

# **2024 5th International Conference on Smart Electronics and Communication (ICOSEC 2024)**

**Trichy, India  
18-20 September 2024**

**Pages 1-685**



**IEEE Catalog Number: CFP24V90-POD  
ISBN: 979-8-3315-0441-0**

**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:	CFP24V90-POD
ISBN (Print-On-Demand):	979-8-3315-0441-0
ISBN (Online):	979-8-3315-0440-3

**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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# **5<sup>th</sup> International Conference on Smart Electronics and Communication**

## **ICOSEC 2024**

**18-20, September 2024**

### **Table of Contents**

S. No	Paper Title/ Author Name	Page. No
1	An Optimal Controlling of COVID-19 Preventive Measures Variable for Environmental Sustainable Solution using Genetic Algorithm Sunil Semwal, Mehul Manu, Krishnan Bandyopadhyay, Pankaj Kumar, Tripuresh Joshi, Pushpendra Singh Kharayat	1
2	Design and Development of Pelletizer Automation using Load Control Prabhu K, Vijayachitra S, Mukila D, Mukesh L B, Nithesraj G	7
3	Time Series Analysis in Data Science: Forecasting Trends and Anomalies Latha Narayanan Valli, N. Sujatha	15
4	Plasmonic Solar Cells: Mechanism and Fabrication Techniques Sandeep Tiwari, Jai Prakash Singh, Yashna Sharma	21
5	A Short Survey of AI-driven Load Distribution for Electronic Health Record Management with Recent Deployed Techniques, Research Gaps and Challenges S. Suryanarayananaraju, M. Chandra Naik, R. N. V Jagan Mohan	29
6	An Electric Motor Controlling and Assessment using PID based Particle Swarm Optimization Vrij Mohan Vidyarthi, Surya Kant, Deepali Sharma, Sandeep Kumar, Shaheen, Vinay Kumar	38
7	Designing a Step-Shaped Antenna for Versatile Multiband Applications Theivanathan G, Jayandhi G, Kavitha V P, Magesh V	44
8	Design of Ultra-Wide Band Antenna for the Diagnosis of Colon Cancer Jamel Smida, Mohamed Karim Azizi, Anandh Sam Chandra Bose, Amor Smida	53
9	Hardware Efficiency and Thermal Management in FPGA Devices: Power Consumption and BCD to Excess-3 Code Implementation Gurdeep Singh, Amanpreet Kaur	59
10	Thermal Behavior of Half Subtractors on Virtex and Genesys FPGA Boards: A Comparative Study Gurdeep Singh, Amanpreet Kaur	63
11	Optimizing Hardware Resources: A Study on Power, and Temperature in Priority Encoder Gurdeep Singh, Amanpreet Kaur	68
12	Implementation of Embedded System based Poultry Feeding Trolley Automation Mahesh N, Prabhu K, Sudha G, Deepak K, Dharun S, Dinaker S	72
13	Automatic Weighing and Packing of Blended Spices S. Vijayachitra, K. Prabhu, G. Hareesh, V. T. Jayasoundhar, S. R. Kharnika	78
14	A Non Linear System Controlling using Constrained based Genetic Algorithm Vrij Mohan Vidyarthi, Deepali Mishra, Amit Mittal, Krishnan Bandyopadhyay, Shivali Pundhir, Niharika Varshney	86
15	Accelerating Urban Scene Understanding for Autonomous Vehicles with Multi-GPU Training of Semantic Segmentation Anusha Jayasimhan, Pabitha P	92
16	Design of Microstrip Patch Antenna with S-Slits for Wireless Applications Venkataramanan.C, Nagarajan. P, Ashok Kumar. N, Porkodi. K. P, Kanmani Pappa. C, Kabilamani. A	100

17	Fault Detection and Classification of Faults in Hydropower Plants Swathi J S, Jeffery Austin T J, Mounesh V, Birundha S	105
18	Design of Microstrip Patch Antenna with a Circular Shaped ISM Band Applications Julia Karal Adisaya R, Jasmine David D	111
19	Optimized Level Shifter with Logic Error Correction Munnaluri Sai Ram, Vivek Marupudi, Sonali Agrawal	115
20	Complementary Split Ring Resonator Loaded Proximity Coupled Triband Antenna for Sub-6 GHz Use Cases Sam Suresh. J, Soundarya. G, Vijayakumari Ganesan, Vedha Vinodha. D	121
21	Multiband Reconfigurable Antenna with CPW Feed and PIN Diode Switches: Design Considerations and Performance Evaluation Annu Tiwari, Muhammed Yasir Yilmaz, Gaurav Kumar Soni, Dinesh Yadav	125
22	Enhancing Fire Safety: A CCTV-based Alert System G. Harish, V. Varshitha, K. V. V. Kumar, E. Suneel, Aswini Valluri, P. Sandhya Rani	129
23	An Energy Efficient Reconfigurable Polar Encoder for Next Generation Wireless Applications Radha N, M Maheswari	135
24	An Intelligent Switching Controller for a Plug-in Hybrid Electric Vehicle: A Comparative Analysis K. Sai Dileep Kumar Reddy, M. Lokesh Reddy, Diddi Ramakrishna, K. Sireesha	141
25	Investigation on High Gain and Circularly Polarised Two Port Array based Dielectric Resonator Antenna for mm-wave 5G Applications Ashutosh Gupta, Ankit Pandit, Sanjeev Kumar Gupta	147
26	Power Optimization in CMOS based EX-OR Gate using Pass Transistor Technique Priya Verma, Mukesh Tiwari	152
27	Performance Analysis of Vedic Multiplier using Different Adders Nagaraj S, Srinivasul Reddy K, Deekshith Varma K, Rupa Sri K, Likhitha K, Vamsi K	158
28	Green Communication Incorporated Blue LED-VLC System for Indoor Applications Meet Kumari, Neha Sharma, Rahul Chauhan, Kireet Joshi	168
29	Geometric Insights for Energy-Efficient Building Design: A Differential Geometry-based Regression Approach Anirudh S, Rejeti Kartik, Potula Radha Nishant, Mahadevi E Malkhed, K. Dinesh Kumar	174
30	Detection of Bullying Text: A Multi-faceted Approach using Machine Learning and Natural Language Processing Kotyada Mohan Kiran Kumar, Karthik Ullas, Vivek Srikanth Reddy, Munaga Sai Snehitha, Mahadevi E Malkhed, Dinesh Kumar K	180
31	A Review on Comparative Performance Analysis of Process Parameter Variations in Rectangular and Triangular FinFETs R. Linie Sharon, A. Shirly Edward	187
32	Comprehensive Analysis of SEU and Vth shifts of 18nm FinFET and 45nm MOSFET Devices against Radiation Effects Prashanth Srinivas N, T Ravi	194
33	Fuel Cell Electric Vehicle Performance and Analysis using Hydrogen I Arul Doss Adaikalam, Karthikeyan Chandrasekaran, S. Raja, K. Manimekalai, R. Manimegalai	198

34	A Comparative Analysis of 8-Bit Parallel Prefix Adder Architectures M. Bharathi, V Madhurima, G. Sandhyakumari, M. Poornima, Saleha Tabassum	202
35	Feasibility Study of Solar PV Powered Water Pumping and Distribution System - A Case Study of Academic Campus Basanagouda Ronad	208
36	Battery's Cell Performance with Comparative Analysis of DeepTCN, TL, LSTM and GRU using Synthetic Dataset K. Rahul Annamalai, K. Deepa, Arya Jha	216
37	Cost-Effective Dual-Axis Joystick with Haptic Feedback for Enhanced User Interaction Lokesh Khedekar, Anagha Pandit, Rutuja Apte, Bhoomi Adke, Arnav Badve, Piyush Ambade	221
38	Design and Implementation of an Off Board Battery Charger for Electric Vehicles using Optimal Controller R. Sathiya, Priti Rishi, A. Vasuki, V. Akila	225
39	Autonomous Precision Crop Planting Robot Nataraj B, Prabha K R, Nitheesh K S, Sanjeev S, Ramkumar K	233
40	HBM3 Architectural Specific Checks and Timing Closure Bharath R, Kirti S. Pande	239
41	Advancements in Tunnel Field-Effect Transistor Structures for Biosensing Applications: A Comprehensive Survey K. Lakshmi Priya, S. Karthik	245
42	Enhancing Viewer Engagement: Exploring Generative Long Short Term Memory in Dynamic Ad Customization for Streaming Media Shashishekhar Ramagundam, Niharika Karne	251
43	Design of Super-Lift Luo-Converter with of Buck Converters for Electric Vehicle Applications S. Gomathi, Ammal Dhanalakshmi, V. Janakiraman, D. Sheela, V Balaji, Carmel Mary Belinda M J	260
44	Smart Fan with Sensor based Activation and Environment Control System Y Sarada Devi, Anyam Chaitanya, Katari Sanjay Kumar, Potnuru Bharath Chandra, K Venu Gopal	265
45	Design and Performance Improvement of Five Stage Interleaved Boost Converter for Electric Vehicle Applications S. Gomathi, B. Duraiabu, Ammal Dhanalakshmi, S. Nalini Jayanthi, Kirubakaran D, Leema Nelson	273
46	Non Destructive Estimation of Electrolytes Present in Body Fluids using Multifrequency Bioelectrical Impedance Analysis Neelamegam Devarasu, Bhuvaneswari Panneerselvam, Satish Sekar	278
47	Enhanced Bank Locker Security System Utilizing RFID for Dual-Layer Protection Anusooya Vadukanathan, Gnanakumar Duraikannu, Venkatamuthukumar Jaganathan, Srividhya Sridhar, Gobalakrishnan Suyambrakasam	283
48	Acquisition and Evaluation of Brain Waves using EEG during Push-Pull Effects on Tilt-Table Procedures Taha Alam, Munna Khan, Ali Tabish Ansari, Kashif IK Sherwani	289
49	Advanced Vehicle Speed Control System: A Next Generation Intelligent Transport System Anumol Mathai, Sanjai S, Sakthivel B, Vasanth D, Tamil Inban	295
50	Assessing CO <sub>2</sub> Gas Emission in Residential Areas: Implications for Sustainable Urban Development Budi Vaishnavi, Varikuti Sai Soumya Reddy, K. Deepa, V. Sailaja	302

51	Design and Simulation of Speed Limit Control for Electric Vehicles in Variable Zones V. Radhika, Kiruba R, Saranya M	308
52	A Comprehensive Analysis of Integrated Photovoltaic and Flywheel Energy Storage Systems L. Chitra, G. Selvakumar, S. Prakash	313
53	Digital CMOS VLSI Implementation and Assessment of Power Efficient Delay Flip-Flop using Dynamic CMOS Logic for Low Power VLSI Systems P. Nagarajan, I. Chandra, N. Ashokkumar, M. Thiruveni, Anita Christaline Johnvictor, R. Bhairavi	319
54	Spatially Variant based on Patch Division for Digital Pill Analysis using Prototype Model R. K. Nehaa, N. Bharathiraja, Daniel Joseph Samuel, Deepa. T, S. Hariprasad	325
55	Design and UVM based Verification of UART, SPI, and I2C Protocols Nishant Sahay, Sachin Gajjar	330
56	Exploring Innovations in Autonomous Robotics and Mechatronics: Application in Manufacturing and Healthcare T. Grace Shalini, L. Ganesh Babu, Priyanka Chemudugunta, Nagendar Yamsani, CH. Ashok Kumar, A. Athiraja	336
57	Wireless Parameter Monitoring of Solar-Powered Electric Vehicles Sri Chaithanya Mathi, Pooja Naidu Tammisetti, Hardhik Krishna Gowra, Manitha P V	343
58	Investigations on Solar PV for Improving its Efficiency through Thermal Management Muthukumar S, S. P. Gowtham, N. Harikannan, P. T. Saravanakumar, M. Venkatasudhahar, P. Manoj Kumar	350
59	Review of Metamaterial-based Antennas: Shaping the Future of 5G Mobile Communication Sajith Kumar S, Jasmine David	354
60	Kinematic Modelling of a Smart Robotic Arm for EV Charging G. Sai Harshini Royal, Desu Sreenija Reddy, Sriram Karthik, Lekshmi S	361
61	Enhancing Safety Against Flash Hazard in a 400kv (AIS) by Incorporation: A Fault Current Limiter in ETAP Anbarasan S, P. Vanitha, Jerril Gilda, K. Niraimathy	368
62	Intelligent Techniques based Power Transformer Health Monitoring Index using Dissolved Gas Analyser S. Abitha, M. Yuvarani, B. Hirija, B. Vigneshwaran	373
63	Stepped Rectangular Patch MIMO Antenna with DGS for Microwave Imaging Applications M. Baby Sanjana Reddy, K. Premchand, M. Chetana, M. Sowmya	378
64	Rover-for Small Scale Plastic Collecting Applications P. Abhishiktha, S. Kalpana, A. Sivakumar, G. Sheeba Rani, P. Sai Sri Ganesh	382
65	A Conceptual Design of Remote Controlled Solar Panel Cleaning Robot Thiyagarajan Jayaraman, M. Vijayakumar, T. Jayakumar, Murali A, Karthikeyan B, Suriya T	387
66	Adaptive Huffman Coding with Memory Optimization Ramyasri Maturi, Raju Javvadi, Vignesh Naga Manikanta Sunkara, Sunkara Teena Mrudula	392
67	Electronically Tuneable Low Power Cascaded OTA-C Fifth Order Notch Filter for Front End ECG Processing System Ashish Dixit, Anil Kumar, Sachchidanand Shukla, Geetika Srivastava	397
68	Realtime Text File Transmission using Software Defined Radio with High Directional Circular Waveguide Antennas	404

	V S V V Ramganesh, G Sahithi, V Jithesh, Sanjika Devi R. V, Parul Mathur, Dhanesh G. Kurup	
69	Challenges in Cyber Physical Social Systems and Internet of Things S. Revathi, J. Raja, Mohanraj. M, K. Malathi, Balasubbareddy Mallala, R.G. Vidhya	409
70	Routing Security in RPL-based Internet of Things (IoT) Networks using Whale Optimisation Algorithm and Unsupervised Machine Learning P. S. Nandhini, Saravanan Matheswaran, Priyanka Lingala, N. M. Indhumathi	414
71	Challenges and Resolutions for Integrating PV Solar Plants into the Grid using AI Techniques in a Uniform Environment Surya Kant, Sarabjit Singh, Komal Mehra, Chandan Vichoray, Pushpendra Singh Kharayat, Mukesh Soni	420
72	Estimation of Signal to Noise Ratio in 5G Communication through ML based Predictive Models Sandeep Kumar Sunori, Priyanka Joshi, Shilpa Jain, Pradeep Juneja, Amit Mittal	426
73	Revolutionizing Healthcare: Federated Learning for Large-Scale Image Processing in IoT-Integrated Systems Kiran Chand Ravi, Subramanyam M Vadlamani, Asim Kumar Basu, Vivek Kumar, Satadal Mallik, K. Sreelatha	432
74	Smart Healing: Revolutionizing Patient Care with Automated Beds and Health Tracking S. Girija, Asha Sundaram, S. Thangamayan	440
75	Experimental Evaluation of an Internet of Things enabled Blood Pressure Prediction System using Enhanced Learning Methodology G. Ramkumar	448
76	Revolutionizing Healthcare Operations using Narrowband Internet of Things for Efficient Data Transfer and Device Integration Sohini Ghosh, Prasanna Kulkarni, C. G. Balaji	455
77	Transforming Agriculture with IoT: A Comprehensive Framework using Raspberry Pi and ROS Jagadeesh Pradhani, N M Nandita, Someshekhangoud, Jayashree Mallidu	462
78	Enhancing Cryptographic Security through Recurrent Neural Networks Balajee Maram, Ashwini Mandale –Jadhav, Ratnababu Pilli, Neeraj Sharma, Joel Krupakar Gutla, G. Charles Babu	468
79	Dynamic RL-ACO: Reinforcement Learning-based Ant Colony Optimization for Load Balancing in Cloud Networks Satyanarayana Nimmala, M Ramchander, Maragoni Mahendar, Pinnapureddy Manasa, Dokku Durga Bhavani, K RagHAVendar	475
80	An Analysis on the Impact of 5G on Edge Computing Seema Gupta Bhol, Sarita Tripathy, Aarzoo Verma, Prasant Kumar Pattnaik	481
81	Analyzing Cloud Performance Optimization: Strategies to Enhance Cold Start Latency Syed Hasif Alisha, Shaik Mohammad Mohasin, Bolisetty Naga Venkata Siva Sai, Dheeraj Vajrapu, Praveen Tumuluru, Lakshmi Ramani Burra	487
82	IoT based Utility Consumption Trend Prediction and Usage Management Stephen Philip Kallarackal, M Krishna Priya, Sanker S Menon, Suraj Koithot Abraham, Abraham Thomas	493
83	Personalized Method for Voting in Wireless Mobile Adhoc Networks with Intrusion Detection using NS2 Simulation Model Muthukumar S, Senthil Pandi S, Menaga D, Sudhahar T. N	498
84	IoT based Power Theft Detection for Transmission Lines P. Veeramani, I. Aravindaguru, MR. Prathap, LR. Bhavesh, R. Kamalesh, A. Taahir Hassan	507

85	Federated Learning Approaches for Decentralized Data Processing in Edge Computing G. Janaki, D. Umanandhini	513
86	Malicious Node Detection Model with Enhanced QoS Mechanisms in Wireless Sensor Network for Secure Data Transmission O. Aruna, Midhunchakkavarthy	520
87	Empowering Mental Health Awareness: Naive Bayes Analysis of Social Media Interactions Ruchika Bhuria, Sheifali Gupta	525
88	A Study on Verification of APB Protocol Dhanush P. Kumar, Kirti S. Pande	530
89	Enhancing Lung Disease Identification with Multimodal Data Fusion and Deep Learning CNN Approach T. Grace Shalini, G. Susan shiny, R. Saranya, Suresh Babu P, R Kavitha, Athiraja Atheeswaran	535
90	Innovative Solutions for Sustainable IoT in Smart City Infrastructure S. Arul, P. Kavitha, S. Kamalakkannan	542
91	Revolutionizing Aquaculture Practices: IoT and Deep Learning-based Remote Monitoring for Sustainable Fish Farming S. Prince Chelladurai, G. Susan shiny, S. V Jeevitha, P Swapna, R. Pavithra, Arulraj S	547
92	Sensor Enabled Vehicle Parking System using Blynk IoT Application G. Sekar, Benson Mansingh P. M, J. Prasad, Britto Manoj. A	554
93	Slope Selection Regressive Probabilistic Rabin Trapdoor Signcryption based Secure Data Transaction in Fog Computing T. Rajkumaran, T. K. Shanmugam	559
94	Home Security Voice based Alert System using IoT P. Pandiaraja, Venkatramani R, R. Arunraj, Rajesh Kanna P, Mahendran G, T. Suresh	569
95	AI-Enhanced Farming: A Real-Time Monitoring App Powered by IoT R. Gayathri, R. Sathesh Raaj, M. Balaanand, J. Arun Kumar, Sasikala N, K. Rajesh	575
96	Circularly Polarized Two-Port Dielectric Resonator based Filtering Antenna for mm-wave 5G Communication System Abhishek Kumar, Jitendra Ahir, Sanjeev Kumar Gupta	582
97	AI-Driven Pothole Recognition and Autonomous Vehicle Alert System Vutukuri Sarvani Duti Rekha, Surya Prasada Rao Borra, Karlapalepu Hemasri, Chevuri Dhruva Chandra, Maradani Uma Sri, Ambadipudi Sri Khyathi	587
98	Automatic Calendering Roll Cleaning Machine in Textile Industry using IoT Baluprithviraj K N, Kalavathi Devi T, Madhan Mohan M, Dharuhn B V, Madhusuthan C, Jaidharun R	595
99	IoT-Enabled Sign Language Interpreter Glove K. R. Prabha, Mahalingamuthuram. M, Mukesh. C, Priya Dharshan. V. P	601
100	Experimental Evaluation of a Secured Privacy Preservation Scheme using IP Traceback Logic in Wireless Sensor Networks S. Agnes Shifani, M. I. Mary Metilda, G. Vinod Rajkumar, Muppudathi Sutha S, S. Maheshwari, A. Antony Mary	607
101	Internet of Things - Enabled Solution for Sustainable Agricultural Waste Management V. Velmurugan, K. Lakshmi Narayanan, V. Raja Rajeshwari, S. M. Raj Kumar	614
102	Cloud-Integrated Precision Agriculture with LoRaWAN and ESP32 Aaksha Prasad Jaywant, Athary Sandeep Desai	619

103	Efficiently Listing URLs from Active Hidden Servers in the Onion Routing Network C Ambika Bhuvaneswari, E D Kanmani Ruby, Helina Rajini Suresh, V Diana Ershia, M Prabha, K Anandha Saravanan	625
104	Improving FANET Communication with a QoS-Optimized Location-Aided Routing Protocol A. Farithkhan, E. D. Kanmani Ruby, M. Prabha, S. Manju, R. Ramasamy, K. Michael Mahesh	630
105	Comparative Performance of Machine Learning Models in Predicting Plant Growth using IoT Data Rajathi K, Alex David S, Ruth Naveena N	636
106	Computer Vision Enabled Pick and Place Robot for Warehouse Automation Vandana Kumari Prajapati, Sarikonda Aryan Shashank, M. Nithya	641
107	Optimization of Resource Allocation in the Cloud Environment using Regression Models R. Nathiya, S. K. Piramu Preethika	647
108	Internet of Things (IoT) based Smart Inhaler Rajasekar T, Mohanraj P, Kalaimathi B, Saravanan R, Vishnu Varadhan V. S	652
109	Intelligent DoS and DDoS Detection: A Hybrid GRU-NTM Approach to Network Security Caroline Panggabean, Chandrasekar Venkatachalam, Priyanka Shah, Sincy John, Renuka Devi P, Shanmugavalli Venkatachalam	658
110	Low-Cost Network Jammer for Wi-Fi Network in Civilian Areas Thangam S, Pradeep Kumar Gupta, Kartthikeyan N, Mukil LD, Niranjan D K	666
111	Forensic Analysis and Detection of Illicit Transactions in Bitcoin Network Fiyan Mehfil Ayoob, Melvina Jose, S Udhaya Kumar	673
112	Development of Embedded based Cloud-Integrated Lifesaving Mechanism T. Vasudeva Reddy, R. Anirudh Reddy, K. Sai Prasanna, Safoora Begam, Syeda Asna Manan, Rama Krishna Goud	680
113	An Approach for V2V Wireless Communication using Li-Fi and Wi-Fi Technology Abhilash Thakur, Wazeer Ahmad Khan, Paresh Sagar, Arpan shah	686
114	Automatic Railway Signalling System for Accident Prevention R. Mythili, Revathi.D, Dinesh V, Udhaya Suriya K, Ramanathan V	695
115	Real Time Accident Alert System in Hilly Region using LoRa Technology Thangam S, Gurupriya M, Osho Kothari, Subodh Narayan Sah, Kriti Priya Shah, Kadam Prajwal Dharmaraj	700
116	Preserving Visual Authenticity: Block chain-Augmented AI Frameworks for Advanced Digital Deception Recognition and Mitigation Priya M, Murugesan J, Bhuvaneswari P, Rubigha M, Lalithambikai S, Mohanraj B	707
117	Security and Efficiency in Tap and Pay: The Promise and Challenges of BLE and UWB Integration Burri Sri Venkat Vivek, Talluri Vineetha, Aaka Teja, Boyapati Sai Keerthana, Dinesh Kumar Anguraj, Hari Kiran Vege	714
118	Remote Monitoring and Analytics for Cloud-based Drip Saline Fluid Management System J. Gnanasoundharam, G. Sudha, J. Alphas Jeba Singh, M. Birunda, E. N. Ganesh	723
119	Associated Video Frame Steganography Model based on Frame Integrity Verification using GAN Network Sameerunnisa Shaik, J. Jabez	728

120	Onion Smart Storage System using IoT Humidity Sensor (DHT11), Gas Sensor(MQ-6) S. Gomathi, M. Renuka devi	736
121	Novel Framework Design of MIMO Antenna for 5G Applications P. Kabilamani, K. P. Porkodi, Kanmani Pappa C, P. Nagarajan, N. Ashokkumar, C Venkataramanan	741
122	IoT based Energy Management System for Buildings Vignesh Prasanna Natarajan, Naveena Aggarapu, Sai Laxman Metta, Siva Tejaswini Kota	746
123	Enhancing IT Security with LLM-Powered Predictive Threat Intelligence Bhargava Bokkena	751
124	Deep Learning Approaches for Real-Time IoT Data Processing and Analysis Dankan Gowda V, Praveen Damacharla, Vinod Kumar Maddineni, Venkata Akhil Kumar Gummadi	757
125	An Intelligent Framework for Energy Management in IoT Networks using Machine Learning Dankan Gowda V, Vinod Kumar Maddineni, Venkata Akhil Kumar Gummadi, Praveen Damacharla	765
126	An Intelligent Vehicle License Plate Detection for an Emergency Notification System Laxmi Raja, V. C. Bharathi, S. Ananthi, R. Sathya, T. Kathirvel, T. Shahin Abdul Razack	772
127	Necessity of Information Security in Safeguarding Smart Grid Infrastructure Namra Joshi, Achala Khandelwal, Shubham Joshi	777
128	SecureChainAI: Integrating Blockchain and Artificial Intelligence for Enhanced Security in IoT Environments K. ThamaraiSelvi, A. Pushpalatha, K. Chidambarathanu, Jaishri P. Wankhede, S. Alagumuthukrishnan, Velliangiri Sarveshwaran	781
129	Technology Enhanced Cradle by using Sensors and Internet of Things Thangam S, Mogili Greeshma, Mekala Varun, NVS Sanjana, J Jesy Janet Kumari	790
130	A Novel Standalone Internet of Things Enabled Device for Detection of Rotten Fruits in Cold Storage Systems M. Meenalochani, B. S. Aboorvaa, S. Srinivasan	798
131	An Investigative Study on the Usage of Various GAN Models for Plant Leaf Disease Detection Sasikala Vallabhajosyula, Venkatramaphanikumar Sistla, Venkata Krishna Kishore Kolli	804
132	Visual Cryptography Technique for Enhancing the Security and Contrastness of Image Transaction Sunita Kumari, Shashikant Pandey, Deepak Mishra	810
133	Deep Learning for Accurate Grape Disease Classification with ResNet50 Tanishq Soni	816
134	An IoT-Driven Solution for Automated Bus Schedule Management T. Vasudeva Reddy, R. Anirudh Reddy, K. Sai Prasanna, S. Sai Shiva, S. Meghana, T. Sai Santhosh Reddy	821
135	Real-Time Monitoring and Control of Water Resources using IoT Embedded Devices Ramakrishnan Raman, S. Muthumarilakshmi, Warish Patel, Girish Nilkanth Abhyankar, Amala Preyadarchane J	827
136	Smart Automated Irrigation through IoT Technology Hema. R, Subbulakshmi. S, B. Veera Jyothi, R. Gurulakshmi, M Vignesh, Blessy Queen Mary M	833

137	Evaluation of the Quality of Service Parameters for IoT in Outdoor Environment Bharti Mehra, Ashutosh Datar	839
138	IoT-Powered Farmland Monitoring system with Voice Integration A Bala Sanjeev Madhav, Baddam Kanishka Reddy, Atul B Pillai, Paresh Sagar	845
139	Smart Aquatic Knowledgebase and Artificial Intelligence for Yielding Advanced Navigation (SakAi-yan): Predicting Marine Biodiversity and Fishing Impact Epifelward Niño O. Amora, Jose C. Agoyo Jr, Jorton A. Tagud, Liezly M. Teofilo, Patrick D. Cerna	851
140	Smart Home Automation with IoT-Driven IR Blasters: Enhancing Control of Legacy Appliances with Predictive Usage Pattern using Machine Learning Emmanuel T. Saligue, Rosemarie Y. Saligue, Jimson A. Olaybar, Keano Nikko L. Sy, Patrick D. Cerna	861
141	Relay Selection in Cooperative Underwater Acoustic Sensor Networks R. Seetharaman, R. Amirthavalli, S. Thanga Ramya, J. Sairam, G. Rithika, U. Sai Sakthi, S. Tharunika	869
142	Decentralized Energy Markets Enhancing Peer-to-Peer Energy Sharing with Blockchain Aparajita Pandey, Alok Pandey, Jatinderkumar R. Saini	874
143	ANN and Random Forest based Prediction of Power Output of Solar Panel Sandeep Kumar Sunori, Shilpa Jain, Pradeep Juneja, Amit Mittal	882
144	Endoscopic Image Processing: Evaluating the Robustness of Deep Neural Networks Gireesh Babu C N, Kaparapu Satish Babu, Sajja Suneel, K. Srinivasa Rao, Divya Muralitharan, Aarthi R	888
145	K-Degree Comparison-free Parallel Sorter with Duplicate Element Handler Sahithi Gongada, Alluri Adharsh, Mannava Saket, Sonali Agrawal	896
146	Accurate Detection and Classification of Brain Tumors using U-Net and Extreme Learning Module B. Ramu, Sandeep Bansal	902
147	Optimizing Autonomous Driving with Advanced Reinforcement Learning: Evaluating DQN and PPO Rishabh Sharma, Prateek Garg	910
148	Utilizing CNN-GAN for Enhanced Detection and Classification of Dust on Solar Panels Shiva Mehta, Danish Kundra	915
149	Optimizing Solar Energy Output through Automated Dust Detection using CNN-SVM Shiva Mehta, Manpreet Singh	920
150	A Comprehensive Review Analysis of Supervised Machine Learning Techniques Shivangi Ghildiyal, Raghav Garg, Saurabh Dhanik, Argya Sarkar, Gayatry Sharma, Pushpendra Singh Kharayat	925
151	Machine Learning for Enabling Strategic Insights to Future-Proof E-Commerce Chandra Shikhi Kodete, Vikram Pasupuleti, Bharadwaj Thuraka, V Valli Gayathri, V S Divya Sundar, Vahiduddin Shariff	931
152	Machine Learning Framework to Enhance Agricultural Output Prediction Abirami N, Balaji V. R	937
153	FRMAI: A Robust System Design for Student Attendance Handling Mechanism using Face Recognition Model and Artificial Intelligence Logic Kurakula Sai Satish, Marripalli Jahnavi Chowdhary, Vaka Dhavan Reddy, Srinija Gatram	943

154	Computer Vision Assisted Deep Learning Enabled Gas Pipeline Leak Detection Framework Suri Babu Nuthalapati, Arun. M, Prajitha. C, Rinesh S, Abubeker K M	950
155	A Comprehensive CNN-based Approach to Pneumonia Detection Vishnu Kant	958
156	Understanding Dog Emotions through Deep Learning: A CNN-based Classification Framework Vishesh Tanwar	964
157	Implementation of Linear Regression Analysis for the Optimal Controlling of COVID-19 Preventive Measures Variable for Environmental Sustainable Solution Akansha Srivastav, Amit Mittal, Pankaj Kumar, Anand Kumar Gupta, Charu, Naveen Naval	970
158	Feature Extraction using Hybridized Transfer Learning Approach for Oral Cancer Diagnosis Bharanidharan N, Kalluri Karthikeyagopala Abhinav, Cherukuri Krishna Lathvik, Muppavarapu Chethan, Metta Manikanta Karthikeya Reddy, K Deepak	975
159	Pan Sharpening Techniques: Enhancing Multi-Spectral Image Resolution Jashanpreet Kaur, Shalli Rani, Ayush Dogra, Ankita Sharma	980
160	Breast Histology Slides Classification using Fused Lightweight Deep Features A. S. Vickram, B. Bhavani Sowndharya	986
161	An Effective Technique for Video Condensation and Retrieval using Convolutional Neural Network with YOLO-Aided Anomaly Detection Framework Suhandas, Santhosh Kumar G	991
162	Integration of Modern Sensor Technology in Traditional Ayurvedic Health Diagnosis T. Vasudeva Reddy, R. Anirudh Reddy, B. Raghavendra, A. Chandrika, G. Akshara, Ch. Vinay	1001
163	A Scientometric Review of Fuzzy Graph Research: Trends, Key Contributions, and Future Directions Saravanan K, Sivankalai S, Selvi N, Sindhusaranya B, Sowndharya R, Sivasekaran K	1007
164	Identifying COVID-19 Presence based on CT-SCAN Images S. Kalaimagal, Madhumita Seshaiah	1015
165	Fraud Detection in Banking Industry using Enhanced Intellectual Framework with Optimization Strategy V. Backiyalakshmi, B. Umadevi	1022
166	Machine Learning based Modeling of Drugs using Virtual Screening and in Silico Approach Balamurugan K S, Appathurai K, Sathish Kumar P J, Kumutha D, Surendran R	1032
167	Recognition of De Novo Drug Design for Targeted Chemical Libraries through Optimization Techniques Balamurugan KS, Sundara Rajulu Navaneethakrishnan, Senduru Srinivasulu, Kumutha. D, Surendran R	1039
168	Enhanced Liver Image Segmentation using Custom Metrics and UNet with FastAI A. Akilandeswari, S. Radhika, Rajasekaran A, S Nanthini, R. Sivabalan, D. Akila	1045
169	HERBSNAP: Advanced Classification of Bhringaraja and Honegone Herbal Species Mamatha Balipa, Poornima P Kundapur, Adarsh Kumar, Anusha	1050

170	Survey on One-Shot Learning for Image Recognition using Machine Learning and Deep Learning Techniques Ganesh Vitthal Kadam, Ghanshyam Prasad Dubey	1055
171	InceptionV3 Infused Neural Network for Brain Tumor Detection Kunal Bharargava, Harshil Nanda, Niha Kamal Basha	1063
172	Optimizing Service Quality of Waste Management Apps: A Taguchi Approach Rejikumar G, Sanju Kaladharan, Dhanya Manayath, Muganyizi Jonas Bisheko	1069
173	Enhanced Web based Multi-Platform E-voting Solution Anusha Nallapareddy, T Swapna, Sundaramurthy Shanmugam, Jany shabu, J Refonaa	1075
174	Application of Machine Learning Techniques for Heavy Rainfall Prediction using Satellite Data Gujjari Balram, N Poornachandrarao, D. Ganesh, Banavath Nagesh, Basi Reddy. A, M. Sunil Kumar	1081
175	Early Flood Warning System using Machine Learning P. Mainkandan, Sai Dileep Golla, Sai Phanindra Pavan Kumar Gatikoppu, Sai Chaithanya Puttaparthi, Sai Achyuth Narahari, Saikiran Davadi	1088
176	Flood Prediction using Supervised Machine Learning Algorithms M. Vimala, S. Ramasamy, P. Ranjith Kumar, N. Najmul Sahi, A. Rajesh, S. Siddharth	1093
177	Design and Development of Low Cost Data Logger for Process Parameters R. Subasri, S. Vijayachitra, K. Prabhu, S. Agilan, M. Ahamed Salih, S. Madhumitha	1097
178	Enhancing Breast Cancer Diagnosis with YOLOv5: A Computer-Aided Approach A. Srividya, A. Athiraja, Swapna Thouti, Y. Greeshma, Kesava Vamsi Krishna Vajjala, T. Aswini Devi	1105
179	Leaf Nutrient Deficiency Prediction using Deep Learning Models M. Shanthini, Ashwini S, Dhaneesh Raj M, Divya Sri B	1112
180	Aloe Vera Disease Prediction using Machine Learning Techniques Kiran Saini, Purva Agarwal	1117
181	A Deep Learning Approach to Ringworm and Vitiligo Identification in Skin Imagery Kavya Kamasani, Deepa Venna, Harshitha Badavathula, Namratha Ranga	1123
182	XGBoost-Driven Insights: Enhancing Chronic Kidney Disease Detection Ritu Rani, Kanwarpertap Singh Gill, Deepak Upadhyay, Swati Devliyal	1131
183	Integrating Machine Learning into Modified CUK Converters for Household Solar Applications Kenny Gee Oberoi J M, Myreddy Kumar Durga Trinadh, Satyam Sharma, Manitha P.V	1135
184	MACULA OCT Disease Images Classification using Deep Learning Techniques Vasantha R, Salai Swarna Sowmya. S, Sri Madhura S, D. Menaga	1142
185	A Study on Farm Financial Statement Analysis using Machine Learning and Statistical Techniques Mary Divya Shamili D, Senthil Kumar Swami Durai	1150
186	An Overview of Descriptive Analytics and Data Visualization V. Geetha, N. Sujatha	1158
187	Raspberry Pi-based Real-Time Health Monitoring and Alert System for Enhanced Patient Care Sahana B Jamkhandi, Nidhi V Kenchanagouda, Apoorva G Patil, Neha Divakar, Padmaja Kallimani, Jayashree Mallidu	1164

188	Real-Time Prototype Design for Secure Coin and Currency Recognition System for Hundi using Object Detection Algorithms A Vijay, Jayasree R, Priyaa V, Rithanya M	1171
189	Enhanced Alzheimer's Disease Prediction through Advanced Imaging: A Study of Machine Learning and Deep Learning Approaches N. Komal Kumar, V. D. Ambeth Kumar, Danish Quamar, B. Sumanth Kumar Reddy, R. Yogendra, N. Poojitha	1177
190	Deep Convolutional Neural Network based Wheat Leaf Disease Detection in Precision Agriculture Sreyashi Dey, Roshan Naidu, Om Subrato Dey, Balasundaram A, Ayesha Shaik	1183
191	An Efficient Detection of Phishing Website using Machine Learning Menaga D, Vijay S, Vignesh V, Ramalakshmi S	1189
192	Enhancing OTT Platform Recommendations Through Sentiment Analysis: A Comprehensive Study Asmita Kharat, Rashi Lad, Vedika Mule, Jai Jindal, Bhavesh Patel, Vaishali Hirlekar	1195
193	Approach to Identifying Counterfeit Products with QR Codes and Computational Algorithms Prabhu Shankar B, Rajkumar N, Viji C, Dinesh Kumar K, Saravanakumar S, Mohanraj A	1203
194	Brain Tumor Identification using Convolutional Neural Network Swapna Sanapala, Rashmi M. R, Tolga Özer	1210
195	Automating Potato Leaf Disease Detection with Lightning-Fast CNNs: Precision using PyTorch Lightning Arpanpreet Kaur, Sheifali Gupta	1217
196	RustBuster: Advanced Wheat Rust Recognition with BlendMask Model Jeeya Sharma, Deepak Kumar, Abhiraj Malhotra	1222
197	YOLO-R50: A Robust Approach for Wheat Ears Detection and Bacterial Black Chaff Classification Deepak Kumar, Abhiraj Malhotra	1227
198	Unveiling Precision in Breast Cancer Prediction with Random Forest and Decision Trees Arpanpreet Kaur, Sheifali Gupta	1232
199	Enhanced Chest Cancer Classification using Convolutional Neural Networks on CT Scan Images for Improved Diagnostic Accuracy Ritu Rani, Sheifali Gupta	1237
200	X-Ray Insights: Comprehensive Dataset for Bone Fracture Detection Across Diverse Anatomical Regions Ruchika Bhuria, Sheifali Gupta	1242
201	CNN-based Classification of Knee Arthritis Severity from X-ray Images Vishnu Kant	1248
202	Bone Fracture Detection with CNN: A Deep Learning Approach Shanvi Chauhan	1253
203	Optimizing Tomato Crop Health: Disease Detection with ResNet50 Jatin Sharma	1259
204	Optimized Heart Failure Prediction using Support Vector Machine Algorithms Ritu Rani	1265
205	Schizophrenia Classification based on Structural and Functional MRI using 3D Convolutional Neural Networks with Multimodal Approach Suresh Babu P, Nagaraj P	1269
206	A Detailed Investigation of Deep Learning and Machine Learning Approaches for Sugarcane Foliage Disorder Identification Ruquia Taha Khatoon, Dasari Ashok, S Kumar Reddy Mallidi, Vellaturi Gopikrishna, Pothuganti Srikanth, P Bhaskar	1275

207	Enhancing Network Intrusion Detection with Support Vector Machines: A Comparative Study of Feature Selection Techniques Manish Khule, Deepak Motwani, Dipti Chauhan	1281
208	A Hybrid Multimodal Biometric Recognition System (HMBRS) based on Fusion of Iris, Face, and Finger Vein Traits Vunnava Dinesh Babu, Raghunadha Reddi Dornala, Chamarty Anusha, Popuri Ramesh Babu, Kaja Krishna Mohan, Kari Venkata Sumanth	1287
209	Redefining Medicine: The Power of Generative AI in Modern Healthcare Chettim Chetty Hemasri, M. Vijayalakshmi, Vootukuru Jyotheesh	1293
210	Optimizing Feature Selection for Brain Tumor Classification using a Hybrid ACCSA and Utilizing Machine Learning Algorithms for classification Vinoth Nageshwaran	1299
211	Deep Neural Networks and Convolution Neural Network for Computer Vision based Crime Similarity Pattern Analysis E. Monika, T. Rajesh Kumar	1305
212	Smart Water Meter Monitoring System using Internet of Things Abinaya K, Harini M, Kanishka S, C.P. Maheswaran	1310
213	Facial Expression Analysis using K-Nearest Neighbor Classification Method: Enhancing Emotion Detection and Stress Monitoring in an Interactive Music Player Madhan S, Sridharan S, Sugitha Deivasigamani, Rajesh R, Surendran R	1316
214	Magnetic Resonance Image based Lung Disorder Detection Models in Deep Learning-A Comprehensive Survey Anjaneyulu Gurram, Parthasarathy Ramadass	1323
215	Enhanced Water Quality Classification through Integrated Machine Learning and Ensemble Methods Preet Singh, Taniya Hasija, KR Ramkumar	1330
216	Optimizing Phishing Detection Systems with Ensemble Learning: Insights from a Multi-Model Voting Classifier Preet Singh, Taniya Hasija, KR Ramkumar	1336
217	Personalized Shatavari Nutrition Recommendations for Menopausal Women using Machine Learning Algorithms Logapriya. E, Surendran. R, Soniya M, Sathish Kumar P. J	1342
218	Integration of MobileNet and YOLO for Enhanced Brain Tumour Detection and Localization S Elango, C Mariyal, Mahaboob Basha Shaik, Sundara Rajulu Navaneethakrishnan, T R Ganesh Babu, R Praveena	1350
219	Investigation of Deep Learning Models for Predicting Diabetic Foot Ulcers in Diabetes Patients D. Jeyandhan, Nagaraj P, Josephine Selle Jeyanathan	1356
220	AI-Driven Health: A Web App for Enhanced Healthcare Queries and Nutrition Analysis Ushashree P, Archana Naik, P Amrutha Sai Sri	1364
221	Prediction of Human Emotion using LeNet Architecture Vijay Madaan, Neha Sharma	1370
222	Detection of Autism Spectrum Disorder in Eye Tracking using Hybrid Machine Learning and Deep Learning Technique Karpagam C, Deepa C	1376
223	Advanced Skin Cancer Classification using EfficientNetB1: Enhancing Diagnosis and Interpretability Priyanka Shah, Khushi Kadel, Sankar K, Sugumar R, Chandrasekar Venkatachalam, Shanmugavalli Venkatachalam	1382
224	Road Accident Prediction in Highways using Machine Learning Algorithms Jambula Snehit Reddy, Rashmi M. R, Lee Hoong Pin	1388

225	Alzheimer's Disease Recognition and Detection using Machine Learning M. Anto Bennet, Josephine Pon Gloria Jeyaraj, K. J. Subha, Ch. Sri Vidhya, K. Yamini, P. Laljan Pasha	1395
226	Prototyping a Smart Medication Management System with Machine Learning-based Dosage Recommendations Sujitha S, Syeda Mehak Fathima, S. Kavya	1402
227	Automating the Detection of Road Damage via the Use of UAV-Captured Images and the YOLO N Saikiran, Malege Sandeep, Neelam Thirumala Rao, Peravali Surekha, M Rajya Lakshmi, P Bhaskar	1407
228	AuthentiQ Market Space: Leveraging Smart City Technologies for Authentic E-commerce System of Geographical Indication Products Bindhiya Upputuri, RM Noorullah, Rishi Kolluru	1413
229	Decoding Student Sentiments: Academic Emotion Prediction with CNN-ResNet Snehal Rathi, Vijayshri Khedkar, Gauri Ghule, Niraj Diwan, Kushagra Atre	1419
230	Quality Checking of Impeller using Computer Vision K Prabhu, S Vijayachitra, M. Dharani, R. Ghurucharan, M. Mathiarashu	1425
231	Heart Disease classification using Crow Search Algorithm M. Maragatharajan, P. Naveen, E. Nirmala	1432
232	Smart Cane with Object Recognition System Nataraj B, Prabha K R, Abinaya R, Divya Rani R, Christina V S	1438
233	Machine Learning based Human Stress Detection through Sleep Patterns Santhosh Krishna B V, Kiran Mai, Aswini S, J. Biju, S. Mohanraj, S. Kaliappan	1444
234	AI-Powered Diabetes Management: Reliable Insulin Dosing through Machine Learning G. Jamini Lakshmi, G. Kalyani, J. Vamsi Krishna	1449
235	Dynamic Resources Management: An Algorithm for Concurrent Access Control Ankita Jha, Kumari Sakshi, Pragya Pandey	1457
236	Advancements in Automated Classification of Knee Osteoarthritis Severity using EfficientNetV2-S Priyanka Shah, Dhiraj Keshari, Sankar K, Sugumar R, Chandrasekar Venkatachalam, Shanmugavalli Venkatachalam	1463
237	Robust Framework for Detecting Heart Stroke using Advanced Machine Learning Techniques T. A. Mohanaprkash, Shweta S Aladakatti, Kanimozhi S, C. Tamilselvi, R Priscilla, R. S. Rashika	1469
238	A Gamified Platform for Educating Children About Their Legal Rights B. Ramasubba Reddy, P. Neelima, M. Sunil Kumar, C. Sushama, D. Ganesh, Y. Yethish	1475
239	Medical Image Tampering Detection using Deep Learning B. Ramasubba Reddy, M. Sunil Kumar, P. Neelima, C. Sushama, Vedala Naga Sailaja, D. Ganesh	1480
240	A Robust and Efficient Machine Learning Approach for Identifying Fraud in Credit Card Transaction Himmat Rathore, Renu Ratnawat	1486
241	Fake Logo Detection using Convolutional Neural Networks: A Deep Learning Approach Sai Varshini Giridi, Mandala Kavya Sree, Mullangi Nandini, Sairam Utukuru	1492
242	Big Data Analytics Survey: Environment, Technologies, and Use Cases Ramesh Babu, E, M. Sunil Kumar	1496
243	Sea Level Prediction in the Bay of Bengal – A Case Study V Thanuush, K Deepa, Alper Nabi Akpolat	1500

244	Tri-Model Synergy: Redefining Depression Detection through the Convergence of ANN, CNN, and SVM <i>Angelina George, Achal Baniya, Alphonsa Jose, K Dinesh Kumar</i>	1507
245	Analysis of Landlord's Land Price Prediction using Machine Learning M Sankar, R Chithambaramani, P Sivaprakash, Vimala ithayan, R. M. Dilip Charaan, D Marichamy	1514
246	Forensic Science: AI-Powered Image and Audio Analysis Renukadavi P, Sincy John, Shivani N	1519
247	An Intelligent Dipsomania Face Detection Model using Spatial and Spectral Graph Neural Network Madhusundar N, Surendran R, Johnpaul S, Appathurai K	1526
248	Evaluation Techniques to Detect Face Morphing Vulnerabilities for Differential Images Chalini G R, K. V. Kanimozhi	1532
249	Design and Developing AI-driven Agro-sage for Optimal Precision Agriculture T. Vasudeva Reddy, R. Anirudh Reddy, K. Sai Prasanna, S. Sai Shiva, S. Meghana, T. Sai Santhosh Reddy	1538
250	Designing Human Pose Recognition for Yoga Posture in Web-based Augmented Reality Fazliaty Edora Fadzli, Muhammad Imtiaaz Syaqib Adanan, Ajune Wanis Ismail, Norhaida Mohd Suaib, Nur Ameerah Abdul Halim, Muhammad Anwar Ahmad	1543
251	Edu-Metaverse Classroom with AI-Driven Virtual Avatar Assistant Nur Ameerah Abdul Halim, Muhammad Hazim Azlan, Ajune Wanis Ismail, Fadzliaty Edora Fazli, Muhammad Anwar Ahmad, Mohamad Yahya Fekri Aladin	1548
252	Real-time Gestures in Handheld Augmented Reality with Markerless Tracking for Multiplayer 3D Game Tee Ng Zikang, Ajune Wanis Ismail, Aida Ali	1555
253	LEXIBOT: Gesture Controlled Personal Assistant Companion Rajasekar T, Mohanraj P, Madhumitha P, Nanthitha S, Naveena S	1562
254	Deep Learning Solutions for Identifying and Preventing Web-Based Malware Chander Prabha, Sakshra Monga, Prakash Srivastava, Nitin Saluja, Shalini Kumari, Savita Wadhawan	1568
255	Sports Analysis via Wearable Device Prabha K R, Nataraj B, Karthik M, Mahiizharasu D, Saran R	1574
256	A Comprehensive Study on Software Engineering and Emerging Technologies Vivek Bhatnagar, Tejinder Kaur, Gulbir Singh, Ritu Mishra	1579
257	Evaluating Deep Learning Techniques for Real-Time Video Stabilization in 2D Scenes Siva Ranjani C K, Mahaboob Basha S	1583
258	Video Stabilization with YOLO v8 Object Detection for Surveillance Application Siva Ranjani C K, Mahaboob Basha S	1588
259	Detection and Classification of Bipolar Disorder Syndrome using Deep Learning R. M. Dilip Charaan, Vimala Ithayan. J, Sankar. M, R Chithambaramani, Sivaprakash. P, D Marichamy	1596
260	Convolutional Block Attention Module-based Deep Learning Model for MRI Brain Tumor Identification (ResNet-CBAM) N. Shyamala, S. Mahaboobbasha	1603
261	Brain Tumor Dissection and Categorization using Texture Characteristics and Deep Learning Techniques N. Shyamala, S. Mahaboobbasha	1609

262	AI based Pentest for EHR and Other Health Monitoring Devices Kumaran U, Gurupriya M, Hitesh Surya Chinta, Akshita Uma Sai Maganti	1614
263	Enhancing User Experience and Design Exploration using Augmented Reality (AR) and Virtual Reality (VR) N. Sebiraj, K. Advaith, P. Sugantha Priyadarshini	1620
264	Innovative Approaches in Road Condition Monitoring: Synergizing Mobile Mapping Systems and High-Resolution Data Analytics Prajwal Dudhbale, Sujesh Ghodmare, Rohit Mane	1626
265	Artificial Intelligence in Enhancing Organisational Performance: A Thematic and Factorial Analysis Sakshi Kheterpal, Ashita Chadha, Komalpreet Kaur	1634
266	A SHAP-based Interpretation for Leveraging Multi-Omic Data and Pancreatic Cancer Prognostication using Deep Learning Techniques S. Sureshkumar, N. Sureshkumar	1640
267	Crypto-Visionary Price Forecasting System Dhruva Kawli, Aditi Chaudhari, Prajakta Ingale, Gaurav Telange, Abira Banik	1645
268	Implementation of Real-Time Spatial Mapping for Occlusion-Awareness in Augmented Reality Muhammad Anwar Ahmad, Muhammad Faisal Amiruddin, Ajune Wanis Ismail, Fazliaty Edora Fadzli, Nur Ameerah Abdul Halim, Norhaida Mohd Suaih	1651
269	CNN-Driven Novel Facial Expression Detection and Analysis Supriya Telsang, Swaraj Patil, Riya Patil, Sanjeevani Patil, Shraddha Patil	1657
270	Enhancing Crop Yield Prediction through Random Forest Classifier: A Comprehensive Approach Srinivasa Rao Bogireddy, Haritha Murari	1663
271	Enhancing Deep Learning Model Performance for Surface Crack Detection S. Jency, G. Ramkumar	1669
272	Enhancing Phishing Detection through Advanced Machine Learning Techniques Sreenivasan S, Amrit Rout, Tarun Kumar Pal, Prakash Ramachandran	1675
273	EfficientNetB0-based Rice Disease Classification: A Strategic Fine-Tuning Approach Shivani Mishra, Chavali Sai Sreeram Yadav, Akansha Raju, Balasundaram A, Ayesha Shaik	1682
274	Facial Features based Recognition System using LBPH and AdaBoost Mayank Srivastava, Kalash Khatiyan, Pratibha Dixit	1688
275	Advanced Content-based Movie Recommendation System Nousheen Taj, Varun M H, Navya V	1693
276	Smart Parking Fare Collection and Management System using ANPR Technology Marisekar B, Abishek T, Dheeraj M, Adharsh R, Aswin Raja R, Kaushik A U	1699
277	Robust Object Detection in Jam-Packed Scenes Through Enhanced YOLOv8: A Deep Learning Method Chitra M, Shanmuganathan C	1707
278	Image Processing and Deep Learning for Classification of Skin Lesion Image David Lalrinawma, V D Ambeth Kumar, R Lalchhanhima	1712
279	Computer Vision based Spatial Matrix LED Headlights Archana Burujwale, Pratham Gadkari, Yash Kate, Medhaj Kulkarni, Prateek Buthale	1718
280	Machine Learning for Disease Prediction: An Overview Shunmuga Priya S, Amuthaguka D	1726

281	Enhanced Forgery Detection of Fake Face in Forensic Investigation using Convolution Neural Network S. Parthiban, V. C. Bharathi, A. Anbumani, S. Ananthi, R. Sathya	1732
282	Advancements in Early Detection of Lung Cancer Using YOLOv7 Abhijeet More, Snehal R. Shinde, Pooja Mahesh Patil, Dhanashri Siddhant Kane, Yogesh Kisan Mali, Vishal Kisan Borate	1739
283	Marine Mammals Sound Classification using Extreme Learning Machine with Kepler Optimization Algorithm Annalakshmi Ganesan	1747
284	Classification of Sonic Log using Multiresolution Features Sanika Patankar, Akash Hursad, Harsh Ambekar, Jatin Ijmulwar, Aditya Donge	1753
285	Genomic Risk Assessment and Early Intervention for Rare Genetic Disorders Kolla Vaibhav, G. Kalyani, Sribhashyam Sashank Sai, Namballa Ram Tarun	1759
286	Explainable Deep Learning Architecture for Alzheimer's Disease Detection using MRI Parvathavarthini S, Lakshmi K, Pyingkodi M, Sengottayan S, Danushree V S, Yuthithra M	1766
287	Bone Age Assessment (BAA) using Convolutional Transformer and MultiLayer Perceptron Kumaragurubaran T, Jeevena. B.S, Janani A, Senthil Pandi S, Rahul Chiranjeevi V	1772
288	Intelligent Rainfall Prediction and Flood Alert System using ML Nagarjuna Nallametti, C. Malarvizhi, Sheik Jamil Ahmed, R. Sathya, K. Harish Vishnu, J. N. Naveen	1778
289	A Deep Learning-based Optimization Model for Advertisement Campaign Venkata Gummadi, N. Ramadevi, Pamula Udayaraju, Chaitanya Ravulu, Dhanunjay Reddy Seelam, Sureddy Venkat Swamy	1783
290	Facial Emotion Recognition for Enhanced Human-Computer Interaction using Deep Learning and Temporal Modeling with BiLSTM Karthikeyan P, Kirutheesvar S, Sivakumar S	1791
291	Prediction of Heart Stroke using Machine Learning Algorithms R. Kiruba, S. S. Rithish, P. Jagatheeswaran, Ra. Gokul, S. Santhiya	1798
292	Diabetic Foot Ulcer Detection and Classification using ConvMixer Model Anusha N, Vidhya R, Jani Anbarasi L, Dhanya D, S. Pushparani, Geetha Mohan	1805
293	Enhancing Movie Piracy Prevention through Automated IR Transmission and Steganographic Method Kalaimathi. B, Alamelu Alias Rajasree S, Kowsalya M, Gurusaren M, Dinesh Kumar S, Balasubramanian R	1811
294	Local Intensity Directional Boosted Hand Gesture Recognition using Machine Learning Technique G. Annalakshmi, Gajalakshmi.P	1818
295	Detection of Abnormal Human Behavior using YOLO and CNN for Enhanced Surveillance Mohanaprakash T A, Somu C S, Nirmalrani V, Vyshnavi K, Sasikumar A N, Shanthi P	1823
296	Retinal Image Classification by using Continual Learning Penumachra Naveen Kumar, Ch. Nanda Krishna, Sai Lasya Lukka	1829
297	Development of an Explainable Machine Learning Model for Automatic Heart Failure Prediction Priyansha Singh, Anupama Bhan	1836
298	Early Heart Failure Recognition for Infants using Machine Learning N. Indumathi, J. Palani Meera, Shrikant Upadhyay, Khobragade Pithamber, Manoj Kumar, Jaina Sumith Gupta	1841

299	A Study of the Evolution of the Real-Estate Flats and Apartment Rental System Nongmeikapam Thoiba Singh, Suresh Kumar, Utpal Shrivastava, Manoj Wadhwa, Vijay Mohan Shrimai, Himanshu	1846
300	Goal Recognition in Soccer Matches using Deep Learning Techniques Shivakumar G. M, Krishnaswamy S, Shivashankar D, Prabhakaran D, D. Harigaran, C. Vijayalakshmi	1852
301	Electroencephalogram Features to Identify the Mental Disorders Ragu P J, Nandhini V D, Pavithra L, Heera R, Soumya S, Wan Suhaimizan Bin Wan Zaki	1858
302	Optimizing Hepatitis C Diagnosis: A Comparative Study of Hyperparameters Tuning in Machine Learning Models Gunjan Vasant Ramteke, Priyanka Singla	1867
303	Design and Evaluation of Generative Adversarial Network for Automated Image Colorization System R. Vidyalakshmi, N. Kathirvel, N. Gayathri, K. Bhuvaneshvari, M. S. Aarthi, M. SivaramKrishnan	1873
304	ARIMA Modeling for Reliable Potable Water Identification and Quality Prediction Selvaraj P, Shalma H	1878
305	Usage of Computer Aided Methods for Detection and Evaluation of Breast Cancer in Mammograms M. Nagabhushana Rao, L. Venkateswara Reddy, D. Ganesh, Lakkireddy. Udantha Reddy, R Madana Mohana	1884
306	Combining CNNs with U-Net for Improved Lung Tumor Detection and Analysis S Elango, P Muthusamy, K Sakthi Murugan, J Kirubakaran, R Praveena, T R Ganesh Babu	1890
307	Color based Product Sorting Machine using Raspberry Pi P. Perumal, B. Mathivanan, K. Deepa	1896
308	Disease-Free Survival Prediction in Recurrent Cervical Cancer using Naive Bayes Machine learning algorithm S. Geeitha, P. Renuka, K. Poongothai, S. Ananth, K. Sinduja, Sangeetha K. R	1901
309	A Comparison of Different Optimization Techniques in AlexNet for Plant Disease Classification: SGD, Adadelta, ASGD and Adagrad Ponnila P, Bazila Banu A	1907
310	Assessing the Financial Performance of Copper Market and Stock Price Prediction using Python: Statistical Analysis Gurpreet Singh, Liteboho Stephen Mothabeng, Rajni Goel	1915
311	Altered Image Detection in E-commerce Products using Feature Fusion Model Deva Sundar M, Ansgar V, Atchaya S, Ananthi S	1922
312	An Optimized System for Maize Seed Sowing and Soil Moisture Control Thiyagarajan Jayaraman, Kannan E, Deepak S, Gowtham M S, Nirmal T P, Gokul Krishna S V	1928
313	A Comparative Study on Nature Inspired Optimization Algorithms to Solve Real World Problems- A Survey Bharathi A, Ponnila P, Daniel Madan Raja S, Karthiga M	1933
314	Automated Framework for Exploring Potential Biomarkers in Lung Cancer Mohan Kumar Sunil Kumar, Venkataramanan S, Palaniappan Sambandam, Aashiq Shareef A, Saifuddin S	1937
315	Patient Wellness Watch: AI-Powered Facial Video Analysis in Hospitals Mohamed Aamil A, Palaniappan Sambandam, Bairavel S, Karthikeyan S, Abdul Mukthadir W	1944

316	Optimizing Threshold Parameters in NLP-based Classification of Koshur Devnagari Scripted Poems Preety Sagar, Jatinderkumar R. Saini	1950
317	Extending Koshur Stopwords List using Threshold based Approach Preety Sagar, Jatinderkumar R. Saini	1956
318	Intelligent Techniques for the Identification and Classification of Brain Tumors N. Kirthiga, N. Sureshkumar	1961
319	Enhancing the Security and Integrity of Intrusion Detection Systems based on CNN and LSTM Approach for Cloud Computing K. Arunkumar, S. Sai Kumar, Sridhar Reddy Vulapula, Mohammed Inayathulla, N. Venkatesh, G. Charles Babu	1967
320	Innovative Real Estate Management System: Artificial Intelligence-based Segregation Kapil Joshi, Kaverinder Singh Sidhu, Neeru Malik, Archana Jadhav, Dilipkumar Jang Bahadur Saini, Dhirendra Siddharth	1973
321	Advanced Machine Learning Techniques for Credit Card Fraud Detection: A Comprehensive Study Vishnu R. Sonwane, Siddika Zanje, Siddhant Yenpure, Yash Gunjal, Yash Kulkarni, Rohit Yeole	1978
322	Ecological Factors Observation and Animal Identification System Vaishali Savale, Sakshi Mahadik, Mayur Waghmare, Prathamesh Jadhav, Nisha Wakode	1982
323	Enhancing Predictive Analytics in Healthcare Leveraging Deep Learning for Early Diagnosis and Treatment Optimization Prachi Juyal	1988
324	Diamond Price Prediction using Machine Learning Techniques Kapil Amadavadi, Rashmi Rane, Ruhi Patankar	1994
325	Anomaly Detection and Deep Vein Thrombosis Prediction using Machine Learning and Secure Data Storage using Blockchain Harini S, Afrose Aasmi A, B. Uma Maheswari	2001
326	CDR-CNN: Convolutional Neural Networks for Alzheimer's Disease Severity Prediction with Clinical Dementia Rating Chandran Venkatesan, Sumithra M G, Elakkiya Balan, Saravanan S	2006
327	Balancing Tradition and Innovation: Effective Classroom Management in ICT-Enhanced ELT Environments Adlin Jerusha J, R. Rajakumari	2013
328	A Detailed Analysis of Wavelet based Multi-Focus Image Fusion Techniques Mohamed Ali E A, Vinoth M, Kalpanadevi G, Subbulakshmi M, Dharani R	2021
329	AI based Waterfoot Print of Crop Geerthana G, Hamsavarthini V, Hariprasath A, R. Anuradha	2027
330	AI-Enabled Distributed Healthcare Framework for Secure and Resilient Remote Patient Monitoring Saigurudatta Pamulaparthi Venkata, Prakash Murugesan, Dinesh Gottipalli, Preethi Palanisamy	2034
331	An Intelligent System for Driving Distraction Identification by Fine-Tuned Modified Transfer Learning Techniques Vishwanath Eswarakrishnan, Priyanka Singla	2042
332	A Methodology for Driver Drowsiness Detection based on OpenCV and Dlib Libraries S. Arumai Shiney, R. Seetharaman, N. Mageshwari, S. Saikiran, B. K. Sulaksha, S. Sai Pravin, P. L. M. Dheepak	2047
333	Design and Analysis of Rectangular Microcantilever based Sensor with Stress Concentration Region for Biomolecule Detection M. Lakshmi Prasanna, Anitha. V. R	2052