

2024 3rd International Conference on Automation, Computing and Renewable Systems (ICACRS 2024)

**Pudukkottai, India
4-6 December 2024**

Pages 1-583



**IEEE Catalog Number: CFP24CB5-POD
ISBN: 979-8-3315-3243-7**

**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:	CFP24CB5-POD
ISBN (Print-On-Demand):	979-8-3315-3243-7
ISBN (Online):	979-8-3315-3242-0

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

**3rd International Conference on Automation, Computing and Renewable
Systems**

ICACRS 2024 | 4-6, December 2024

Table of Contents

S. No	Paper Title/ Author Name	Page. No
1	Investigations of Ethical Dimensions in Autonomous Driving using GPT3.5 Disha Raina, U. Vignesh	1
2	Utilizing the Lightweight and Porous Structure of Biochar in the Development of Advanced Prosthetic Leg Sockets-A Review Sakthivel Sankaran, Deekshitha, Lokesh Reddy, Aditya, V. Arumagaprabhu, K. Theriselvam	9
3	A Comprehensive Review on Wearable Smart Respiratory Monitoring Shirt in COPD Patients Sakthivel Sankara, P. Varshitha, K. Manasa Shiva Sai, P. Akshitha Reddy, K. Likhitha Reddy	14
4	FPGA for High-Frequency Trading: Reducing Latency in Financial Systems Deep Gupta, Aarush Purohit, R. Naresh	19
5	Model based Design for the Speed Control of Permanent Magnet Synchronous Machines P. Sivakumar, A. Angamuthu, K. Sriram, K. Bharath krishna, T. Subiksha, E Venugopal	26
6	A Comprehensive Analysis of Object Tracking in UAVs using Computer Vision Ilavendhan A, Bhenedix Paul, Joshnavi Pokala	30
7	Development of a Semi-Automatic Wheelchair System for Improved Mobility and User Independence U B Mahadevaswamy, Rohith M N, Ramkumar Arivazhagan	36
8	Design of Solar Dust Cleaning with Robot and Solar Monitoring System P. Harikrishna Goud, Patil Mounica, Natarajan Karuppiyah, S Ravivarman, Tellapati Anuradha Devi	44
9	Developing and Implementation of Contactless Stationary Charging System for Electric Vehicles Rajamoni Pavan Kumar, Monala Shreya, Rajagopal Reddy, Karuppiyah Natarajan, Patil Mounica, Anandakumar Annavarapu	49
10	A Hazelnut Tree Search Algorithm for Enhancing Large-Scale Electric Vehicle Charging on the Power Grid K. Kavithamani, G. Adline priya, S. Saranya, K. Anupriya, M. Siva Ramkumar, S. Kaliappan	56
11	Optimization Strategy for Object Picking and Placing on Table by Industrial Robot Bijay Kumar Rout, Pratinav Mongia	62
12	Evaluating RAG Pipeline in Multimodal LLM-based Question Answering Systems Madhuri Barochiya, Pratishtha Makhijani, Hetul Niteshbhai Patel, Parth Goel, Bankim Patel	69
13	Automated Traffic Control for Sustainable Urban Mobility Pradeep Sudhakaran, Koushik C R, Josh G George	76

14	A Comparative Analysis of Multilevel Inverter Configurations G. Bhagath, Dubbaka Meghana, Begari Sneha, Dugyala Nithin Rao	82
15	Interpretation of Electroencephalogram using RNNs to Predict Cognitive Disorders Manikandan Moovendran, Surendran S, Midhun C	87
16	Revolutionizing Immersion: VR Technology Raj Bhushan, Kanika Bhagat, Neetu Bala, Raj Gaurav Gupta	96
17	MediTag: An RFID and ESP8266-Powered Smart Medication Inventory System with Real-Time Adherence Notifications Rajlakshmi Nilesh Desai, Samiksha Shailesh Nalawade, Atharva Vishwas Deshpande, Manas Girish Kulkarni, Revati Tushar Aute, Pallavi Devendra Deshpande	100
18	A Novel Namib Beetle Optimization Approach for Minimizing CO2 Emissions in Electric Vehicle Charging Integrated with Renewable Energy Sources G. Adline priya, K. Kavithamani, K. Anupriya, S. Saranya, S. Kaliappan, M. Siva Ramkumar	107
19	LoRa-powered Water Management System for Real Time Monitoring and Control in Gated Communities B. Padmavathi, L. Sathya, G. K. Sathya Narayanan, B. Sanjana, Ashiq Rasool	114
20	Conveyor based Kinetic Energy Conservation using Dynamo-Driven Rollers A Hema Malini, K S Logesh, B Praveen Babu	123
21	Efficient Architectures of FIR filters using Distributed Arithmetic G Charan Kumar, Shiyamala	129
22	Transformerless DC Converter Circuit in Closed-Loop Configuration for LED Lighting Systems B. Balaji, M. Kalanithi, R. Revathy, G. Jagashivaraman	134
23	Fraction Order PID Controlled Single Phase Electric Vehicle Charger with Quadratic Boost Converter B. Balaji, Hemalatha P, S. Krishnaraj, Z. Yaseen Ashraf	140
24	Quorum-Based Tier Approach: Integrating PBFT and PoS in a Hybrid Consensus Mechanism Abinivesh S, Deva Priya Isravel, Julia Punitha Malar Dhas	147
25	Noise Reduction in Drones using Silent Electric Ducted Fan Rameshwar Kumbhar, Dhawal Thombare, Atharva Khadake, Manish Wadhwani, Vaishnavi Pawar, Pallavi Deshpande	155
26	Arduino-Driven Elevating Bridge Responsive to Water Level Variations using HC-SR04 Kannan Ramakrishnan, Kamalesh Murugan, Madhan Kumar Maran	162
27	Wheel-To-Watt: Dynamic Wheel Energy Harvesting for On-The-Go EV Charging Anusha G, Mohamed Musthaqem A, Loshitha R K, Logeshwari K	167
28	Multi-agent Task Assignment in Unmanned Aerial Vehicle Edge Computing based on DEEP LEARNING APPROACH Amalorpava Mary Rajee Samuel, Yamuna Devi. M. M, Madhusudhanan S	173
29	Intelligent Fire Detection and Response System with Dynamic Nozzle Control and Evacuation Planning Manorathna A. Y. S, Rathnayaka R. M. S. T, Sachintha Gayashan W. K, Lokesh Weerasinghe, Tharushika W. A. V, Revoni De Zoysa	179
30	Geolocatization-based Methodology for Control of Industrial Equipment Silvia Fuentes-Rivera, Lesly Chavez-Estrella, Wilver Auccahuasi	185

31	Developing a Predictive Framework for Smart Energy Trading in Interconnected Microgrids Sonal I Shirke, Sushil Jain, Payal Bansal	193
32	Renewable Energy based Micro Grid System for Electric Vehicle Charge Management Raja D, Sivasankar G, Mageswaran R, Nanthagopalan M	200
33	Time Triggered Load Controller using Real Time Clock Kaliraj A S, Vigram G, Atchayan A, Manoj Kumar M, Dhanalakshmi C	208
34	Smart Basket using RFID and Arduino Uno D. Viji, Tarun Prakash, Nanagari Puneeth	213
35	Transmission Line Fault Detection using Flame Sensor Manasvi Ashok Chincholkar, Aboli Suryakant Chormale, Jeenali Shah, Mansi Udawant, Rajas Patil, Pallavi Deshpande	219
36	AirTech Odyssey: A Web Application for Air Travel Reservations Poorvi K. Joshi, Bhaven Bubana, Tanvi Gillarkar, Pratham Warade, Yash Chetalangia, Sameed Qureshi	225
37	Integrated Component Health Monitoring and Identification System Utilizing Raspberry Pi with Thermal and Visual Imaging for Fault Detection and Analysis Padma Priya K, Abdul Kalam S A, Karthikeyan S, Somasundaram Kasiviswanathan	231
38	Arduino-based Wireless Power Transfer System Design for Smart Devices Md Firuz Mia, Tanvir Ahamed, Abir Sarkar, Faysal Hasan Sifat, AL Shaharia Islam	237
39	Smart Connection Enabled Portable Inverter Kannan Ramakrishnan, Pavithran B, Lokesh K	243
40	A Modified Multiport DC-DC Converter for EVs P. Vimala, Sri Hemapriya, V. Mohan	248
41	PhysioFit: A Inline Activity Recognition Leveraging Physiological Sensors R. Raja Subramanian, Sai Phanindra Pavan Kumar Gatikoppu, Venkata Krishna Chitikina, Poornesh Jana, Sri Venkata Naga Mani Teja Gollapalli	256
42	CNG/LPG Gas Leakage Accident Prevention System Mayur Shinde, Harshal Pawar, Mayank Sethiya, Vibhavari Joshi, Chaitanya Joshi, Pallavi Deshpande	262
43	Method for the Control and Monitoring Applied to the Personnel Working in Mines Wilver Auccahuasi, Yuri Pozo-Sanchez, Daniel Yucra-Sotomayor, Betty Pozo-Sanchez, Gabriel Aiquipa, Remigia Retamozo-Cuellar	268
44	Single-Ended Primary Inductor Converter (SEPIC) Converter, DC-DC Boost, and CUK Converters with a Self-Guided Reimanuian Residual Network: Optimisation of Solar Energy M. Sivaram Krishnan, V. Govindaraj, G. Jerin, D. Yuvanandhini, N. Sandhiya, A. Asha Begum	271
45	Modulation of Converter Multiphase Matrix for Wind Energy Systems using a Hybrid Mud Ring Algorithm Integrated with the Elk Herd Optimizer M. SivaramKrishnan, R. Vidyalakshmi, R. Raguna, R. Shanmathi, R. Sharulatha, K. Sujithra	277
46	Miniaturized Textile Antennas using Resonant Current Path Length Manipulation A. Taksala Devapriya, S. Robinson	284
47	Comprehensive Analysis of EV Aspects and its Industrial Integration for Vehicle to Home Applications	290

	Vaasu Gupta, Parveen Kumar, Surbhi Maurya, Arun Kumar Maurya, Dushyant Singh Chauhan, Kanak Gahlaut	
48	Sustainable Power Generation from Waste: Reducing Landfill Waste and Meeting Growing Energy Demands Sheikdavood K, Asokan R, Dineshkumar Thangaraju, Vedhashree S K, Lakshmi R, Arul Arumugam R	297
49	Integration of Hybrid Energy Storage System and Photovoltaic with Improving Microgrid Performance using Supervised Attention Multi-Scale Temporal Convolutional Network M. Siva Ramkumar, Gokul Gopan, Arun M, Jayant Giri, Khaled Al-Qawasmi	302
50	Voltage Improvement of a Grid-connected PV Inverter using Fuzzy control based Seven-level Inverter Compared with a Five-level Inverter by Varying the Reactive Power M. Saikumar, S. Jaanaa Rubavathy	308
51	Total Harmonics Distortion Improvement of AC Grid using Fuzzy Control based 7-Level MLI Compared with a 5-Level MLI by Reducing the Harmonics M. Saikumar, S. Jaanaa Rubavathy	314
52	Efficiency Improvement of a BLDC Motor using Fuzzy Control based Seven-Level Inverter Compared with Five-Level Inverter by Varying the Duty Cycle M. Saikumar, S. Jaanaa Rubavathy	318
53	Optimized Reactive Power Control in Multilevel Inverter using Power Imbalance Monitor Devarajan R, Anandh M, Ramakrishna Prabu G, Yuvaranai B, Shyamalagowri M, Vinod Kumar D	323
54	Hybrid Deep Learning and Ensemble Methods for Alzheimer's Detection from EEG Signals Mokara Anjali, G.Naveen Sundar, Yetukuri Gana Bala Meghana, Beereddy Sreeja, Narmadha, Senthil Kumar Thangavel	327
55	Study of Modified Nine Level Multilevel Inverter with Reduced Power Switches Sathish R, Venkatesh R, Devarajan R, Sivakumar P. C, Shyamalagowri M, Vinod Kumar D	333
56	Forecasting Electricity Consumption: A Comparative Analysis of ARIMA and Artificial Neural Network Kumar Chandar S	338
57	Optimal Allocation of Capacitor for Voltage Stability Enhancement of Power Distribution System using Ant Lion Algorithm Compared with Fruit Fly Algorithm by Reducing the Real Power Loss Pavan Pujar, M. Lavanya	344
58	Power Factor Improvement in IEEE-33 Radial Distribution Systems using Fruit Fly Algorithm Compared with Bat Algorithm by Optimizing the DG Size Pavan Pujar, M. Lavanya	349
59	FedEntropy: An Entropy-based Federated Random Forest Modeling Approach for Remote Diabetic Patient Monitoring Systems Nevlin Noble, Shajulin Benedict	354
60	Maximum Power Generation of PV system using ADO Algorithm for Different Load Conditions Selvam P, Devarajan R, Faarooq N, Venkatesh R, Shyamalagowri M, Sasikala K	360

61	Optimizing Smart Grid Energy and Load Prediction with Namib Beetle Algorithm and Self-Adaptive Physics-Informed Neural Networks D. Santhakumar, Dilip Mishra, Balasubbareddy Mallala, Sridhar. S, Trupti Dhanadhya	367
62	Enhancing Energy Management in Photovoltaic Systems with Battery Storage through Artificial Rabbits Optimization in Connected and Disconnected Modes D. Santhakumar, K. Kiruba Sankar, Balasubbareddy Mallala, Sridhar. S, Swaraj Kadam	374
63	Improving Reactive Power Management and Voltage Profiles in Hybrid Renewable Energy Grids using Heterogeneous Context-Aware Graph Convolutional Network M. Siva Ramkumar, Gokul Gopan, Arun M, Jayant Giri, Khaled Al-Qawasmi	380
64	Giant Trevally Optimization for Enhanced Vehicle-to-Grid and Grid-to-Vehicle Operations in EV Charging Stations E. Shiva Prasad, Vinodpuri Rampuri Gosavi, V. Venkatesan, MD. Asma, Kavitha P, P. Venkata Prasad	386
65	Revolutionizing VLSI Design: Integrating Quantum Dot Cellular Automata for Future-Ready System K. Kavitha Devi, Debojeet Kohar, Akshay S S, S. Jeeva Mithran, Joson Raja, Apurva Kaushik	393
66	Growth Prediction using IoT-based Smart Irrigation Systems P. Sebastian Vindro Jude, T. Abishek, A. U. Kaushik, Aanusri Ramesh	399
67	Environmental Monitoring using IoT using arduino UNO and Data Analysis R. Vijaya Chaitanya, Amulya C Patil, G. Harishwar Reddy, Bharat, Patil Mounica, K Muruga Perumal	404
68	Design of an Augmented Reality System with Internet of Things Features Applied to Mechatronic Stations Daniel Solís-Solís, Arys Carrasquilla-Batista	410
69	Securing Health Monitoring in IoT with Blockchain-based Proxy Re-Encryption Jerlin George, R. Chitra	415
70	Smart Irrigation System: Optimizing Water Usage for Sustainable Agriculture Aditi Singh, Devyanshika Pandey, Mohammad Rahil Iqbal, Mohammad Rashid Nazir, Sunil Kumar, Deeksha Sonal	421
71	An Efficient IoT-Enabled Women Safety Device Riddhi Vasant Hadkar, Apratim Pravin Phadke, Harsh Satpute, Kranti Raut, Pallavi Deshpande	425
72	Design and Development of an IoT-Enabled Remote-Controlled Hovercraft for Efficient Land and Water Mobility Ashutosh Marathe, Sanika Jadhav, Dhruvesh Kamble, Santosh Kandhare, Kapil Sangameshwar, Kritika Raina	432
73	WildGuard: Automated Barrier System for Animal Attack Prevention S Ariffa Begum, N. Subbulakshmi, A Balakrishna Reddy, Battu Aravind Kumar, B Sandeep Kumar Reddy, B Manikanta Reddy	440
74	Generate Electricity for Automobiles using Piezoelectric Sensors – Using IoT K. Suganya Devi, C. Vishnuraj, I. Syed Thaufiq Parvez, K. Sukirtha Veena, S. Swathi	447

75	Automated Greenhouse Monitoring with Bluetooth IoT System Atharva Joshi, Pragati Patil, Tanushri Rajput, Aryan Wale, Pallavi Devendra Deshpande	453
76	AgroShield: IoT-based Smart Farm Protection with Animal Intrusion Detection Pallavi Deshpande, Rohini Chavan, Sujal Patil, Namrata Khade, Bhakti Deshpande	460
77	Smart Incubatory System for Infants Monitoring using IoT P. Veeramani, I. Aravindaguru, M. Saranya, M. Ganesh, K. Dayanand, S. Indhira	467
78	Internet of Things (IoT) based Pre-Abnormal Detection for Elderly People C. S. Sundar Ganesh, P. Mahesh, S. Mouleeswaran, V. Munishwaran, R. Srinivasan	471
79	IoT Enabled Diabetic Health Surveillance Kalpana Murugan, Nagayapalli Shaheen, Palle Prathyusha, Malle Ashalatha, Akula Sahithi	476
80	Smart Hostel Management Through the IoT: Reducing Energy Consumption, Securing Access, and Preventing Theft Bhargav Prajwal Pathri, Venkata Sri Hari Borra, Krishna Vamshi Ganduri, Jeerreddy Mani chenna Kesava Reddy, Mahanth Raghav Kantipudi, Maneesh Reddy Jupalle	483
81	Real-Time Multilingual Farming Assistance using NLP Integrated Web API N. Shirisha, M. Srivani, K. Kowsalyadevi, G Bhaskar Phani Ram, Pavan Kumar Vadrevu, V. Bhaskara Murthy	490
82	Development of Smart School ID Card System for Maintaining Attendance Record Shalini S, Varshni Kanna M, Kirubakaran D	497
83	Digi Glove Healthcare Monitoring with Location Tracking and Alert Mechanism B. Perumal, Madhumitha. T, Harish. G	503
84	A Comprehensive Review on Integrating IoT and Arm Cortex for Weather Adaptive Street Lighting Pallavi H.Ganvir, Wani V. Patil, Sandeep R. Sonaskar	508
85	IoT Enhanced Greeting System for Smart Environment Divya Shree S, Muthu Bharathi M, Shreelakshmi C, Manimegalai M, K. Sebasthirani,	513
86	Intelligent Surveillance System for Weapon and Fire Detection in Corporate Environments using YOLO Ananthi S, Madhubala S, Shreatha G P, Sujitha S, Veneeshwari M	520
87	SVM-based Anomaly Detection in IoT- Enabled Microelectronic Systems Arun Kumar C. M, Muthukumar M. S, Swaminathan K	526
88	IoT-Enabled Management of Smart Grid Systems A. R. Kalaarasi, M. Prbakaran	531
89	RFID-based Automatic Mask Dispensing System using IoT Ramesh R, Dharani S, Gokul Anand K R, Vakula V, Sree Vidhya S	537
90	Machine Learning-based Intrusion Detection System for IoT using Contiki-OS Vinit Vora, Rishit Sinha, Jignesh Palan, Vikram Kulkarni	542
91	Monitoring of Outdoor Insulators under Heavily Polluted Conditions using IoT Ramakrishna Prabu G, Anbalagan T, Devarajan R, Chandramohan A, Sasikala K, Vinod Kumar D	549

92	Enhancing Energy Efficiency in Smart Agriculture: GA based Optimization for Large-Scale LoRaWAN Networks Rashmita Sahu, Priyanka Tripathi	553
93	Brain Tumor Detection and Classification using Vision Transformer (ViT) G. Naveen Sundar, D. Narmadha, Nivin Abraham Jerry, Senthil Kumar Thangavel, Selvanayagi Kolandapalayam Shanmugam, Adeyemi Abel Ajibesin	562
94	Securing Cloud Data: A Comprehensive Review of Hybrid Cryptography and Analysis of AES, Blowfish, and Twofish Algorithms Muthu Meenakshi G, Sabeen S	568
95	Multi-Modal Biometric-based Threat Detection for Securing Electronic Voting Processes Dewni A. Weerasekara, Dineth S. Manorathne, Wickramasinghe R. G. M. N, Vihindu N. Gamage, Narmada Gamage, Poorna Panduwawala	576
96	Monitoring of Pediatric Growth and Dermal Wellness via Blockchain and U-Net Framework Mohanraj B, Harshavardhan S, Raiyan Ahamed R, Mithun K, Priya M, Dineshkumar P	584
97	Enhanced Alert Generation System with Attacker IP for DoS Attacks R. Tamilkodi, P. Saroja Rani, L. Ganga Deepthi, M. Puri Jagannadh, K. Venkata Pavan Kumar, T. Ravi Teja	590
98	Balancing Security and Privacy-Preserving Counterterrorism R. Tamilkodi, L. Venkateswara Kiran, K. Sai Soudamini, P. Pratibha, P. Ramu, M. Praneeth	596
99	Secure and Efficient Intrusion Detection System in Medical Cyber-Physical Systems Divina T P, Jaspher W. Kathrine	602
100	Strengthening Web Phishing Detection Against Adversarial Techniques R. Tamilkodi, B. Sujatha, Jeerreddi Durga, Bathina Madhuri, Jajimoggala Nava Tharun, Kunchala Chinna Srinu	609
101	Secure Communication in Resource-Constrained IoT Environments using MQTT Protocol: A Review Sharadadevi Kaganurmath, Nagaraj G Cholli	615
102	Distributed Blockchain-SDN Models for Robust Data Security in Cloud-Integrated IoT Networks Koya Haritha, Sai Srinivas Vellela, Roja D, Lakshma Reddy Vuyyuru, Nallapu Malathi, Lavanya Dalavai	623
103	Deciphering Depression: Linguistic Analysis of Social Media Data Manoshika Catherine S J, C P Shirley, Manicka Raja, R Venkatesan, Saravana Kumar C S, Sheril Angel J	630
104	Innovative Financial Fraud Detection: Combining GCRNN and DiffPool with N-Way K-Shot Classification Techniques Tilak Bala S, Rajeswari M	636
105	GAI-Enhanced Intrusion Detection using Began- GRU Framework to Address Data Imbalance Shivanthana S, Ciza Thomas	644
106	Cloud-Block: An Integrated Cloud and Blockchain using Secure Cloud Computing B. Srinivas, K Nageswara Rao	651
107	Optimized Smart City Communication Security using Pacenids Classification Technique with WB- Smote Normalization N Girubagari, T. N Ravi, S. Panneer Arokiaaraj	658

108	Secure Channel Creation for Task Delivery in Vehicular Cloud Computing to Avoid Denial of Service (DoS) A. Meenambika, S. Pavalarajan, N. Anu Lavanya, B. Ajith Jerom, S. Divya	665
109	Traditional Work Station System with AI based Crypto Mining M. Vanitha, Harivanth A, Govardhan K	672
110	Revolutionizing Vehicle Safety and Alerting Black Box Ranjeetsingh Suryawanshi, Kunal Dhumal, Tanisha Patil, Mayur Borole, Rajvardhan Patil, Prathamesh Pardeshi	677
111	Data Breaches: Financial and Reputational Impacts of Vulnerabilities on Organizations to Enhance Cybersecurity Strategies Aishwarya Gite, Ashutosh Joshi, Jigyasa Agrawal, Tanisha Agarwal, Namruth Reddy, Mohana, Minal Moharir	684
112	Blockchain Technology for Enhanced Transparency, Efficiency, and Security in Supply Chain Management Santhosh Krishna B V, M. Vanitha Lakshmi, S Sathyanarayanan, Balaji L, Harshith C. M, S. Kaliappan	690
113	A Novel Cryptographic Approach: Armstrong Number Key Generation with RGB Encoding for Enhanced Data Anvesha Pandey, Tanu, Yashdeep Tyagi, Shashank Varshney, Arun Kumar Maurya, Nitin Sharma	694
114	Securing IoT Devices with Enhanced Tiny Encryption Algorithm Bhagya S, Kurunandhan Jain, Prabhakar Krishnan	700
115	Adversarial Attack on Deep Learning Model Detecting XSS Aswin Harish Kuttaten, Kurunandan Jain	706
116	Reliable Cloud Service Allocation based on Genetic Integration under multiple parameters P. Subhasri, J. Jegathesh Amalraj, A. Sumathi, B. Srinivas, S. Santhoshkumar	712
117	Optimization of Cloud based Monitoring Application in Software Engineering U. Vignesh, Monica K M, Gokul Ram K, Ghaayathri Devi K	717
118	Optimizing LLM Architectures for Real-Time Applications in Full-Stack Development Tamilarasam Kannadasan	721
119	Custom LLM Architectures for Context-Aware User Interactions in Web Applications Tamilarasam Kannadasan	727
120	Stock Sage Navigator: Guiding Investors through Market Complexities S. Shanmugapriya, Gogineni Jethin, Gondipalli Hari Priya, Chintamani Vinod Kumar, Dola Lokesh Sai	733
121	Sign Language-to-Emotion-Specific Text Translation: A Review Srivaishnavi Mannepula, Mucharla Hrishitha, R. Ravinder Reddy, S. China Ramu	738
122	Dynamic Pricing in Freelancing: An approach to Fair Compensation for Freelancers Nishtha Joshi, Ishwari Datir, Raghav Mundhara, Bincy Ivin	747
123	Enhancing Financial Risk Analysis using RAG-based Large Language Models Abhishek Darji, Fenil Kheni, Dhruvil Chodvadia, Parth Goel, Dweepna Garg, Bankim Patel	754
124	Enhancing Medical Visual Question and Answering System Keerthana S. M, Santhosh S, Sethuanand K	761

125	Development of a Web System for Epidemiological Alert and Surveillance Alicia Maria Villon-Coveñas, Wilver Auccahuasi	766
126	Methodology for the Implementation of Slurm-based HPC Services Neil Erick Curia-Alcantara, Camilo Inga-Coveñas, Wilver Auccahuasi	771
127	Implementation of a Customized Named Entity Recognition (NER) Model in Document Categorization Freddy Hernandez-Lareda, Wilver Auccahuasi	776
128	Development of Helpdesk Chatbot for Incident Classification and Resolution using NPL and Deep Learning David Tipe-Palomino, Wilver Auccahuasi	785
129	Detecting Bean Crop Health: A ResNet50-Based Approach to Disease Classification Arpanpreet Kaur	792
130	Deep Learning-based Identification of Rice Varieties: A CNN Approach Ritu Rani, Sheifali Gupta	798
131	Feathered Precision: Leveraging EfficientNet-B2 for Cutting-Edge Bird Species Classification Arpanpreet Kaur	803
132	Empowering Sustainable Farming: Detecting Potato Leaf Diseases with Fine-Tuned VGG19 Ruchika Bhuria, Sheifali Gupta	809
133	Refined Face Emotion Recognition using Convolutional Neural Networks with Adaptive Loss Functions for Real-Time Applications Ritu Rani, Sheifali Gupta	815
134	Enhanced Bird Species Identification using ResNet-50: A Deep Learning Framework for High-Performance Classification Jashanpreet Kaur, Shalli Rani, Ankita Sharma, Ayush Dogra	821
135	WingSpan: Advanced Butterfly Classification using ResNet-18 Networks Jashanpreet Kaur, Shalli Rani, Ankita Sharma, Ayush Dogra	827
136	Decentralized Application for Agricultural Supply Chains Milind Eknath Rane, Prit Prasad Mali, Mantesh Bhimashankar Mhetre, Aayush Govind Mor, Mrunal Ganesh Nikam, Rajesh Jagdish Dhake	833
137	Generative and Predictive AI for Gaming and Motion Capture: A Review K S Shashikala, Lavnish C, Nijas Nahas, Mahendra Shridhar Naik	840
138	Integrating Deep Learning with the Gemini API for Improved Pest Management Milan Manoj, Faraz Ihsan, Devadath G K, Anjali T	846
139	Artificial Intelligence Driven Visualization for Enhanced Waste Management and Air Pollution Control in Smart Cities Aravind Chandran, Lakshmi Narasimman P, Leena T, J Jasin Joel Raj, Veerapandian V R	852
140	Innovative Approaches in Deep Neural Networks: Enhancing Performance through Transfer Learning Techniques A. Kalaivani, P. Jayapriya, A. Sangeetha Devi	857
141	Enhancing Diagnostic Quality via Medical Image Integration Procedures Shweta Sharma, Shalli Rani, Ankita Sharma, Ayush Dogra	865
142	Optimizing Facial Skin Disease Classification using ResNet152V2 Architecture Tanishq Soni, Deepali Gupta, Mudita Uppal	871
143	Advanced Eye Disease Classification using the EfficientNetB3 Deep Learning Model Tanishq Soni	875

144	Enhanced Plant Stress Classification using Deep Convolutional Neural Networks with MobileNetV2 and Transfer Learning Pratham Kaushik, Saniya Khurana	880
145	Enhancing Cardiovascular Risk Prediction with Vision Transformer and Retinal Image Analysis Nikhil S, Anjali T	885
146	Smoke Sentry: Employing YOLO-based Deep Learning for Sophisticated Real-Time Smoking (Cigarette smoking) Detection in Surveillance Networks Sathiskumar N R, Rajakrishnamoorthi, Sivagnanasekar G, Vijayarajan S, Shameem Mohamed A R, Hari Madhavan C	892
147	Automated Detection of Urine Sediments using YOLOv8 K S Shashikala, Ramyashree P M, Somesh S, Parimitha Manigani, Siya raj, Sudiksha Ravipati	899
148	A Novel Approach for Heart Disease Classification using Cascaded XGBoost Algorithm Rajitha. M, S. Santhana Megala	905
149	Optical Character Recognition: Comparative Analysis of Tesseract and Textract on Diverse Datasets Manan Modi, Arpita Shah, Deep Kothadiya, Mrugendra Rahevar	913
150	Flight Delay Prediction using Neural Fusion Network Ashok Reddy Kandula, Potru Sandhya Priya, Mohammad Sameena Simmin, Vesangi Naga Arathi, Mohammad Afrin	920
151	Short-Term Wind Speed Forecasting using Long Shot-Term Memory Algorithms J Sathyaraj, V. Sankardoss	927
152	Fetal Anomaly Detection in Ultrasound Images: A Review of Deep Learning-based Approaches Sneha Rahul Mhatre, Jagdish W. Bakal	936
153	Improving Text Recognition in Natural Scenes using Optimized OCR Techniques Vishnuvardhan Atmakuri, M. Dhanalakshmi	943
154	Intelligent Data Pipelines for Predictive Maintenance in SAAS Products Shubham Dubey, Sweta Priyadarshni	951
155	Utilizing AI-powered Drones for Efficient Flood Rescue Operations M. Jaswanth Kumar, Dhanush Bitra, Rohan Titus, Dill Jazz, Cinu C Kiliroor	957
156	A Comprehensive Approach to Enhancing Science Practical Education using AI, ML, Image Processing, and NLP for Secondary Education K. P. P. U Ranasinghe, J.S Ranasinghe, D. C Wickramarachchi, W. P. D. B Karunarathna, Samantha Rajapaksha, Vishan Jayasinghearachchi	965
157	IV Smart: Empowering the Visually Impaired using AI-Driven Assistive Technology A N Ramya Shree, Sreevidya R C, Shankaramma, Rakshitha K, Priyanka B A	973
158	Air Quality Management in Smart Cities by Leveraging Machine Learning Techniques A N Ramya Shree, Shankaramma, Charulatha Reddy	978
159	Detection of Breast Cancer by Leveraging Vision Transformer Model Sowjanya. Y, Sudheer Reddy. K	984
160	DeepFusion: A Novel Deep Learning Technique for Enhanced Image Super- Resolution Sneha R Mhatre, Jagdish W. Bakal	991

161	Artificial Intelligence in Personalized Medicine: A Survey on FuncPredict: AI Driven Genetic Variant Analysis Dhanapandi V, Mahendran G, Nivetha S A, Sonali M, Susmitha D P	999
162	Sprocket Defect Detection using Deep Learning Sugantha Mallika. S. S, S. Bhaggiaraj, Nivarshan. T K, Praveen Xavier. R, Rahul. R	1006
163	Real-Time Stress Detection via Facial Recognition using VGG16 CNN: A Non-Intrusive Approach Jayakumar Sadhsaivam, Siddhanth Garg, Vishnu A, Swathika Eakambaram, Siddhant Dayal, Antarang Kalia	1012
164	Youth Mobile Usage Monitoring: A Comprehensive Overview of Trends and Tools Patel Kartik Rameshbhai, Khyati Zalawadia, Vipulkumar Dabhi,	1019
165	A Survey on Early Detection of Autism Spectrum Disorder Nilofer Attar, Shilpa Paygude	1024
166	Hybrid Fuzzy C-Means and Ant Colony Optimized (ACO) Clustering Approach for Efficient Routing in Flying Ad-Hoc Networks (FANETs) V. Vinoth kumar, Eswari @ Petchiammal G, V. Divya, Ramesh. S, C. Tharun Kumar	1031
167	An Extensive Analysis of Breast Cancer Detection using Deep Learning Algorithms Milan Manoj, Akshay rajan, Gouri Santhosh, Anjali T, Panchami Sankar	1038
168	The Impact of Innovative Artificial Intelligence Technologies in Talent Acquisition M. Umamaheswari, Ginu Mol George, N. Amsaveni, D. Divya, B. Merceline Anitha, S. Ananda Kumar	1044
169	Vehicle Detection and Speed Estimation using Deep Convolutional Neural Network U. Sakthi, Imthiyaaj Mynudeen, Praveen Kumar G M	1050
170	Shielding NLP Systems: An In-depth Survey on Advanced AI Techniques for Adversarial Attack Detection in Cyber security T. Sai Lalith Prasad, K. B. Manikandan, J. Vinoj	1059
171	An AI-Powered Framework for Real-Time YouTube Video Transcript Extraction and Summarization using Google Gemini Aravind Chandran, Ramadugu Sai Kiran, Pasupuleti Sreenivasulu, Repalle Lokeswar, Pathipati Lakshmi Narasimha, Jonnalagadda Nihit	1068
172	Real-Time Weather Classification using Transfer Learning for Enhanced Safety and Decision-Making Jayanth T, Shahid S, Jeffin Gracewell	1073
173	Enhancement of Alzheimer's Disease Detection Technique by Fusing Features of Deep Learning and Handcrafted Methods on sMRI Images Sampa Rani Bhadra, Santi Prasad Maity, Jaya Sil	1079
174	Enhanced Blood Group Prediction with Fingerprint Images using Deep Learning C. Sivamurugan, B. Perumal, Yelchuri Siddarthha, Vavilala Krishna Murthi, Yaramati Nanda Sankar, Yerra Varun	1091
175	Adapting Deep Learning Transformer Model for Depression-Specific Named Entity Recognition: A Transfer Learning Approach Dipti Pawar, Shraddha Phansalkar	1098
176	Deep Evolving Dual Attention Network for Event Prediction to Evolving Participants in Event based Social Networks Vadivambigai. S, Geetharani. S	1106

177	Automated Blood Cell Identification, Counting, and Sub Type Classification using Deep Learning Vijaya Kishore V, Kalpana V, Nagendra R	1115
178	AI-Powered Crop Suggestion, Yield Prediction, Disease Detection, and Soil Monitoring N. Santha Raju, R. Tamilkodi, Vanaparthi Chandra Shekar, Bogadi Jaya Bharathi, Koviri Dinesh Kumar, Yanamala Sumanth	1120
179	The Impact of Smart Irrigation on Agricultural Productivity: A Study of Farmer Adoption and Challenges Shwetha M S, Pooja M R	1125
180	Artificial Intelligence in Product Management: Enhancing User Experience Personalization through GenAI Pankaj Pilaniwala	1135
181	Artificial Intelligence and Natural Language Processing (NLP) Integrated Multilingual Health Insurance Application R Priyanka Pramila, Rivanthika Shri R, Varsha S	1141
182	Real-Time Sitting Posture Detection for Students in Classroom Environment Vani Patel, Yashvi Patel, Yashvi Shah, Parth Goel, Dipak Ramoliya	1146
183	AI-Driven Insights: A Survey on Innovative Approach for Lung Cancer Prediction Utilizing Machine Learning and Deep Learning Methods A. Lakshmi Bhargav, C. Ashokkumar	1152
184	AC-BPFS: Enhancing File System Performance with Adaptive Anti-Caching for Tiered Storage Systems Nuthan Manish Ratnam Dokka	1159
185	A Hybrid Model for GAFAM – Stock Price Movement Forecasting and Correlation R. Durga Meena, Maharajan Kalinandi, Mandali Dijendra Sai Sri Bharath, Sarvepalli Maha Bala Siva kumar, Potti Jayavardhan, Varun tej Pyrapu	1169
186	Interpretable AI Models for Effective Monkeypox Diagnosis R. Tamilkodi, V. Bala Sankar, N. Leelavathy, Sai Rahul, Avinash Kumar, Shanmuk Sai Vardhan	1176
187	Enhanced Loan Approval Prediction System using Ensemble Machine Learning Techniques E. Gothai, R. R. Rajalaxmi, R. Thamilselvan, Sridhar K	1182
188	Machine Learning based Screening for Diabetes Risk Prediction Ashok Reddy Kandula, Velevela Veda Samhitha, Vilasagarapu Harshitha, Ragam Naga Sindhuri, Sangireddy Aarathi Nagavalli	1188
189	Breast Cancer Classification via the Use of ML and DL: A Comprehensive Review Ruvanshi Sarang, Vipul Dabhi, Arpit Shah	1194
190	Automated Tomato Classification using CNN-ELM with Enhanced Whale Optimization for Grading Hema Malini A, Archana T, Rohini M, Lakshana D, Jayashree P	1200
191	Gate Guard: Streamlining Agriculture with Smart Water Gate System Nandam Niharika, S. Srinivasulu Raju, R. Akash, Imtiyaz Hussain, K. John Victor	1206
192	A Review on Papaya Leaf and Fruit Disease Classification Techniques Yashkumar Rank, Kruti Sutariya	1212
193	Comparative Analysis of Vision Transformers and CNN-based Models for Enhanced Brain Tumor Diagnosis Asmi Mangesh Kocharekar, Satavisha Datta, Padmanaban, Rajakumar R	1217

194	An Ensemble Deep Learning and Modified Wild Horse Optimization Based Pixel Selection for Secured Content-based Medical Image Retrieval S. Ramya, V. Sumalatha	1224
195	Efficient Handwritten Digit Classification using Convolutional Neural Networks: A Robust Approach with Data Augmentation Eshika Jain, Amanveer Singh	1234
196	A Review on Sugarcane Leaf Defect Detection Approaches Avi Patel, Kamal Sutaria, Rachit Adhvaryu	1240
197	Multi-Model Emotion Recognition from Voice Face and Text Sources using Optimized Progressive Neural Network: A Literature Review T. Indra Deepika, AN Sigappi	1245
198	Automated Dynamic Stuttered Speech Recognition System and Conversion System using MEL Filter and Enhanced Logistic Regression Model K. Nirosha, N. Venkatesh	1254
199	Automated Email Sorting in Organizations: A Machine Learning based Multi-Class Classification System Dhyana Soni, Mit Swadas, Hetal Gaudani, Jay Shah	1262
200	Data Analysis on Lok Sabha Elections Anvesha M S, Tanisha Nandwana, M Baskar	1268
201	Enhancing Academic Performance Predictions using Deep Belief Networks: A Novel Approach for Educational Data Analysis Irwa Zahoor, M S Radha Manga Mani, Saravanan B, Ajay Kumar, Chaitali Bhattacharya, Rohit Kar	1274
202	Enhanced Plagiarism Detection in Online Assignments by Natural Language Processing and Machine Learning Techniques Hemandkumar E, Varun Kumar A, Jeffin Gracewell	1281
203	Improving the Precise Identification of Animal Species through the use of Vision Transformers Soundarya M, Lingesh Kumar K, Pawan Prasath SM	1287
204	Brain Tumour Categorization Deploying Deep Learning Vinod Kumar, Kuchivaripalli Ravi, Kumar vamsi	1294
205	An Enhanced Machine Learning Framework for Advanced Analysis and Monitoring of Women's Safety on Social Media Platforms Narmadha Devi. A. S, K. Sivakumar, V Sheeja Kumari	1300
206	A Lightweight Convolutional Network for Deep Learning-based Ball Manipulation by a Soccer Playing Robot Harinath Sridharan, Ganesh M	1305
207	Leveraging HPC with GAN-CNN Integration for Enhanced Tuberculosis Detection using Synthetic Image Generation Pokala Manasa, Vaishnavi Veeramalla, Vanusha D, Vathana D, Delsi Robinsha S	1311
208	AI-Driven Assessment and Evaluation: Enhancing Sustainability in Educational Practices P. Chinnasamy, M. Pushpalatha, V. Nirmala, Vidhya V, Ramesh Kumar Ayyasamy, Divya Priya	1319
209	Real-Time Marathi Sign Language Recognition using Deep Learning Techniques Rushali Deshmukh, Tushar Lahamge, Isha Phadatare, Dipali Shinde, Raghav Manhas	1326
210	EfficientV2 for Real-Time Skin Type Detection with Enhanced Image Processing Rishab Halder, Senbagavalli M, Saswati Debnath, C P Shirle, R Venkatesan	1332

211	Brain Stroke Detection using CT Images Kanchana M, Shankar R, Hariharann G	1338
212	Real-Time Sign Language Recognition using Machine Learning and CNN-based EfficientNetB3 for Accessible Communication Zabir Ibna Mizan, Farzam Aidelkhani, Khandaker Tasfia Reza, Tanbir Hasan Bhuiyan, Munzirul Alom, Saiful Islam Tuhin	1344
213	Anomalous Behavior Detection in ATM using Different Methodologies: A Review Harsh Thakre, Kush Bhushanwar, Anil Patel	1350
214	A Review of Extracting Metadata from Scholarly Articles using Natural Language Processing (NLP) Parth Raval, Hetal Bhaidasna	1355
215	A Hybrid CNN-LSTM Model for Accurate Prediction of Cardiac Arrhythmia using ECG Signals S. Varshini, T. S. Dhanush	1360
216	Visionary Text Recognition System for Assisting the Visually Impaired in Identifying Medicines and Products with Hybrid Deep Learning A. Yasmine Begum, R. Krishnamoorthy, Anil T. Gaikwad, N Malarvizhi, D. Sreenivasa Rao, Nuthalapati Adinarayana	1369
217	Reinventing Grocery Shopping with Reinforcement Learning Anvitha Choppa, Appikatla Kesavarshini, Mallampati Bhavishya, Yamarthi Narasimha Rao	1375
218	Implementation of Retrieval-Augmented Generation (RAG) in Chatbot Systems for Enhanced Real-Time Customer Support in E-Commerce J. Benita, Kosireddy Vivek Charan Tej, E. Vinay Kumar, G. Venkata Subbarao, CH. Venkatesh	1381
219	Person Counting and Position Mapping in Dynamic Video Environments using YOLOv7 Santosh Kumar Choudhary, Pradeep Kumar, Mididoddi Tejaswi, K. Tejaswini, V. Harshith kumar	1389
220	Enhanced Gym Performance Prediction using Machine Learning: A Comprehensive Model for Personalized Fitness R. Babitha Lincy, S S Akkshara, S Chandarshini, K S Prasad, R Prabu Dev	1396
221	Estimation of THz Absorption Coefficient of Soil using Machine Learning Sandeep Kumar Sunori, Shilpa Jain, Amit Mittal, Pradeep Juneja	1401
222	Corn Crop Yield Prediction using Deep Learning Iniyan S, Pidikiti Keerthi, Shruti Pawar	1407
223	Sign To Text: Automated Sign Language Interpretation using LSTM and Computer Vision Sankara Mahalingam M, N. Suresh Kumar, Chintapudi Harika, Chennamsetty Harika, Chintala Sankar Reddy, Dasari Pavan Kalyan	1414
224	Multi-Modal CNN-Ensemble Learning with PANSEGNET for Early and Accurate Pancreatic Cancer Analysis Kavitha A, Dhanush Sriram R, Arunkumar R	1420
225	Optimized Hydroponic System for Predicting Abnormal Lettuce Leaf using AI Techniques Archana Bhamare, Vivek Upadhyaya, Payal Bansal	1428
226	An Empirical Review of Supervised and Reinforcement Learning Algorithms for Personalized Exoskeleton Robot Training Systems in Neurorehabilitation Sweety Narula, R. S. Pol, R. V Patil	1434
227	Enhanced Cancer Prediction using Fine-Tuned CatBoost Model Vikramraj Kumar Thiyagarajan	1442

228	Chronic Kidney Disease Analysis using Various Biological Parameters under Machine Learning Techniques M. Suresh, E. Nirmala, M. Maragatharajan, Manish Yadav	1449
229	Efficient Parking Management for Modern Urban Environments Katta Murali, Kannan Ramakrishnan, Shaik Sandeep	1456
230	Review on Automated Brain Tumor Segmentation using Advanced Deep Learning Techniques: Enhancing Precision and Clinical Applicability Vishalakshi V, Arunprasath T, Pallikonda Rajasekaran M, Kottaimalai Ramaraj	1461
231	CG-FER: A Hybrid CNN and GAN based Facial Expression Recognition S. Pavan Kumar Reddy, Jakkula Suryateja, K. Shriya Bushan, Allapu Manaswini, B. Venkata Pavan Sai	1469
232	Tomato Leaf Disease Classification using VGG16 Sivasankari SS, Vinu R, Supriya	1475
233	Hand Gesture Recognition using CNN-GNN R Deepika, Chaitanya Sai Kondoju, Praneeth Reddy Bokka, Adarsh Bonala, Rithwik Reddy Banala	1482
234	Early Detection of Brain Tumor using ResNet50 and Transfer Learning Sandip Desai, Milind Mushrif	1488
235	Smart Fabric Inspector System using Deep Learning Algorithm Ananthi S, Preetha R, Soundharya S, Swathi S, Vanitha M V	1493
236	Healthcare Information Systems and Study of Machine Learning Technology for Cancer Detection T. Naresh, B. Gouri, S. Riyaz Banu, Y. Sravanthi, R. Lakshmi Narayana, Y. Suneel Kumar	1501
237	Lung Cancer Detection using Convolutional Neural Networks and Virtual Reality M. Mounika, Shastrula Hrushikesh Sharma, Shivaratri Harshini, Gavvalapally Srilaxmi	1507
238	Predicting Uterine Cancer Outcomes using Deep Learning on Genomic Diagnosis from Histopathology Images Kavitha A, Anto Sam Chandran B, Divislay R	1513
239	Evaluating Performance of Machine Learning Models for Chromosomal Disorder Classification using Karyotype Images: A Comparative Study Pallavi Shetty, Swathi Kamath, Prashanth Shetty D, Rajesh B S, Reshma Arun Shetty, Deeksha	1520
240	Deep Learning Approach for Feed Intake Monitoring in Cattle Krishna Saurabh Soni, Pranshi Talati, Dweepna Garg, Parth Goel	1528
241	A Systematic Study About Chronic Disease Prediction Strategies using Artificial Intelligence based Algorithms P. Priya, S. Kavya	1535
242	Development of an AI based Priority Formation Mechanism in Criminal Law Kashish Sharma, Ankita Amburle, Vijay Shelake, Ashvini Ashok Chauhan	1542
243	Precision Diagnosis of Melanoma using Deep Learning Techniques on DICOM Dermoscopic Images K Maharajan, Harshitha S, I Sri Vidya, Jajam Tejmai, Gollapudi Katyayini	1549
244	Artificial Intelligence and Remote Work: Transforming Human Resource Management in a Post-Pandemic World Ch Sahyaja, Ch Shankar, Khudsiya Zeeshan, P. Nagaraj	1555
245	Restaurant Ranking System using Fuzzy TOPSIS, Fuzzy AHP & Fuzzy Synthetic Evaluation Techniques Keerthi M, Dhanalakshmi G, Trupthi Rao, Ashwini Kodipalli	1561

246	A Comparative Analysis of Fuzzy Methods for Predicting Student Dropout Rate Sumukha K, Sahana G, Trupthi Rao, Ashwini Kodipalli	1566
247	ML-Driven HR System: Candidate Assessment for Enhanced Recruitment Outcomes G C Dixon, S Srithanujan, H D T N Ranaweera, R. M. P M Ariyaratne, K L Weerasinghe, N Gamage	1572
248	Deep Learning for Medical Image Segmentation: Applications in Disease Detection and Diagnosis Kannan R, Jestus J, Madesh P	1578
249	Driving Sustainable Water Solutions: Optimizing Water Quality Prediction using a Stacked Hybrid Model with Gradient Boosting and Ridge Regression Manushri Tummala, Keerthana Ajith, Sriya Krithika Mamidibathula, Pooja Kenchetty	1584
250	Machine Learning (ML) based Electricity Price Prediction with Visualization Abisha D, Navedha Evanjalini R, Prasanna Kumar D. Rajesh P, Ida Christy J, Mohamed Haris K	1590
251	Image-based Fruit Quality Assessment using Deep Learning Algorithms Lokkesh Annamalai SK, P. Vinodhialakshmi	1596
252	Smart Water and Light Control System for Greenhouses Divya Shree S, Manimegalai M, Santhi S, Suguna R, Malathi M	1604
253	Expert System to Predict the Harvest of Dry Starchy Corn Daysi Manco-Yupari, Keyla Vargas-Huertas, Wilver Auccahuasi	1609
254	Using Artificial Intelligence to Encourage Creativity in Student Decision-Making: A Literature Review Victor Huayllani-Palomino, Grisi Bernardo-Santiago, Wilver Auccahuasi	1615
255	Precision Health: Maximizing Well-being with IAHN Integration Shaik Jumlesha, S. Hrushikesava Raju, S. Adinarayna, U. Sesadri, Nabanita Choudhury, Vijaya Chandra Jadala	1623
256	Product Recommendation using Feature-Level Analysis Pujala Nanda Kishore, D. Kishore Babu, Kumara Raja Jetty, Ravindra Raman Cholla	1631
257	AI Approaches to Managing Ménière's & Disease: A Survey of Microfluidic and Wearable Technologies for Vertigo Relief B. Nivetha, SM. Jayaseelan, Ramya K L, Preansy Ansel, Jeevisri D, Vasanth. V	1635
258	Comparative Analysis of Soft Computing Algorithms for Predicting Employee Turnover in IT Industry Kumar Chandar, Vijayadurai J, Chandrasekaran K	1643
259	Anti-Interference Dynamic Integral Neural Network for Optimizing Energy Management in Retrofitted Hybrid Electric Vehicles M. SivaramKrishnan, P. Palpandian, J. Mahieshwar, V. Mohanraj, K.K vimal	1648
260	Face Recognition based Door Lock System D. Vaishali, Akash Barath V S, Santhosh Jerome A R, K Sri Krishna, Maanesh M	1655
261	Enhanced Audio-Visual Speech Enhancement via Attention-based Sparse Graph Convolutional Neural Networks with Fire Hawk Optimization Dheeraj Hebri, Rakesh Kumar Joon, Mohan M, P S Ramaprabha, Venkata Satish Dhulipudi, Jonnadula Narasimharao	1659

262	Optimized Deep Learning Approaches for Lung and Colon Cancer Classification using Histopathological Images Vinod Kumar D, Murali G	1665
263	Improving Sign Language Recognition for Deaf and Hard of Hearing Individuals using the VGG16 Model Minu Inba Shanthini Watson Benjamin, Yaseen Patan, Ansilin Kumar S M, Pocharam Nithyanandh Reddy, Syed Faheez Ahamad, Muvvala Sai Puneeth	1670
264	Revolutionizing Lion Conservation with EfficientNet B7: Real-Time Detection and Health Classification Sampath Kumar Koradaa, Syam Virat Gupta Potnuru, C. AshokKumar, C. Jothi Kumar	1676
265	MultimodNet: A Multimodal Deep Learning Model for COPD Staging based on Chest X-Ray and Pulmonary Function Tests A. Krishnaveni, G. Vinoth Rajkumar, J. Relin Francis Raj, R. Santhana Krishnan, S. Murali, Imran Javeed Settu	1683
266	Enhancing Spectrum Sensing in Cognitive Radio Networks using Deep Learning Models: A Solution for Low-SNR Challenges P. Ramakrishnan, V. Priyanga, A. Sathiya, D. Sharmiladevi, A. Samundeeswari, B. T. Annapoorani	1691
267	VitiNet: Precision Grape Disease Identification with Deep Learning K. Palanivel Rajan, J. Relin Francis Raj, R. Santhana Krishnan, S. Vijay Shankar, V. Vinoth Kumar, S. Kavitha	1697
268	MentalHealthAI: Utilizing Deep Learning for Accurate Stress Level Prediction S. T. Bharathi, J. Relin Francis Raj, R. Santhana Krishnan, V. Rajalakshmi, V. Vinoth Kumar, J. V. Anchitaalagammai	1705
269	Deploying Faster R-CNN for Real-Time Tiger Monitoring in Wildlife Conservation S. Saravanan, J. Relin Francis Raj, G. Vinoth Rajkumar, C. Antony Vasantha Kumar, N Soundiraraj, K. Bharathi	1713
270	Classification of Brain Tumor Images using Transfer Learning Loga Prakash. T, Tharun Kumar. S, Harshith. E, Elangovan. T	1721
271	Fruit Calorie Measurement using K-Nearest Neighbor Algorithm Ramya B, Abirami S, Ramya M, Kulothunga Rajan R	1727
272	Smart Agriculture: Advanced Rice Disease Detection using YOLOv10 for Enhanced Crop Health Management V. Surya, S. Santhi	1733
273	Waste Classification using Edge based Multilayer White Shark Dense Net-Spiking Neural Network from Urban Areas Chitra Kiran. N, Ruchira Rawat, T. Madhavi, SKM. Pothinathan, Dhaval Rabadiya, Karthik Kumar	1738
274	Early Epilepsy Diagnosis using Epistemic Neural Networks with Electric Eel Foraging Optimization and Secure EEG Data Sharing via Blockchain Mohideen Abdul Kader M, Baba Fakruddin Ali B H, Hariharan R, Sukanya Ledalla, Swaraj Kadam,	1745
275	EfficientNetB0-based Automated Diabetic Retinopathy Classification in Fundus Images Ezekiel Alaric Majaw, G. Naveen Sundar, D. Narmadha, Senthil Kumar Thangavel, Venkatesan, Adeyemi Abel Ajibesin	1752