L. N Murthy, Tumma Shashank, Jale Subash Reddy, Kaushal Attaluri	918
149	Enhancing Accuracy in Image Recognition for Deep Faked Images using Convolutional Networks Compared with Decision Tree Algorithm Chanakya A. S, Surendran. R, Sumathy Krishnan	924

150	A Novel Hybrid Control Strategy for Power Management in a Grid Interactive Distributed Generation Nayana Shetty, Ashwini Kumari. P, Deepa K. R, Divya Shetty	932
151	Image Enhancement using Color Balance and Contrast Limited Adaptive Histogram Equalization Laldinpuii Colney, Sandeep Kumar, Arathy Rajeev	937
152	Novel Deep Learning Approaches for Automated Taxonomic Identification of Plant Species of the Western Ghats Region A. M. Bojamma, Chandrasekar B. S	942
153	From Queue to Score: Enhancing Effective Organ Allocation using Machine Learning Anish Paulose P, Sanjoay saravanan, Sofia Vincent, P. Raman, V. G. Murugan	948
154	An Analysis of Different YOLO Models for Real-Time Object Detection Sawari Jamgaonkar, Jay Shyam Gowda, Siddharth Singh Chouhan, Rajneesh Kumar Patel, Ankur Pandey	951
155	Efficient Distribution Automation Information Integration Platform Li Ping ZHAO, Li HE, Chao ZHANG, Zhuang HOU	956
156	AI-Enabled Real-Time Vehicle Tracking Model with Mobile Apps Hulin Jin, Zhiran Jin, Yong-Guk Kim	962
157	Artificial Intelligence for Climate Sustainability: A Comprehensive Review of Applications, Challenges, and Future Prospects Parameshwari M, Gnaneswari Gnanaguru	968
158	Dental Cavity Detection using U-Net Architecture Litty Koshy, Alphy Benny	977
159	Deep Belief Network-based Decentralized Secure, Lightweight Data Auditing Scheme for Streaming Outsourcing Data Kirubanandham K, Suriyaprakash S, Sabareeswaran G, Sanjay P, Shalini A	983
160	Naive Bayes-based Autonomous Illumination System for Urban Green Spaces with Cloud Assistance M Tamilselvi, A. Neelima, J. Jegan Amarnath, K. Lalitha, E. N. Ganesh, Thamizhamuthu R	988
161	Generative Adversarial Networks and their variants for Precise Fruit Recognition Rohini Mano Desai, Varsha Yogesh Bhole, Manoj M. Deshpande	994
162	A Hybrid Approach to Optimal Power Allocation in MIMO-NOMA: Integrating DGNN and Tyrannosaurus Optimization Anurag Vijay Agrawal, A. Anuradha, Kranti D Patil, Vilaskumar Patil, K. Karthikumar, S V V Satyanarayana Tallapragada	999
163	Enhanced Condition Monitoring of Low Voltage Motors in Harsh Environments with Ladybug Beetle Optimization and Context-Aware Graph Convolutional Networks P. Rajasekar, Praveen Prakash Tiwari, L. Sharmila, Akriti Garg, Rayudu Srinivas, V, V Satyanarayana Tallapragada	1006
164	Fault Detection in Solar Power System with Internet of Things using Multi resolution Sinusoidal Neural Network - Snow Geese Optimization Approach Pramod Kumar, K. E. Purushothaman, Arunmozhi R V, Jayachitra S, D. Leela Rani, S. Kaliappan	1013
165	Optimized Attention with Sparse Graph Convolutional Network based Tumor Segmentation using Field Programmable Gated Array Vaithianathan V, S. Nagarani, R. Rajalakshmi, Shyamprakash. D, G. Aparna, S. Rajavelu	1020
166	An Optimized Equivariant Quantum Network for Ingenious Building Monitoring and Control using an Android Application	1027

	S Tulasi Prasad, Sarishma, G. Sunitha Rekha, Daxa Vekariya, Harshal Patil, Ramya Maranan	
167	Navigating the Dark: Advances in Robotic Night Patrol with D-block Mask Electric eel Dense Nested R-CNN for Enhanced Safety V. Vinay Kumar, Manish Shrimali, Nazeer Shaik, Ranjitha K N, Neha Garg, Ramya Maranan	1034
168	Integrating Quantum Principles with Classical Transfer Learning Approaches for Pneumonia Detection from Chest Radiographs Biswaraj Baral, Taposh Dutta Roy	1042
169	Temperature Variation Modelling in Mushroom Growing Hall with IAN-Bidirectional GRU Model D. Kalpanadevi, S. Nandhini devi, Silas Stephen D, Sunita Jadhav, P M D Ali Khan, Muralidharan J	1050
170	A Comparative Analysis on a Diabetic Disease Prediction Considering Various Machine Learning Algorithms Dilip Kumar Das, Suman Chowdhury, Mohammed Motaher Hossain	1056
171	Academic Performance Analysis of the Students with Feature Retraction using Machine Learning Algorithms Suman Chowdhury, Dilip Kumar Das	1060
172	Resnet-53 for Alzheimer's Disease Detection from MRI Images and Analysis with SVM Tuning with Hyper Optimization Technique Rama Lakshmi B, Radhika Y	1065
173	A Clustered Feature Representation Model for Predicting Crop Health and Optimizing Yield Annamalai S, Saran J, Rahul S, Abishek P, Mekala N, Sasirekha S. P	1073
174	A Health Monitoring System with Multi-Sensor Information Fusion (HMS-MSIF) using a Deep Learning Approach Guru Prasath S, Santhosh R, Mekala N	1078
175	Innovative Image Preprocessing Methods for Enhancing OCR Accuracy in Number Plate Detection Vikas Nandeshwar, Sharvari Savardekar, Saurav Pathare, Saundarya Nair, Savit Pandita, Atharva Sawale	1083
176	Anterior Cruciate Ligament Tear Detection: ML and DL Approaches Madhuri Kulkarni, Rais Abdul Hamid Khan	1091
177	A Review Paper on Innovative Deep Learning and Machine Learning Algorithms for Improved Cervical Cancer Identification Prachi N. Shah, Rais Abdul Hamid Khan	1095
178	Performance Evaluation of Blob Detection Techniques using Image Processing Sathya S, Madhumathi R, Manjula D, MeenaKowshalya A	1101
179	Boosting Lung Cancer Prediction Accuracy through Advanced Data Processing and Machine Learning Models Chandra Shikhi Kodete, D Vijaya Saradhi, Vineela Krishna Suri, P Bharat Siva Varma, N S Koti Mani Kumar Tirumanadham, Vahiduddin Shariff	1107
180	Securing Personal Identity in Facial Recognition: The Shift to Machine Unlearning Uday Kiran G, Srilakshmi V, Moulika B, Mahitha G S, Laukya G, Ruthick M	1115
181	Innovations in Prostate Cancer Gleason Grading: A Comprehensive Review Harsh Sojitra, Warish Patel, Pratik Patel	1122
182	Crop Yield Prediction based on Various Environmental Factors using Machine Learning Priyanshu Gupta, Sujit Jha, Challa Tharani, V. S. Kirthika Devi	1126
183	Evaluating Disease Prognosis in Hospital Readmission using Machine Learning Techniques	1132

	P. Gandhi Prakash, Amarana Varshini, Parupalli Ganesh Krishna, Akkala Naga Manikanta Deepak, Shaik Siraaz Basha	
184	A Comprehensive Survey of Image Segmentation for Medical Images Trupti Chetan Kherde, Trupti Baraskar	1137
185	Review of Acoustic Features and Computational Models in Lung Disease Diagnosis Ashish Pandey, Mohammad Shahnawaz Shaikh, Pratik Patel	1145
186	A Mathematical Framework for Optimizing Lexical Analysis on Multi-Core Architectures Vaikunta Pai T, Priyadarshini P, B Sunil Kamath, Shreyas Vivek, Manjunatha, Nethravathi P S	1151
187	Enhancing Fish Disease Classification in Bangladeshi Aquaculture through Transfer Learning, and LIME Interpretability Techniques Nuzhat Noor Islam Prova	1157
188	Detection of Eye disease using Deep Learning Algorithms Omkumar J. Patel, Kshitij Verma, Chirayu Vyas, Trilok Nath Pandey, Bibhuti Bhusan Dash, Sudhansu Shekhar Patra	1164
189	Probable Risk Factors of Heart Disease with Accuracy Performance by Various Machine Learning Approaches Dilip Kumar Das, Suman Chowdhury	1171
190	An AI Framework Model for Smart Prediction of Ripeness in Regional Fruits and Vegetables Indira Priyadharshini M, Anusha G, Padmavathy C, Lokshana R J, Pavithra V, Murugeshwari M	1177
191	Impact of AI and ML on Employee Job Satisfaction and Performance Ansh Shah, Aryana Ghugharawala, Margi Patel, Vinod Patel, Nitin Rathore, Ramesh Ram Naik	1183
192	Improving Access to Skin Care with a Multi-Factorial Strategy using Vision Transformers N V Ratnakishor Gade, Mahaveerakannan R	1189
193	Deepfake Detection using Multi-Modal Fusion Combined with Attention Mechanism Shirley C P, Berin Jeba Jingle I, Abisha M B, Venkatesan R, Yashvanth Ram R V, Elakkiya Elango	1194
194	Hyperparameter Tunning to Improve Deep Learning Model Performance Manav Bhandari, Mrunmayee Pawar, Smita Kulkarni	1200
195	PIM-FFL: Evaluating Participation Index Metrics for Fairness Enhancement in Federated Learning Hina Batool, Jiuyun Xu, Ateeq Ur Rehma, Gurjot Kaur, Salil Bharany	1204
196	Machine Learning in Healthcare: Decision Trees for Asthma Risk Prediction Tanishq Soni, Deepali Gupta, Monica Dutta	1211
197	Robust Android Security: A Random Forest-based Approach to Malware Detection Tanishq Soni	1215
198	Advanced Machine Learning Techniques for Early Prediction of Heart Disease: A Comprehensive Analysis Mohit Beri, Kanwarpartap Singh Gill, Neha Sharma	1219
199	Advanced Dual Module Weapon Detection for Public Safety and Surveillance System Manikanta Sirigineedi, M. Sowmiya, HemavathI. U, V. C. Bharathi, Sayali S Karmode, R. Sathya	1224
200	Boosting Fiber Layup Defect Classification: A Comprehensive Analysis of Explainable AI Techniques for Neural Networks Ravi Ranjan Kumar	1230

201	Breast Cancer Detection with MobileNetV2 and Explainable AI Sara Sumaiyya, Shyamala G, Latha N. R, Pallavi G B	1237
202	Design of an Integrated Collaborative Environment for Projects with Plagiarism Checker P. Ezhumalai, Sharmila V, D. M. Kalai Selvi, Vethanathan V K, Srivatsan Kumar S, Santhosh M	1244
203	AI-Driven Deep Learning Models for Efficient Sugarcane Leaf Disease Diagnosis Vishesh Tanwar	1250
204	Efficient Vehicle Tracking and Authentication with YOLOv8: Integrating Deep Learning and OCR for Real-Time License Plate Detection Kalaimathi B, Jayanthy S, Bharathkumar G, Akshaya AV R, Dharanya P	1255
205	Smart Streetlight Fault Detection and Location Tracking System Kowsalya M, Alamelu Alias Rajasree. S, B. Kalaimathi, Amrish G, Dhinesh R, Divakar S	1263
206	Enhancing House Price Forecasting with State-Action-Reward-State-Action Algorithm and Deep Q-Learning Ramya Polaki, Keshavagari Smithin Reddy, V Sulochana, Gundala Pallavi, Prasanna Kumar R	1268
207	Comparative Analysis of Deep Learning Models for Early Skin Cancer Detection using 3D Total Body Photography Keshavagari Smithin Reddy, Ramya Polaki, V Sulochana, Gundala Pallavi, Prasanna Kumar R	1275
208	Advancing Skin Cancer Detection: Leveraging Deep Learning for Early Diagnosis Mohit Beri, Neha Sharma	1282
209	Optimizing Convolutional Neural Networks for EEG Classification in Schizophrenia Diagnosis Kishan Poddar, Bhanu Sharma, Sheifali Gupta, Sheena Angra	1286
210	Advanced Deep Learning Techniques for Accurate Alzheimer's Disease Diagnosis: Optimization and Integration Asifa Jabassum, Janjhyam Venkata Naga Ramesh, V S Divya Sundar, B Shiva, Anusha Rudraraju, Vahiduddin Shariff	1291
211	Streamlining Software Development: A Comprehensive Study on CI/CD Automation Sanjay Baitha, Vijayakumar Soorya, Osho Kothari, Shinu M. Rajagopal, Niharika Panda	1299
212	An Approach for Classification of Brain Tumor using Fully Connected Deep Convolutional Neural Network Shubhangi Solanki, Siddharth Singh Chouhan, Rajneesh Kumar Patel, Uday Pratap Singh, Mayank Namdev	1306
213	Seamless Service Evolution: Enhancing Customer Satisfaction using AWS-Driven AI Chatbots for Restaurant Ordering Mohammed Jaffer Ali, M R V Vyshnavi, Konda V S Harshith Kumar, Sravya Vishnubhatla, Shinu M Rajagopal	1312
214	Enhancing Music Composition with Marker-based Augmented Reality Technology Kishan Poddar, Bhanu Sharma	1319
215	A Survey on Remote Sensing-based Climate Change Prediction using Artificial Intelligence Techniques Suhana S, Karthiga M	1324
216	A Review on the Identification of Face mask Object from Multiple Environments using Deep Learning Techniques Chandani Thakkar, Arpit Shah, K. Himabindu	1332

217	Predicting Early Risk of Diabetes using Hierarchical Fuzzy Logic Kypa Ananya, Padmalaya Nayak, Veena Trivedi, A Sai Hanuman, K Swaraja, Ahmad Alkhayyat	1340
218	Adaptive Feature Learning for Robust Pathogen Detection in Plants Velumani Thiyagarajan, A Sajuna, C Sivaprakasam, K. Arulmozhiarasu, I. Razul Beevi	1347
219	Comparative Analysis of Feedforward Neural Network and LSTM Model for Load Forecasting Saurav Kumar Agarwal, P. V. Manitha	1354
220	Next-Gen Smart Pendant for Safe Navigation of the Visually Impaired Shwetha. K. S, Vikas, Arya. M. A, Abdul Aleem, Kalpana Devi S	1360
221	Diagnosis of Diabetic Retinopathy using Hierarchical Feature Learning and Modified CNN with ACAF Sankarananth S, Uma Maheswari G, Arun Kumar B, Nagasuresh M, Arun Kumar R, Karthiga M	1366
222	Advanced Wheat Disease Detection: Utilizing an Integrated CNN-SVM Model for Leaf Image Classification Ravi Ranjan Kumar, Gautam Rana	1375
223	BankRuptcyML: A Sustainable System for Company Bankruptcy Prediction and Detection using Machine Learning Techniques Venkatesh Gauri Shankar, Reeva V Buch, Akhilesh A Kolambekar, Bali Devi	1381
224	Optimizing Crisis Management with Advanced UAV Imaging Technology Jambula Snehith Reddy, Sri Chaithanya Mathi, Polu Sai Nadh Reddy, Vedha Pranava Mateti, Sudha Yadav	1387
225	An Intelligent Retrieval Augmented Generation Chatbot for Contextually-Aware Conversations to Guide High School Students Neeraj Singh Amarnath, Rajganesh Nagarajan	1393
226	From Clusters to Scores: Unsupervised Acne Detection and Severity Assessment with Deep Learning Animan Khandelwal, Santhi H, Devdatta Wagh	1399
227	Enhanced CNN Model for Lettuce Disease Identification in Indoor Aeroponic Vertical Farming Systems Gowtham Rajendiran, Jebakumar Rethnaraj, Janani Malaisamy	1407
228	Fine-Tuned EfficientNetB0 Transfer Learning Model for the Detection and Classification of Peach Leaf Diseases Rahul Singh, Kavya Arora	1413
229	Intelligent Classification System for Visual Inspection of Casting Products using CNN Rahul Singh, Aakriti Shory	1419
230	Crime Detection and Geospatial Alert System using LRCN and Streamlit for Smart City Surveillance N. Sunanda, Diddi Shravya, Akula Pravalika, Dharavath Amulya, K. Prajwala Saffronia	1424
231	Optimized Weld Defect Detection: A Comparative Analysis of CNN and SVM Approaches Ravi Ranjan Kumar, Gautam Rana	1433
232	Enhancing Lung and Colon Cancer Detection through Convolutional Neural Networks Ravi Ranjan Kumar, Sheifali Gupta	1440
233	Revolutionizing Agriculture: Detection of Plant Disease using Machine Learning and Deep Learning Algorithms L Sherin Beevi, Joe Prathap, P. M, Kolagotla Vishnu Vardhan Reddy, Kommini Balaji, Mallavaram Nishith, W Vinil Dani	1446

234	Sustainable Farming : Crop Prediction and Detection of Crop Deficiency using Various Algorithms Unnathi C S, Kalpana Devi S	1451
235	Parkinson's Disease Prediction using Advanced Machine Learning Techniques Bangaru Lakshmi Mahanthi, S. Anuradha	1458
236	Performance Comparison of Machine Learning Algorithms for Online Handwriting Recognition: A Brief Analysis Mamta, Gurpreet Singh, Punit Soni	1464
237	Machine Learning-based Textile Fabric Defect Detection Network Yashini P, Karthika G, Sunitha T, R. Renugadevi, Berlin Magthalin R	1470
238	Optuna-Optimized Machine Learning Technique for Accurate Diabetes Prediction and Classification Shalini Kumari, Ranganayaki. V. C, Sathyamoorthy K, K. Selvi, T A Mohanaprakash, C. Tamilselvi	1478
239	Enriched Vitiligo Detection using ML and DL Approaches Priyanka Pawar, Rais Abdul Hamid Khan	1486
240	Automated Skin Lesion Analysis and Classification using AI Parthasarathi Pattnayak, Sanghamitra Patnaik, Sudhansu Shekhar Patra, Mahendra Kumar Gourisaria, Satyendr Singh, Lalbihari Barik	1491
241	Gas Pipeline Rust Detection System using Internet of Things Ashutosh Marathe, Apoorv Karmalkar, Vedant Keche, Manas Kasodekar, Shanvi Jakkan, Anushka Khandelwal	1499
242	Advancing Renal Health with Inception V3: A Kidney Image Classification Study Poonam Shourie, Vatsala Anand, Sheifali Gupta	1503
243	FootwearFusion: Convolutional Neural Network for Shoe, Sandal, and Boot Classification Poonam Shourie, Vatsala Anand, Sheifali Gupta	1508
244	Bridging Nature and Technology: ResNet-152 for Scene Visualization and Classification Poonam Shourie, Vatsala Anand, Sheifali Gupta	1512
245	Deep Learning for Temporal Weather Patterns: ResNet-50 Perspectives Poonam Shourie, Vatsala Anand, Sheifali Gupta	1517
246	Development of Computer Vision based Aluminium Scrap Sorting using Real Time Metal Scrap Dataset Adhithya S, J. Kathirvelan	1522
247	MindCare: Machine Learning based Personalized Mental Health Monitor Ushashree P, Archana Naik	1528
248	Smoke-Free Zones: Enhancing Smoker Detection with MobileNetV2 and CNN Poonam Shourie, Vatsala Anand, Sheifali Gupta	1534
249	Analyzing Players Performance using PSO-CNN Model Venkata Naga Saiteja Bhumaraju, P. Vinothiyalakshmi	1539
250	Optimizing Music Genre Classification using CNN Sequential Models and Deep Learning Techniques Mohit Beri, Neha Sharma	1547
251	Adaptive Multiscale Wavelet Compression for Preserving Critical Diagnostic Features in Medical Imaging Rajesh Sharma R, K. Prakash, Akey Sungheetha, Ellappan. V, Karthik S, G S Pradeep Ghantasala	1553
252	Automatic Fish Species Identification using Convolutional Neural Networks (CNN) I. Mettildha Mary, T. Ragunthar, M. Priyadharsini, Shyam Krishnaa H, Sujit M K	1558

253	Enhanced Prediction of Cervical Cancer Risk by Combined Machine Learning Algorithms K. Srinidhi, Janani J, Allu Lavanya, T. K. Ramesh	1562
254	Diabetic Prediction with Significant Factors by Random Forest-A Machine Learning Approach Suman Chowdhury, Dilip Kumar Das, Mohammed Motaher Hossain	1571
255	Brain Stroke Prediction by Machine Learning Algorithm Along with Boosting Classifier Dilip Kumar Das, Suman Chowdhury	1576
256	Live Stock Price Detection using ARMA-ARIMA Model with RNN Classifier A. P. Narmadha, N. Gobalakrishnan	1582
257	DP-CDUN-GTO: An Enhanced Network Approach with Giant Trevally Optimizer for Accurate Air Quality Prediction T Vamshi Mohana, Mudit Mittal, Ayshwarya B, Najmuddin Aamer, Aparajita Mohanty, Karthik Kumar	1590
258	TDA-SSNN: Efficient Hybrid Top-Down Attention Siamese Sparrow Neural Network for Automatic Drone Navigation Najmuddin Aamer, Shuchi Bhadula, Mahashree P, Harshal Patil, Shashikala Gurpur, Apurv Verma	1596
259	Integrating AI for Improved Brain Tumor Detection and Classification V. Yamuna, Praveen RVS, R. Sathya, M. Dhivya, R. Lidiya, P. Sowmiya	1603
260	AI Powered Plant Identification and Plant Disease Classification System Praveen RVS, Hemavathi U, R. Sathya, A. Abubakkar Siddiq, M. Gokul Sanjay, S. Gowdish	1610
261	Project Mate: A Modern Solution for Professional Networking and Collaboration Aditi Nayak, Himanshi Jain, Jasmita Mukherjee, Jil Kapadia, Sashikala Mishra, Aniket K. Shahade	1617
262	DNA Driven Mechanism for Genetic Ciphering to Protect IoT Images Vikas Dubey, Anuj Gupta	1623
263	Stress Prediction in Higher Education Students using Psychometric Assessments and AOA-CNN-XGBoost Models Sarthak Sharma, Suman Vij, RVS Praveen, S. Srinivasan, Dharmendra Kumar Yadav, Raj Kumar V S	1631
264	An Innovative Method for Brain Stroke Prediction based on Parallel RELM Model K. Kavitha, Vanjangi Jyotsna Devi, Mohammad Shabbir Alam, Sindhu. V, Nisarg Gandhewar, Gourav Kalra	1637
265	Securing Neural Network in the Cloud: A Systematic Approach of Cloud security based on ANN-SVM Model Ar Arunarani, V. Vijayagopal, L. Kartheesan, Vijay Kumar Dwivedi, Rajesh Kumar A, Neerav Nishant	1644
266	Detection of ARP Spoofing with Optimized False Alarm using Deep Learning based Absolute Thresholding Dharani M, Nivedhidha M, Sangeetha A, Saravanan V, Ramkumar M P, Emil Selvan G S R	1650
267	Unlocking Alzheimer's: A Squeezenet-based Approach for Automated Diagnosis Across Disease Stages Anil Kumar Pallikonda, P Suresh Varma	1658
268	Advancements in Disaster Prediction: A Systematic Review of Earthquake, Flood, and Cyclone Forecasting Techniques Pratik Shetty, Shubham Varma, Sachin Tripathi, Chitra Bhole	1665

269	Deep Learning-based Hybrid Framework Utilizing OpenCV and CNN for Automated Brain Tumor Detection and MRI Image Classification Y Mohana Ropa, K. Roney Moon, Tanvir Singh	1674
270	A Comprehensive Review of Interpretability in AI and Its Implications for Trust in Critical Applications Ujjwal Singh Kathait, Anamika Rana, Rahul Chauhan, Ruchira Rawat	1683
271	A survey based on Behavior Analysis of Artificial Intelligence using Machine Learning process Mohammed Javed Hussain	1694
272	Enhanced Heart Disease Prediction through Optimized Ensemble Random Forest Model A. Devi, T. Nirmal Raj	1702
273	Self-Supervised Learning based Land Cover Semantic Segmentation of Satellite Imagery Pratham Gandhi, Dilip Singh Sisodia, Rikhi Ram Jagat	1708
274	SPEAR: Design and Implementation of an Advanced Virtual Assistant Garima Jain, Amita Shukla, Nitesh Kumar Bairwa, Anamika Chaudhary, Ashish Patel, Ankush Jain	1715
275	Evaluating the Performance of ResNet-50 and GoogleNet for Damage Detection and Classification Anuj Baral, Vikash Singh, Achyut Lath	1721
276	Edge Federated Learning for Smart HealthCare Systems: Applications and Challenges D Ganesh, O. B. V. Ramanaiah	1727
277	Deep Learning Breakthroughs in Leukemia Diagnosis: A Review of White Blood Cell Image Analysis Ranjitha R, Vijaya A, T A Mohanaprakash, Sathyamoorthy K, R. Vasanthi, M. Krishnaraj	1736
278	Deep Learning Model for Human Detection–Enhanced YOLO Comparative Analysis Suresh P, Aswathy R H, Nisha Soms, V. Niranjani	1742
279	RGCNN: Precise Fake News Detection on Social Media using Random Group Coupled Neural Networks Subhashree D C, Harendra Singh Negi, Kardeepa Ponnuchamy, Nayani Sateesh, Harshal Patil, Ramya Maranan	1749
280	Improving Microgrid Reliability and Efficiency through Energy Storage Systems with a Pyramidal Dilation Attention Convolutional Neural Network for Renewable- Energy Integration Bondu Vijayakumar, K. E. Purushothaman, Priyanka Khabiya, Akriti Garg, Rajesha N, S. Kaliappan	1756
281	Smart Grid Load Prediction with Advanced Metering Infrastructure using Relational Bi-level Aggregation Graph Convolutional Network and Coronavirus Mask Protection Algorithm Ben Sujin, S. B. Warkad, P. Siddharthan, Mukul Kumar Singh, B. Umarani, K. Vinoth	1763
282	Enhancement of Diabetes Prediction Accuracy using Various Machine Learning Algorithms Yaddanapudi Sarada Devi, Chirumala Yasoda, Gangireddy Tulasi, Vemavarapu Suryateja	1770
283	Automized Mango Leaf Disease Detection using Various Optimizer of CNN Pratik Balodi, Ayush Giri, Amit Gupta, Manish Sharma	1776
284	Analysis of Machine Learning Algorithms for Predicting Titanic Disaster Survival Rate	1781

	Manas Bisht, Akash Singh, Gautam Tripathi, Kumar Shantanu, Amit Gupta, Richa Gupta	
285	Vineyard Vision: Investigating Mask R-CNN and YOLOv8 for Grapevine Instance Segmentation Devansh Goel, Divya Singh, Amit Gupta, Vikas Tripathi	1787
286	MangoLeafNet: Transforming Mango Leaf Disease Management with Deep Learning J. Relin Francis Raj, S R Raja, Ezhil E Nithila, K. Haribabu, R. Santhana Krishnan, A. Essaki Muthu	1793
287	Resilient Framework for Next-Generation Heterogeneous Wireless Networks in Disaster Management Ajisha Mathias, J. Relin Francis Raj, S R Raja, R. Santhana Krishnan, S. Balamurugan, G. Vinoth Rajkumar	1800
288	AppleDiseaseNet-B7: A Robust Solution for Apple Leaf Disease Classification and Model Evaluation Ajisha Mathias, J. Relin Francis Raj, S R Raja, R. Santhana Krishnan, G. Balamuralikrishnan, N Soundiraraj	1807
289	Investigating the Impact of Dataset Variants on Heart Disease Prediction using Supervised Learning Algorithms Uma Shanker Singh Ujjwal, Richa Gupta, Amit Gupta	1815
290	A Comparative Analysis of Logistic Regression and Support Vector Machine for Employee Churn Prediction Richa Gupta, Abhijeet Singh Chand, Simran Solanki, Tushar Gautam, Navin Garg	1821
291	SoulNourish: A Comprehensive Machine Learning based Recommendation Yoga Prediction System based on Health and Lifestyle Data Kirankumar M, Saikiran P, Sabarivasan N, Manoj Kumaran S, Senthil Kumar Thangavel, K Somasundaram, B Senthil Kumar	1828
292	An Intelligent Road Lane Monitoring System using Computer Vision Techniques Vanmathi V M, Aakash P, Gokul Balajuram, Abhishek. R, Senthil Kumar Thangavel, Somasundaram K, Selvanayaki Kolandapalayam	1836
293	Comprehensive Analysis of FUTCOM and NASDAQ Commodities for Gold using Machine Learning and Technical Analysis Lynda D, Rakesh S, Kalaipriyan Thirugnanasambandam	1843
294	Predicting Indian Sign Language Gestures using Deep Learning and Machine Learning Techniques Bhushan Fulkar, Rushikesh Burle, Pramod Mahale, Utkrsha Pacaharaney	1851
295	Optimising Diabetic Retinopathy Classification using EfficientNetB7 Ajisha Mathias, J. Relin Francis Raj, S R Raja, R. Santhana Krishnan, C. Puvanadevi, S. Sujatha	1856
296	ML-Driven Multifaceted Classification Framework for Transport Service Evaluation J. Relin Francis Raj, R Arul Jose, R. Santhana Krishnan, G. Vinoth Rajkumar, B. Priyanka, G. Yamini	1864
297	Improving Tomato Disease Diagnosis Through ResNet50: An Innovative Approach R. Dhamotharan, J. Relin Francis Raj, R. Santhana Krishnan, S. Kavitha, N Soundiraraj, V. Vinoth Kumar	1872
298	AI Powered Crypt-Analysis for Identification of Encryption Algorithm K. Radhika, Shanti Verma, R. Sathya, T. Kathirvel, K. Harish Vishnu, N. Mukesh Rajan	1880

299	Optimizing the Shopping Experience through Smart Trolleys with Integrated Deep Learning Techniques T. S. Akhila, X. Arogya Presskila, P. Kalyanakumar, R. Santhana Krishnan, M. SahanaPreethi, P. Sundaravadivel	1885
300	Post-Exploitation Insights: Dynamic Analysis of C2 Frameworks Subhiksha Suresh Rao, Sahil Mishra, Samarth Seshadri, Kavitha C. R	1893
301	Adaptive Compressive Sensing for Natural Images using Schur Decomposition and Optimized Reconstruction M. Aarthi Elaveini, Deepa T	1899