

2025 6th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2025)

**Tirunelveli, India
17-19 June 2025**

Pages 1-622



**IEEE Catalog Number: CFP25ONG-POD
ISBN: 979-8-3315-1176-0**

**Copyright © 2025 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:	CFP25ONG-POD
ISBN (Print-On-Demand):	979-8-3315-1176-0
ISBN (Online):	979-8-3315-1175-3

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

**6th International Conference on Intelligent Communication Technologies
and Virtual Mobile Networks (ICICV 2025)**

17-19, June 2025

Table of Contents

S. No	Paper Title/ Author Name	Page. No
1	Enhanced Segmentation of Lesions in Medical Images using DTA-TransuNet Latha B, Nandakumar R, Udhayakumar M, P. Sanjay, S. Eswaran, S. Abdur Rahman	1
2	Real-Time UV Exposure and Vitamin D Tracking for Personalized Health Monitoring with Alerts for Safe Exposure Limits Nisha Ponnambalam, Dankan Gowda V, Ryhan Banu, Impana Bharadwaj, Kottala Sri Yogi, Rupali Suraskar	7
3	Early Detection of Lung Cancer using Hybrid Histological Image Analysis with XGBoost and LightGBM in MATLAB R. Thanga Selvi, K. Siva Naga Vamsi Krishna, O. Sudheer Kumar, A. Manisai Rishik	14
4	Analysing Mental Health Trends and Predictors Among Students using Reinforcement Learning C. A. Kandasamy, Harshini A R, N. Prakash, A. Yoganathan, P. Kalyanasundaram, P. Anitha	20
5	Crossplane: A Unified Framework for Multi-Cloud Infrastructure Management Nikhil Kumar, R. Thanga Selvi	25
6	Language Identification for Seamless Multilingual Machine Translation P. Arivubakan, K Likhitha, M. V. Subbarayudu, V. V. S. Hemasundhar	35
7	Machine Learning-Driven Personalized Cancer Treatment: Evaluating Supervised and Reinforcement Learning Approaches U Ganesh Naidu, Mahesh G, V T Ram Pavan Kumar M, Ch Subbarao, A V S S Varma, J. S. Linda Johnsana	40
8	Optimized ResNet-50 Deep Learning Model for Highly Accurate Plant Disease Classification and Detection Efficiency R. Deebika, M. Sangeetha	47
9	Context-Aware Malware Scoring: A Multi-Model Ensemble Approach using Structured and Unstructured Data Saranya G, Kumaran K, Anand Misra, Mayank Mishra	53
10	Deep Learning for Handwritten Digit Recognition N. Prakash, S. Pooja, C. A. Kandasamy, A. Yoganathan, P. Kalyanasundaram, P. Anitha	60
11	Efficient AI Driven Health Monitoring Facial Recognition in Cattle Farm P. Anitha, S. Swetha, C. A. Kandasamy, P. Kalyanasundaram, E. Loganathan, N. Prakash	65
12	Enhancing Deepfake Detection Through Dynamics of Facial Expressions Vishal Kumar Sharma, Seema Rawat	70
13	Improved Early Kidney Oncocytoma Identification in CT Scans using Hybrid CNN-RNN/Attention Models A. Yoganathan, V. Dhivyadharshini, E. Loganathan, N. Prakash, C. A. Kandasamy, P. Kalyanasundaram	80
14	Detection and Prediction of First and Second Trimester Maternal Thyroid Dysfunction Swapna cs, Sherin Eliyas	87

15	Platform for Secure Data Management and Visualization in Data Center Environments M. S. Saranya, Thokala Akshita	93
16	Optimizing Disease Diagnosis and Treatment Through AI and Deep Learning Algorithms Jagadeesh Vedula, Tapankumar A. Kakani, Rahul Gupta, Muneeruddin Mohammed, Karim Hudani, J. Logeshwaran	98
17	Interactive Content-based Image Retrieval (Interactive CBIR): Hybrid Transformer-Compressed Convolutional Model for Deep Feature Extraction J. Vijila, Godfrey Winster Sathianesan	103
18	Machine Learning-based Prediction of Starlink Satellite Lifespan for Sustainable Space Operations Arpana Prasad, V Asha, S P Sreeja, Vasumathi M T, Ankitha H V, Arpith K	110
19	AI Driven Crop Management and Market Solutions P. J. Beslin Pajila, Y. Sai Saranya, S. K. S. Manaswini, M. G. S. Gopala Krishna	115
20	Enhanced Lung Cancer Identification via Deep Learning-Powered Categorization and Segmentation M. Mohamed Sithik, S. P. Santhoshkumar, S. Priya, V. Muthu, Kamalakannan Machap, T. Nalini	120
21	Design and Development of Website for Agricultural Field and Factory D. Jasmine David, K. Kenisious Judson Samuel, Jigar N Shah, Subin Shibu	126
22	EffiDerm: An Efficient Deep Learning Model for Skin Cancer Prediction Baby Shalini V, Agil Kannan, Surentharakumar K, Harsni M. K	132
23	Optimizing Sentiment Analysis in Social Media with a Machine Learning Approach using Naive Bayes and Support Vector Machines Kottala Sri Yogi, D Raj Kumar Pillay, Dankan Gowda V, Mouna K M, Srinivas. D, Rupali Suraskar	138
24	Detection and Classification of Human Emotion Recognition using CNN Algorithm Manasvi Rokkala, Hima Mounika Kadirisani, A. Amir Anton Jone, K. Martin Sagayam	144
25	Enhanced Fruit Classification using K-Fold Cross-Validation and Interpretation with Explainable AI (XAI) Sugunadevi C, B. Uma Maheswari	151
26	Developing Predictive Models for Disease Diagnosis using Machine Learning and Deep Learning Techniques Tapankumar A. Kakani, Jagadeesh Vedula, Muneeruddin Mohammed, Rahul Gupta, Karim Hudani, N. Yuvaraj	158
27	Advancing Clinical Decision-Making using Artificial Intelligence and Machine Learning for Accurate Disease Diagnosis Rahul Gupta, Tapankumar A. Kakani, Jagadeesh Vedula, Muneeruddin Mohammed, Karim Hudani, N. Yuvaraj	164
28	Artificial Intelligence in Banking Security-Technical Innovations and Challenges Waheeduddin Khadri Syed, Abubakar Mohammed, Janamolla Kavitha Reddy, Ketan Gupta, J. Logeshwaran	170
29	CascadeNet: A Multi-Stage Deep Learning Framework for Breast Cancer Detection in Ultrasound Imaging Pradeep Kumar, Santosh Kumar Choudhary, Mamillapalli Deepika, Pasula Vamshikrishna, D. Karthik	177
30	Predicted Pixel Pair Error Expansion based Reversible Embedding with Minimum Diamond Search Area Geetha R, D Jenila Rani	183

31	Comparative Analysis on Deep Learning Models for Cryptocurrency Prediction Tanishtha Gulati, Hashwanth Y, C. Sherin Shibi, Babitha Lincy R, Jency Rubia J, G. Sumathy	188
32	Detecting Fake News based on Information Retrieval, NLP, Machine Learning, its Impact by Auto-Populating P. Kalaiarasi, Pujari Komala, Annapareddy Harika, Neela Bhavani, R. Theja	195
33	Prediction of Nutrient Deficiency in Crops using Plant Health Data Thanga Selvi R, Parchuri Mohana Pravalika, Katta Manikanta Kumar, Devata Varalakshmi	203
34	Intelligent Task Offloading for Blockchain-Integrated Edge-Cloud Systems using MOO and NFIS-based Decision Making Dharma Teja Valivarthi, Swapna Narla, Sai Sathish Kethu, Durai Rajesh Natarajan, Sreekar Peddi, Purandhar. N	210
35	Revealing the Reliability of Amazon Products via Innovative Fake Review Detection using Machine Learning Rupak Sharma, Vikas Sharma, Tarun Kumar Vashishth, Shashi, Asheesh Pandey, Sachin Chaudhary	217
36	Deep Learning and Blockchain-Driven Security for Pharmaceutical Supply Chains using Genetic Algorithm and SVM Asma Anjum, Praveen Sivathapandi, B. Ramana Reddy, T. Prabakaran, M. Sridharan, K Sai Krishna	222
37	AI-Powered Mental Health Tracking with Smartwatch Integration for Instantaneous Stress Assessment and Assistance Nongmeikapam Thoiba Singh, Ayush Aryan, Richa Dhiman, Meenakshi Rana	228
38	Comprehensive Data Management and Visualization Strategy for Secure Data Centers M. S. Saranya, Sadish Sendil Murugaraj, Banala Deekshitha, Thokala Akshita	235
39	Gamification in Education: Designing and Evaluating a Learning Platform for School Students Satpalsing Rajput, Amogh Deshmukh, Siddhesh Dhomse, Gayatri Dhumal, Siddhartha Dhurve	240
40	Experimental Evaluation of Lupus Disease Diagnosis using Hybrid Neural Learning and Classification Scheme Flemitha Mary D, Govindaraj Ramkumar	245
41	Comparative Analysis of LLM-Generated Summaries using Traditional Extractive Methods: Algorithmic Fidelity and Performance Evaluation Devansh Wassista, Aryan Jain	252
42	AR for GI Protection: Exploring Kalamkari Art for Digital Heritage and Cultural Education Ch. Durga Nandini, Ch. Rupa, B. H. N. Chandana	258
43	A Comprehensive AutoML-based Analysis of Machine Learning Algorithms for Breast Cancer Prediction Comparative Performance and Insights A. Akilandeswari, Saravanan Murugan, Vasanthakumar Gnanasambandam, N. Duraichi	264
44	A Comparative Study of Machine Learning Models for Liver Disease Prediction A. Akilandeswari, Saravanan Murugan, Vasanthakumar Gnanasambandam, N. Duraichi	271

45	Comparative Evaluation of Hybrid KNN with Lasso Regression Vs Standalone KNN for Autism Spectrum Disorder Prediction C. Preethi, S. Gomathi	278
46	Investigating User-Generated Content with a BERT-SVM Framework for Digital Age S. Seethalakshmi, U. Marimuthu, Anju Mohan, K. S. Alakumarimuthu	283
47	Virtual Herbal Garden Arsath R, T Grace Shalini, Yugabharathi R, P Geetha	290
48	Web of Science-based Bibliometric Analysis of AI on Healthcare Harsh Chauhan, Kavya Rawat, Geet Kiran Kaur, Nikita Joshi, Priyanshu Kumar, Nikita Joshi, Sanjay Singla	297
49	Climatic Change Analytics in the Philippines: A Time-Series Predictive Modeling Approach Epifelward Niño O. Amora, Joymarie A Balabat, Mailyn R. Uba, Aileen A. Mapute, Rosary P. Balbarino	305
50	Image Processing Techniques for Skin Disease Detection: A Comparative Review Rishabh Saxena, Parul Datta, Monika Anand	313
51	Predicting Global Youth Literacy Rates using Machine Learning: A Feature Engineering Approach Epifelward Niño O. Amora, Ma. Magdalena J. Bernales	321
52	A Smart AI-Driven Heritage Guide: Enhancing Tourism Jerin Don, Vishal S, Dhanushkodi L, Dinesh R, M. Sathiya	329
53	Email Security Enhancement via ML-based Spam Filter Techniques N Mithili Devi, V Asha, Diksha Dhiman, Prathamesh Patil, Pranjal Utkarsh, Vishal Poojari	336
54	Scalable Pill Dispensing Systems for Hospitals Soumyajit Kolay, B Nageswara Rao, Sandeep Kumar Dash, Arpan Adhikary, Mrityunjaya Nanda	341
55	Ensemble-based Machine Learning and Deep Learning Approaches for Autism Prediction K. Suthendran, Vidudala Lavan Kumar, Kondampati Delhi Dinesh Yadav, S. Surya	346
56	Intrusion Detection in Fog Computing using Deep Learning Methods Rajitha B, G Rosline Nesa Kumari, Kalyanapu Srinivas	352
57	Enhancing Agricultural Predictions using Stacked Ensemble and Transformer-based Models V. Asha, Arpana Prasad, Sukanya N S, Monish K, Mrutyunjay Sahoo, Monu Kumar Yadav	361
58	Deep Learning-based Prediction of Risk in Life Insurance Aditya Singh, Namrata Dhanda, Kapil Kumar Gupta	367
59	Enhanced Lung Segmentation via TransResUNet: A Deep Learning Approach with Residual Paths and VGG16 Encoder B. Sreedhar, B L Prakash, V S N Murthy, Gadi Lava Raju, Avinash Amaranayani, V S Divya Sundar, K. Nageswara Rao, Siva Kumar Pathuri, R Maranan, S. Kaliappan	374
60	Enhancing Phishing Detection with URL Title Analysis and Ensemble Machine Learning Kilari Vikram, Ch. Bindu Madhavi	381
61	XAI-based Advanced Computational Models for Predictive Analysis of Bone Fracture and Structural Repair Healing Prediction Thamizhazhagan Selvam, Hariprasad S	388
62	AI Powered Sign Language Detection with a Modern Tech Stack S. Arunkumar, N. Pranaya Deepika, N. Likhitha, U. Lakshmi Savya	394

63	Detection of Plant Leaf Diseases using Machine Learning Techniques and CNN Kusuma R, R Rajkumar	398
64	Predicting Cardiovascular Events Through Skin Blood Flow Analysis Sobhana Mummaneni, Sameera Gudipati, Satwik Panda	405
65	A Real Time Comprehensive Framework for Automated Bone Abnormality Detection using Radiologic Imaging Shanmukha Sreenikeeth Chittajallu, Sai Satwika Mahankali, Hariprasad S	413
66	Optimizing Diabetes Diagnosis with Data-Driven Machine Learning Techniques Kanagamalliga S, Vinayagam P, Harish B R, Lokesh M B	419
67	Autism Prediction using Machine Learning Keerthi Shetty, Savitha, Sanjana, Anantha Murthy, Harshitha G M, Prathwini	425
68	Bridging Engagement and Difficulty in Math Education Data: A Novel Adjusted Performance Metric and Predictive Modeling Epifelward Niño O. Amora, Evangeline N. Olandria, Kennery V. Romero, Rennan C. Amoguis, Rodelou G. Tuyor, Roger E. Amolato	432
69	Pre-Processing Irrelevant Information from Melanoma Infected Human Skin Images using Image Processing Techniques M. Selvadurai, Perumal. S	441
70	ForeStock: Smart Sales Quantity Forecaster for Warehouse Stock Management N V RajaSekhar Reddy, B. VeeraSekharReddy, J. Pradeep Kumar, Shiva Kumar Kalavari, Sravani Samayamantri, Rohit Kumar Dubey	448
71	PLMPFS: Predictive Learning with Polynomial Features and SMOTETomek Balancing based Heart Disease Prediction A. Devi, T. Nirmal Raj	453
72	AI-Powered Learning Management System for Enhanced Education Nongmeikapam Thoiba Singh, Karan Yadav, Rohit Kumar, Vivek Yadav, Pawani Bhardwaj, Aditya Chaurasia	460
73	SafeMed: An ADE Awareness Platform for Survey and Reporting Nongmeikapam Thoiba Singh, Priyanshu Kumar, Bhawna Bisht	465
74	An Explainable AI-Driven Deep Learning Algorithm for Heart Disease Detection in Healthcare Aaron Singh, Bosco Paul Alapatt, Jossy P George	471
75	Enhancing Malware Detection Through Hybrid Deep Learning Techniques Alphine PJ, Bosco Paul Alapatt, Jossy P George	478
76	Geochemical Data Exploration using Machine Learning Methods Abhay Shrivastava, Jossy P George, Bosco Paul Alapatt	484
77	Ensemble Hybrid LSTM Architectures for Robust Multi-Currency Forex Forecasting Alan Biju, Bosco Paul Alapatt, Jossy P George	490
78	AI – Driven Mobile Platform for Student Career Planning Integrating Real Time Market Babymol Kurian, Ranjith K, Raju C, Swapnil Kumar Singh, Sathya A, Krithikaa Venkat V S	499
79	A Survey on Diabetic Retinopathy Detection Vidhi Fulara, Puja Thakur, Shagun Chahar, Swarnim Tyagi, Prakhar Sharma	505
80	InvestEdge: Stock Recommendation and Trading Platform Sumathi S, Bhavya Datta, Janhvi Dikhit, Bhumika Singh, Disha Yadav	510
81	Cardiovascular Disease Prediction based on Electronic Health Records using Machine Learning Mangala Shetty, Elkan Michael Pais, Spoorthi B Shetty, Eisha N Shetty	515

82	An Image-based Approach for Early Detection and Classification of Crop Leaf Diseases Bhaves P, Mohith Sai A, Nidarshan M V, T. Grace Shalini	521
83	Development of Voice-Activated Assistance System for the Disabled and Elder Citizens Katari Deepesh, Mahalakshmi K, Mahesh M, Balaji M	529
84	Prediction of Cardiac Arrest through Bio-Inspired Optimization Algorithms Kamparapu V V Satya Trinadh Naidu, Bendala Mani Gowtham, Nuthanakalva Pavithra, Dungavath Nagarjuna Naik, Patnool Mohammad Zuber Basha	535
85	Medical Report Simplification System: Enhancing Healthcare Accessibility using NLP-based Extraction and AI-Driven Explanation G. Mariammal, Swetha. K, Samuel Jimrys. S	541
86	Ensemble of Tversky-Indexed Graph Neural Network and CNN for Plant Leaf Disease Prediction Sreelakshmi Kakkat Parameswaran, R. Parameswari	546
87	Improved Lung Cancer Monitoring with Kalman Filter Algorithm for Tumor Growth Prediction P. Anitha, Tharanika S, N. Prakash, C. A. Kandasamy, A. Yoganathan, P. Kalyanasundaram	552
88	A Pattern-based Comparative Analysis and Hybrid Model for Deepfake Image Source Attribution Abhay Chopade, Prathmesh Vhsale, Mayur Waghmare, Priya Belgamwar	557
89	Soft Computing Approaches for Wind Turbine Power Prediction: A Study using Gradient Boosting Trees and LightGBM V. Savithiri, S. Gomathi	564
90	Android Malware Detection using Federated Learning Arnav Krishn Kushwaha, Alok Kumar Singh, Apurv vats, Anshul Arora	569
91	Design and Implementation of a Cardiac Health Monitoring System for Enhanced Patient Care Rajan S, Ushamalini B, Vidya Vihasini C S, Rohith S, Tamilselvan S	576
92	Credit Card Security with Generative Adversarial Networks: A Personalized Fraud Detection Framework Nanthini R, K. Kumutha	584
93	Cyber Attack Detection using Ensemble Deep Multi-Model Algorithm to Detect User Behavior Saravanan. M. S, Siva Rama Krishna Prasad	590
94	DL-ALL: Deep Learning-Powered Acute Lymphoblastic Leukemia Classification Kappeta Poojitha, Shalini R, Bathala Vandana, Nithya R	596
95	Enhancing Diabetic Patient Care: Neural Network-based Models for Readmission Prediction P. Chinnasamy, Gudivada Lokesh, R. P. Shermy, Subbulakshmi R, Lavanya S, Divya Priya Degala	603
96	Self-Healing Neural Networks for Resilient AI Systems S. Saraswathi	610
97	AI-Driven Legal Document Summarization and Blockchain-based Authenticity Verification for Enhanced Decision-Making D. R Deekshith, Prabhava Vishwananda Murthy Pulipaka, Sai Praneeth Yadav Madda, G. Loka Raghavendra, Gouthaman. P	616
98	Medical Plant Identification and Utilities Recommendation using Ensemble Techniques Appana Naga Lakshmi, Sakala Naga Savitha, Nakkainti Jhansi, Kummetha Nithin Kumar Reddy, P Manohar Reddy	623

99	Vision and Sensor Fusion for Non-Invasive Health Monitoring N. Gomathi, V. Bharathwaj Reddy, J. Mahender	628
100	Improving Nutritional Analysis with XGBoost: Predicting Calories from Food Images Minu Inba Shanthini Watson Benjamin, Kalyan Babu Gutti, Veeraraghavula Chandu, Pavuluri Srikanth, Maithili. K, K Antony Kumar	633
101	Deep Learning-based Visible and Infrared Image Fusion using Dual-Branch Attention Network for Enhanced Structural Clarity Swapnali N. Jadhav, Chetan J. Awati, Rashmi J. Deshmukh	641
102	Dual-Layer Steganography: A Deception-based Web Tool for Secure Multi-message Embedding, Decoy Deployment, and Retrieval Guru Prasad Reddy K, Mohib Rasool, Abiraami. T. V	646
103	Smart Voting System with Computer Vision A. Parivazhagan, Golla Saipradeep, Ravella Praveen, Katari Devendra, Sudha Siva Kumar Reddy	652
104	Transparent Lung Cancer Risk Assessment via Hybrid Machine Learning Algorithm Leveraging Interpretability Lovely, Sukhjinder Kaur, Sanjay Singla, Kiranpreet Kaur, Shilpa, Narinder Kumar	659
105	Effective Analysis of Task Scheduling as Well as Load Balancing Schemes and Algorithms in Cloud Computing Mallamma, Shubangini Patil	665
106	AI-based Carbon Footprint Tracking and Reduction Vidhya K, Shaik Nabeel A F, Nagarajan B, T. M. Thiyagu, Jenefa Archpaul, C. P. Shirley	673
107	A Comparative Study of Machine Learning and Deep Learning Models for Drone Object Detection Shivali Gupta, Simran Kaur, Ujwal Gupta	680
108	ZyEvo: A Zygomycota-Inspired Dual-Phase Evolutionary Metaheuristic Algorithm Kumar Harsh, Snehil Sharma, Lavanay Ganotra, Anshul Arora	686
109	Recent Advances in Deep Learning-based Chronic Kidney Disease Detection Kanagamalliga S, Gayathri VR	692
110	Stock Price Forecasting: A Comparative Study of Single and Hybrid Feature Selection Methods M. Aravindhan, D. Manikavelan	698
111	Fair Summarization in the Age of Large Language Models: A Comprehensive Survey Siya Mittal, Vishal Das, Vivek Yadav, Kavinder Singh	705
112	Intelligent Security Automation: Standard Continuous Process from Scan to Remediation for Vulnerability Management Suresh Kumar R Akkengari, Bessel Binny	711
113	AI-Powered Parkinson's Detection: A Deep Learning Breakthrough for Early Diagnosis Vaibhav Kumar Sharma, Ankur Singh Bist, Devendra Singh	717
114	YOLO-based Automatic Number Plate Recognition with Unauthorized Font Detection Sangeetha R, Dharshini S, Harivignesh T, Dharani Jayan E, Abimathi S	722
115	Cloud-Driven Face Recognition: The Future of Smart Surveillance C Edwin Singh, R Harsh	728
116	Liver Disease Detection using Machine Learning: Impact of Feature Distribution, SMOTE, and Algorithmic Performance S Padmakala	733

117	Lung Cancer Stage Detection using Tree-based Ensemble Algorithms: A Benchmarking Study with Feature Selection and ROC Analysis S Padmakala	742
118	Deep Learning in Radiology: A Comparative Study of CNN Architectures for Automated Detection of Bone Fractures S Padmakala	751
119	Health Sync: An Integrated Healthcare Management Platform Sathya A, Tarunes K, Sriram GJ, Naresh K, Narendran M, Krithikaa Venket VS	757
120	AI-Enhanced Image Processing for Target Detection and Threat Recognition in Defence Applications Sravanthi Chutke, V. Vinay Kumar, M. Saravanakumar, Praveen Kumar Lendale, Madhusudhan Akku, K. Sai Krishna	763
121	Machine Learning based Approach for Predicting Brain Stroke from Electronic Health Records Isha T V, Mangala Shetty, Spoorthi Shetty	769
122	Style Transfer-based Secured Steganography: A Robust Embedding Framework Geetha R	775
123	Predictive Modelling for Heart Disease: Evaluating Machine Learning Techniques R. Susmitha	780
124	A Novel Hybrid Machine Learning Framework for Breast Cancer Prediction and Classification M. Renukadevi, S. Gomathi, R. Susmitha, K. Malarkodi	786
125	Adaptive Price Optimization: Leveraging Google Cloud AI for Real-Time Retail Transformation Ganesh Vetsa, Sai Surya Avinash Reddy Kovvuri, Pavan Kumar Kanamarlapudi, Balaji Barmavat, Krupa Satya Prakash Karey, Iwin Thanakumar Joseph S	793
126	Mediseckey: A Strong Stream Cypher for Health Imaging Driven Through Machine Learning R. Anto Pravin, K. Vasanth Kumar, D. Pardha Saradhi, K. Bujji Babu	800
127	SmartCap: Real-Time Synchronized Subtitles for Videos Ravindra Chowdary Jonnagadla	806
128	Parkison Disease Prediction using Machine Learning in Healthcare Ansh Maheshwari, Ishita Banerjee, Ramkumar Jayaraman	812
129	Towards Accessibility: Implementing Word Recognition for Sign Language Detection in Virtual Communication Ritik Agarwal, Shivam Agarwal, Parul Verma, Ranjana Rajnish	820
130	An Efficient Deep Learning Framework for Soil Type Classification using Enhanced Image Preprocessing Techniques Davuluri Ajith Chowdary, Yaramaneni Rahul, Mannem Venkata Sai, Nithya R	825
131	Analysing Model Performance: KNN and Random Forest-Enhanced KNN in Milk Quality Prediction Rajesh kumar Mohapatra, Priya Sethuraman, D Jayalakshmi	832
132	Blind De-Blurring Scale-Aware Quaternion Core Components and Binary Spiking Network based Keratinocytic Skin Cancer Detection on Facial Images Khaled Tawfiq Al-Assaf, Donamol Joseph, Gaurav Sethi, M. Siva Ramkumar, S. Dhivya, Sumit Kushwaha	837

133	Maximizing Accuracy in Detection and Delineation of Plant Pathology using Efficient Net M. Gnana Prakash, D. Sungeetha	844
134	Supervised Learning Approaches in Android Malware Detection: Survey and Analysis Mayank Ashok, Rahul Katarya	849
135	Effects of Addiction to AI-Modified Least Cost Method in Solving Transportation Problems M. Anusiya, A. Usha	856
136	A Comparative Study of Machine Learning and ARIMA Models for Inflation Forecasting in Nigeria Varun Dogra, Okechukwu Chinyere Perpetua, Yatish Sharma	865
137	An Evaluation of Machine Learning in Comparison Techniques for Cardiovascular Forecast Tanish Bansal, Sukhjinder Kaur, Sanjay Singla, Kiranpreet Kaur, Shilpa, Narinder Kumar	871
138	AI-Driven Detection Mechanism for UPI Fraud and QR Code Tampering R. Ashok Kumar, Shaik Ishrat, Mallela Durga Prasad, Poona Abubakar Siddiq, NC Hari Shankar	877
139	Refining Skin Cancer Classification using Model Augmentation in Inception V4 K. Kodeeswari, M. Ramesh, Bhupesh Goyal, Geetha R, Hiralal Dwaraka Praveena, M. Cibichandru	884
140	Credit Card Fraud Detection with ADASYN Oversampling and SHAP-based Interpretability: A Comparative Ensemble Approach Amit Malhotra, Bhupendra singh hada, Anchal Mishra, Chandan, Md Shaik Amzad Basha	891
141	An AI-Driven Multi-Modal Framework for Exercise Form Detection and Correction in Strength Training Anand K, Kumar P, Hemanth Kumar R	900
142	Multimodal Low-Light Image Enhancement using Retinex-based Decomposition and Transformer Networks G. Jenifa, Mahammad Maazshareef, Chippalamadugu Kavya Sri, Tammineni Monish, Kolla Ramkumar Reddy	908
143	Insomnia Detection using Machine Learning Diksha Bhartia, Lavanya G Prabhu, Darshan Nakshatri, Kaliraj S, G. Pradeep Reddy	915
144	Integrating Advanced Convolutional and Recurrent Architectures for Speech Enhancement G Jenifa, R M Sai Likhita, M Vineela, T V Vishnu Vardhan Babu, Shaik Sabiya	920
145	Scalable Android Malware Detection Via Incremental Learning and Chi-Square-based Feature Reduction Dhruv Kejriwal, Ayush Chahar, Arjun Garg, Anshul Arora	929
146	AI-Powered Detection of Fraudulent Job Listings using DistilBERT and XGBoost Keerthi Shetty, Saiprasad K Shetty, Sanjana B, Anantha Murthy, Harshitha G M, Prathwini	935
147	A Survey on AI-Powered Solutions for Gastrointestinal Cancer: Endoscopy Image Segmentation and Classification B. Ilakkiya Arasi, U. Hemamalini	940
148	Fingerspelling for Indian Sign Language using Swin Transformer M Suchithra, Ayushi Gupta, Abhilasha Kasaraneni	947

149	Cost Function: A Cross-Domain Review of Design, Optimization, and Application in Engineering and Applied Sciences Sanket Rohidas Durgekar, Rizana Fathima, Shaima Rauf, Fathimath Faaja Faisal, Keerthana B. Chigateri	953
150	Energy-Efficient Remote Monitoring Techniques for Extending Device Battery Life and Enhancing Performance in Electric Vehicles D. Priyadarshini, P. Pradeepa, G. Banu, Nithish. M, K Athisen, R Aravinthan	963
151	Linear Systems Reduction using Differentiation and Mihailov Stability Criterion Deepti Sharma, Alok Aggarwal, Ronit Mittal, Geeti Sharma, Shalini Aggarwal, Adarsh Kumar	969
152	A Pragmatic DevOps Approach for Reducing the Time-to-Market for Business using Git and DevOps Vinay Singh, Alok Aggarwal, Shalini Aggarwal, Ronit Mittal	974
153	Pneumonia Classification from Chest Radiographs using Advanced CovXNet Model K. Kavitha, Yennam Venkata, Gidigi Venkata Kishore, Kandati Dileep, Cherlopalli Chandana, Keerthana Reddy Gundreddy	979
154	Guardians of the Green: A Review of AI, ML, and IoT Innovations Against Illegal Deforestation and Wildlife Poaching Abhijith L Kotian, Ashritha, Adhya H Shetty, Anush, Ayeshatul Hafeeza, Advith V Survarna	988
155	Taxonomic Classification and Sorting of Plant Leaf Diseases using DenseNet for Enhanced Detection and Categorization M. Gnana Prakash, D. Sungeetha	993
156	Accurate Yield Forecast for Sustainable Agriculture K. Kavitha, Deepthi Priya Muga, Abhiram Chowdary Puchhakayala, P Nithin Sai, Deepthi Perla, S.N.S.Varshith Chitturi	997
157	AI-Driven Waste Classification Model for Recycling Applications using YOLOv11 Esha Suchdeo, Ranjana Rajnish	1003
158	News2Braille: A T5-based News Summarization System for the Visually Impaired Karthikeyan M, Ananmay Anand, Jathin S. Lohi, Girirajan S, Sandhia G. K	1009
159	Food Recognition and Calorie Estimation in Mixed Food Items using MobileNet Purandhar N, Sathela Poojitha, Shaik Muzeeb Hussain, M Paavan Chowdary, Mohammad Rafi	1014
160	CNN-LSTM Hybrid Model for Predicting Strength and Durability of Steel-Concrete Composite Structures Mohamed Shafeer B, Monish Govind K, K. Vijai, Mohana Kumar N N, Tharunesh K, Ilanthulir T K	1020
161	Early Detection of Autism Spectrum Disorder in Children using Machine Learning Techniques and DenseNet Model S. Nathiya, N. Arivazhagan	1026
162	A Deep Neural Network for Analysis of Multi-Class Classification of Microscopic Blood Cell Images Subhojit Sarkar, Duvvuru Charan Teja Reddy, Shubhra Dixit, Anupama Bhan	1031
163	A Comprehensive Survey of Non-Euclidean Domain Applications in Diverse Mechanical Designs Shawn Leslie Crasto, Swapnil Shetty, Shreyas S, Shreekiran R Bhat, Keerthana B Chigateri	1037

164	A Novel Explainable Deep Learning Model for Sign Language Recognition and Translation Ramya Palaniappan, C. Rishitha, M. Sai Nikhil, B. Pradeep	1045
165	Enhancing Precision Agriculture: Deep Learning for Rice Leaf Disease Identification Padmaja Kadiri, Nikita Manne, Valipireddy Katayayani, Achyutha Maruthi Prasad, Y Rukesh Kumar, Besta Sai Kumar	1053
166	Efficient Real-Time Acoustic Monitoring System with Convolution Recurrent Neural Networks Kavitha M, Mangai S, Madhumitha B, Deepadharshini P, Aksharasree S P	1060
167	Novel Diabetic Retinopathy Disease Predictor using CNN for Healthcare Systems Shadab Hussain, Susmith Barigheid, Lalima Srivastava, Piyush Kumar Srivastava, Sandeep Gupta, Sandeep Kanaujia	1065
168	Cyber Attack Detection Model to Improve Network Security using Text-to-Text Transfer Transformer A. Jhansi Lakshmi, V. Lakshman Narayana, V Sujatha, A. Naresh, M. Vasumathi Devi, K. Satya Sandeep	1071
169	Emotion Recognition using Voice with Machine Learning Model-Android App Saranya G, Sanjay A, Vimal Kumar S, Daniel Jebin J	1079
170	AI-Enhanced Zero Trust Architecture for Cloud Security with Quantum Resilience Suryaprakash Nalluri, Murali Mohan Malyala, Hemalatha Kandagiri, Praveen Chaitanya Jakku, Kiran Kumar Kandagiri	1085
171	Currency Detection and Counting Assistance for Visually Challenged Jeba Emilyn J, Shashmitha Y, Monisha R, Meiyazhagan B K	1093
172	CookBook- A Machine Learning-based Nutritional Analysis System Leveraging SVM for Personalized Diet Planning Deepika Sai Devi Kadiyam, Varshitha Dodla, Naga Sravanthi Kothuru, Balaji Barmavat, Krupa Satya Prakash Karey, Iwin Thanakumar Joseph S	1101
173	Chronic Kidney Disease Stage Prediction using Multi-Dimensional Healthcare Data Jayapriya P, Swathika R, Radha N, Hemasri K V	1108
174	A Comprehensive Study of Bioinspired Mechanical Engineering based on Neuroscientific Insights Neha J Gatty, Raksha D, Sanskriti S Naik B, Keerthana B. Chigateri	1114
175	An Approach to Predicting the Oxidation of Coated Metals Through Machine Learning Keerthana B. Chigateri, Ajit M. Hebbale, Evan Varun Dsouza, Mladen Saldanha, Pavankumar S Lali, P Santhosh Rayalu	1119
176	Insurance Claim Fraud Detection using Benford's Method and Machine Learning Rathnakar Achary, Chetan J Shelke, Virendra Kumar Shrivastava	1125
177	Enhancing Landslide Risk Prediction with Dynamic Fusion Neural Networks for Economic Impact Assessment S. Banupriya, Shakthi Ravikumar, Srinivasan M, Sumanth Kishore V	1132
178	AutoEncoder-based Efficient Denoising for Medical Images Asha S, Parvathy M	1138
179	Detection of Cloth from Human Images with Marker Controlled Watershed Segmentation and Morphological Analysis Saranya M S, Geetha P	1144

180	Deep Learning Framework for Early Glaucoma Diagnosis: ResNet Classification & YOLOv5 Segmentation G. Shanmugaraj, M. Keerthika, Perugu Vinita, S. Devika	1150
181	Data Fusion-based Structural Damage Identification Model with PCNN Network G. Pranay Kumar, Singara Prathap, T. Varun, V. Rohith Kumar	1157
182	A Comparative Analysis on the Machine Learning based Stock Price Prediction Models J Arun, Muhammed Midlaj R, Srudhina MS, Athul Krishnan VR, Mishal K Jaleel, Sreeraj Varma R	1164
183	Prediction of Metabolic Syndrome using Machine Learning Algorithms R. Merphin, Guda Obula Mahidar Reddy, Jeripiti Venkata Tarun, Gudi Naresh, Kuruva Gangadhar, Arava Sai Charan	1175
184	AI-Ready MRI Enhancement using Hybrid Preprocessing & Quality Evaluation Techniques Susmitsingh Sudhir Pawade, Anirban Jyoti Hati, Shashank Kumar Singh, Saurabh Bansod, Jayaraj U Kidav	1182
185	SmartSight: Image Captioning-Driven Assistive Mobility System for Enhanced Scene Understanding Jyoti Madake, Dhruvesh Kamble, Santosh Kandhare, Kapil Sangameshwar, Kritika Raina	1188
186	Twitter Sentiment Analysis using a Hybrid Model of Deep Recurrent Neural Networks with Graph Convolutional Networks R. Mohankumar, R. Gopalakrishnan	1199
187	Automated Ovarian Cancer Identification from Biomedical Images using a Multi-Path Deep Learning Framework K. Bala Maheswari, S. Gomathi	1205
188	Interpreting Intrusion Detection Features using Coalition-based Game Theory and Machine Learning Nidhisheshwin M C, Shreeshaa S, Anand J V	1212
189	AI Powered Trifocals for Sign Language Detection and Speech Recognition M. Vaishnavi, R. Vikash, V. Priyadarshini, C. Sharbin	1218
190	Efficient OFDMA-based Solutions for Latency-Critical Healthcare Applications Maanav Thalapilly, Kisor G, Ketone Agasti, Sessa Sai Shriya Indarapu, Subhasri Duttagupta	1225
191	A Novel Decentralized Authentication Framework with Gelocation and MFA Enabled JWT for P2P Social Network Applications Kumaran K, Saranya G, Dhanush S R, Prabhuraj S	1232
192	Spatial Modulation based Orthogonal Time Frequency Space Modulation – Multiple Access R. Jayashri, G. Ramkumar	1239
193	Power Optimized FPGA Implementation of FIR Filter using Sub Component Minimization Appari Nagaratnam, G Prasanna Kumar, K Srinivas	1244
194	Optimized Tariff Structures with Incentive-based Pricing for Demand-Side Management in Smart Grids Stephy Akkara, A. Immanuel Selvakumar	1249
195	Real-Time IoT-based Vehicle Accident Detection and Emergency Response System using Multi-Sensor Fusion A M S V Sushma, A Aswini Priyanka, Subhashini Tata, Thoram Saran Kumar, Madam Aravind kumar, Bala Sindhuri Kandula	1256
196	An Implementation of DOT 1X for Secure Network Access in SDN Vaidehi Shah, Pranay Yadav	1264

197	Agri-Botics (Seeding the Future) V. Baby Shalin, Tammineni Pavan Kumar, Nerella Venkata Siva Sai Sandeep, Miriyala Manikanta	1270
198	DL-SecureNet: A Transformer-based Cybersecurity Framework for Threat Detection in 5G and Beyond P. Shyamala Bharathi, R. Tejaswi	1276
199	IoT-Driven Smart Parking with LoRaWAN and Magnetic Sensors for Advanced Vehicle Detection M. Tamilselvi	1283
200	Development of Hybrid Deep Network-based Decision Making Process for Cognitive Cyber Security by Cognitive Science P. Shyamala Bharathi, T. Jayaprakash Reddy	1288
201	Analysis of IoT-based Smart Grid with Buck-Boost Converter for Voltage Stability D. Velmurugan, K. Sharmela. G. Banu, Keerthana G, Selvanayaki. B, Madhubala. S	1297
202	Low Latency Direction of Arrival Estimation on FPGA for Multi-Source Scenarios G Prasanna kumar, M Bhanu Sri, M Greeshma sri surya, K Jayanth Manikanta, M Mujafar, K Vinay	1301
203	Graph Neural Networks for Intrusion Detection in Next-Generation 6G Networks: A Cybersecurity Perspective P. Shyamala Bharathi, M. Mohan Raj	1306
204	A Privacy-Preserving Blockchain Framework for Personal Data Sharing J. Pradeep Kumar, Venkata Nagaraju thatha, Ch. Nandini, Y. Gowthami, G. Sahithya, B. Gowtham	1313
205	Cloud MCB Trip Monitor: IoT & ML Prediction using Flutter N. Gangatharan, Nethra P, Dhaarani S, Ranjitha. S, Nivetha R	1317
206	A Review on IoT-based Cattle Monitoring Technology Sudhir K. Routray, Sutapa Sarkar, Monika Singh, K P Sharmila, M. Pappa, Mahesh K. Jha	1325
207	A Survey on Real-Time Traffic Signal Optimization using Deep Learning and Vehicle Tracking Anant Saini, Jyoti Srivastava	1330
208	Efficient VLSI Architecture for OTFS-MIMO Transceiver in Multipath Fading Channels A M V Pathi, D Durga Prasad, M Sai Mukhesh, M Utkarsh Nandan, M Dileep Kumar, K M V S Subrahmanyam	1338
209	Design and Analysis of 8x8 Multiplier using 2:1 Multiplexer based Adder S. Nagaraj, K. Jathin Reddy, K. Lavanya, K. Reddemma, K. Yasmin, K. Dhanunjaya	1344
210	Fair Distribution Routing Algorithm for Underwater Wireless Communication using Machine Learning Grace Jemimah B, Rajesh D	1352
211	Comparative Analysis of Genetic Algorithm and Simulated Annealing for Feature Selection in Android Malware Detection Across Multiple Feature Sets Aryaman Singla, Aniket, Aryan Nitinkumar Rajpara, Anshul Arora	1357
212	Defending against Routing Attacks with Privacy-Preserved Localization in Wireless Sensor Networks Bhadrachalam K, Lalitha B	1363
213	An Automated Smart Waste Management Systems using Support Vector Machine C. Kalaiselvan, G. Sowmya, K. Nageswararao	1372

214	Enhanced Emotion Recognition using EEG Signals: A Comprehensive Analysis of Machine Learning and Ensemble Approaches A. Akilandeswari, Saravanan Murugan, Vasanthakumar Gnanasambandam, N. Duraichi	1377
215	Adaptive Rank Approximation for FFT-based Toeplitz Inversion in Structured Covariance Estimation Kanchana R, F. Mary Harin Fernandez	1384
216	Smart Control Strategies for Voltage Regulation in Grid-Tied PV Systems: A Comprehensive Overview S. Sudha Merlin, S. Malathi	1390
217	Design and Implementation of FP32 MAC for DNN Rajaswini P. Joshi, Anand N, Saurabh Kesari, Shashank Singh, Ravi Ranjan, Jayaraj U. Kidav	1397
218	Enhancing Endpoint Security Through AI Powered Anomaly Detection in Endpoint Logs using Local Outlier Factor (LOF) Akbar Badhusha Mohideen, P. Krishna Sai, Y. Subhan Basha, S. Sohel, Y. Venkateswara Reddy	1403
219	Fabrication of Windmill and Solar Laptop Mobile Charging System Bothe Ishwari, Pramod Game, Debraj Bhowmick, D. B. Pardeshi	1412
220	AI-Driven Energy-Efficient and Secure Communication Protocol for 5G and 6G Networks Ritika R. Chouksey	1417
221	Real-Time Human Tracking and Activity Recognition using GPS, IPS, RFID, and Computer Vision Sobhana Mummaneni, Tribhuvana Sree Sappa, Venkata Gayathri Devi Katakam	1422
222	Alert System using Vibrotactile Technology for Hearing Impaired Ananya Prasad, Carina Miriam Sedric, Gowri Krishnan L, Parvathy A, Varsha S R, M. J. Jayashree	1428
223	IoT-Driven Air Quality Monitoring and Predictive Analysis with Explainable AI M. Sobhana, Lalitha Devi Katakam, Pali Ramya Sri, Mounika Lingamallu	1434
224	Quantum-Driven Resilient Pathway Discovery for Optimized Security and Performance in MANETs under Adversarial Conditions A. Aravind, A. Poongodi	1440
225	Design of IoT based Portable Automatic Accident Detection Robot Shanthi N, Diwakar V N, Harish E, Balaji A, Vijayaraja L, Dhanasekar R	1447
226	Resource Harmony: Integrating AI and Blockchain for Decentralized Solutions Nongmeikapam Thoiba Singh, Shivani Mahendru, Priyanka Sharma, Ramandeep Kaur, Jyoti Rani	1451
227	A Novel Approach to Packet Dropping and Malicious Attack Detection using Ensemble Techniques Joseph John Martin, Jossy P George, Bosco Paul Alapatt	1458
228	An Algorithm for Cybersecurity Threats Detection in the Internet of Things using Deep Learning Approach Saksham Mahnot, Jossy P George, Bosco Paul Alapatt	1464
229	Deep Learning-based Cybersecurity Framework for IoT Environments Abhipsa Mahapatra, Bosco Paul Alapatt, Jossy P George	1472
230	High-Efficiency BeamSpace MIMO with Electromagnetic Lens Arrays for Next-Gen mmWave Communications R Saravanakumar	1478

231	Transforming GST Administration for Efficiency and Transparency by Blockchain Gayathri B, Vishwa Priya V	1485
232	X-Shaped Dual Band Metasurface for Wi-Fi 6E/7 and Radar Applications Kavitha S, Ashish Singh, Mohammad Aneesh	1492
233	Enhanced V2G and G2V Operation using Fuzzy Logic Controller and EMI Filtering in EV Chargers R. Tamilamuthan, S. Suganthi, S. Dinakar raj, Sabareeshwaran M	1498
234	Optimizing Electric Vehicle Charging Through Integration of Flexible Energy Sources S. L. Sreedevi, B. T. Geetha, R. Tamilamuthan	1507
235	Enhanced Signal Processing for Arrhythmia Detection in ECG: Comparing Various Machine Learning Approaches G. P. Bharathi, K. Meena alias Jeyanthi	1514
236	Optimizing Three-Phase AC Induction Motors for Battery Electric Vehicles: A MATLAB/Simulink Approach Ankita Gupta, Akshay G. Bhosale, Paresch Nasikar	1521
237	Real-Time Health Surveillance System for Paralyzed Patients using IoT and Smart Sensors Aswin Sujith Varghese, Hudaif Abdul Hameed Neroth, Adarsh A, Poojashree Murali, Deepa Natesan	1528
238	Smart IoT based Air Quality Monitoring and Alert System using WEMOS D1 Menaka R, Sandhiya J, Thanusri M R, Mohamed Fahim M, Selvaganapathy C	1535
239	ECOSOLAR: Enhancing Renewable Energy with Dust Detection using Deep Learning Models Anna Anbumozhi, S. Vishnu Vardhan, Vechalapu Kanaka Durga Prasad, Aketi Sai Manohara Naveen, Ranjith Kumar Govindasu	1541
240	IoT Enabled Aquaponics with AI Prospects: Advancing Automated Monitoring and Sustainable Food Production Kalaivani S, Nami Susan Kurian, T. D. Subha, C. Nithiya, Ragapreeti D, K. Charan Sai	1549
241	Blockchain-Integrated Decentralized Supply Chain System Leveraging Cryptographic Verification and Secure Smart Contracts S. Roshan Kumar, S. Harsha Vardan, Adithya Yuvan. V, S. S. Subashka Ramesh	1554
242	Comparison of Inter-Leaved Boost Converter with Sliding Mode Controller for EV Applications Rajesh Kumar Mahopatra, S. Gomathi	1560
243	Adaptive Policy-Switching Reinforcement Learning for Resource-Constrained Autonomous Systems S. Saraswathi	1566
244	A Hybrid AI-Blockchain Framework for Secure and Resilient Network Infrastructure Anup Singh, Namrata Dhanda, Kapil Kumar Gupta	1574
245	Compact Multi Frequency Reconfigurable Patch Antenna with Single Ground-Plane Pin Diode for Electronic Surveillance and Wireless Communications M. L. S. N. S Lakshmi, Gayatri Tangirala, D. M. K. Chaitanya, Srinivasu Garikipati, Tejaswita Kumari, Srinivasarao Alluri	1581
246	A Brief Literature Survey on Cryptography Models for Detection of Cyber Attacks in Internet of Things Enabled Smart Cities Ch Sowjanya, D V Nagarjana Devi	1589

247	Optimizing Industrial Automation with Digital Twin & IoT Sensors Vimal S P, Aswath Kumar. S. T, Guru Saren. M, Dinesh Kumar. S	1597
248	Generative AI Versus Classical Imputation for Real-Time IoT Data Recovery: A Comparative Review Nibi K V, Akshay Gopal, Aryadevi Remanidevi Devidas	1603
249	Real-Time Weather Data Acquisition for Precision Agriculture using Drones Burla Akash, Golla Venkatasai, B. Karthik Sai, T. Jaganadhaswamy	1611
250	Real-Time Expiry Alert System for Safer Retail using Barcode and QR Code Recognition G. Mariammal, Swetha. S, Noorani. J	1616
251	Performance Analysis of Multi-Absorber $MgFe_2$ / $CsSnI_3$ Solar Device using SCAPS Karthikeyan B, Suveetha Dhanaselvam P, Vinitha K S, Amrutha Devi T R V, Saranya R, Kavitha K	1622
252	Efficient Road Navigation with Deep Learning on Damaged Routes R. Anto Pravin, A. Sai Prashanth, D. Revanth Kumar, M. Naga Sujana	1628
253	A Smart IoT Powered Driver Fatigue Monitoring and Safety Alert System Sathiya S, Tharun Pranav K S, Thirumurugan B, Parimala Devi M, Vigneshwaran B, Sasikanth A	1634
254	Design and Deployment Challenges of IoT-Enabled Irrigation System for Sustainable Intercropping Lekshmi G. S, Vishnu S, Aryadevi Remanidevi Devidas, Raji Pushpalatha	1640
255	Integrating AI Architectures for EEG Data Analysis and Brain Activity Classification Shourjyo Bhattacharya, Susmitha Vekkot	1647
256	Attribute-based Encryption on Ethereum for Smart City Access Control S. Saraswathi	1655
257	SmartChain RBAC: A Lightweight Role based Access Control Protocol using Private Blockchain for Smart Cities S. Saraswathi	1662
258	Context-Aware IoT Models for Detecting Dangerous Scenarios-A Systematic Review Kommu Kishore Babu, R. Venkatesan	1671
259	Evaluating the Performance of Random Forest Regression in Predicting Electric Motor Temperature S. Gomathi	1676
260	A Mobile-Friendly Automated Shopping System using ESP32 for Shopping Malls Prajakta Dahatonde, Samruddhi Gorde, B. B. Kadam, D. B. Pardeshi	1681
261	Efficient Multi-Task Learning for Social Media Stance Detection via Context-Aware LoRa Adaptation Aman, Gautam, Gautam Singh Tanwar, Sumedha Seniaray	1686
262	Shannon Adder-based 8×8 Multiplier with Power and Error Optimization Jeevitha R, Ramalingam S, Gayathri Devi B	1694
263	ImHQC: Improved Harris Hawk Optimized Modified Elliptic Curve Digital Signature Encryption-based Malware Prediction and Secure Data Sharing Framework Jolly Nikhade, Shrikant V. Sonekar	1700
264	Enhancing Autonomous Vehicle Navigation: Traffic Police Hand Gesture Recognition for Self-Driving Cars in India using MoveNet Thunder A Hema Malini, B Praveen Babu, K S Logesh	1708
265	Enhancing the Vehicle Performance, Ease Enhancement Features using the 'Steer-By-Wire' System	1716

	B Aruna Devi, Vijayalakshmi B, Swathy P, Rithesh R, Nava Neetha Manikandan R, Varadharaju G	
266	An IoT-Enabled Intelligent Biofloc Monitoring Framework for Aquaculture with Machine Learning A Hema Malini, Mummadi Venkata Bhanu Prakash Reddy, Bomma Venkata Raja Vardhan Reddy	1726
267	Comparative Study of Feature Selection Methods for Deep Learning-based Intrusion Detection in IoT Networks Keshav Gogia, Rakshan Narula, Kunal Bansal, Anshul Arora	1733
268	A Literature Review of Federated Learning for Energy Load Prediction in Smart Grid Samuel-Soma M. Ajibade, Muhammed Basheer Jasser, Angela Lee Siew Hoong, Oluwadare Joshua Oyeboode, Anthonia Oluwatosin Adediran, Adedotun O. Adetunla	1739
269	Review of Group Formalism for Automated Formalization in Mechanical Engineering Mouly K B, Bernardo Sebastiao, Milton Kakupa, Keerthana B. Chigateri	1744
270	Evolution of Path Planning Techniques For Mobile Robot – A Mini Review S. Anuvashini, S. Pranesh, M. Sreedevi, M. S. Sureshkumar	1754
271	LIDAR based Mapping and Path Planning for Autonomous Vehicles Aditya Dahake, Jay Chinchkar, Rohit Chulpar, Shripad Bhatlawande, Swati Shilashkar	1762
272	A Review on Scattering Wavelet Networks for Fault Detection, Structural Monitoring, and Material Classification in Machineries Dhrishya Shetty, Krithika K, Nirupama G N, Sriharsha Upadhya P, Keerthana B. Chigateri	1770
273	Enhancing Wildlife Monitoring: Real-Time Alerts Through Email and Messaging K. Vidhya, Ruban Clement F, Nagarajan B, T. M. Thiyaagu, Jenefa Archpaul, C. P. Shirley	1779
274	Explainable AI-Driven Detection of Adversarial Attacks in Deep Wireless Signal Classification M. V. Rajee, T Ramya, Balammal@Geetha, ValliSuseela R	1786
275	Edge-Driven Data Acquisition and Intelligence for Real-Time Energy Management in Smart Grids S. Janani, V. Sumalatha	1791
276	FPGA-based High-Precision MCU Testing using Pattern Latching and DDLL Arunkumar K, Nalini Devi. S, R.Vani, Vijay Albert William M, Nantha Balaa. V, Guma Ali	1798
277	IoT-based Bolt Loosening Detection System for Structural Integrity Monitoring Anuj Goyal, Abhinav Kumar, Shruti Verma, Aastha Olla, Kunwar Singh	1804
278	AI-Optimized Warehouse Systems: Combining AGVs, RFID Technology, Zigbee Networks, and Agent-based Simulation Models Sharadha Kodadi, Durga Praveen Deevi, Naga Sushma Allur, Koteswararao Dondapati, Himabindu Chetlapalli, Thanjaivadivel M	1811
279	AI-Powered Supply Chain Management: Combining ASRS, Slotting Optimization, Economic Simulations, and Energy-Efficient Warehousing Solutions Chaitanya Vasamsetty, Sunil Kumar Alavilli, Bhavya Kadiyala, Rajani Priya Nippatla, Subramanyam Boyapati, Sushma. K	1818

280	Optimizing Mechanical Strength and Wear Resistance of Aluminium 6063 Composites with Zinc and Aluminium Oxide D Jayaseelan, M Sakthivel, V Tharunprasath, U Vivek	1825
281	A Comprehensive Review of GRU-based Intelligent Fault Diagnosis in Industrial Systems Apeksha Babanand Pai, P J Prajanya Jain, Srashti D Shetty, Keerthana B. Chigateri	1831
282	Industrial Safety Monitoring System by Solenoid Valve using IoT Kayathri T L, Abinеш R, Dharun Praney R R, Gokulakannan D, Abishek Kumar B	1837
283	Deep Graph Neural Networks for Intelligent Traffic Routing in Software-Defined Networks Judy Simon, Nellore Kapileswar	1843
284	Quantum-Resilient Consensus Mechanisms for Scalable Blockchain Networks using Lattice-based Cryptography Nellore Kapileswar, Judy Simon	1849
285	The Role of Edge Computing in Enhancing 5G Networks Vidya, Bharath H D, B B Naik, Bharath M, Basavaraj, Deepak	1855
286	Design and Implementation of an Efficient DMA Controller with Error Detection for Embedded Systems Aditya Bhagwat, Saurabh Kesari, Shashank Singh, Ravi Ranjan, Anand N, Jayaraj U Kidav	1860
287	Next-Generation Underwater Magnetic Induction Systems by Exploiting Self and Mutual Inductance Synergies K Sathish	1866
288	Advanced Smart Safety Helmet for Motor Cycles using Real-Time Sensor Data K Yogeshwaran, V G Dharshini, S Aishwarya, A Elanthamizan	1871