2025 International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI 2025)

Erode, India 20-22 January 2025

Pages 1-650



IEEE Catalog Number: ISBN:

CFP25VH0-POD 979-8-3315-0983-5

Copyright © 2025 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP25VH0-POD

 ISBN (Print-On-Demand):
 979-8-3315-0983-5

 ISBN (Online):
 979-8-3315-0982-8

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Phone: (845) 758-0400 Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



<u>International Conference on Multi-Agent Systems for Collaborative</u> <u>Intelligence ICMSCI 2025</u>

20-22, January 2025

Table of Contents

S. No	Paper Title/ Author Name	Page. No
	Maximizing Sentiment Detection through Comprehensive Multimodal Data	
1	Fusion: Integrating CNN, RNN, LSTM	1
	Kavitha. A, Aishwarya B, Durgagowri G	
	Biological Data Analysis and Classification for Breast Cancer using Advanced	
2	Innovative Model	8
2	J. Sumitha, Drishya P, Renuka K, Narmadha. G. M, Ahgama Sundar N, Janani	
	M	
	Multimodal Learning in Natural Language Processing: Fact-checking, Ethics	
3	and Misinformation Detection	14
	Himanshu Sanjay Joshi, Hamed Taherdoost	
	Cloud-Supported Bayesian Networks for Predicting Plant Stress in Adaptive	
4	Agricultural Practices	20
7	Pramod Pandey, R. Aiyshwariya Devi, Sree Southry S, K. Balasubadra,	20
	M. Rajmohan, M. Muthulekshmi	
5	Sematic Segmentation of Land Cover Dataset	26
	T. Ragunthar, Himanth Kumar Reddy, Thanneru Dwithej Pavan	20
	AI-Enhanced Public Safety Lighting for Smart Sustainable Cities using Cloud	
6	Computing	33
U	Bharat Tidke, S. Pragadeeswaran, R. Poornima Lakshmi, G Bhuvaneswari,	
	G Manikandan, S. Murugan	
	Social Media-based Travel Planning: Integrating Content-based and	
7	Collaborative Filtering for Personalized Suggestions	40
,	S. Naveen, G. Vinoth Rajkumar, R. Santhana Krishnan, R. Umesh, A. Alice	10
	Blessie, Kruthika Paulraj	
	A Review of Modern Computing Paradigms: Cloud, Fog, and Edge	
8	Neha Sharma, Monika Choudhary, Prakash Srivastava, Chander Prabha,	48
	Himanshu Sharma	
	OneScroll: Modernizing Supply Chain Business Networks with Digital	
9	Technology	55
	Kanniga Parameshwari M, Shobha Rani P, Chokkalingam S, Yogesh Kannan S,	
	Balaji Ganesh K, Darunesh R	
	Hybrid Data Fusion for Elegant Emotion Recognition in Cloud-based Big Data	
10	Systems	60
	Hulin Jin, Xun Sun, Zhiran Jin, Yong-Guk Kim	
	Clustering Optimization of Intelligent Algorithms in Financial Management	
11	Software (FMS)	66
	Chen Wenjun	
	Ensuring Data Security in the Cloud: Emerging Security Challenges and	
12	Solutions	73
12	H Harshavardhan, Sanjana Madi, Shivaleela Kalasad, Sameeksha Shetty,	
	Vaibhavi Malemath	
	Revolutionizing Global Logistics: Integrating Advanced Supply Chain	
13	Management Techniques in the Digital Era	79
	M. Siva Ramkumar, Arun M, Gokul Gopan, Jayant Giri, Khaled Al-Qawasmi	

14	Sentiment Analysis of Financial News: Implications for Corporate Strategy in Risk Management, Mergers and Marketing	86
	Sendhil. R, Joshua Lijo, Abinaya E	
15	AI Doc Question and Answering System Kavitha Esther Rajakumari, Thenkanishankar G, Jaden D Syiem, S. Lavanya, S. Jothi	94
16	Security and Privacy Concerns in Big Data Analytics: An Empirical Study Sugandh Bhatia, Heena Sachdeva	100
17	IYAL: Real-Time Voice to Text Communication for the Deaf T Balamani, Subiksha K, Swathi D, Vennila V, Vishnu Bharathi J	105
18	NLP-based Sentiment Analysis for Evaluating Student Feedback in English Language Education Melito D. Mayormente, Bernadette Ragasa Gumpal	112
19	Assisted Analysis of Big Data Algorithms for Public Security in Crime Governance Yiran Wang	119
20	Web-based Framework for Evaluating Clustering Algorithms Across Multiple Datasets Gyanendar Kumar Tiwari, Kshitij Singh, Dorathi Jayaseeli J D	125
21	Life Expectancy: Insights from Data Analysis B. Uma Maheswari, L. S. Sindhuja, K. Rajarajeshwari, M. Sujithra, Shanmugapriyaa D	131
22	Enhanced Feedback Residual Attention Network with Slanted Scarce Auto- Encoder and IoT based Industrial Waste Water Treatment System for Effective Waste Management K. V. S. Prasad, T. Gavaskar, G. Ravivarman, P. Chinniah, Sophia S, Sathyakala S	135
23	Unmasking Malware with MDCNN: A New Era of Image-based Detection Gomathy M, A. Vidhya	141
24	Face Recognition based Vehicle Theft Detection J. Prasad, Chakravarthi CTR, Daniel K, Deepak R, Dheshnamoorthi M	149
25	Optimized-Memory and Enhanced-Security Approaches to RSA and ElGamal Maheswer Sunil Kumar, Vinithra Balaji, Sandosh Sakkarapani	154
26	Unlocking Clinical Trial Efficiency and Security with Blockchain and Quantum Technology Vanshika Yadav, Pratham Hajarnis, R. I Minu	161
27	Intelligent DDoS Attack Prevention and Mitigation in SDN Environment Rosario Gilmary, Kaviya N, Manvizhi N, Arunkumar M, Arunkumar R	166
28	Adversarial Networks for Enhanced Cyber Identity Theft Detection and Security in E-governance Sector A. Sivanandam, B. Lavaraju, Asha Sundaram	172
29	Energy Storage System using Digital Twins with AI and IoT for Efficient Energy Management and Prolonged Battery Life in Electric Vehicles M. Sri Lakshmi, Vanam Ajay Sarma	177
30	A High-Speed Compression and Secure Authentication Framework for Data Sharing Cloud-Enabled Big Data Environments Abirami I, Selvi S, Lalitha R, Anitha Julian	185
31	A Security Approach for Automated Vehicles on Cloud based Internet of Transportation System R. Tamilkodi, S. Ratalu, N. Nani, V. Sowmya, P. Lohith Kumar, K. Vamsi	192
32	Traceability Analysis of Digital Blockchain based on Complexity Theory Yu Gao, Kim Dongjoo, Tianxia Wang, Qian Hu	198

33	Blockchain Application for Sustainable Supply Chain Management in Indian Agriculture N. Manvizhi, A. Pugazhendi, Rosario Gilmary	204
34	Cryptocurrency Price Analysis and Prediction using LSTM R. TamilKodi, P. Kalyan Chakravarthy, Aisha Maryam, P. Sai Venkat, N. Sri Varshini, K. Akhil Babu	210
35	A Consensus Random-Coupled Growth Network with Secure Blockchain Storage in Healthcare Applications M. Siva Ramkumar, Prabhakaran S, Arun M, Jayant Giri, Khaled Al-Qawasmi	216
36	Enhancing Mobile Network Security through Blockchain Technology: A Zero Trust Approach Utilizing PoW, PoS, and BFT Algorithms V. Sajith Mohammed, M. M. Karthikeyan	223
37	Intrusion Detection using Ensemble Machine Learning Models Sai Dedipya Gonuguntla, Sunkavalli Jaya Prakash, Rayudu Harshith Sai	231
38	Securing Wireless Sensor Networks from Intrusions using Machine Learning- based Detection and Response Saranya M, Srevarshine S, Sujitha V, Sobiya T	236
39	Detection, Challenges for Wormhole Attacks and Blackhole Attacks in WSN to Find the Shortest Path of the Node using the Traditional Algorithm R. Barath Ramesh, Thangaraj. S. John Justin	242
40	Comparative Analysis of Steganography Techniques using ELSB, FFT and DCT Swati Nitin Shilaskar, Viraj Basavaraj Mathapati, Sahil Laxmikant Mutekar, Mrunal Ganesh Nikam, Shripad Bhatlawande	248
41	Confidence-based Trustscoring System for Identification of Secure Agent Platforms Adri Jovin John Joseph, Marikkannu P, Marikkannan Mariappan	257
42	Enhanced Monitoring and Security Measures with Video Analysis V. Esther Jyothi, G. Rakesh, Vipparla Aruna, Shobana Gorintla, Yalanati Ayyappa, U Ganesh Naidu	262
43	Efficient Determent of Sybil Attacks in Blockchain Gurupriya. M, Dharshan J Y, Rohit K C, Sridhar SK	268
44	Integrating Instruction-based Learning with Bidirectional LSTM for Autonomous Vehicle Pedestrian Detection B Shoba, T Raghunathan, S. Sam Peter, Karthick K, Akshya. J, M. Sundarrajan, Mani Deepak Choudhry	273
45	ATMASAWADAHASTA: An Assistive Communication Device for Mobility and Speech-Impaired Patients Medha Wyawahare, Rajesh Chaudhari, Milind Rane, Siddhi Datir, Sumitkumar Chandanshive, Arya Chopda	280
46	Deep Learning-Powered Hair Disease Diagnosis: A ResNet50 Approach for Scalable and Accurate Classification Pratham Kaushik, Sunila Choudhary	287
47	Enhanced Indoor Pathfinding Navigation in Multistoried Buildings using a Hybrid of RRT-Connect and Dijkstra's Algorithm Ramamoorthy S, Abhishek Yadav, Subha Bal Pal	292
48	A Study of Predicting Social Networking Sites (SNS) Media Disorder Survey Data using a Machine Learning Approach Jerin Akther Munia, K. B. M. Tahmiduzzaman, Izazul Haque Saad, Md Mynul islam, Abdul Hady Akash, Md. Thoufiq Zumma	300
49	5G based Millimeter Wave Spectrum Sensing for Cellular networks Supraja C, Kavitha T	307

50	A Comprehensive Survey on Coverage and Routing Optimization of Wireless Sensor Networks	315
	Sagarbanu M, K. Santhosh Kumar	
	Next-Generation Rural Connectivity: Hybrid Beamforming in Low-Frequency	
<i>5</i> 1	Networks	220
51	J. Relin Francis Raj, A. Alice Blessie, R. Santhana Krishnan, G. Vinoth	320
	Rajkumar, N. Eswara Prasath, Imran Javeed Settu	
	Dynamic Slimmable Network with Emperor Penguin Optimizer for Enhanced	
52	Water Quality Index Forecasting	328
-	M. Siva Ramkumar, Prabhakaran S, Arun M, Jayant Giri, Khaled Al-Qawasmi	
	Cloud-based Wireless Network Management System using COPRAS Method	
53	Ravindran D, Raja S, Murugannatham A, Stephen Deepak, K. Shanthi,	334
	V. Sivaraj	
	Text Transmission through Li-Fi in WSN using Smart based Secure Morse	
	Code Algorithm	
54	I. Vasudevan, P. Malathi, S. Siddik, P. R Therasa, M. Mohamed Nasurudeen,	340
	R. M. Dilip Charaan	
	Clustering Technique based on ARSH-FATI for Data Transmission in WSN-	
55	IoT Healthcare System	346
33		340
	P. Vinoth Kumar, R. Jayanthi, S. Sivaranjani, S. Pradeep	
<i>5.</i> (IoT based Night Patrol Robot Leveraging Voice Technology for Superior	255
56	Surveillance	355
	Libina M, Dhevendhiran R, Praveenkumar B	
	Raspberry Pi: A Cost-Effective System for Real-Time Number Plate	
57	Recognition using Rear-View Cameras	361
0,	Ravi Raja Akurathi, Venkata Ratna Prabha K, Sridevi Dasam, Yallamandaiah	201
	S, Usha Rani M, Aravapalli V Pushpavathi	
58	Smart Pavement Repair Bot with IoT and Machine Learning Integration	368
	Sujitha S, Raj Singh, Lalith Narayan, Chaudhary Manas Ray, Nishant Gupta	
59	Automatic Irrigation Controller using IoT	373
37	Ramya B, Gunabalan P, Sabithran D	373
60	Transaction Scam Detection using Flask Frame Work	378
00	Rohini M, T. Archana, Thulasi Raman S, Mukilan R	370
	IoT Enabled Healthcare Framework using Edge AI and Advanced Wearable	
61	Sensors for Real Time Health Monitoring	384
01	A. Sathiya, D. Angel, M. Iswarya, R. Poonkodi, Kandavalli Michael Angelo,	30 4
	Nirmala Priyadharshini P	
	Data Security Enhancements in IoT Communication Networks using	
62	Homomorphic Encryption and Location based Data Access	393
02	A. Muthukumar, Avulapati Giridhar, Ganjikunta Raghavendra, Ummadisetty	373
	Venkata Teja, Gummagattu Sathya Deepak, Guttikonda Ajay Kumar	
	Design and Implementation of Dual-Function System for Inventory	
63	Management and Safety: IoT-based Monitoring and Gas Detection	400
63	Karthika M, Harshitha N, Kumari Vaishnavi Chourasia, Sivaramakrishnan S,	400
	Anusha V, Madhumitha A	
	Multiclassification of Normal, Abnormal and Encrypted Traffic of IoT	
64	R. Tamilkodi, P. Kalyan Chakravarthy, Nunna.Bala Sri, Ankamreddi S V N	408
	Chandrika Devi, Bolla Gangadhar, Jamparapu Manohar	, ,
	IoT-Assisted AI Framework for Preserving Biodiversity: Monitoring Rare	
	Trees in Dynamic Forest Ecosystems	
65	K. Palanivel Rajan, J. Relin Francis Raj, R. Santhana Krishnan,	415
	G. Balamuralikrishnan, G. Vidyasree, J. Nirmal Jothi	
	An IoT-Enabled Intelligent Traffic Management System with CNN-based	
66		423
	Accident Detection and Dynamic Rerouting using K-Means and Dijkstra's	

	Algorithm	
	Sneha S, Sriranjini S, Himasai Thupakula, Balaji M	
	Optimized IoT-Driven Smart Irrigation System for Enhanced Agricultural	
67	Efficiency and Water Resource Management	431
= *	Paari A, Nikesh D, Sai Krishna Karthik P, Balaji M	<i>y</i> -
	Enhancing Hydroponic Farming using IoT Integration and Machine Learning	
68	Techniques	439
	C. Suresh, Selvabhuvaneswari S	
	IoT-Enabled Predictive Maintenance for Renewable Energy Systems	
69	G. Selvan, V. Anantha Krishna, Thiyagesan M, R. Venkatasubramanian,	445
	Vanitha R, Atul Sarojwal, Mathiyalagan Sivaramkumar	
	IoT-Enabled EV Charging System with Real-Time Heat Sensing and Dynamic	
70	Cooling	451
	Jagatheesan K, Vasanth P, Vishal G, Yuvasaravanan S, Sibi V B	
	Design and Implementation of an IoT-Enabled Rover with ESP32 CAM for	
71	Object Detection, Environmental Monitoring, and Web-based Control	457
	Vimal M, Sathyabama K, Abishek A	
72	A Review on IoT-Enabled Fire Detection and Safety Assurance Systems	466
14	Kamal Raj V, Kaliswaroopan K, R. Mohan Das	1 00
	Intelligent Resource Allocation for Edge-IoT: Enhancing QoE with Deep	
73	Reinforcement Learning	473
13	B Sreedhar, C Sasikala, V T Ram Pavan Kumar M, Ruhisulthana Shaik, Syed	7/3
	Muqthadar Ali, Yadaiah Balagoni	
	An IoT based Food Redistribution System for Waste Reduction and	
74	Community Support	480
	Sheikdavood. K, Sivashankar B, Sowgar R, Sri Hari S S, Suganthraj P	
	IoT-Enabled Smart Restroom and Septic Tank Hygiene Management System	40.
75	with Odor Control	487
	K. Sheikdavood, Sujitha. G, Swathi. R, Swetha. K, Varshini. S	
	Cloud Technology-Enabled IoT Milk Quality Assessment and Billing System	
76	for Dairy Cooperatives	496
	Mahendrakumar S, Karthikeyan G, Muthuvinayagam M, Vijayakumari G, Jamuna P, Vanitha K	
	Smart Wellness: AI-Driven IoT and Wearable Sensors for Enhanced Workplace	
	Well-being	
77	Sujanthi S, Abishek Raghavan VB, Poovizhi M, Kayathri TL, Balaji P,	502
	Hariharan M	
	Biometric Authentication for Accident Victims using IoT	
78	T. Balamani, Sowmiya. V, Srinithi. P, Srimathidevi. P, Sowmiya. J	510
	Dual-Resonance Microstrip Antenna for Enhanced V2X Communication in C-	
= ^	Band	
79	Alamanda Kranthi Kumar, Maddala Kesav, Bandi Alekhya, Swathi Yarajarla,	517
	Dunesh Chavitipalli, K. Prem Chand	
0.0	5G Ready: A Compact Two-Port Antenna for Sub-6GHz Applications	500
80	Murugan C, Kavitha T	523
	Beluga Whale Optimization for Effective Energy Management in Microgrids	
0.1	with Electric Vehicle Charging in Smart Distribution Networks	521
81	Narendra Pothula, Nagasrisaihari Sunkara, Vanitha R, Thiyagesan M,	531
	H. Mickle Aancy, Balasubbareddy Mallala	
	Identifying Depression in Health and Suggest Stress-Relieving Measures using	
82	FRT	537
	M. Hema Kumar, G. Nagalalli, Abjhini M R, Ganiga J	
	IKASF: A Hybrid Approach to Denoising the Effect of Electromagnetic	
83	TRAIST: A Tryond Approach to Denoising the Effect of Electromagnetic	542

	Adaptive Spatial Filter	
84	Mahalakshmi. V, Sasikala. G From Efficiency to Innovation: LLM 5.0 and the Future of Industry Pradosh Kumar Gantayat, Tejinder Kaur, Madhusmita Majhi, Uttam Kumar Jena, Swatismita Das, Soni	551
85	Optimizing Neural Prosthetic Control Systems using Genetic Algorithm for Adaptive Signal Processing S. Purnima, A. Sathiya, P. Poonkuzhali, Minu Balakrishnan, Saravanan M, M. Saravanan	559
86	Sound-Enabled Voltmeter for Accessible Voltage Monitoring and Analysis Raji Pandurangan, Vishnuu Priya M K, Swetha J	566
87	Design and Implementation of Bridgeless CUK Converter with an Intelligent Controller to Efficiently Power Multiple Loads Mohana Sundaram N, Dharani S, Karthick M	574
88	Semi-Autonomous Teleoperated Robot for Enhanced Human-Machine Interaction Giridhar Babu Menti, V Ravindranadh Chowdary, Naga Lakshmi Pujitha Nagasarapu, Guru Kavya Godugunuri, Pramod Abburi, Jaswanth Yerramsetty	581
89	Positioning Algorithm of Cold Source Underwater Pollution Inspection Robot based on Multi-Sensor Fusion Jiale Jian, Jia Yang, Yu Zhang, Yinfan Jian	587
90	A Certain Investigation of Gesture based Control System in Infotainment of Hybrid Car using Internet of Things Vinoth Kumar K, Thangamani R, V Rengarajan, Achinth H S, Agratha N, Joel Prithviraj, Jaison	594
91	Impact Analysis and Modified Topology of VSI Under Switch Fault Conditions Devasenathipathi Kanakarajan Prema, Boni Satya Varun Sai, Anagha Bhattacharya, Debashis Chatterjee	599
92	Nine Level Double Boost Inverter with Modified PWM Control C. Ramakrishnan, Gobi Mohan Sivasubramanian, P. Veena, P. Karuppusamy, Arun V, Karthikeyan N	604
93	Double Boost Switched Capacitor Multi-Level Inverter with Modified VFPOD-PWM Control V. Arun, S Dhanapal, V. Ravi, G. Sekar, T. Jayakumar, Vijayakumar M	610
94	Double Boost Switched Capacitor Nine Level Inverter with Level Shifted PWM Techniques Vijayakumar Madhaiyan, M. Mohammadha Hussaini, R. Jeyabharath, K. Thivyabrabha, Jeniton S, Arun V	617
95	Advancing Switched Reluctance Motor Design for Electric Vehicles through Performance Optimization P. M. Balasubramaniam, J. Sivakumar, Sundaramoorthy Prabhu, Arun V, Vijayakumar Muniyan, Vijayakumar Madhaiyan	624
96	Two-Fold Boost Switched Capacitor Inverter with Minimum Switches Vijayakumar M, Tamilselvan K, Arun V, Sivaprakasam T, G Kanmani, N. Rameshkumar	631
97	Single and Multi-Spectral Methods for Pedestrian Detection: A Comprehensive Review Jagrati Gupta, Shobha Sharma	637
98	Design and Optimization of Electromagnetic Brakes Praneeth Borra, Prasanti Korapati, Vamsi Sravanam, Shanmuk Bala, Dikishitha Sree Tikkisetty	643
99	Adaptive Dual-Channel Pulse-Coupled Neural Network with S-Transforms for Speech Source Localization using Binaural and Monaural Microphone Arrays in Hearing Aids	651

	G. Ramani, D. Kavitha, G. Charlyn Pushpa Latha, M. Siva Ramkumar, Jayant	
	Giri, Khaled Al-Qawasmi	
100	An Integrated Learning Model for Land Use Classification and Prediction	(50
100	Supreeth A, Jeeva Ganesh A, Subash N, R. Santhosh	659
	Modelling a Multi-Perceptron Q Network Layer for Analyzing Patient	
101	Condition in Healthcare Sector	665
	Karthi M, Manirajan S P, Prince A, R. Santhosh	
	Machine Learning for Predicting Energy Consumption in Smart Buildings	
100	using Artificial Adaptive Systems	670
102	Raviteja Kocherla, C. Jency, T. Mani mohan, Balasubbareddy Mallala,	672
	Manikandaprabu P, Tatiraju. V. Rajani Kanth	
	KNN-Powered Online Voting System to Improve Accuracy and Transparency	
102	of Election Process	670
103	Ullamparthy Jaswanth, D. Surendiran Muthukumar, R. Abitha, Pamu Ganesh,	678
	Nandyala Naveen, G. Kavitha	
104	Advanced Short Circuit Preventive Mechanism for Electric vehicles	604
104	Sheikdavood K, Yasar S, Shanjay RK, Sivaramakrishnan M, Subash P	684
105	Performance Analysis of OFDMA System with Optimized Resource Allocation	602
105	M Selvi, Sherya L K, Srinivasan E V, Devasrimathi E	693
	Optimization and Transient Response Enhancement of PI-Controlled Buck	
106	Converters using Load Current Feedforward and Ramp Compensation	701
106	Technique	701
	Shreya Venkatesh, Sivakumar Kumaraguruparan, Konguvel Elango	
	Electric Vehicle Fault Battery Analyzer using Internet of Things	
107	Kamatchi Kannan V, Muniraj C, R. Sankarganesh, Parimalsundar E, B. V. Sai	706
	Thrinath, Ponmurugan P	
	CNTFET based Pulse Implied Binary Edge Activated Flip-Flop using	
108	Transmission Gate Logic for Low Power VLSI Applications	711
108	P. Nagarajan, Lalith Kumar S, Hariharan M, Nitheesh S, Rahul Krishnan,	/11
	R. Bhairavi	
109	Coal Mining Safety and Monitoring System using Labview	718
109	S Rathinamala, John Britto E, Srinithi S, Logeshwaran N	/10
110	Classification and Analysis of EEG Montage	724
110	Sivaranjani S, Sneha R, Sowmiga B, Sruthikaa KV, Yuvashree R	724
111	Water Leakage Control Device in Metro Water Pipeline	732
111	Nivishna S, Kalaivani C, Hemamalini S, Arul Arumugam R	132
	Smart Wireless EV Charging Station using Raspberry Pi and Web-based	
112	Monitoring	738
	P. Kabilamani, Karthikeyan R, Praanesh J, Karthik Raja R	
	Smart Systems for Effective Garbage Handling in Urban Waste Management	
113	S D Vijayakumar, G Vijayakumari, R Praveenkumar, G. Brinda, T Velmurugan,	748
	G. Sekar	
	Predictive Analytics for the Role of E-Resources and E-Learning in Education	
114	Sector	754
117	K. Subramanian, G. Ulaganathan, D. Balamurugan, A. K. Kavitha,	754
	A. K. Pratheepa, M. Ravi Kumar	
	Minimization of Power using the Power Gating Technique to Design a Twisted	
115	Ring Counter	760
	Rohan T, Yugendhar P B, Arasa Kumar R	
116	Enhanced Power Inspection System Utilizing Metaverse Technology	764
110	Ying Yao, Gang Liu	/ () +
	A Novel Saliency-Noise Multi-Feature Fusion for Music Signal Recognition	
117	Algorithm	770
	TingTing Zhang	

118	Grading of Retinal Images using CNN and its Variants K. S. Kalaivani, R. Sanjay, S. M. Thissyakkanna	777
119	Deep Convolutional Multi-Relational Graph Attention Network for Autonomous Drone Navigation in Urban Wind Zones C. Pabitha, K. Paul Joshua, S Pradeep, Sophia S, Rajesh Sharma R, D.Karthik	784
120	Prabhu Adaptive Vehicle Detection using Integrated RGB and Thermal Imaging for Enhanced Performance in Challenging Conditions Jegadeesan S, Jai Nithish N, Pradeep King R	791
121	EfficientNet-based Deep Learning Model for Accurate Diabetic Foot Ulcer Classification Eshika Jain, Abhinav Rathour	795
122	Real Time Gameplay using Pose Detection J Jeyabharathi, Gokul Prasath S K, Gorijala VenuMadhav, Gudivada Dinesh, Ch. Veera Venkata Saikumarreddy	801
123	Implementing NMS-Free Training using YOLOv10 on Mammographic Images to Detect Breast Cancer Amit Das, Sarvesh Fating, Yash Kurve, Nekita Morris, Rahul Agrawal, Chetan Dhule	806
124	Adaptive Navigation and Surveillance System: A Comprehensive Real-Time Solution for Mobility Assistance and Environmental Monitoring Dhaarini G, Sanjai R, Sandosh S	818
125	Efficient Palm Vein Recognition Optimized by Neural Architecture Search and Hybrid Compression Zhenyang Ding, Ninghao Pu, Qihui Miao, Zhiqiang Chen, Yifan Xu, Hao Liu	826
126	Dehazing Images using Vision Transformer Algorithm Anyapu Karthik, B. Siva Chanikya Reddy, Ranjani M, Sandhia G K	833
127	Enhancing Accuracy in Image Recognization for Deepfake Images using Convolutional Networks Comparing with K-Nearest Neighbors (KNN) Algorithm Chanakya A. S, Surendran. R, Madhusundar. N	840
128	Sound Recognition System for People with Impaired Hearing Achyuthan Sivasankar, Mohith Niranjen R K, Saanvi Samir Shah	846
129	Retirement Portfolio Allocation Optimization using Machine Learning with XAI Devyani Patharkar, Prisha Negi, Rudveek Bhende, Chetan Dhule, Rahul Agrawal, Nekita Chavan Morris	852
130	Enhanced Image Captioning using CNN and BLIP Models Vambara Tejesh, Supriya M	859
131	Monitoring Marine Oil Spills with Smart Technologies Vasanthan P, Sumaiya R, Gopika V, Mahalakshmi P	864
132	AI Meets Astronomy: EfficientB0-Powered Classification of AI-Synthesized Celestial Objects using SpaceNet Jashanpreet Kaur, Gurpreet Singh	870
133	A Systematic Review: Development of AI based Computer Vision Scrap Sorting System for Metal Scrap Pragati B. Gedam, Atiya Khan, Neha Purohit, V. K. Jha	876
134	Robust Optical Character Recognition using DenseNet121: Leveraging Google Fonts for Dataset Diversity Gurpreet Singh, Kalpna Guleria, Shagun Sharma	882
135	Artificial Intelligence-Driven Protein Folding System Employing Alpha Fold Sowmiya R, M. Pravin Kumar, T. M. Sathish Kumar, Rasika P, M. Poornima Devi, S. Priya Dharshini	887

136	Deep Learning-based Malaria Detection: A Robust CNN Framework for Accurate and Automated Diagnosis Pratham Kaushik, Pooja Sharma	894
137	AI-Powered Traffic Management: Improving Congestion Detection and Signal Regulation Malathi D, Feisal Alaswad, Batoul Aljaddouh, Leela Ranganayagi, Sangeetha R	899
138	Automated Pneumonia Detection from Chest X-Rays using Enhanced Deep Learning Techniques SK. Sharmila, N. N. V. S S. Navya, R. Sri Bhavana, K. Naveena, A. Bindu Priya	905
139	Yoga Posture Analysis and Feedback System using Mediapipe D. Snigdha, S. Tejasree, N. Rithvik, Hariharan Shanmugasundaram, Siddharth Motikar, S. Srinivas Reddy	913
140	CRITIQUESHIELD: Fake Review Detection Abisheckraj M, S. Sripriya, Chittesh S P, Kamalesh M, Nadish D	919
141	AI-Driven Approaches to Enhancing Mental Wellbeing and Stress Relief Revathi K, S. Priyanka, Priyadharshini S, Niranjan NN, Visalachi N, P. Sumathi	925
142	Early Detection and Classification of Lung Cancer using an EfficientNetB3 Deep Learning Model on Histopathological Images Aditya Kumar, Leema Nelson	932
143	Automated Malaria Detection using EfficientNetB3 on Microscopic Cell Images Aditya Kumar, Leema Nelson	938
144	Advanced Melanoma Detection with InceptionResNetV2 using Skin Lesion Images Aditya Kumar, Leema Nelson	944
145	Enhancing Oral Squamous Cell Carcinoma Detection using EfficientNetB3 from Histopathologic Images Aditya Kumar, Leema Nelson	950
146	Enhancing Intrusion Detection Systems with Deep Learning and Machine Learning Algorithms for Real-Time Threat Classification Farooque Kadri, Priyanka Singla	957
147	Early Detection of Diabetic Foot Ulcer with Multi-Modal Images using Federated Learning A. Robert Singh, Sri Durgesh R, Addwin Vibro D	964
148	Leveraging Instruction-based Learning for Effective UAV Traffic Management in Dynamic Environment R. S. Ramya, Keren Lois Daniel, S. Rajkumar, Sruthi S Madhavan, Akshya. J, Mani Deepak Choudhry	970
149	Deep Learning-based Framework for Enhancing Underwater Visual Perception Ronit Misra, Sangini Trivedi, R. I Minu	976
150	A Hybrid Deep Learning Model for Lung Cancer Classification using DenseNet169 and Convolutional Block Attention Module T. Illakiya, S Akhilesh, Dulam Satya Karthik	983
151	AI-Driven Alumni Networking Platform for Enhanced Student-Alumni Engagement and Career Readiness Pankaj Kunekar, Om Thigale, Mansi Waghmode, Shreyash Telsang, Pranoti Shinde, Manthan Thakare	989
152	Artificial Intelligence for Automated Support in Educational Systems Karthik R, Maha Vishnu S, Saran R, Shashidharan S	996

153	A Hybrid Convolutional and Vision Transformer Model with Attention Mechanism for Enhanced Bone Fracture Detection in X-ray Imaging Kailasam Selvaraj, Sriharikota. Teja, M. Pavan Sriram, T. Venkata Sumanth,	1002
	G. Dushyanth	
154	Enhancing Home Security with Deep Learning-based Smart Monitoring using CNN and ResNet-50 for Danger Identification Udhaya T, Joseph Donal D, Dhanush R, Jithender S	1008
155	Optimizing Market Interventions a Data-Driven Approach to Price Stabilization Venkatesh P, Rupak S, Keyas Ebenezar Robert, Shakeel Ahamed E	1014
156	Smart Pothole Detection and Real-Time Monitoring using GPS Technology Daita V N S Bharadwaj, Prasanti Korapati, Saripalli Varshitha, Vemuri Lokesh Venkata Babu, Komaripalipi Lahari Sai	1020
157	AgroConnect: A Flutter-based E-Commerce Platform for Enhancing Agricultural Supply Chain Efficiency and Transparency R. Thendral, Selva Ganapathy J	1027
158	Deepfake Video Detection: A Comprehensive Survey of Advanced Machine Learning and Deep Learning Techniques to Combat Synthetic Video Manipulation Tenali Anusha, A. Srinagesh	1033
159	An Early Lung Disease Detection and Classification using Bidirectional Deep Learning Over Masked Autoencoder Ramadevi. M, MO. Ramkumar, D. Jayakumar, R. Rajmohan, A. Arunkumar	1042
160	Comparative Evaluation of Machine Learning Techniques for Early Alzheimer's Detection: Challenges and Insights R. Sendhil, Niyanta Patibandha, Priyansh Shah, Anusha Mandal	1050
161	A Modified Incremental SVM for Data Stream Classification Vidhya M, Aleena V S	1059
162	Classification of Tuberculosis Bacilli from Microscopic Sputum Smear Images using Swin Transformer Praneeth Vallabhaneni, Ashutosh Satapathy, Manisha Indugula	1066
163	Real-Time Driver Alertness Assessment using Neural Networks Yoga M, Ramyasri M M, Lokitha R, Jane Karunya J, Jeeva N, Kokila M M	1075
164	Mobile Information Surveillance through SMS Sai Sharvesh R, Suresh Kumar K, Mariappan Esakkiappan, A Tamizhselvi	1083
165	Integrating Machine Learning and Deep Learning Approaches for Accurate Cardiovascular Disease Prediction from Electronic Health Records Natchathirah V. S, Meera. T, S. Padma Devi	1090
166	Crop Care AI: The Smart Farming Revolution Ramkumar M V, Mirudula Shri M, Gowthaman S P, Subhashini J	1097
167	A Novel AI-Assisted e-Consult Platform Integrating Deep Learning for Enhanced Healthcare Access and Diagnostic Precision G Vijayasekaran, Rajasree R S, Parvez Alam, Abhishek Suryavanshi, Vinayak Ranjanagi, Umar Farooq Mulla	1103
168	Comprehensive Analysis of Clustering Methods: Focusing on Fuzzy Clustering Vaishali P. Salve, Magan P. Ghatule	1109
169	Bringing Vintage Video to Life using Deep Learning Algorithms Kiruthika V R, Sangavi N, Satheeshkumar S	1118
170	Machine Learning based Leaf Disease Diagnosis System V. Baby Shalini, Bittu Kumar, P Varun Varma, P Vinay Kumar Reddy, T Tarun Kumar	1124
171	Sustainable AI Systems for Monitoring and Predicting Wildfires in Vulnerable Forest Regions T. Selvin Retna Raj, J. Relin Francis Raj, R. Santhana Krishnan,	1129

	G. Balamuralikrishnan, D. Vikkiramapandian, J. Nirmal Jothi	
	Phoenix: A Conversational Agent for Emotional Well-being and Psychological	
172	Support	1137
	J. Benita, S. Jaswanth, N. Bhuvaneshwar, R. Yuvaraj, Y. Lakshmi Narayana	
	Embedded Large Language Models for Enhanced Human-Machine Interface in	
173	Autonomous Vehicles	1143
	Sandhya Devi R S, S. Deva Varshni	
	Performance Review of Deep Learning Models on Different GPU Systems	
174	Karthikeya Ruthvik Pakki, Thurai Pandian M, Eswar Sai Charan Repala, Dindi	1151
	Bharadwaj Eluri	
	Design and Simulation of Surface Acoustic Wave Sensor in COMSOL	
175	Multiphysics for Detection of Acetone	1159
175	Praneeth Borra, Prasanti Korapati, Vamsi Sravanam, Shanmuk Bala, Dikishitha	1137
	Sree Tikkisetty	
	Integrated Road Safety System for Real-Time Waterlogging Detection and	
176	Traffic Management using Google Maps API	1165
	Vignesh R, Pabitha C, Shamritha V, Prathija A	
	Prevention of Alzheimer Disease by Predicting Oral Issues and its Impact on	
177	Individuals at Early Stage and Indicating using Grey Wolf Optimization	1171
	Technique	
	K. S. Jayareka, B. Sathiyabhama, P. Sobiyaa, S. K. Fathima	
178	Predictive Health Analysis using ML for Proactive Risk Detection	1177
	Karthik R, Dhanush B, Jivitesh Kanna S, Hari Rama Chandran A	
170	Enhancing Medical Libraries: AI-Driven Tools and Techniques for Digital	1103
179	Transformation and Sustainable Innovation	1182
	T. Jothi, J. Dominic, J. Jaganbabu	
	Real-Time Speech Emotion Recognition using Hybrid Transformer Networks	
180	for Mental Health Monitoring D. Janeni Durge, C. H. Husseign Books, Nelson Konnedy Boby Christopher	1187
	P. Janani Durga, C. H. Hussaian Basha, Nelson Kennedy Babu Christopher, S. Senthilkumar, N. Rathina Kumar, M. Kavitha	
	Detecting Subtle Deep Fake Audio and Image using Transfer Learning	
181	Elavarasi K, Iswarya D, Deivanai R	1195
	Machine Learning-Driven Stroke Prediction: Improving Patient Outcomes	
182	through Early Diagnosis	1199
102	Navya Thakur, Nishi Gupta	11//
	Video based Car Parking Management and Monitoring using Computer Vision	
	and Machine Learning	
183	Bulla Sujitha, Anitha Ponraj, Chakkarapani V, Sriram Parabrahmachari,	1204
	T. V. Hyma Lakshmi, T. Annamani	
	Antonym Learning from Paraphrase Database: A Novel Approach using PPDB	
184	and WordNet	1209
	Piyush Rai	
105	Early Detection of Parkinson's Disease through Vocal Features	1014
185	Anandha Ponni P, Avaniya Seireena, Shiny R M	1214
	From Buzz to Blockbuster: Predicting Movie Revenue using a Hybrid	
186	Approach Combining Machine Learning and Sentiment Analysis	1220
100	Senapathi Vishnu Vardhan, Killemsetty Viswa Sai Balaji, C. Ashok Kumar,	1220
	C. Jothi Kumar	
187	Improving Brain Tumor Diagnosis with Deep Learning Algorithms	1228
10/	V Varun, Rahul Palanivel, Sumathi D, Karthika Natarjan	1220
	Real-Time Traffic Sign Recognition for Smart Transportation in Indian Urban	
188	Environments using YOLOv9	1235
	N. Nithish Kumaran, J. S. Joewin William, K. Gnaneswar, S. Padma Devi	

189		
	Prediction of Diabetes by Machine Learning Algorithm L. Rajeshwar Reddy, V. Akhila, L. Laxmi Nivas, P. Tharun	1241
100	Automated Seating Arrangement for Conducting Examination	1015
190	Pandiaraj Kadarkarai, Munibhagyala Nikhil, Panditi Sukumar, Edagotti Sathish	1245
	Kumar, Ginkala Muneswar	
	Data-Driven Stop-Loss Hedging Strategies for NSE using Machine Learning	
191	Techniques	1251
	Nagaraj P, M Chaithanya Prabhu, Visist T, Janani D, Hitesh S, Saranath P	
	A Transformer-based Approach for Fake News and Spam Detection in Social	
192	Media using RoBERTa	1256
	Ankit Abhijit Pal, Sudin Mondal, C. AshokKumar, C. Jothi Kumar	
	Optimizing Symptom and Disease Representation with Structural and Textual	
193	Information Integration	1264
-, -	M. Ramya, Meenakshi B K, Kanagalakshmi M	
	MSPAt-CNN: Multi Spectral Recurrent Primal Dual Attention based Deep	
194	Learning Model for Intrusion Detection System with Mitigation	1270
174	Rupal K Panchal, Rupal Snehkunj, Vinaykumar V Panchal	1270
	Self-Trained Robust Adaptive Network Communication (STRANC)	
195		1278
193	Optimization Model based on Deep Learning Algorithm	12/6
	Weiwei Lang	
100	Performance Optimization of Intelligent Perception System in Maritime Traffic	1005
196	Sensing and Management	1285
	Daoke Li	
	Efficient Low-Light Image Enhancement Algorithm based on Convolutional	
197	Neural Network and Local Pattern	1291
	Wei Luo	
198	An Efficient Image-based Virtual Scene Generation and Stitching Algorithm	1298
170	Luo Wei	1290
	A Novel Artistic Image Compression Algorithm based on Multi-Scale Adaptive	
199	Discrete Wavelet Transform	1304
	Yijun Li	
200	Multi-Modal Analysis of Presentation Media Data	1211
200	Xiaoyuan Li	1311
	Computer-Aided Pathology Image Classification and Segmentation Joint	
201	Analysis Model	1015
	Shuhan Yang, Lin Chen	1317
	Shuhan Tang, Lin Chen	1317
		1317
202	Application of Various Novel Computer Image Processing (CIP) Algorithms in	
202	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images	1317
202	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du	
	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart	1323
202	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids	
	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang	1323
203	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning	1323
	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm	1323
203	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin	1323
203	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin Construction Waste Image Classification Algorithm based on Fusion of	1323 1329 1336
203	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin Construction Waste Image Classification Algorithm based on Fusion of Multiple Features	1323
203	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin Construction Waste Image Classification Algorithm based on Fusion of Multiple Features Yi You, Boon Cheong Chew	1323 1329 1336
203 204 205	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin Construction Waste Image Classification Algorithm based on Fusion of Multiple Features Yi You, Boon Cheong Chew Multi-View Reconstruction of Landscape Images Considering Image	1323 1329 1336 1343
203	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin Construction Waste Image Classification Algorithm based on Fusion of Multiple Features Yi You, Boon Cheong Chew Multi-View Reconstruction of Landscape Images Considering Image Registration and Feature Mapping	1323 1329 1336
203 204 205	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin Construction Waste Image Classification Algorithm based on Fusion of Multiple Features Yi You, Boon Cheong Chew Multi-View Reconstruction of Landscape Images Considering Image Registration and Feature Mapping Lisha Zhou	1323 1329 1336 1343
203 204 205 206	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin Construction Waste Image Classification Algorithm based on Fusion of Multiple Features Yi You, Boon Cheong Chew Multi-View Reconstruction of Landscape Images Considering Image Registration and Feature Mapping Lisha Zhou Unveiling the Potential of AI-Driven Social Media: Applications of Intelligent	1323 1329 1336 1343
203 204 205	Application of Various Novel Computer Image Processing (CIP) Algorithms in Digital Media Art Images Xian Du Integrated Demand Response and Optimization Control Strategy in Smart Micro-Grids Keming Shi, Zhi Tan, Li Zhang Concrete Surface Defect Image Analysis based on Novel Deep Learning Algorithm Naibao Dong, Xinkai Li, Jingfei Ren, Xin Xin Construction Waste Image Classification Algorithm based on Fusion of Multiple Features Yi You, Boon Cheong Chew Multi-View Reconstruction of Landscape Images Considering Image Registration and Feature Mapping Lisha Zhou	1323 1329 1336 1343

208	Optimizing Stroke Diagnosis: Application of Machine Learning Algorithms for Early Detection	1361
	Chetan Sharma, Anooja A, Jaydeep Kishore, Vivek Bhardwaj	
	Transfer Learning based Detection Model for COVID-19 using Computed	
209	Tomography Scanned Images	1367
	A Meghana, M Nagaraju, M Nikhitha, P Nikhitha	
	ResNet50-based Deep Learning Model for Lung Disease Detection	
210	Janhavi R. Hajbe, Sneha K. Patle, Shreya V. Talvekar, Tanvi W. Khonde,	1373
	Prajyot R. Yesankar	
	A Hybrid Machine Learning Approach for Top-N Bike Recommendations	
211	V. Vinoth Kumar, T. Selvin Retna Raj, J. Relin Francis Raj, M. Sornavalli,	1380
	R. Santhana Krishnan, N. Soundiraraj	
	Liver Disease Prediction using Novel Ensemble Techniques with Catboost and	
212	LightGBM	1388
	Udhaya T, Moulitharan M, Arockia Jegan S, Akash M	
	An Automated VGG-DCRNN Model for the Classification of Diseases on	
213	Night Jasmine Leaf Images	1394
213	Grace Thabitha. J, Ponnusamy. R	15) !
	Deep Learning-based Lung Tumor Analysis for Enhanced Oncology	
	Diagnostics	
214	G. Rohini Phaneendra Kumari, G. Akhila Reddy, Sk. Nazarana, K. Vanaja,	1401
	V. Snehitha, Naresh Alapati	
	A Novel Hybrid CNN-LSTM Framework with Ant Colony Optimization for	
215	Robust Fake News Detection	1409
213	Santosh Kumar B, M. Viji, Gowtham. T, G. Sekar, S. Sharmila, Saravanan M	1407
	Land Cover Segmentation for Agricultural Monitoring using Synthetic	
	Aperture Radar (SAR) Imagery with Convolutional Neural Networks and	
216	Attention-based Transformer Models	1416
210	Prakash E. P, K G. Sathiya, S. Manoranjitham, G. Sekar, S Munaf,	
	R. K. Santhia	
	An Innovative Deep Learning-based Predictive Maintenance Model for Smart	
217	Automotive System	1426
21/		1420
	V Indumathi, C. AshokKumar Comparative Study of Deep Learning Approaches for Retinal Blood Vessel	
210		1.42.4
218	Segmentation	1434
	Sivakannan Subramani, Anwesha Deb, Rachel Roshani J	
	CNN-based Pneumonia Detection and Severity Analysis in Chest X-ray Images	
219	for Enhanced Diagnostic Support	1443
	D. Surendiran Muthukumar, Bommineni Sreekar Chowdary, D. Senthil Kumar,	
	P. Jagadeesan, B. Mythili, B. Swapna	
220	A Comprehensive Health Management System for Personalized Patient Care	1.450
220	and Medication Tracking	1450
	Chandu Siddartha Reddy Gooty, Akanksha Kanchireddy	
221	Medicinal Plant Identification and Information Provision using AI	1458
	Anslam Sibi S, Sundaresan C, Surya S, Sujith J P	
	Real Time Sign Language Interpretation Leveraging Computer Vision	
222	Technologies	1464
	Keerthana S, Priya Lakshme N, Niresh Kumar S	
	Historical Data-Driven Placement Analysis using Explainable Artificial	1471
223	Intelligence	
	Ragu G, Kiran M, Koushik H	
224	Impact of Artificial Intelligence on Healthcare: Opportunities and Challenges	1478
	Prajyot R Yesankar, Shiv Nath Chaudhri, Pradnyawant Gote	14/0

225	Emerging Approaches to Sugarcane Leaf Disease Classification: A Systematic Review Zeel R Khambholja, Premal Patel	1484
226	Chatbot for Start-Ups and Entrepreneurs with Machine Learning and Natural Language Processing Techniques P. Jegan, N. Naren Sidharth, V. Akilandeswari, R. Perumalraja	1490
227	A Modified Deep Learning Framework for Leaf Disease Detection in Millet Crops R. Raj Mohan, V. John Sukumar	1495
228	HybMLP: Revolutionizing Cardiovascular Disease Prediction with Hybrid Multi-Layer Perceptron and Gradient Boosting Latha T M, Karthikeyan B	1501
229	Advancing IC Fault Localization and Diagnosis through Machine Learning P. Rajasekar, Alok Kumar, Prema Latha V, Jayapal N, Boddu Soundarya Santhoshi, K. Karthik, Mathiyalagan Sivaramkumar	1508
230	Enhancing Energy Efficiency in Wireless Sensor Networks using Deep Learning Sandeep Raskar, Gulshan Dhasmana, M. Lakshminarayana, Harshal Patil, Bhagya Shree S, Natrayan L	1515
231	Privacy-Preserving Machine Learning Models Madhuri Devi Chodey, E. Gouthami, KakanaboyinaUpendra Rao, G. V. Ramana, N. Shirisha, Nellore Manoj Kumar	1521
232	Human Scream Detection and Analysis for Crime Reduction Srimathi A, Jothi S, Sindhiya M P	1528
233	A Review on Soybean Leaf Pathogens Classification Methodologies Pranav Deepak Kavathekar, Kush Bhushanwar, Sanjay Agal	1535
234	A DenseNet-Enhanced GAN Model for Classification of Medical Images into Original and Fake R. MeenaPrakash, B. Kamali, M. Vimala, K. Madhuvandhana, P. Krishnaleela	1540
235	Advanced Cybercriminal Detection through Smartphone Communication Model using SMART K Swetha, K Sivaraman	1546
236	AI-Driven Multi-Omics Integration for Enhanced Drug Discovery Pipelines Madhavan Periyasamy	1553
237	Pain Recognition via Multi-Context Integration of Physiological Signals Mattikurava Sowmya, Nara Dinakar, A. J. Heiner	1559
238	Enhancing Emotion Recognition using Advanced Speech Processing Techniques Rajalaxmi Hegde, Sandeep Kumar Hegde, Ranjani, Seema S	1565
239	Hybrid Deep Learning for Proactive Driver Risk Prediction and Safety Enhancement Sakthivel K, Kowsalya A, Durgadevi M, Dhaneswar R C	1572
240	Early Detection and Classification of Eye Diseases using Deep Learning Techniques L. Rahunathan, D. Sivabalaselvamani, Arun Kumar S, Boopendhiran M, Nanthitha S	1578
241	Prediction of Cryptocurrency Price using Deep Learning L. Rahunathan, Suhana Nafais A, Rivitha S, Saran K, Swetha Kumari	1586
242	Dynamic Learning Rate Optimization for Waste Classification using Convolutional Neural Networks and Custom Callbacks Jegadeesan S, Sridhar R C, Sudharsun S, Sujit M, Subash K	1595
243	Deep Learning based Hybrid Transformer Model for Stock Price Prediction Karthika K, Balasubramanie P, Harishmitha S, Shanmugapriya P, Ramya T E	1603

244	Unveiling House Price with Machine Learning Algorithm Rambabu Kusuma, Kalagadda Kiran Kumar, Siva Ramakrishna Pillutla, Aruru Saikumar	1609
245	A Comparative Analysis between Support Vector Machine and Linear Regression for Improving Accuracy of Medal Tally in Asian Games Gurusigaamani Ayyanar Muthulingam, Kardeepa Ponnuchamy, Gulla Pavan Kumar, Jalla Mahesh, G N H B Karthik, J Venkata Krishna	1614
246	Aquaculture Classification using Deep Learning Model M. Vimala, S. Ramasamy, M. Nandhini, G. Asvini, S. Durgadevi, K. Jeyapriya	1619
247	Safeguarding User Location Identity in the Digital Marketing Age Padmaja M Deshpande, Raghvendra Sharma, Swati Sinha	1626
248	Identification of Human Image Mapped with Clothing for Dress Selection D Prem Raja, Kailasam Selvaraj, A. Baranidharan, Rajkumar Pandiarajan, V. Sivakumar, V. Baby Shalini	1634
249	Sentinel Shield DNS Filtering Reinvented with Threat Intelligence and AI/ML Vignesh S, Praveen kumar G, Santhosan R, Sivachandran S	1640
250	Innovative Lung Cancer Detection: Integrating Attention U-Net Segmentation with Ensemble Deep Learning Classification M. Vimala, B. Kalisatheesh, S. Ramasamy, P. Ranjith Kumar, M. Nandhini	1645
251	A Deep Learning based Posture Correction System Shripad Bhatlawande, Swati Shilaskar, Mantesh Mhetre, Sandesh Moralwar, Aayush Mor, Samiran Muley	1654
252	Emotion-Driven Music Recommender System with Deep Learning and Streamlit Integration Ashok Chikaraddi, Sanjana G Janakki, Suvarna G Kanakaraddi, Praveenkumar S M	1661
253	Optimizing Crop Recommendation System using Threshold and Decision- Level Fusion Umamaheswari. R, Kannan. E	1669
254	Classification of Knee Osteoarthritis using R-CNN Algorithm T. Guhan, RM. Abiraj, M. Muneshwaran, V. Sowndharya Lakshmi, M. Suriyanarayanan	1676
255	Enhancing Prognostication in Colorectal Cancer with Integrated Machine Learning for Improved Survival Prediction Velmurugan R, Suresh K, Thilagaraj T, Meenakshi Sharma, D. Saranya	1681
256	A Novel Approach on Advanced Fruit Disease Identification using RCNN Kumar R, P. Boopathi, M. Sundar Rajan	1687
257	Intelligent Security Monitoring: Machine Learning-based Intrusion Detection M. Rekha, P. Shobha Rani, Aashida S, Elakkiya S, Ezhil Arasi S, Amirtha A	1692
258	EquiMood: Elevating Emotional Wellness for College Students through the Power of Machine Learning Achal Baniya, Angelina George, Alphonsa Jose, Supriya M	1699
259	Analysis of Duplicating the Human Mind Suspicions in AI in Various Divisions S. P. Santhoshkumar, R. Karthika, N. Vijayakumar, S. Gajalakshmi, K. Jayanthi, S. Hariharasudhan	1707
260	Implementation of a Word Prediction Model using LSTM Neural Network with Optimization Strategies Jagadevi P, Yeresime Suresh	1715
261	Intelligent Parking Assistance using Deep Reinforcement Learning and YOLOv8 in Simulated Environments S. Selvaraj, R. Thangarajan, Regiin Arul Rithik J, Pranesan S, Karthika M	1721
262	Footwear Classification using Pretrained CNN Models with Deep Neural Network	1729

	Andrew Blaze Pitta, Narendra Reddy Pingala, Naga Venkata Mani Charan	
	Jaladhi, Sowmya Bogolu, B Suvarna	
	Deep Classification: Ensemble Learning Models for Multi-Plant Disease	
263	Detection	1737
	Kadambari Raghuram, Malaya Dutta Borah	
	Behavioral-based Meal Optimizer and Personalized Diet Solutions for	
264	Teenagers	1743
	Saumya Dwivedi, Maazin Hayath Babu, R. Deepa, Niranjana G, Rajmohan R	
	Deep Learning-Driven Land Cover Classification: A Comparative Study of	
265	CNN Architectures using Transfer Learning	1750
	Shreedhar Devdatt Purohit, Maharshi Bhargav Joshi, Dipak Ramoliya	
	A Deep Learning-based Approach for Classifying Heart Disease using CNN on	
266	Medical Imaging	1758
_00	J. Relin Francis Raj, S. Sasirekha, R. Santhana Krishnan, R. Sunitha, J. Nirmal	1,00
	Jothi, P. Kalyanakumar	
267	Multi-Modal Deep Learning for User-Centric Car Recommendations	15765
267	M. Saravana Karthikeyan, A. Alice Blessie, J. Relin Francis Raj, R. Santhana	1765
	Krishnan, K. Haribabu, S. Balamurugan	
260	Stock Price Prediction of Nifty 50 in India using LSTM and ARIMA During	1772
268	Black Swan Events	1773
	Laranya DSouza, Ankitha M.G, Srinivas Bhogle A Hybrid GAN-CNN Framework for Low-Light Image Enhancement	
	Combining Structural Noise Reduction and Perceptual Quality	
269	R. Gobinath, R. Boopathi, Vijayalakshmi S, D. Anu Disney, P. Nirmala	1779
	Priyadharshini, K. Maheshwari	
	BACOA: Meta Heuristic Driven Hybrid Scheduling Algorithm for Improved	
	Resource Allocation in Cloud Environment	
270	Yerukala Naveen, Srinivasa Babu Kasturi, Ch Ramya, Bandari Gayathri,	1787
	Santhosh Kumar Medishetti	
271	Wireless Locking System through OTP	1705
271	L Kavitha, Ashwitha K, Dharshana P K, Elakkiyaa M	1795
272	Patient Monitoring based on ICU Records using Hybrid TCN-LSTM Model	1800
212	Khader Basha Sk, Thirupurasundari D R	1800
1	Efficient Prediction of Air Quality using Hybrid Deep Learning Models	
273	Shiju Kumar P S, Sai Rithwin Reddy, Boddeti Musali Naidu, R. C. Ilambirai,	1806
	S. Lourde Jame, R. K. Pongiannan	
1	Development of Artificial Intelligence System for Driver Drowsiness Detection	
274	Shiju Kumar P, Ajay Bhaskar H, Aishwarya M C, R. C. Ilambirai, S. Lourde	1812
	Jame, R. K. Pongiannan	
	Application of CNN based Deep Learning Algorithm for Herbal Plant Leaf	
275	Detection D.	1817
	R. K. Pongiannan, Sagardeep Das, Rudra Prakash Purbia, R. Brindha, S.	
	Lourde Jame, P. S. Shiju Kumar	
276	Optimized Dense Neural Network Architecture for Bone Marrow Cancer Classification using Custom Callbacks	1822
2/0	G. Deepa, Y. Kalpana	1044
	Estimating Fetal Gestational Age from Ultrasound Images using Deep	
	Learning Techniques	
277	N. Mohana Suganthi, R. Subhashni, A. Chitra, S. Rajakumari, T. Priya, P.	1829
	Caroline Anitha	
	Independent Package Delivery Rover using Image Processing and Obstacle	
278	Detection	1027
	Ashish Kumar Dutta, Vijayashankar S, Mohammed Sohail Sheikh, Tejesh	1837
	Kumar G N	

279	Automated AI-Powered Fruit Identification using Convolutional Neural Network	1843
	Sai Tejasree K, Surendran R, Rajakumar B, Gomathi R. M	
	Performance Optimization of U-Net Network in Segmentation of Nerves	
280	Image Dataset	1849
	G Veera Sreeja, M Nagaraju, C. P. Sai Theja, Vikas Agarwal	
	Cuscuta Detection and Classification of Blackgram Plant Leaf Diseases using	
281	Deep-Transformation Algorithm	1854
201	Nadakuditi Swarna Jyothi, Raavi Satya Prasad	1051
	UAV-based Object Tracking using Siamese Networks and Kalman Filtering	
282	S. V. Ramanan, M. Rajasekar, G. Shanmugapriya, Sujitha R, Akshya. J, Mani	1859
202	Deepak Choudhry	
	Hybrid Deep Learning Approach for Accurate and Real-Time Detection of	
202		1066
283	Rice and Potato Leaf Diseases	1866
	B Nithya, V Asha, S P Sreeja, Amrutha M, Amratha Devadiga, Revathy K	
	Ethical AI Redefined: Pioneering Transparency with Hybrid Explainable	
284	Models	1872
20.	J. Gayathri, K. S. Vimal Chandran, F. Divya Rathna Mala, Aadyaanjali M S,	1072
	Kaviya S, A. Maheshwaran	
	Enhancing Brain Tumour Classification: Integrating Neural Networks with	
285	LightGBM for Optimized Text-based Data Analysis	1879
203	Srinivasa Rao Alapati, Sai Charan Gurram, Ch Kranthi Rekha, P Ram Kishore	10/9
	Kumar Reddy, Ruhisulthana Shaik, P Kiran Kumar Reddy	
	Detection and Classification of Benign-Malignant Lung Nodule on CT Images	
20.6	using GDDNN Classifier	1007
286	Mantripragada. Yaswanth Bhanu Murthy, Durgarao N, Gangavarapu. Venkata	1887
	Satya Kumar, M. Venkatesh	
207	InnoDerm: An Innovative Deep-Imaging Approach for Skin Lesion Detection	1004
287	Mechineni Pavani, Suresh Kumar Mandala	1894
	Deep Arrhythmia Classification using C-BiNET: A Convolutional Bidirectional	
288	Approach	1899
_00	Febeena K R, Cini Kurian	1077
	Data Capture Method of Sports Video Trajectory based on Dynamic	
289	Programming Algorithm	1905
20)	Yawei Li	1705
	Modeling of Regional Closed-Loop International Freight Transportation	
290	Network based on Graph Neural Network	1912
270	Suqing Xu	1712
	Color Restoration and Enhancement Algorithm of Dehua White Porcelain	
291	Image based on Retinex Model	1919
291	Tiangao Su	1919
	Analysis of Motion Vectors in Ultra-High-Speed Video for Basketball Game	
202		1025
292	Video Frames	1925
	Chao Ji	
293	Deepfake Image and Video Detection using Deep Learning Algorithms	1933
	Srivanth Srinivasan, Nischitha P, Akshita Chavan, Mohana	
a c :	Real-Time Detection of Identity Theft in Online Transactions using Hybrid	40.50
294	Deep Learning models	1938
	LI Dagarrag Cui Dharraui N. C. Chanath, Dirryalalyahuri I Champhag C. I	
	U Ragavee, Sri Bhavani. N, S. Sharath, Divyalakshmi. J, Sharubaa. S. J	
	Comprehensive Heart Attack Prediction Model using Stacked Ensembles and	
295		1943

296	Enhancing Snowflake Security: A Novel Framework Integrating HGWCS and CANN for Improved Threat Detection and Response in Cloud Environments Vinoth Nageshwaran	1950
297	A Hybrid CNN-LSTM-PSO Framework for Enhanced Cybersecurity Threat Detection and Classification S. Akilandeswari, Soumya T R, S. Sumathi, Mishmala Sushith, V. Brinda, Rajan S	1956