

# **2023 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA 2023)**

**Coimbatore, India  
22-24 November 2023**

**Pages 1-629**



**IEEE Catalog Number: CFP23J88-POD  
ISBN: 979-8-3503-4061-7**

**Copyright © 2023 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:	CFP23J88-POD
ISBN (Print-On-Demand):	979-8-3503-4061-7
ISBN (Online):	979-8-3503-4060-0

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

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

**7<sup>th</sup> International Conference on Electronics, Communication and  
Aerospace Technology (ICECA 2023)**

**22-24 November, 2023**

**Table of Contents**

<b><i>S.No</i></b>	<b><i>Paper Titles / Author Names</i></b>	<b><i>Page No.</i></b>
1	Machine Learning Algorithms for Estimation of State-of-Charge of Li-ion Batteries Pushpavanam B, S.Kalyani, P. Naveen, T. Akilan, C.Swedheetha, P.Manikandan	1
2	FEM based Investigation of Electrical Charecteristics in Three Phase Transformers K.Krishnan, K.Elavarasi, R.Bharanidharan, P.Rajasekar, A.Amudha , R.V.Maheshwari	7
3	Passive Cooling Method for Photovoltaic Panel Alagar Karthick, Chandrashekhar K Patil, Gangatharan R, Balamurugan A, Ezhil Arasan S, S.Kannadhasan	13
4	Torque Optimization of a Synchronous Motor using a Genetic Algorithm Sandeep Kumar Sunori, Saurabh Pargaien, Govind Singh Jethi, Pradeep Juneja	17
5	An In-Depth Analysis of Electric Vehicle Charging Station based on LSTM and SVM Hybrid Model V.Ramkumar, Akabarsaheb B Nadaf, Manasi Vyankatesh Ghamande, Amar Prakash Dabral, Priti Mangesh Bharambe, Davinder Kumar	22
6	Prediction and Electricity Forecasting on the Individual Household Level based on PSO-LSSVM Approach Voleti Padmaja, A Tamizhselvi, I.Kathir, Arvind Mohan, Subharun Pal, Ravi Rastogi	28
7	RF Performance based Comprehensive Review on Homo and Hetero Structure of DG-JL-TFET Tamilarasi R, Karthik S	34
8	Comparison and Analysis of New O-H Type Multilevel Inverter with Reduced Switches for AC Appliances Dhineshkumar Krishnan, Santhosh Kumar S, Saravanaprasath T R, Muppudathi Raja E, Sushma K	41
9	Decoupling Identification Method of Continuous Working Conditions of Diesel Engines based on a Graph Self-Attention Network Vijayasharathi N, N. B. Selukar, G. Ganesh Kumar, Amit chauhan, Lalitha Ramachandran, Pavankumar Ravindra Sonawane	49
10	Metal Detecting Robot with Location Transmission System S V S N Murthy, Anuragh Vijjapu, D Vijendra Kumar, G V Vinod, K Rajasekhar, CH V V S Srinivas	55
11	An Astute Ganne Optimized MPPT Controller Combined with High Gain Interleaved Boost Converter for Grid-PV Systems Priya Palanichamy, Rajesh Krishnasamy, G.Irin Loretta, Carmel Mary Belinda M J, S.Gomathi	61
12	Hand Gesture Controlled Video Player Application Prathyakshini, Prathwini	67
13	Development and Stability Analysis of BLDC Motor (EC-i 40 Maxon) from State Space Analysis for Quadroter using Simulink	73

	S. Shanmuga Priya, Buvanesh Pandian V	
14	WPTEV: Design and Development of Smart Wireless Electric Vehicle Charging System using Wireless Power Transfer Technology and IoT S.Gomathi, J. Jayaudhaya, V.Samuthira Pandi, Shalini M, K.Ormila	80
15	Industrial Safety and Control using Labview S.Vimal Raj, Siva Bala L, Aravinth M, Gokul D, Gokulnath A	86
16	Design and Implementation of Neuro-Fuzzy Control Approach for Robot's Trajectory Tracking Kiruba Sandou D, Sunad kumara A N, Binod Kumar Choudhary, Shashikala Gурpur, Sarishma, Natrayan L, M.SivaramKumar	93
17	Hybrid Deep Artificial Humming Bird Algorithm for Improved Real Time Blind Assistance with Advanced Jetson Nano GPU Komal Mahadeo Masal, Shripad Bhatlawande, Sachin Dattatraya Shingade	99
18	Real-time Innovative Power Consumption Surveillance System for Residential and Industrial Application T.Anitha, M.Nagarajapandian, P.M.Manoranjini, B.Priyadharsini, E.Keerthana	105
19	Robotic Weed Control and Biodiversity Preservation: IoT Solutions for Sustainable Farming Ramakrishnan Raman, Palaniraj Rajidurai Parvathy, Pooja Sapra, Vaibhav Bapurao Sonule, S. Murugan	112
20	Power Optimization in 6T-SRAM Cell using Carbon Nanotube Field-Effect Transistors (CNTFET) L.Saranya, Priyanka Tanwar, S.Manikandan, Hifajatali Sayyed, Navaneethan S, R J Venkatesh	118
21	An Investigation of a Novel Triangle-Shaped Sierpinski Microstrip Patch Antenna for Implantable Biomedical Applications Sengottaiyan.N , M. Sathesh, Ravikumar Gurusamy, Brindha.M, Kalyanasundaram.P, Rajasekar.M	123
22	Machine Learning Assisted Experimental Investigation on Carbon Emissions of Diverse Fuels S Benil Jeniffer, D.Sathya, Yogeshwari R, Santhosh Kumar S, Suganth Krishna E, Pranesh M P	128
23	Enhancing Indoor Navigation: Bluetooth Beacon-based Localization Systems Bala Dhanalakshmi S, Cynthia Joseph, A.Rajeswari, M.Poongothai, Joshina Rozario	133
24	Robot-Assisted Cognitive Training for Children with Autism Insights and Outcomes Rumi iqbal doewes, V.Nivedita, Salla Venkata Subba Reddy, D Little Femilin jana, M.Sudha, Ravi Ranjan Manjul	139
25	Trespasser Detection and Tracking System for the Borders M.Logaprakash, K. Archana, S. Manojkumar	145
26	Conceptualizing Core Aspects in Circular Economy with Waste Recycling in Smart Cities based on LSTM and Auto Encoder Approach Sameer Yadav, Nithya P, T.Manikumar, D.Suganthi, P.Vijayaragavan, Savanam Chandra Sekhar	149
27	Performance Evaluation of Active Power Decoupling (APD) based Single-Phase Full- Bridge Inverter for Renewable Energy Applications S.Gomathi, Revathi Ganesan, J. Sivapriya, G.Irin Loretta, K.Malarkodi, D.Sungeetha	155
28	Multiband Planar Antenna Employing Open Complementary Split Ring Resonator Metamaterial Element S.Rajapriya, R.Samson Daniel	161
29	Energy-Efficient Digital Circuit Design and Optimization Utilizing FinFET Technology	167

	P. Maniraj Kumar, D. Haripriya, Rajesh T, A. Abdul Hayum	
30	Artificial Intelligence - Enabled Smart Grids: Enhancing Efficiency and Sustainability A.Jaya Mabel Rani, A Srinivasan, S Arumai Shiney, B.Kalpana, Sangar Subramaniam, V.Samuthira Pandi	175
31	Hybrid Deep Learning Technique for Optimal Wind Mill Speed Estimation Roossvelt Prabhu K A V, Thandava Krishna Sai Pandraju, Sampath Boopathi, P. Saravanan, S. Kaushik Rathan, T. Sathish	181
32	Neural Style Transfer based Infrared-Visible Fusion Lokesh Kumar KM, Aishwarya N, Ashwin B	187
33	MRI-SPECT Image Fusion with Coupled Sparse Dictionary Aishwarya N, Sai Keerthi RV, Kanwaljeet Kaur	193
34	Performance Improvement of Non-Isolated Multiport Converter for Hybrid Energy System S.Gomathi, S.Karthick, G.Jyosthna, S.Jaanaa Rubavathy, J. Sivapriya, M.Ramkumar Prabhu	199
35	Enhancing Segmentation Efficiency: A 2D U-Net Approach with 3D-to-2D Conversion for Medical Image Analysis Akhbar Sha, Adwaith Krishna E R, Devika S Menon, Anjali T	206
36	Segmentation and Classification of Gastric Cancer from Endoscopic Image Dataset with the Aid of Artificial Intelligence Cuddapah Anitha, Vemu Srinivas Rao, Ramyadevi. R, Maya. R, Subhasish Debroy, Mahaveerakannan R	212
37	Investigation of a Bidirectional ZVS Resonant Converter for Renewable Energy Applications S. Gomathi, R.G. Nirmala, S. Jaanaa Rubavathy, D. Hemanand, M. Bhoopathi, M.R. Faridha Banu	219
38	Feeding Pets using Automation Technology and Google Assistant D. Durga Prasad, K.V. Subba Rami Reddy , P.Ravi Kumar, B V V Satayanarayana, A.M.V.Pathi, G.Prasanna Kumar	224
39	LabVIEW based Design of Arrhythmia Detection System D. Ganesh Kumar, Kowshika R, Meiyarasan V, Kaniga T.V, Kokila S	230
40	Fine Grained Air Quality Monitoring based on BiGRU and AM Model for Enhanced Public Health D.R Prince Williams, G.Srinivas, Ayushman Bajpai, Manasi Vyankatesh Ghamande , Bijesh Dhyani, Subharun Pal	235
41	Range Estimation and Optimization Techniques for Electric Vehicle Long-Distance Travel M.Praveena, Mohan Kumar R, Manoj Y	241
42	LR-CNN based Classification for Improved EEG Epilepsy Seizure Detection using Discrete Wavelet Transform Technique P.Ashok, S. Praveen Chakkravarthy, U.Arunkumar, P.Parthasarathy	247
43	NLP-Powered Oncology Patient Summary T.C.Kalaiselvi, C.N.Vanitha, R.Vinodavarshini	253
44	Electroencephalography (EEG) based Prediction of Learning and Responsiveness among Students Alok Kumar Agrawal, Bilal Ahmed, Yogesh Kumar Jakhar, Karan Bajaj, Girish Kumar, Mukesh Kumar	259
45	Design of Microstrip Patch Antenna [MPA] FOR ISM Band of Applications N Sathyaraj, C.Venkataramanan, D.Sathish Kumar, S.Saravana Kumar, K.Saravanan, M.Vignesh	265
46	Design of Modular Multi-Level Inverters by using MATLAB Nenavath. Ramesh Babu, Kalagotla Chenchireddy, Birupaka. Divya Bhanu, K. Mukesh Kumar, Thammanaveni. Manoj Kumar, Chitiyala. Sai Kiran	271

47	Modeling and Simulation of SEPIC Converter with ANFIS Controller for DC-to-DC Power Conversion Rosaiah Mudigondla, Kalagotla Chenchireddy, Cheruku Sidhu, K Jithender Patel, A Sunil Reddy, D Vamshi	276
48	Nebulizer Add-ons: Innovative Features for Improved Respiratory Therapy Allwyn Gnanadas A, Hamshavarthini S, Rithanya K V, Kaviya P, Isabella S	282
49	IoT Enhanced Induction Motor Drive in Electric Vehicle Propulsion using Field Oriented Control N. Suthanthira Vanitha, A. Karthikeyan, R. Ramani, T. Meenakshi, S.Sujatha	288
50	Redefining Comfort and Alignment with Customizable Posture Corrective Cushion P. Arunkumar, Joselyne Sneka. I. T, Kohilnila. E, Igiriva. B, Sachin. V	293
51	Empowering Safety: Arduino-based Alert System Design and Implementation for Women K Ramesh Chandra, Tarun Nakka, Netra Nadigatla, N V S T S Vardhan Reddy, Syam Nulu, Avinash Kali	300
52	Prosthetic Hand: Design and Analysis of Upper Limbs using Autodesk Allwyn Gnanadas A, A K Shwetha, K Vishnu, K Naveen, B Suruthisri	306
53	A Comparative Study of Text-to-Speech (TTS) Models and Vocoder Combinations for High-Quality Synthesized Speech Penaka Vishnu Reddy, Dharavathu Rohith, S.V.S Dhanush, Tsaliki Satya Ganesh Kumar, Jyothish Lal. G, B. Premjith	311
54	Design and Implementation of 32-bit Signed Divider for VLSI Applications M. Saravanan, K A Balasuriya, D Deepak Raj, B Dharun, R Dinesh kumar, Palanichamy Naveen	316
55	Text2FashionGAN: Augmenting Personalized Style Recommendations with CGANs and Word2Vec S Madhan, Neha B, Sandeep Neemkar, S Abhishek, Anjali T	321
56	Water Level Controller with Weather Forecasting using 8051 Microcontroller Kaniskaa MS, Deepa M, Madanagopal C, Hariprasath K	329
57	Problem-X: A Catalyst for Social Problem Solving and Digital Inclusion Kuldeep Vayadande, Mohini Pawar, Tanishka Patil, Vivek Patil, Sujal Pawar, Pranali Wankhade	334
58	Innovative Actuator Control in Smart Cities with the InterSCity Platform E. Sangeetha, J. Deny	342
59	Design and Implementation of a Smart Grid System for Renewable Energy Integration A. Santhi Mary Anton, Bikash Chandra Saha, B. Raja Pagalavan, B.V. Sai Thrinath, Y. Alexander Jeevanantham, C.S. Sundar Ganesh	351
60	Design of Dual Polarization Antenna using Genetic Algorithm U Saravanakumar, S Bhoopalan, S Nandhakumar, M Raja, G Dineshkumar, S P Kesavan	358
61	Comparative Analysis of Various Elliptic Curve Cryptography Algorithms for Handheld Devices Kapil Kant Kamal, Sunil Gupta, Padmaja Joshi, Monit Kapoor	364
62	Monitoring Elbow Joint Recovery Rate in Rehabilitation Sreelatha P, Neha Nesnas B, Nisha M, Sriya B, Jaichand S	370
63	An Innovative IoT based Surveillance Robot for Smart Applications M. Ishwarya Niranjana, V. Parthipan, J. Dhanasekar, M. Jesheer, M. Ganesh Giridaran, K L. Harishankar	377
64	Design and Analysis of Multipliers using Hybrid Full Adder J. Dhanasekar, M.Ishwarya Niranjana, R. Bhuvaneshkumar, L. Cibi Kanna, N U. Dhayalan, R. Hari,	383
65	Hybridization of Solar and Battery in Standalone	388

	B.Ramesh, Kalagotla Chenchireddy, Dasari Sai Nivedh, Banda Akanksha, Aljubelli Sandeep Reddy, D. Sathish Yadav	
66	Smart Safety Helmet for Protecting Lives of Workers in Mining Industry M. Priyatharishini, M.Thillai Rani,	394
67	Automatic Surface Defect Detection System for White- Goods Logistics Industries using MU-NET Reshma P Vengaloor , Roopa Muralidhar	401
68	Graph based Systematic Synthesis Procedure of Gm-C Filter Mousumi Bhanja, Anirban Ganguly, Smita Rani Parija	407
69	A Framework for Block-Level Physical Design using ICC2 in 14nm Technology M. Ishwarya Niranjana, J.Dhanasekar, N.Blesson, G. Daniel Immansingh, M.Boopathi, S.Muthu Raman	413
70	Performance Analysis of Novel Saw-Tooth Shaped Fractal Boundary Square Micro Strip Patch Antenna Sathesh. M, Govindaraju.P, Kalyanasundaram. P, Ravikumar Gurusamy, Sengottaiyan N, M.Rajasekar	418
71	Smart Solar Energy Monitor using ESP 32 Controller P. Ramesh Babu , P. Sridevi, R. Shamitha , A. Snehaa , J S Shrini Maggi , D.Abirami	423
72	Development of a Wearable Electrooculography (EOG) System to Measure the Potential Difference Between Retina and Cornea M. Swathy, S. Logesh Kumar, T Arunkumar, S. Vigneshwaran, M. Maniventhan, C. Ramkumar	429
73	Enhancing Online Learning with Automated Emotion Identification using Facial Expressions M.Jagadeesh, Zubair Ali.L, Vishnu.S, Nandita Sajeew, Nithish Kumar N	435
74	Synergizing Collaborative Filtering and Popularity Scores in a Machine Learning Approach for Content Suggestions Abhay Chaturvedi, Boban Mathews, Sasi Kumar Patra, Anil Kumar N, R.Kavitha, Prasanna Kumar Lakineni	442
75	Enhancing Music Recommendations with Emotional Insight: A Facial Expression Approach in AI Manish Gupta, Venkatesh S N, Rupali Suraskar, K. Praveena, S.Jegadesan, Sampathirao Suneetha	450
76	Vision based Plant Leaf Disease Detection and Recognition Model using Machine Learning Techniques R.Sathya, S Senthilvadivu, S.Ananthi , V.C. Bharathi, G Revathy	458
77	Analysis the Artificial intelligence and Cyber Physical Security System Venkata Veeranjanyulu I, V Sreelatha Reddy, Subrahmanya Bhat, Lakshminarayana K S, R.Sasikala, G.Ramachandran	465
78	Disease Classification in Paddy Crop Leaves using Deep Learning Kavin Kumar S, Kowshik T, Krishna Harini M, R. Kingsy Grace	470
79	Recommending the Right Biofertilizer using Deep Collaborative Matrix Factorization in the Coffee Plantation Raveena S, Surendran R	476
80	Gold Prediction using Machine Learning Techniques S.Padmakala	483
81	Machine Learning based Recession Prediction Analysis using Gross Domestic Product (GDP) Haritha T H, Aliza Joby, N. Jayapandian	492
82	Automatic Detection and Epidemiologic Trends in Head and Neck Cancer using Fast-R-CNN and SVM Methods Sakthivel M, Sonal Patil, M. Kamarunisha, Rajesh Pokhariyal, Subharun Pal, Mohit Tiwari	499

83	Automatic Detection of Infection in Diabetic Foot Ulcer Images using Improved-CNN-SVM Approach Sivashankar.G, Bhagyalakshmi Avinash, Mohammad Shabbir Alam, Manasi Vyankatesh Ghamande, Keerat Kumar Gupta, Ravi Rastogi	505
84	Machine Learning Powered Text Auto-Completion and Generation Kayal Padmanandam, Jilla Nikhitha, Parvathaneni Pooja Sri, Gottipatti Pavithra, Chunduru Sai Megaha	511
85	Deep NN-based Autonomous Vehicle Framework for Route Selection and Traffic Control using Golden Levy Optimization Priyanka Sarath	517
86	An Evaluation of Extreme Learning Machine Algorithm to Forecasting the Gold Price Gurpreet Singh, Bebish Tripathy, Jaspreet Singh	523
87	Semi-Supervised Learning based Power Transformer Health Monitoring Index using Deep Learning G. Venkateshwari, R. Ananthi, S. Swetha Abirami, C. Muthu Lakshmi Rama, T. Sangeetha, B. Vigneshwaran	530
88	Spoken Language Identification and Translation using Deep Learning Kayal Padmanandam, Uppala Shivani, Tanneru Pooja, Palem Girija, GoneVaishnavi	535
89	Efficient Deep Learning-based Brain Tumor Segmentation and Classification Framework using MRI Images Subhashini K, Thangakumar J	541
90	Managing and Assessing the Risk Management of Supply Chain using the A-BiGRU-CNN Approach Sameer Yadav, Daniel Pilli, Senthil Kumar M K, Deepak Kaushal, S. Kaliappan, Ramya Maranan	553
91	An Innovative Method for Detection of Insect based on Mask-R-CNN Approach B.T.Geetha, Vilas Ramkrushna Jiwatode, Ranjit Raosaheb Raut, M.I.Thariq Hussan, Mohit Tiwari, Dinesh Chandra Dobhal	559
92	Influence of Unbalance on Tyre Pressure Monitoring System based on C-GRU Approach Sivashankar G, Shailandra Kumar Prasad, Saravanan A, Manasi Vyankatesh Ghamande, A.R.Aravind, Mr. Manish Sharma	565
93	Evaluating the Effectiveness of Spam Message Classification and Detection based on Deep Bi-GRU Method Sameer Yadav, Hemanand Chittapragada, V. Sidharthan, P.Vamsi Krishna, Anup Kumar, Muruganantham Ponnusamy	571
94	A Novel Method for Attendance Marking System using Hybrid LSTM and RNN based Networks E. Manigandan, Mohammed Saleh Al Ansari, Praveena Nuthakki, Bhuvneshwari S, G Kala Priyadharshini, Muruganantham Ponnusamy	577
95	Enhanced Computer-Aided Detection of Bone Fractures and Classification based on GRUSVM Approach Josna Yusuf, Iyyappan. M, C.Karthikeyan, Mathur Nadarajan Kathiravan, Ravi Rastogi, Geetha A	583
96	Accurate Crack Identification of Concrete Structures based on Deep Bi-LSTM Model Vishnu Vardhan Vallepu, Bhanu Pratap, A. N. Swaminathen, G Srinivas, S.Jayasudha, Nigitha D	589
97	Classification of Web Pages: A Comparison of Recent Machine Learning Techniques S.Ganeshmoorthy	595
98	Accurate Brain Disease Diagnosis with UE-CNN Uncertainty Discrimination	603



	S.Hrushikesava Raju, S.Adinarayna, N.Merrin Prasanna, Shaik Jumlesha, U.Sesadri, V.Nandini	
99	A Comparative CNN based Analysis of Classification and Detection of Potholes Vallamdas Ratheesh, S.Govinda Rao, V.Keerthi	611
100	Enhancing Brain Tumor Detection through CNN-based Analysis of MRI Scans Santhosh S, Ashwin Shenoy M, Vaikunta Pai T, Akhilraj V Gadagkar, Krishna Kaushik P	620
101	Efficient Automated Detection System for Pneumonia-Affected X-Ray Images using Neural Networks Kalaiyarasi.M, N Venkata Sireesha, S. Saravanan, D S Naga Malleswara Rao, Karthi S, K.Karunanithi	624
102	Automatic Speed Measurement and License Plate Reader for Motor Vehicles using CNN D. Poornima, N. Gopinath, Harish L, Manju, Santosh Kumar, C. Tamilselvi	630
103	Implementing Deep Learning Techniques for Trajectories of Flights to Yield Maneuver Status Sakshi Mhatre, Amrita Nair, Prachi Kadam, Raunak Joshi	636
104	An Automatic Face Recognition using Local Binary Pattern Histogram (LBPH) Algorithm Elizabeth Rani G, Sakthimohan M, Maria Antony Raj, Nithya V, Karthigadevi K, Swetha R	642
105	Recognition of Heart Disease based on Primitive Parameters using Machine Learning Model Jyothirmai Digumarthi, V. M. Gayathri, R. Pitchai	649
106	MPInet: Medicinal Plants Identification using Deep Learning Preethi Salian K, Shrisha H.S, Supriya Salian, Karthik K	654
107	Deep Learning Attentional Dense based Indoor Object Recognition for Visually Impaired People Komal Mahadeo Masal, Shripad Bhatlawande, Sachin Dattatraya Shingade	658
108	Deep Learning based Automated Pneumonia Detection from X-ray Images Sunil Kumar Aithal S, Rajashree	664
109	Machine Learning Approaches for Myers-Briggs Personality Prediction Sethulakshmi Santhosh, Meenakshi M, Avani F, S Abhishek, Anjali T	669
110	Animal Detection and Classification in Image & Video Frames using YOLOv5 and YOLOv8 Aishwarya D Shetty, Soumya Ashwath	677
111	Machine Learning Approaches for Sentiment Analysis in Social Media Data S. Thenappan, Anju R Krishnan, P.Sundara Bala Murugan, A.S.Valarmathy, P. Chitra, Hifajatali Sayyed	684
112	Machine Learning Approaches for Assessing Fluoride Concentration in Drinking Water and Dental Health Nehal Kumar, Rajesh Verma	689
113	Deep Learning-based GYM Monitoring System using YOLOv5 and Pose Estimation Algorithm Renugadevi G, P.Arul, Subashree V, G Sathi, M Dharmateja, G Indhumathi	697
114	Evaluating the Effective Machine Learning Techniques for Early Prediction of Heart Disease S Ezhilin Freeda, Nithya Shree T, T.C.Ezhil Selvan	703
115	A New Diagnostic Approach for the Detection of Wheat Leaf Disease using Deep Transfer and Ensemble Learning based Models Sudhir Saraswat, Salil Batra, Prottyush P Neog, Emani Likith Sharma, P. Pavan Kumar, Ankit Kumar Pandey	709
116	Gene Promoter Identification using Machine Learning Anshika, Anshika Sahu, Vivek Srivastava	717

117	Identification of Wheat Leaf Diseases based on Deep Learning Algorithms P.R Therasa, Hemalatha R, E Sivajothi, J.Jayashankari, B.Anni Princy, Uma Maheswari S	721
118	A Novel Methodology for Brain Tumor Detection in MRI Images using Support Vector Machine G.Mohan, R.Sathesh Raaj, Chitra. M, V.Malathy, Inayath Ahamed S B, J.Samson Isaac	726
119	Enhancing Stroke Lesion Classification with Conditional GAN: Leveraging Unsupervised Clustering and Class-Conditioned Synthetic Data Akhbar Sha, Kadiyala Monish Mithra, Srungarapu Jatin Abit Sai, Methuku Samhitha, Peddi Sai Harshitha, Rejeenth V R	734
120	Optimized Hybrid Model using Machine Learning to Combat the Prevalence of Cybercrime Gomathy M, A. Vidhya	739
121	Machine Learning Algorithm based VANET Traffic Management System K.Suganyadevi, T.Santhiya, S.SivaSankari, V.Swathi, V.S.Swathi	747
122	Comparative Analysis of CNN Algorithms for Alzheimer's Detection S. Soujanya, K. Anuradha, V. Srilakshmi, Konda Adilakshmi	753
123	Navigating the Brain: Unveiling Alzheimer's Disease using Convolutional Neural Network Krishnupriya Dinesan, Sreesankar S, Devesh Kumar V V, S Abhishek, Anjali T	763
124	Performance Analysis of Machine Learning-based Scheduling Policies for Operating Systems Boddu Sasi Sai Nadh, Akhbar Sha, Veerababu Addanki, Dhanvanth Reddy Yerramreddy, Nisha K S	771
125	Spatial Analysis-Enhanced Dermatological Image Classification for Paronychia Kalwa Anvesh, Janagama Vamshi Krishna, Akhbar Sha, S Abhishek, Anjali T, Nandakishor Prabhu Ramlal	777
126	Predictive Analytics in E-Commerce Leveraging Data Mining for Customer Insights C. Rajeshkumar, K. Rajakumari	783
127	An Advanced Deep Learning Approach for Primary Osteoporosis Prediction using Radiographs with Clinical Covariates R. Umamaheswari, D. Lakshmi, V.Samuthira Pandi, B.Geetha, S.Sumithra, Ragini P Y	788
128	UI/UX Design for Online Learning approach by Predictive Student Experience Koushik Reddy Chaganti, Uttham Sai Ramula, Cheruku Sathyanarayana, Ravindra Changala, N.Kirankumar, K.Gurnadha Gupta	794
129	Proposed Framework for Performance Tuning in Enterprise Applications using Machine Learning Cherry Khosla, Baljit Singh Saini	800
130	Thoracic Surgery Outcome Prediction: Harnessing Machine Learning for Post-Operative Life Expectancy Assessment Adithya Rajendran, S Abhishek, Akhbar Sha, Anjali T	807
131	Advancements in Face Masking Anonymization: Novel Approaches, Robust Privacy Metrics, and Real-time Solutions Prabith GS, S Abhishek, Anjali T, Nandakishor Prabhu Ramlal	815
132	Analysis Machine learning based Human Health Lung Cancer Detection Asha V, A.Saravanan, A.Anitha, Nuzhat Fatima Rizvi, Aarti Kalnawat, G.Murugesan	824
133	Deep Learning Technique for Oropharyngeal Cancer Detection in Medical Imaging Kumar R, S Pazhanirajan	829
134	Industrial 5.0 Aquaponics System using Machine Learning Techniques	835

	Venkatraman M, Surendran R	
135	Detection and Classification of Skin Cancer using Molecular-Imaging Machine Learning (MIML) Algorithm R.Naveen, U.Arunkumar, S. Praveen Chakkravarthy, M.Sathish Kumar	843
136	Extraction of Water and Riverine Sand using Deep Learning on Multispectral Remote Sensing Images Megha Sharma, Supriya M, Anil Kumar, Kartik Dhyani, Parth Chaturvedi	849
137	Accelerating Alzheimer's Research with Machine Learning Models for Improved Detection Kavitha G, K.Sudha, D.Jayasutha, V Sivaraman, M.Nalini, R.Siva Subramanian	855
138	Supply Chain Data Analysis with Innovative Logistics and Design Thinking Approaches Umamaheswari M, Monica A	863
139	Lifestyle Classification Amidst Psychological Impact of COVID: A Machine Learning Approach Alok Kumar Agrawal, Bilal Ahmed, Yogesh Kumar Jakhar, Karan Bajaj, Girish Kumar, Mukesh Kumar	869
140	Comparative Analysis of Techniques for Driver Drowsiness Detection G. Lavanya, L. K. Joshila Grace	876
141	Melanoma Unveiled: Harnessing Convolutional Neural Network ResNet 50 for Precise Segmentation and Detection M.Mahaboob, S.Ramalingam, Srinidhinivas K, Saravanan K S, Udaiyappan T, Umeshwaran S A	883
142	State-of-Art Facial Monitoring: A Machine Learning Perspective B.Anuradha, K.Sinehan, T.N.Sankaranarayanan, G.Selva Kathirvel Raja, K.Shree Khaanth, S.Viveka	889
143	Impact of Expert Academic Teaching Quality and its Performance based on BiLSTM-Deep CNN Network Tushar Dhar Shukla, Purnendu Bikash Acharjee, Chethan C, Thulasimani T, M Sindhu, Sanjiv Sharma	895
144	OrthoVision: Autoencoder-CNN Fusion Approach for Fracture Detection Abhiram S Amal Krishna K Vaishnav G M Anjali T S Abhishek	901
145	Leveraging Random Forests for Ovarian Cancer Detection and Precision Prediction Anvita Reddy Inture, Boddu Sasi Sai Nadh, Akhbar Sha, S Abhishek, Anjali T, Taraka Vignesh Mullapudi	910
146	An Efficient Seizure Prediction System using Convolutional Neural Network and Scalogram of the EEG Signals Vinod J Thomas, Anto Sahaya Dhas	916
147	Performance Analysis of Deep Learning Algorithms in Skin Lesion Classification S.Dhanasekar, K.Kuraloviya, S.Rajashree, J.M.Renuka Devi, P.Malin Bruntha, R.Naveenkumar	922
148	Fingerprint based Vehicle Anti-Theft Detection and Alerting System Yallapu Srinivas, Vinay K, Leela Vamsi M, Arjun M, Rohith M, Harikrishna N	929
149	Coconut Maturity Detection System using CNN Model with ResNet50 Architecture S.Thillaikkarasi, S.K.Aiswarya, M.Athisha, J.B.Sanjay, C.Hitesh Reddy	935
150	Identification of Brain Tumors in MR Images using UNet CNN Model S.Lalitha, A.Srinivasa Reddy, G.Malleswari	941
151	An Efficient Cancer Classification Model using Deep Neural Network with Arithmetic Optimization Algorithm-based Optimal Gene Selection Shyamala Gowri B, S. Anu H Nair, K. P Sanal Kumar, S.Kamalakkannan	946
152	Multimodal Approach: Emotion Recognition from Audio and Video Modality Himanshu Kumar, A. Martin	954

153	Pioneering Skin Health: Harnessing Thermal Images for Cutting-Edge Computer-Aided Diagnosis Krishna Kumar R, Satwika S R, Vanithasree P, Sathiya Priya N, Ahamed Sherif M F, Srinivas	962
154	Design and Implementation of Automatic Cloth Measuring System P. Karthikeyan, M.Karthik, N. Lakshmi Narayanan, A. Supraja, S. Suruthika, S.N. Hari Prasath,	969
155	Design and Implementation of Remote Nerve Stimulator for Cardiac Patients Rajasingam N, Padmanaban S, Ramkumar C, Ganeshkumar D	975
156	Sensor based Gait Analysis System for Older Adults Gayathri T, Pravin Kumar S, Indiera M, Sanjay Kumar C, Sudalai Mani B	979
157	An Advanced Feature Selection Approach to Improve Intrusion Detection System using Machine Learning Navjot Kaur, Jimmy Singla, Gauri Mathur, Suruchi Talwani, Navneet Malik	984
158	Secure Vote: AI-Powered Fingerprint Authentication for Next-Generation Online Voting Anjana Suresh, Aishwarea Gupthan, Arpitalaxmi, S Abhishek, Anjali T	993
159	Generalized Face Spoofing Detection using Spatial Features Neenu Daniel, A. Anitha	1001
160	Prostate Cancer Classification using Cat Swarm Optimization with Deep Learning on MRI Images Haritha V, Balasubramaniam D, P. Sasireka, K V Archana, Uma Maheswari S, Suja G P	1008
161	Earlier Detection of Pancreatic Cancer using Neural Network based Optimization Technique K. S. Chandragupta Mauryan, Humaira Nishat, U.Arunkumar, P.Megaladevi	1014
162	Meticulous ECG - A Continuous Monitoring and Early Detection System of Arrhythmia Detection P Sreelatha, G Preethika, S Sangamithra, G Gayathiri	1023
163	Non-Invasive Optical Glucose Monitoring using Laser Spectroscopy A.Shanmugapriya, Boopathi Selvan N, Hubert Veyannie V, Ilakiya G A, Dharun Prakash K	1030
164	Analyzing Student Performance and Interaction in Online Learning Environments using LMS Log Data Dhanalakshmi R, B Namasivayam, S Revathy, Balasubramani S	1036
165	Hybrid ML Algorithms for Learning Disability Forecast in School Going Children using Python in Machine Learning Techniques Margaret Mary T, V S Prakash, Divya K S, Amalorpavam George	1043
166	Progression of Disease Forecasting in Recurrence Cervical Cancer using Logistic Regression S.Geeitha, P.Renuka, S.Ramya, K.Sinduja	1050
167	Efficient Content Exploration on YouTube: Automatic Speech Recognition-based Video Summarization Kuldeep Vayadande, Mokshad Nemade, Shripad Parbhanikar, Saish Rathod, Anurag Raut, Rushikesh Thorat	1056
168	Leveraging Deep Belief Networks and Multi-Class Support Vector Machine for Nutritional Deficiency Identification in Grape Plant Leaves P Kiran, N Saikiran, D Srilatha, K Venkateswara Rao, K M Rayudu, Rudrapati Mounika	1063
169	Leveraging AI-based Approaches to Forecast Bike Demand in Smart Cities Malliga Subramanian, Kogilavani Shanmuga Vadivel, Akash M, Danushraj KS, Gowtham V	1069
170	Improving Multi-Organ Cancer Diagnosis through a Machine Learning Ensemble Approach	1075

	Mohammad Shahbaz Khan, Rohit R Dixit, Anurima Majumdar, Valli Madhavi Koti, Sushant Bhushan, Vipul Yadav	
171	Predictive Classification of Covid-19: Assessing the Impact of Digital Technologies Bonda Kiran Kumar, Anurima Majumdar, Saidatul Akmar Ismail, Rohit R Dixit, Hairani Wahab, Md Hafizi Ahsan	1083
172	Performance Evaluation of Sign Recognition Protocol using Hand Gesture Mechanism R.Dharshini, S.Dhivyashree, V.Bharaninagalakshmi, M.Asmitha, S.Dhanasekaran	1092
173	Wheeze And Crackle Analysis using Deep Learning John Amose, Manimegalai P, Priyanga S, Pavithra S, Susmitha B, Ruth S	1097
174	A Comprehensive Study of AI-Powered Writing Assistance Tools and Content Spinning Applications C. Tamilselvi, B. Dhanasakkaravarthi, R.Devi, A.Shamila Ebenezer, Batini Dhanwanth, Mohanaprakash T A	1104
175	Enhancing Cricket Match Analysis through Deep Learning Techniques for Digital Spin T. Parasuraman, L. Marina, L. Mohandass, B. Selvamuthukrishnan, N. Balaji Naik, R. Ramakrishnan	1112
176	Enhancing Real-Time Human Tracking using YOLONAS-DeepSort Fusion Models R. Athilakshmi, Pulavarthi SriChandan Sainagakrishna, S. Sri Chaitanya Chowdary Kota, M. Chandra Kiran Teja, Tummala Venkatesh, V. Jothi Prasad	1118
177	Enhancing Biomedical Image Interpretation through a Hybrid Machine Learning Algorithm R Rajkumar, Lakshmi Namratha Vempaty, R Thiyagarajan, Celine Kavida A, Harshal Hemane, Vijayakumar S	1126
178	Development of an Instrumented Glove for the Characterization of Human Wrist Tremor Prasanna Kumar Lakineni, Dhana Sony.J, Ruchi Sharma, Chitra. M, Jose Anand A, J.V.Anchitaalagammai	1132
179	Map Reduce based K-Means Genetic and C-Means Fuzzy Clustering Formation for Community Detection and Community Validation M.Vimaladevi, S.Sevli, V.Prakasham, R. Vidhya	1138
180	Improving Image Inpainting with Emphasis on Texture, Structure and Semantic Features using BioInspired Generative Adversarial Network G Sumathi, M Uma Devi	1146
181	Revolutionizing Alzheimer's Disease Prediction using InceptionV3 in Deep Learning R.Jansi, Naraganti Gowtham, Siva Ramachandran, V Sai Praneeth	1155
182	Forecasting Fire using Mobile Net Architecture D.Sungeetha, S. Pushpa Latha, N.Legapriyadarshini, A.Akilandeswari, Nagendar Yamsani, S.Padmakala	1161
183	Advancing Heterogeneous Face Recognition through Convolutional Neural Networks DenseNet V.Anand Kumar, A.Dhivya, B.Haripriya, S.Haripriya, L.Harshan	1165
184	Forecasting Student Achievement through Machine Learning Models Abinaya N, Priyanka S, Pavithra E, Archanaa S, Dharunraja S R, Vignesh R	1170
185	Enhancing Soil Moisture Prediction through Machine Learning for Sustainable Resource Management Keerthika S, Abinaya N, Jayadharshini P, Ruthranayaki J, Vasugi M, Priyanka S	1175
186	Machine Learning-based Alzheimer's Disease Prediction using Textual Data Keerthika S, Priyanka S, Jayadharshini P, Kowshika V L, Shalini M, Dinesh Suriya N	1180

187	SignSpeak - Sign Language Interconverter using CNN-based Approach Omkar Rane, Trisha Shishodiya, Roshan Sawant, Anand Godbole	1186
188	Development of Chain Link Twister Machine for Land Fencing Applications T.Gunasekar, P.Kokila, D.Livinkumar, R.Mathinraj, S.Parvathavarthini, T.Priyadharshini	1192
189	Machine Learning Applications in Traffic Safety: Assessing Accident Severity Automatically Priyanka S, Jayadharshini P, Santhiya S, Divyadharshini B, Samyuktha K, Madan P	1197
190	Enhanced Genetic Algorithm for Variable Minimization through Modified Crossover Operator James Cloyd M. Bustillo	1204
191	Estimation of Retinal Abnormalities in Fundus Image using Various Image Processing Technique S. Logesh Kumar, R. Saranya, V. S. Jagadhish, M. Swathy, M. Maniventhan, C. Ramkumar	1210
192	Predicting the Early Risk of Heart Disease using MABC with Self-Adaptive Bayesian Technique based on Lifestyle Factors K. Sudhakar, Mahaveerakannan R	1216
193	Eye Disease Glaucoma - Detection using Hybrid Classification Model using Machine Learning Principles K. Prakash, M. Sudharsan, M. S. Nidhya	1222
194	Gene Expression Analysis using Machine Learning : A Multi-Dataset Approach K Sai Dhanush , Hari Kishan Kondaveeti , Chandrika M , Rohan Putchakayala	1231
195	Classification of Regional Food using Pre-trained Transfer Learning Models Jeet Gadhiya, Anjali Khatik, Shruti Kodinariya, Dipak Ramoliya	1237
196	Environmental Sound Classification using 1-D and 2-D Convolutional Neural Networks L. Sherly Puspha Annabel, Shirley Praylin G, Thulasi V	1242
197	Heart Rate Variability-based Machine Learning Approach for Sudden Cardiac Arrest Prediction S Kumaran, M Karthick Raghunath, G Kiran Kumar, B Kiruthiga	1248
198	Mudras and Yoga Positions Detection and Recognition using YOLOv7 and Faster R-CNN Swarna Bodempudi, Kora Durga Nikhitha, Tummala Niharika, Namgiri Snehith, Syed Shameem, Jaya Vinay Namgiri	1254
199	Smart Warehouse Solutions for Efficient Onion Buffer Stock Management System Ramakrishnan Raman, L. Ramalingam, Kamal Kishorbhai Sutaria, Manika Kamthan , S.Sangeetha, S. Murugan	1260
200	Machine Learning based Object Detection to Protect Marine Ecosystem Vallakati Bhanu Prakash, Dhanavath shirisha, Gopu Suryaprakash Reddy, Shanmugasundaram Hariharan, Vinay Kukreja, Andraju Bhanu Prasad	1266
201	Intelligent Financial Risk Prediction Framework with Optimized Hybrid Deep Learning Architecture in Supply Chain Management Ashok Kumar Sarkar, Anupam Das	1272
202	Deep Learning with Natural Language Processing for Emotion Detection and Classification on Social Networking Ariyukkarasan Raja, Raguraman. D, Silja varghese, J.Senthil Murugan, Karuna Gudapalli, Aaftab Alam	1282
203	Deep Distributed Learning and Spatial-Temporal Features for Facial Depression Detection Sripriya Arunachalam, N.Kopperundeivi, D. Kanagajothi, Shubhangi N. Ghate, M.S Balamurugan, Srimathi S	1288
204	Secure Data Transmission for Communication Systems using IoT	1294

	S. Selvi, L.N. Charyulu Rompicharla, Chudamani Ramineni, Ruchira Rawat, Komala C R, K. V. Kanimozhi	
205	Enhancing Air Travel with IoT: Smart Airports and Passenger Experience N. Kalaivani, Ramakrishnan Raman, Chethan Chandra S Basavaraddi, Vijay Kumar Pandey, S.Sangeetha	1300
206	Securing IoT-Edge Networks: Federated Deep Learning for Botnet Detection S.Nagasundaram, B. Rajesh Kanna, Shobana. G , R.Sindhuja, S. Rajalakshmi, Aviral Srivastava	1306
207	IoT Enabled Mushroom Farm Automation based on CNN-BiGRU-CRF Method Moorthi K, S.Sureshu, G.Vasanti, Abhishek Mishra, Nisarg Gandhewar, Gourav Kalra,	1312
208	Ensuring Automobile Safety by Improved Ignition Locking System through Blood Alcohol Content Measurement and IoT Hammikolla Akshaya, A Manoj Kumar, Akash Reddy, D Dhanalakshmi, Shanmugasundaram Hariharan, Vinay Kukreja	1318
209	Exploring IoT-Applications: A Survey of Recent Progress, Challenges, and Impact of AI, Blockchain, and Disruptive Technologies Chaitanya Vijaykumar Mahamuni	1324
210	IoT Farm: A Robust Methodology Design to Support Smart Agricultural System using Internet of Things with Intelligent Sensors Association R.Karthiga, C. L. Brindha Devi, R.Janaki, C.Gayathri, V.Samuthira Pandi, D Shobana	1332
211	IoT based Smart Home with a Thief Detection and Tracking System Amruta Surana, Priyanka K. Kendre, Jayashri D.Palkar, Anusha O.Vaidya, Chetana H. Jain, N.Gopinath	1338
212	Multi-Band Antenna Arrays for Seamless Connectivity in Internet of Things (IoT) Applications S.Asha, Beulah Jackson, K.Sivaraman, R.Dayana, N.Hemavathy	1343
213	Real-time Threat Detection and Countermeasures in IoT Environments T Hemalatha, S Venkatakiran, Mandeep kaur, Manojkumar S B, Veduri Veera Prasad, Ashreetha.B	1349
214	Machine Learning-based Predictive Analytics in Healthcare IoT Hariharan V, Sivaraman K	1358
215	Efficient Energy Management System of Home Appliances using IoT Saurabh Pargaian, Amrita Verma Pargaian, Ripul Bhardwaj, Dikendra Verma, Hansi Negi, Rishi Prakash	1364
216	Smart IoT Solutions for Personalized Health: MQTT- based Blood Pressure Monitoring System Pradeepa H, C. Priya, Saravanan G, R. Thenmozhi, C. Srinivasan	1369
217	Solar Tree based Home Appliance Monitoring System using IoT M. Ishwarya Niranjana, J.Dhanasekar, S. Karan, N. Nithesh Kumar, C.B. Mithul, S. Praveen Kumar	1374
218	Predictive Analytics for Proactive Maintenance in Industrial IoT Applications A. Jaya Mabel Rani , B.Yasotha, Sevanthi P, K.Karthika, Y.Alexander Jeevanantham, V.Samuthira Pandi	1380
219	Data Analysis and Visualization of the Industrial IoT based on the Big Data Approach R. Ganesan, Chandrima Roy, Ramiya R, Hemambujavalli S, R. Vijayakumar	1386
220	Inbuilt Framework using IoT and Computer Vision Technique for Automatic Visitor Management GangoluYedukondalu, B Krishna Kumar, R.Suguna, Nichenametla Rajesh , G.Sudha Gowd, K.Gurnadha Gupta	1394
221	A Comprehensive Taxonomy of Adversarial Attacks on Machine Learning in IoT Application	1398

	M.Praveena, Madhumitha S, Menakadevi J, Lalith Akkash V	
222	IoT and Big Data in Agriculture Revolutionizing Farm Management and Productivity B. Murugesakumar, Dharshini. D, Dinesh kumar S	1404
223	LoRa Enhanced Real-Time Earthquake Monitoring System for Constructions using IoT and Cloud V.V.Teresa, T.Thamaraimanalan, S.Jeevanantham, A.Balaji, H.Gokulanand, N.Jeevanprasath,	1410
224	A Single KY Boost Converter based System Emulator for Testing Unbalanced Microgrid using IoT R. Sathish, R. Venkatesh , B.Yuvarani , K. Kannan, A. Ragavendiran, P. Selvam	1416
225	Design of Hybrid Energy Aware Cluster based Multipath Routing Protocol in IoT Assisted Wireless Sensor Networks Prerana Nilesh Khairnar, Arempula Sreenivasa Rao, S.Sivakumar, S.N.Sangeethaa, Srimathi S, G. Bharani	1423
226	A Safe and Reliable Identity based Healthcare System K.Muthulakshmi, K.Sowndarya, R.C.Yogitaa Devi, R.Tharani	1430
227	Intelligent False Data Injection Attack Detection using Soft Computing in Cyber-Physical Power Systems Prerana Nilesh Khairnar, Bindu K V, Md. Abul Ala Walid, S.Jothimani, Subha B, Aviral Srivastava	1439
228	IoT based Smart Helmet for Bike Rider Safety Venkateswara Rao Ch, Santosh Chegondi, Karthik Myla, Sai Murala, Seshadri Srinivas Myla, Dilli Rao Kalava	1445
229	Smart Radar Security System based on Bluetooth Prudhvi Raj Budumuru, Santosh Chegondi, Leela Vamsi M, Arjun M, Rohith M, Harikrishna N	1449
230	IoT based Saline Level Monitoring System M K V Subba Reddy M, Priya Harika T, D S H Bharath Pali, Surya Ashok Pala, Gayatri Kanchi, Keerthi Kodiboina	1453
231	Enhancing Android Security: Dynamic Analysis for Resilient Defences using Machine Learning S Abhishek, Adithya Rajendran, Akhbar Sha, Anjali T, Arun Karunakaran Nair	1458
232	Design and Investigation of Metamaterial Antenna for Wireless Communication D. Sathish Kumar, S.Pavithra, K.S.Ranjith, R.Kiruthika, E.Kavin	1464
233	MalNet: Detection of Malwares using Ensemble Learning Techniques Nivaashini M, Aarthi S, Ramya R S	1469
234	An Efficient Implementation of AES Algorithm for Cryptography using CADENCE Deepa M, Varssha B, Abinaya E, Ajitha S, Dhaarani S, Sharmila K A	1478
235	A Decision Tree Clubbed Nearest Neighboring Classification Approach for Detecting Intrusion in IoT Networks Navjot Kaur, Gauri Mathur, Navneet Malik, Suruchi Talwani, Jimmy Singla	1485
236	Secure Encryption Framework for Multi-Cloud Environments : Leveraging Symmetric and Asymmetric Encryption R.E.H.S.Rajendra, T.Veer Reddy, B.Lakshmi Narayana Murthy, J. Sai Bhagavan, Srithar S, S.S.Aravinth	1493
237	Revolutionizing Data Transfer: Harnessing Li-Fi for Image and Text Transmission Dhanasekaran D, Riyaz Aashiq B, Ravi Prasanth M L, Muniyappan.R	1501
238	Modified Image Encryption Algorithm based on Chaotic Cryptography Ashok G, Jose Anand A	1506
239	Data Fusion and Analysis Techniques for Enhanced Decision-Making in IoT Environments S Deepa, Radhika M, Meenakshi Diwakar, Princy Rufina, A.Nithya, M.	1513



	Mohanapriya	
240	Cyber Security and Dual Hash Mechanism for Cloud-based Internet of Transportation System Samundi R, Gunanidhi G S, Karthikeyan R	1519
241	Energy-Efficient Clustering and Routing Algorithm using Deer Hunting Optimization in Wireless Sensor Networks T. Jayachandran, A. Logeswaran, S.Thillaikkarasi, S. M.Suman, B.SakthiKumar, S.karthick	1522
242	A Double Security Hashing Algorithm for Storing Data in Blockchain Technology G.Subathra, N. Jeyakkannan, A.Lavanya, R. Karthika, D.Nancykirupanithi	1528
243	A Micro-Scaled Semi Octagonal Shaped Wideband MIMO Antenna for Wireless Communication Networks Ranjana Kumari, V.K. Tomar	1536
244	IoT Applications in Wildlife Conservation: Tracking and Protecting Endangered Species R.Reena Roy, Ramakrishnan Raman, M. Amanullah, Vijay Kumar Pandey, E. N. Ganesh	1542
245	Monitoring the Heart Patient Status using Hybrid ML with GSO Models in Cloud Computing K. Sudhakar, Mahaveerakannan R	1548
246	Hybrid Multimodal Machine Learning Driven Android Malware Recognition and Classification Model Arthi.A, Kapil Aggarwal, R Karthikeyan, S.Kayalvili, Srimathi S, Aviral Srivastava	1555
247	Design and Implementation of an Android App for Real-Time Location Monitoring and Emergency Assistance Rama Chaithanya Tanguturi, Dankan Gowda V, S K.Heena Kauser, N.Vyshnavi, K.Hephzibah, T.Aswani	1561
248	Analysis of Robotics and Human Measurement of Physiotherapy using Machine Learning Priya S, Kumuda P R, Vellayan Srinivasan, Malleswari Akurati, V Revathi, T. Sudhakar	1568
249	Optimizing Resource Allocation in Agriculture through IoT and AI Mirzanur Rahman, Chippy T, Dankan Gowda V, KDV Prasad, Harpal Singh Sethi, P Vishnu Prasanth	1573
250	Multi-Versatile IoT Tracker for Enhanced Monitoring and Tracking Applications C.Manikandan, C.Jaiseeli, D.Lakshmi Vikas, C.Veda Vardhan, B.Venkata Sai, R. Srinivas	1579
251	Water Level Prediction using Random Forest Algorithm Kattupalli Sudhakar, Sai Manvitha Reddy Mallireddy, Praveena Tallapureddy, Sowjanya Vuddanti, Bhavitha Katragadda, Sai Ram Manda	1586
252	An Analysis on the Productivity of Employees through Artificial Intelligence K.Kalaivani, S.Venkatachalam	1590
253	CovDNet: A Hybrid Multi - Level Densely Connected Neural Network for Improvised Analysis and Classification of COVID-19 using Chest CT-Scans Deepa S, Praveenkumar G D, Suguna R, Vivek Duraivelu, Jamunadevi C, Sundhar S G	1595
254	Effective Disaster Management using Modified Convolutional Neural Network D.Sungeetha, Carmel Mary Belinda M J, Nagendar Yamsani, N.Legapriyadharshini, A.Akilandeswari, S.Padmakala	1605
255	An Ensemble Model to Predict Network Traffic Prediction Model using RB Multicast Protocol Deepa S, P Sathishkumar, Vivek Duraivelu, R Suguna, Arunkumar M S, Myleshan M B	1609

256	Adaptive Trust-based Optimal Route Selection Algorithm in MANET using Sooty Tern Optimization Algorithm Subhrananda Goswami, Subhankar Johardar, Sukumar Mondal, Chandan Bikash Das	1617
257	Modeling of Artificial Intelligence based Arrhythmia Detection and Classification using Electrocardiography Signals on IoT Environment R.Beulah Jeyavathana, Jency Rubia J, Rajitha.M, Md. Abul Ala Walid, S. Santhana Megala, Srimathi S	1626
258	IoT based Security Alert System for Children Jayasakthi Balaji. G, Varunika. S, R. Kingsy Grace, S. Ezhilin Freeda	1632
259	Design and Development of Light Communication Systems using Modulation Techniques R. Ragumadhavan, D. Sateesh Kumar, L.N. Charyulu Rompicharla, Shiv Ashish Dhondiya, Seeniappan.Kaliappan, L. Natrayan	1637
260	Modelling and Analysis of EV Communication System for Road Safety Applications Suresh S, Sheik Dhavud S, Purushothaman A, Jeswin Vincent Raj R, Sakthimurugan M	1643
261	An Optimized Stochastic Distance Vector (OSDV) Protocol for Enhanced Energy Efficiency in Wireless Sensor Networks Sajitha M, S.Veni	1649
262	Multimodal Sensor Data Fusion based Cyberattack Detection in Industrial Internet of Things Environment R.Nithya, J.Jerlin Adaikala Sundari, B. Rajesh Kanna, M. S Balamurugan, R.Sindhuja, Aviral Srivastava	1656
263	UWB Band-based Patch Antenna for Wireless Communication Systems B. Jeyapoornima, J. Joselin Jeya Sheela	1662
264	Performance Analysis of Photonics in Wireless Applications G. Deepika, N.K Anushkannan, Manikannan Palanivel, Shiv Ashish Dhondiya, Suvitha S, S. Ramesh	1666
265	Design and Development of the Optical Antenna for Wireless Communications R. Arul Arumugam, Usha Rani B, Komala C R, Shivangi Barthwal, Seeniappan. Kaliappan, L. Natrayan	1671
266	Design and Development of S-Shaped Antenna for Wireless Networks Vanitha V, P Kishor Kumar, Y. Sreenivasulu, Ruchira Rawat, S. Ramesh, Jogendra Kumar	1677
267	A Effective Detection Method using Optimized Decision Tree Classification for Network based Intrusion K.Sudha, C.Balakrishnan, T.Nithya, Durga Devi G, Megiba Jasmine R, R.Siva Subramanian	1682
268	A Novel CCAP Protocol to Increase Security with Energy Efficiency for Wireless Sensor Networks G. Viswanathan, M. Jayakumar	1689
269	A New Hybrid EAES-SI Framework for Secure Information Sharing in WBANS P. Anitha, R. Priya	1698
270	An Intelligent HealthCare System using Blockchain Techniques J. Deepika, J. Akilandeswari, Lokeshwaran B, Mukilarasan N, Naveen S, Prabhu A	1706
271	Unveiling Novel Techniques for Human Activity Recognition with Smartphone Sensors Thangamani R, Sathya D, Sreeka G, Kavila V, Nithish K, Santhosh S	1714
272	Advanced Image-Driven UAV Fire Detection and Suppression System with Pneumatic Deployment: Aerial Fire Response Snehith Reddy Jambula, Sri Chaithanya Mathi, Sai Nadh Polu, Sudha Yadav	1723

273	Enhanced UAV with Image-Driven Concrete Crack Detection Snehith Reddy Jambula, Sri Chaithanya Mathi, Sai Nadh Polu, Kenny Gee Oberoi JM, Vedha Pranava Mateti, Sudha Yadav	1730
274	Automatic Vehicle Accident Detection and Enhanced Rescue Management System Akhilraj V. Gadagkar, Sandeep Kumar S, Shifana Begum, Ashwin Shenoy M, Vaikunta Pai T	1738
275	Attacks in Wireless Sensor Networks: Detection and Mitigation using Hybrid Propagation Mitigation Protocol R. Anandh, S. Urmela , Rashmi D, Tamilselvi C, Manju, Deepshikha Bhatia	1743
276	Enhancing WiFi Range and Throughput with Beam Steering Antennas Beulah Jackson, A.Sahaya Anselin Nisha, S.Varalakshmi, N.Darwin, M.Varun	1749
277	Network Security in Cyberspace using Machine Learning Techniques Chitra Sabapathy Ranganathan, Ramakrishnan Raman, Kamal Kishorbhai Sutaria, Raj A Varma, S. Murugan	1755
278	Utilizing RL and Web-Enhanced Commuting for Traffic Congestion Mitigation and Public Transportation Enhancement Jenefa A, Jerusha Miraclin Dulcie B, Carolin Joanna Sheryl K, Esswari S, Sandra Jeslena.W, Bessy M Kuriakose	1760
279	Smart Sleep Monitoring: IoMT and GRU for Effective Sleep Disorders Management Jenefa A, Rithick.S, Vishal.A, Jesman.T, Richin Christ Robert, Bessy M Kuriakose	1767
280	Fuzzy Logic based Efficient Routing Protocol for Energy Sustainability in Wireless Sensor Networks Gayathri S, William Andrews J, Praveena V, Rajiv Gandhi N, B.Anni Princy, Uma Maheswari S	1774
281	An Efficient Privacy-Preserving Authentication with Insider Attack Resistance for VANET K.Suganyadevi, K.Sanjay, S.Saran, P.R.Somansankara, B.Vishnuprasanth	1779
282	Drip Irrigation Leakage Control using IoT Dency Flora G, Mahindhar K S, Lokesh Kumar L, Prasad K S, Ashok S	1786
283	Internet of Things Enabled Real-Time Drainage Service Hole Management System S. Kevin Andrews, A. Victor Benevent Raj, M. Swedha, G.Preetha, R. Soundharya Devi, K.Lakshmi Narayanan	1791
284	Exploring the Effectiveness of Web Application Firewalls Against Diverse Attack Vectors Syed Arif Islam, M. MohanKumar, Umma Khatuna Jannat	1798
285	EzStream: Video Compression and Textual Representation for Multimedia Sensor Networks Akhbar Sha, Adwaith Krishna E R, Sidharth Surendran, S Abhishek, Anjali T, Taraka Vignesh Mullapudi	1807
286	IoT Attack Detection using Artificial Neural Network Animesh Srivastava, Vikash Sawan, Parveen Kumar Saini, Shiv Ashish Dhondiyal	1813
287	Enhancing Cybersecurity Resilience: Real-time Ransomware Detection using AES Algorithm on Kafka Stream Umma Khatuna Jannat, M.MohanKumar, Syed Arif Islam	1818
288	Food Suggesting Chatbot: Detecting and Prescribing Perfect Food for Every Customer Haritha.P, Ronal Regan.S, Sunil Kumar.V, Ranjith Kumar.R	1827
289	Adversarial Attacks on Generative AI Anomaly Detection in the Quantum Era Jenefa A, Ebenezer V, A Joshua Isaac, Joe Marshall, P.Pradeepa, Edward Naveen.V	1833

290	Intelligent Automation System for Energy Conservation using IoT and Machine Learning B.Sakthi Kumar, S.Ramalingam, S.Viveka, V.G Vigneshwar, N.Sivasubramaniam, J.Sancta Maria	1841
291	A Novel Text Clustering Approach based on Bacterial Colony Optimization S Dhanalakshmi, S Sathiyabama, D. Ayyamuthukumar	1847
292	Industrial Environmental Pollution Monitoring and Prediction Analysis using IoT and Machine Learning M.Sowmiya, P.Sowmiya	1854
293	Design and Development of an Intelligent Medicine Dispenser Prajwal K T, G. Likhitha Sai, Deep Kumar Dhan, Kumar C.M, Poushali Pramanik	1860
294	Design and Analysis of IMU Accuracy and Sensitivity Measurements in Aerospace Navigation T.Vasudeva Reddy, R.Anirudh Reddy, Ch.Ramprasad, B.Harishwar Reddy, B.Shrikar Varma, G.Ajay Kumar	1865
295	Learned Prediction for Space Debris Collision Risk and Avoidance Sreya Etherajan	1871
296	Intelligent Baggage Management in Airports: A Cognitive IoT Approach for Real-Time Tracking, Optimization, and Passenger Engagement S. Valarmathy, K. Radhika, K. Bashkaran, S. Selvarasu, C. Srinivasan	1876
297	License Plate Detection using YOLOv7 and Optical Character Recognition Parth Sankhe, Jai Ramani, Trisha Shishodiya	1881