

2022 International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2022)

**Salem, India
9-11 May 2022**

Pages 1-619



**IEEE Catalog Number: CFP22BC3-POD
ISBN: 978-1-6654-9711-4**

**Copyright © 2022 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:	CFP22BC3-POD
ISBN (Print-On-Demand):	978-1-6654-9711-4
ISBN (Online):	978-1-6654-9710-7

Additional Copies of This Publication Are Available From:

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

CURRAN ASSOCIATES INC.
proceedings
.com

International Conference on
Applied Artificial Intelligence and Computing
(ICAAIC 2022) 9-11, May 2022

Table of Contents

S. No	Paper Title/ Author Name	Page No
1	Artificial Intelligence and Its Influence on E-Commerce Tanya Charan Pahadi, Abhishek Verma, Raju Ranjan	1
2	Construction of an Artificial Intelligence Evaluation System for the Effect of Modern Informatization Ability and English Practice Under the Background of New Liberal Arts Ruihua Yu	6
3	Machine Learning and 5G Network in an Online Education WSN using AI Technology Assefa Senbato Genale, B. Barani Sundaram, Amit Pandey, Vijaykumar Janga, Desalegn Aweke Wako, P. Karthika	10
4	AI based Dynamic Model for Question Paper Generation and Performance Monitoring Shubhra Jena, Aaryan Raina, Hemkesh Raina, Charusheela Nehete	16
5	IBM Auto AI bot: Diabetes Mellitus Prediction using Machine Learning Algorithms J. N. V. R. Swarup Kumar, K. Hareesh Kumar, Abdul Haleem, Baddeti Sivaranjani, Bala Naga Tirumala Kiran, Srirangapurapu Prameela	24
6	The Application of Interactive Artificial Intelligence in the Intelligent Integration of Infants Playing Teaching Aids Huihong Wang	30
7	Application of Interactive Artificial Intelligence in Data Evaluation of Ink Animation Production Yipu Zhang	34
8	Research on the Architecture of Electronic Target Intelligent Processing System based on Artificial Intelligence Minyi Zhao	38
9	Internet of things- Cloud Security Automation Technology based on Artificial Intelligence Karrar Hussain, D. Vanathi, Bibin K Jose, S Kavitha, Bhuvaneshwari Yogesh Rane, Harpreet Kaur, C. Sandhya	42
10	AI and Web Application in Medicine Delivery Drones Soma Prathibha, K. R. Saradha, Sharmila P, Kaveya S	48
11	Artificial Neural Network Approach in Detecting and Predicting Epileptic Seizure Geeitha S, Divyabharathy S, Elakkiya P, Roshini B, Sankavi M	54
12	AI Interfaced Learning Module for Road Safety using Virtual Reality Sangeetha. V, Vamsidharan. V, Saran. R, Shrikesh. S. P	60
13	AI for Detection of Missing Person B. Vinavatani, Medha Rachel Panna, Premila H Singha, G. Jasper Willsie Kathrine	66

14	Implementation of Facial Recognition (AI) and its Impact on the Service Sector Aravinda T V, Krishnareddy KR, Sony Varghese, P. V. Chandrika, T. Prabhakara Rao, Victor Trofimov	74
15	A Review on Artificial Intelligence with Deep Human Reasoning Janmanchi Harika, Palavadi Baleeshwar, Kummari Navya, Hariharan Shanmugasundaram	81
16	Robotic Trash Collector Boat using Artificial Intelligent Techniques S. Usha, M. Karthik, V. Hariharan, P. Riddhi, A. Kishok, R. Mohan Krishna	85
17	Using AI to Improve India's Logistic Conditions Sanskar Jethi, Madhav Rathi, Dhiraj Kumar Pal	90
18	Virtual Reality in Construction Design Sangeetha. V, Shanthini. E, Sivaelango. N, Sri Karthickraja. V, Vignesh. N	96
19	A Review of Non Invasive Blood Pressure Monitoring using Artificial Intelligence based Approaches Vimal Sheoran, Gaurang Raval, Sharada Valiveti, Saurin Parikh	101
20	A Novel Method for Brain Tumor Classification using Capsule Network Karthikeyan, Senduru Srinivasulu, Madhan, Jeberson Retna Raj, Gowri S, Jabez J	107
21	Construction of Hotel Management Intelligence System based on Process Data Collection and Optimization Algorithm Fei Liu, Jiali Kang	111
22	Intelligent Integrity System Construction of Scientific and Technological Inventions of Higher Vocational Guiders Under the Background of Information Mining Deqiang Wu	115
23	Design of Intelligent Classification Algorithm for Financial Management of Innovative and Entrepreneurial Enterprises based on Intelligent Data Classification Algorithm Ying Liu	119
24	Application of Game Analysis and Mathematical Optimization Model in Soil Fertility Evaluation Intelligent Monitoring System Yingying Feng, Ji Yang	123
25	Cross-Border Practice of Intelligent Documentary Image Quality Improvement Algorithm in the Internet Era Jiuyang Yao	127
26	ATLE2FC: Design of An Augmented Transfer Learning Model for Explainable IoT Forensics using Ensemble Classification Yoginee Surendra Pethe, Pranali Rahul Dandekar	131
27	Ensemble Learning Models for Drug Target Interaction Prediction Fahmida Minna K, Maya Mohan	138
28	Efficient Business Intelligence Implementation: A Systematic Review Anila Sharon J, Sujitha Juliet	144
29	Intelligent System to analyse Plant Diseases using Machine Learning Techniques S. Dhanasekaran, Divakar Reddy Chigicherla, Saivardhan Reddy Tholeti, Gangi Reddy Pole	150
30	A Review on ITS (Intelligent Transportation Systems) Technology Shashi Ravi, Mohan Rao Mamdikar	155
31	Developing an e-learning and Job Portal for IT Aspirants Shivani, Ravikaran Srivastava, Navneet Tiwari	160

32	Thyroid Cancer Detection using Deep Neural Network Ikramuddin Ahmed, Rayyan Mohiuddin, Mohammed Abdul Muqeet, Jagannath Ajaya Kumar, Adith Thaniserikaran	166
33	Analysis of Efficient Network Security using Machine Learning in Convolutional Neural Network Methods Amit Pandey, Vijaykumar Janga, Desalegn Awoke, Assefa Senbato Genale, B. Barani Sundaram, P. Karthika	170
34	Classification of Vitoligo using CNN Autoencoder Neha Agrawal, Sagaya Aurelia	174
35	Skin Disease Classification using Convolutional Neural Network Gomathi S, Nishanth S, Nikhitha S	177
36	Neurodegenerative Disorder of Ageing using Neural Networks Ankit Anand, Nithin Bolishetti, Boyapati.Sri Navya Teja, Sharadindu Adhikari, Ikramuddin Ahmed, Janani Natarajan	183
37	Group Search Optimizer-based Neural Network for EEG- based Emotion Recognition Jitendra Khubani, Shirish Kulkarni	187
38	SAR-FloodNet: A Patch-based Convolutional Neural Network for Flood Detection on SAR Images Aparna A, Emily Jenifer A, Sudha N	195
39	Exploring Graph Embeddings for Making Recommendations using Graph Neural Networks Anupama Angadi, Satya Keerthi Gorripati, Anuradha Tutika, P Dileep, Venubabu Rachapudi	201
40	Accident Detection and Reporting using Convolution Neural Network Dhanashri A. Machhi, Arathy S. Pillai, Punitha Thirumalaikumar, Shraddha S. More	207
41	Self Driving Car using Neural Networks Divit Kalathil, Vivek Kumar Mandal, Archis Gune, Kiran Talele, Priya Chimurkar, Manisha Bansode	213
42	Prediction of Malignant Lung Nodules in CT Scan Images using CNN and Feature Selection Algorithms Jessnia Fernandes, Nikeeta Simoes, Dominic Vaz, Saurav Tiwari, Amrita Naik, Damodar Reddy Edla	218
43	Identification of Non-Vaccinated People using Face Recognition based on CNN S. Kanimozhi, N. Arun, A. Madhan Singh, Shanthosh Kumar S, Tharanidharan T	225
44	Covid Cough Classification using KNN Classification Algorithm Ganeshkumar Deivasikamani, Akshay. C, Ananthkrishnan. T, Rohith. C. Manoj	232
45	An Application of Normalizer Free Neural Networks on The SVHN Dataset P. S. S. Madhulika, Nalini Sampath	238
46	A Novel Approach to Image Colorization Algorithm using Convolutional Neural Networks Manav Singla, Aanvi Jain, Manav Mantri, Shobhit Tulshain, Rajesh Kumar Muthu, Rani Chinnappa Naidu	243
47	Emotion Detection and Quotations using CNN Thulasi Bikku, Lavanya Viswanadha, Maddoju Madhulatha, Penumuchu Jyothirgamai, Shaik Shabana, Saka Sai Sreedevi	251
48	A Robust Approach for Image Super-Resolution using Modified Very Deep Convolution Networks Alok Kumar, Sandeep Kumar Shukla, Archana Sharma, Pranay Yadav	259

49	A CNN – Bidirectional LSTM Approach for Price Forecasting of Agriculture Commodities in Gujarat Aditi M Joshi, Sanjay Patel	266
50	Study About Palm Vein Pattern based Biometric Authentication using CNN Algorithm Balraj E, Deepakkumar K, Rithick V, Sankar Ganesh D, Santhosh S	273
51	A Simple Attention Block Embedded in Standard CNN for Image Classification G Madhu, Sai Mohan Gajapaka, Lalith Bharadwaj B	279
52	Applying CNN on Lung Images for Screening Initial Cancer Stages Susmitha Valli Gogula, Srinath Goud Komiri, Vishnu Vardhan Arivilli, Pandari Gulapally, Kowshik Kodumuri	285
53	A Study on Log Anomaly Detection using Deep Learning Techniques Kamiya Pithode, Pushpinder Singh Patheja	290
54	Retinopathy Detection on Diabetic Patients through Transfer Learning based Inceptionv3 Algorithm HariPriya R, Gopalakrishnan B, Purusothaman P	299
55	A Transfer Learning Model based on ResNet-50 for Flower Detection Sanay Jaju, Manoj Chandak	307
56	Transfer Learning based Emergency Vehicle Detection on Traffic Signal through IP Camera Prawinsankar D, Pandiyan M, Gopalakrishnan B, Rex Macedo Arokiaraj A	312
57	Cervical Cancer Prediction using Machine Learning Algorithms Mohan Kumar V, Gopalakrishnan B, Naveena S	318
58	Prediction and Detection of Diabetics Mellitus using Different Machine Learning Approaches Malini M, Gopalakrishnan B, Naveena S	323
59	Computerized Diagnosis of Diabetic Retinopathy based on Deep Learning Techniques Monisha Birlin T, Divya C, N. Muthukumaran	331
60	Detection of Helmetless Riders and Automatic Number Plate Recognition using Machine Learning Premmaran G, Sathishkumar P	339
61	IndieSign: A Learning Module for Indian Sign Language using Supervised Machine Learning Techniques Aaditya Kulkarni, Ashwin Raina, Rohit Ramteke, Sayush Kamat, Jyoti Deshmukh	346
62	Analysis of Ensemble of Machine Learning Algorithms for Detection of Parkinson's Disease Gowthami Tallapureddy, D Radha	354
63	Machine Learning based Credit Card Fraud Detection- A Review Kavya Gupta, Kirtivardhan Singh, Gaurav Vikram Singh, Mohd. Hassan, Himani, Upasana Sharma	362
64	Grape Leaf Disease Prediction using Deep Learning Atul Kumar Uttam	369
65	Predicting Delay in Flights using Machine Learning Sowjanya Addu, Pavitra Ravali Ambati, Smitha Reddy Kondakalla, Harshitha Kunchakuri, Manasha Thottempudi	374
66	Deep Learning based Driver Drowsiness Detection Parth P. Patel, Chirag L. Pavesha, Santoshi S. Sabat, Shraddha S. More	380

67	Prediction of Diabetes and Symptoms of Covid-19 using Machine Learning Classifiers Steffy T. Baby, S. Basil Xavier, G. Jasper W. Kathrine	387
68	SQL Injection Attack Detection by Machine Learning Classifier Prince Roy, Rajneesh Kumar, Pooja Rani	394
69	A Machine Learning Approach to Predict Social Media Addiction During COVID-19 Pandemic Meherin Akter, Kaniz Fatima Ritu, Md. Tarek Habib, Md. Sadekur Rahman, Farruk Ahmed	401
70	A Machine Intelligence Model to Detect Drowsiness for Preventing Road Accidents Bhanu Prakash Doppala, Bandi Vamsi, Debnath Bhattacharyya, J. Nageswara Rao	406
71	Coupling and Cohesion Metrics-based Fault Predictions using Machine learning Algorithm Pujitha Bandarupalli, Prasanth Yalla	412
72	Child Abuse Mental Symptom Prediction Model using Machine Learning Techniques Elankeerthana R, Hanshiya D, Pranavajothi A, Shanmugapriya N, Sujitha S	419
73	Machine Learning based Face Mask Classifier Atharva Bal, Nishant Mankar, Rohit Kharde, Jyoti Kundale	426
74	Detecting Turmeric Taphrina Maculans Disease using Machine Learning Algorithms C.N.Vanitha, S.Malathy, P.Shenbagavalli, S.A.Krishna, K.Kavin	431
75	Rainfall Prediction for Enhancing Crop-Yield based on Machine Learning Techniques Malathy.S, C N Vanitha, Kotteswari, Syamraj V, Sudharsan P, Mohankkanth E	437
76	COVID-19 Detector using Deep Learning Mohammed Ali Shaik, Sachin Kumar Koppula, Mohammed Rafiuddin, Bonagiri Sai Preethi	443
77	Deep Learning-based Transfer Learning for Classification of Skin Cancer Kalaiarasan R, Madhan kumar K, Sridhar S, Yuvaraj M	450
78	Credit Card Fraud Detection using Deep and Machine Learning Sahil Negi, Sudipta Kumar Das, Rigzen Bodh	455
79	Driver Fatigue Prediction with Real Time Driver Alert System using Deep Learning S. Jothimani, K. Madhumitha, V. Narmadha, R. Naveena	462
80	Detection of Leukemia using Machine Learning M. Iswarya, Shivakami. A, Aravindh Mira. R, Karpagam. A	466
81	Enhancing the Prediction of Growth of Footballers using Real-Life Statistics and Machine Learning Subham Parida, K. Deepa Thilak, Ransher Singh	471
82	Deep Learning, Blockchain based Multi-Layered Authentication and Security Architectures Hariket Sukesh Kumar Sheth, Ilavarasi A K, Amit Kumar Tyagi	476
83	Detection of Stress in IT Employees using Machine Learning Technique Suresh Kumar Kanaparthi, Surekha P, Lakshmi Priya Bellamkonda, Bhavya Kadium, Beulah Mungara	486
84	Heart Disease Prediction using Machine Learning Algorithms G. Thilagavathi, S. Priyanka, V. Roopa, J. Swethaa Shri	494

85	A Comprehensive Analysis for Implementing IoT on LTE Systems K Naresh Kumar Thapa, A Hema Malini, Kalaimani A, Sathiyandrakumar Srinivasan	502
86	Voltage Sag Compensation with DVR based on Machine Learning Controller Nalla Vishwa Kiran Reddy, Rommala Sudheer Reddy, Vikram Siddharthan M, Manitha P. V, Deepa K, Sailaja V	508
87	Diabetic Prediction System using Machine Learning Model Radhika Paturi, D. Sreeja, P. Hima Bindhu, B. Ramya, K.Harika	515
88	Disaster Tweet Classification using ML Jaydev Rathod, Girish Rathod, Pooja Upadhyay, Puja Vakhare	523
89	Heart Disease Prediction using Enhanced Deep Learning C. N. Vanitha, K. Vanitha, C. Narmatha, S. A. Krishna, R. Dhivakar	528
90	Real-Estate Price Prediction System using Machine Learning Veerraju Gampala, Nalajala Yaznitha Sai, Tadikonda Naga Sai Bhavya	533
91	Lung Cancer Detection using Machine Learning Bharathy S, Pavithra R, Akshaya.B	539
92	Tomato Plant Leaves Disease Detection using Machine Learning Reesali Mohanty, Pooja Wankhede, Drishti Singh, Puja Vakhare	544
93	Hybrid Student Authentication System using RFID Reader and Face Biometrics using Deep Learning Techniques S. Meivel, C. Praghadeesh, A. Ravinder, D. Sibisaran	550
94	Face Mask Detection in Realtime Environment using Machine Learning based Google Cloud Avdhoot Wakchaure, Prasad Kanawade, M. A. Jawale, P. William, A. B. Pawar	557
95	A Real-Time Machine Learning based Cloud Computing Architecture for Smart Manufacturing Saja Krishna Kishore, G Vasukidevi, E. Poorna Chandra Prasad, Tulasi Radhika Patnala, V. Prabhakar Reddy, Pramit Brata Chanda	562
96	A Comprehensive Analysis on Outlier Prediction using Learning Approaches Boddu L V Siva Rama Krishna, V Mahalakshmi, Gopala Krishna Murthy Nookala	566
97	A Study of Efficient Management of Nutrients in Fertilizers using IoT and ML Sumana K. M, Rekha K. S	574
98	Image Resolution Enhancer using Deep Learning Harsh Mittal, Vaibhav Rai, Swaraj Sonawane, Sneha Mhatre	578
99	Automatic COVID-19 Detection from Chest X-Rays using Deep Learning Techniques Vaibhavi C. Shinde, Pradnya S. Kulkarni	587
100	Analyzing Prognosis Methods using Machine Learning Algorithms for Detecting COPD Nagendra Kumar V V, Rajeswari D	595
101	User Gender Classification based on Twitter Profile using Machine Learning Kummari Vikas, A Vivek Reddy, Satya Kumar C, Hariharan Shanmugasundaram	603
102	Contact Tracing Detection Application for Covid-19 using Machine Learning Techniques M.Vengateshwaran, A.S Harshana, N.Valarmathi, S.Jayanthi, E.Srividhya	609
103	APMWM: Approach to Probe Malware on Windows Machine using Machine Learning Praveen Tumuluru, Lakshmi Ramani Burra, Muthumala Vishnu Vardhan Reddy, Sampooramma Sudarsa, Sreeraman.Y, Avuthu Lalith Adithya Reddy	614

104	Classifying Pepper Disease based on Transfer Learning: A Deep Learning Approach Imdadul Haque, Md. Ashiqul Islam, Koushik Roy, Md. Mizanur Rahaman, Abdul Alim Shohan, Md. Saiful Islam	620
105	A Deep Learning Facial Expression Recognition based Scoring System for Restaurants Yeshwanth Sara, Jalendar Dumne, Akash Reddy Musku, Dhiraj Devarapaga, Ramesh Gajula	630
106	Covid19 Vaccination and Lifestyle Counsel using Machine Learning Algorithms Madumidha. S, Siva Ranjani. P, Keerthana. B, Navin Raj. E. V, Janarthanan. R, Karthikeyan. A. K	635
107	Predicting Doctor Ratings from User Reviews using Deep Learning Yash Jhaveri, Tanay Naik, Pankaj Sonawane, Tanay Gandhi, Shubh Nisar	641
108	Predicting covid-19 by Referring Three Supervised ML algorithms : A Comparative Study using WEKA Kajal Kansal, Seema Maitrey	649
109	Thermal and Visual Face Recognition using Eigenfaces and Transfer Learning Pratiksha Mohite, Kumar Vaibhav, Annapurani Panaiyappan. K	656
110	Risk Assessment and Management using Machine Learning Approaches Smita Darandale, Rachana Mehta	663
111	Analysis of Student Sentiment Dynamics to Evaluate Teachers Performance in Online Course using Machine Learning Somdeep Das, Sandip Roy, Rajesh Bose, Pinaki Pratim Acharjya, Hiranmoy Mondal	668
112	AI Present: Random Interval Query and Face Recognition Attendance System for Classroom using Machine Learning K. Periyakaruppan, K. Aravindhan, K. Balaji, Christabel Rishmi. C, Ravanya. R, Sirakez. P. S	674
113	Acute Stroke Prediction based on Machine Learning and Deep Learning Shreehari Nair, S. Revathi	681
114	Real-Time Handgun Detection in Surveillance Videos based on Deep Learning Approach Pavithra T, Rajasekaran Thangaraj, Pandiyan P, Uma Rani M, Balasubramaniam vadivelu	689
115	Leveraging Machine Learning Methods for Multiple Disease Prediction using Python ML Libraries and Flask API Srikanth Narayanan, N. M. Balamurugan, Maithili K, P. Bini Palas	694
116	Desktop based Speech Recognition For Hearing and Visually Impaired using Machine Learning P. Kavitha Rani, B. Manohari, S. Sureshkumar, B. Arun kumar	702
117	Realization of Virtual Reality Technology in College Students' Social Anxiety Intervention Platform based on SQL Information Sequence Data Mining Xueqin Ding, Shuanghua Shen, Guangxi Cui, YulanWang, Jiajia Tan, Qian Zhong	710
118	Influence of Accounting Information on Financial Management Projects in Intelligent Information Environment based on Smart Data Mining Yu Zhang	714
119	Structural Modeling of English Language Signal based on Word Frequency Data Mining and Peak Analysis Fei Gao	718

120	Impact of Social Media Affecting Student's Academic Performance using Opinion Mining Mathimagal N, Jayalakshmi S, Prasanna S	722
121	Marathi Social Media Opinion Mining using XLM-R Naitik Rathod, Nishit Mistry, Dhruv Talati, Manan Parikh, Aniket Kore, Pratik Kanani	730
122	Scalability of Data Mining Algorithms for Non-Stationary Data Satyajit S. Uparkar, Ujwal A. Lanjewar	737
123	Mining of Frequent and High Utility Fuzzy Sequential Patterns Ritika, Sunil Kumar Gupta	744
124	Critical Analysis of Big Data Applications using Functional Linguistics and Diversified Integration M. Jogendra Kumar, B Srinivasa Rao, R Vijaya Kumar Reddy, G. V. S. Raj Kumar, N. Raghavendra Sai	752
125	Decentralized Data Center Analysis of Economic and Financial Development in International Trade in the Era of Big Data Lei Chen	759
126	Research on Decentralized Algorithm of Infrastructure Project Cost Management Aided by Big Data Wene Shi	763
127	Construction of Accounting Technology Block Analysis System Under the Background of Big Data Cloud Computing Shuqin Li	767
128	Construction of Intelligent Dispatching System for Port Logistics in the Era of Big Data Internet Yu Zhai, Chun Deng	771
129	Security Modeling of Overseas Asset Management Information System Under International Trade and International Capital Flow in the Era of Big Data Lei Chen	775
130	Data Modeling Algorithm of Traditional Aesthetics and Modern Art Design Under the Background of Big Data Aiju Han	779
131	Review on Marine Weather Forecasting with Big data J.Deepa Anbarasi,V.Radha	783
132	An Efficient Framework for Load Balancing using MapReduce Algorithm for Bigdata Vajja Vignesh chandra, Pandaraboyina Charan Sai, Sridhar Mandapati	791
133	Efficient Machine Learning Algorithms for Medical Big Data Analysis J. P. Medlin Julia, D. Bennet	795
134	Construction of Power Forecasting and Environmental Protection Data Platform Based on Smart Grid Big Data Guang-ye Li, Jia-xin Zhang, XinWen, Lang-ming Xu, Ying Yuan	801
135	Design and Research on the Practice Platform of Software Engineering Majors in Ordinary Colleges in the Era of Big Data Chen Zhuoran	805
136	Intelligent System Design of Human Resource Management for Small and Medium-Sized Enterprises based on Big Data Wenjing Ma	809
137	Efficient Way of Interaction between Alumni and Students with the usage of Sentiment Analysis	813

	M. Sharmila Begum, A. M. Mohamed Mubeen Azath, J. A. Vishwa Raghawin, A. Joel Amrith	
138	Speech Emotion Recognition by using Feature Selection and Extraction Abhishek Kumar, Amit Kumar Goel	818
139	Mental Health Prediction using Natural Language Processing Ranjana R, T Subha, Sreenidhi K L, Akshaya K B	824
140	Multi-class Sentiment Analysis Over Social Networking Applications using Text and Emoji- based Features Raghavendra Reddy, Ashwin Kumar U M	829
141	GenGen: Analysing the Performance of Transformer-based Encoder-Decoder in a General Natural Language Generation Paradigm Angad Sethi, Aman Kumar Gond, Abhishek Kumar Singh, Prashant Giridhar Shambharkar	835
142	Text-based Emotion Recognition using Sentiment Analysis Chris Jonathan D, Sujitha Juliet	844
143	Natural Language Processing based Refining Hindi to English Machine Translation Paridhi Gupta, Brijendra Kumar Joshi	849
144	Bank Application: One-Time Password Generation Sandhya Krishna P, Duggempudi Tejasri, Bellamkonda Soumya, Maddi Madhuri, Lubna	855
145	Performance Analysis of Different Preprocessing Techniques for Cyclone Prediction B. Suresh Kumar, D. Jayaraj	860
146	Automated Crop Type Classification using Moth Flame Optimization with Adaptive Neuro Fuzzy Inference Systems P. S. S. Gopi, M. Karthikeyan	867
147	Scientific Research Management System (SRMS) of Colleges Under the Background of School-Enterprise Cooperation based on Visual Data Chain Tracking Qi Rong	873
148	Application of Virtual Reality Technology in College Students' Social Anxiety Intervention Platform with C# Implementations Xueqin Ding, Shuanghua Shen, Guangxi Cui, Yulan Wang, Jiajia Tan, Qian Zhong	877
149	Design and Robustness Test of TCM English Smart Translation Algorithm based on Data Node Database Retrieval and Deep Search Liu He	881
150	A Review on Smart Agricultural Applications: Crop Yield and Plant Disease Prediction VaniB V, C D Guruprakash	885
151	Application of Substring Search Algorithms to Hindi based on Pattern Recognition Barkha Sahu, Brijendra Kumar Joshi	893
152	Drone Detection using YOLOv4 and Amazon Rekognition Rohit Ambesh, Altaf Bin Sarfraz, Chirag Kapoor, Harshit Joshi, Himali Patel	896
153	Object Detection with Audio Comments using YOLO v3 Sneha Gupta, Suchismita Chakraborti, Yogitha. R, G. Mathivanan	903
154	A Creative Approach for Recent Advancements in Tracking System for Women and Children by using Wi-Fi Technology	910

	S. Karunya	
155	Machine Vision for Grape Cluster Quality Assessment Theofanis Kalampokas, Eleni Vrochidou, George A. Papakostas	916
156	Automated Exam Proctoring using Support Vector Machine and Histogram of Oriented Gradients Madhusudan, Sankalp Godbole, Harsh Meshram, Jyoti Joshi	922
157	Accuracy based Performance Analysis of Classification Algorithms using Parkinson Disease Dataset J. Dhinakaran, T. Velmurugan	927
158	Application of Computer Vision Technology in Post-Harvest Processing of Fruits and Vegetables: Starting from Shape Recognition Algorithm Xuehua Chang	934
159	Data Application in Martial Arts Safety Teaching Process based on Smart Medical System Bo Sun	938
160	Using Salesforce to Build Real Time Covid 19 Tracker with Cloud Computing Technology Hiba Thanduparakkal, Shahad P, Raji C.G	942
161	Real-Time Facial Components Detection using Haar Classifiers Ankur Kumar, K.M.Balamurugan, B.Balamurugan	949
162	Image Quality Improvement Algorithm in the Process of Film Shooting Under Digital Imaging Technology Zhipu Wang, Ziyue Liu	957
163	Application of High-Performance MOOC based on Multi-Center and Multi-Backup in the Design and Parallel Retrieval of a Combined Teaching Resource Library Xiaodan Sang	961
164	Natural Language Processing based Machine Translation for Hindi-English using GRU and Attention Jaskirat Singh, Sansriti Sharma, Briskilal J	965
165	A Contemporary Technique for Lung Disease Prediction using Deep Learning V Pradyotan Raju, Senduru Srinivasulu, P Vishnu, Jeberson Retna Raj, Gowri S, Jabez J	970
166	A Review of Image Annotation Tools for Object Detection Bhushan Pande, Kewal Padamwar, Samiran Bhattacharya, Shobhit Roshan, Mamta Bhamare	976
167	Speech Emotion Recognition to Assist Autistic Children Nikita Chitre, Namrata Borhade, Pradnya Topale, Jyoti Ramteke, C. R. Gajbhiye	983
168	Spatial and Temporal based Pollution Forecasting using Hybrid Model Snehlata Beriwal, John A, Sampath Kumar K	991
169	Application of Computer Vision for Multi-Layered Security to ATM Machine using Deep Learning concept. Shailaja Kalmani, Dilna.U	999
170	QR Code based Shopping System K. Kaarthik, T. Manibharathi, D. Rakshith	1005
171	Survey on Recommender Systems Incorporating Trust Megha Raizada	1011
172	Smart Wheelchair with Remote Patient Health Monitoring System Mukunda Gujar, Vrundali Navadiya, Karan Surve, Telcy Gomes, Prajyoti Dsilva	1016

173	Image Processing Model for Deformity in Diabetic Polygenic Disease Depiction Sharmila P, Jegatha R, Sri Priya K, Akshathaah BK, Saranya K	1024
174	A Survey on Community Detection Methods and its Application in Biological Network Seema S. Redekar, Satishkumar L. Varma,	1030
175	A Brief Survey on Segmentation and Classification Techniques for Face Recognition Rangayya, Virupakshappa, Deepak S Uplaonkar, Nagabhushan Patil	1038
176	Deploying Virtual Air Drum tool to Detect Sound Frequency in Computer Vision N. Valarmathi, M. Anbarasu, E. Ragul, M. Suren Kumar, S. UdayaKumar	1044
177	Face Recognition through Integrated Model Karnika, Arushi Gupta, Renu Gautam, Rukhsar khan, Pratiksha Kumari	1050
178	A Comparative and Extensive Study of COVID 19 Diagnosis using Lung Ultrasound Images Anjelin Genifer Edward Thomas, J Shiny Duela	1056
179	Smart Attendance Management System for an Academic Institution V. Lakshman Narayana, K. Jyothi Sri, J. Akhila, Rajyalakshmi Lahari, Sk. Arshi Aatika	1064
180	Mixed Breed Ensemble Method for Mushroom Classification Nagarjuna Reddy Seelam , Korampalli Sirisha, Hema Navya Akunuru, Deena Ballipara, Anurag Prabath G	1071
181	Co-Mart - A Daily Necessity Price Comparison Application Ayush Asawa, Swapnil Dabre, Shravani Rahise, Manisha Bansode, Kiran T. Talele, Priya Chimurkar	1076
182	Emotion Recognition in Tweets using Multi-modal Data Swarnalaxmi Thiruvankadam, Guru Shruthy G, Dhivya T C, Arockia Xavier Annie R	1081
183	Arduino based Contactless Covid Booth Registration system Tejaswini Dhage, Devyani Pande, Yashika Gaidhani, Lalitkumar Shivarkar, Shreya Raut, Sujit Nitnaware	1086
184	Web Application based Exam Hall Seating Management System Jitha K, Fathima A, Fathima Jubina Pathari, FebinaJasmin N, HamnaFebin P K	1091
185	A Geometric Method for Extracting Images of PDF Files N Nagajothi, S S Dhenakaran, S Uma Maheswari	1096
186	Computer Vision based Automated Spare Part Finder App Geerishraj Jugroop, Parish Seegolum, Aatish Chiniah, Baichoo Bibi Humaira	1101
187	Facial Recognition using Edge-Driven Biometric System Chandrakala G Raju, Beena Ullala Matha, Varun Canamedi, Somdyuti Sarkar, Radhika K R	1107
188	Selection of Precise Long Short Term Memory (LSTM) Hyperparameters based on Particle Swarm Optimization Yingchi Mao, Andri Pranolo, Aji Prasetya Wibawa, Agung Bella Putra Utama, Felix Andika Dwiyanto, Shoffan Saifullah	1114
189	Driver Drowsiness Detection Model System using E.A.R. Rahul Pradhan, Priyanshu Varshney, Dilip Kr Sharma	1122
190	Impact of Preprocessing on Twitter Based Covid-19 Vaccination Text Data by Classification Techniques P. C. Sridevi, T. Velmurugan	1126
191	Classification of Anomalous data using SVM Classifier Aman Mishra, Deepak Kumar Singh	1133

192	License Plate Image Super Resolution using Generative Adversarial Network(GAN) Bickey Kumar Shah, Anshul Yadav, Ashutosh Kumar Dixit	1139
193	Data Driven Approach to Predict Ground Water Level using Support Vector Regression Sara Kutty T K, M. Hanumanthappa, Srinivas Keerthi P S, Harsha B V	1144
194	Emotion Recognition through Speech: A Review Uma Mahesh Yadav Konangi, Venkateswara Reddy Katreddy, Shiva Kumar Rasula, Ganesh Marisa, Tanima Thakur	1150
195	Study and Comparison of Plagiarism Detection Model for Online Studies Manas Bhole, Hershal Rao, Bhavin Patel, Sumedha Bhagwat	1154
196	Smart Voting machine using Fingerprint Sensor and Face Recognition N. Bhuvaneshwary, Challa Venkata Reddy, C. Aravind, Kammari Hari Prasad	1159
197	Simulated Mouse Mechanism using Hand Movement Signals M Kavitha, Kancharla Venkata Umesh, Karthik Velaga, Jayanth Anjani Naga Krishna Jallipalli, Pachipala Yellamma	1167
198	Frontal Face Landmark Generation using GAN Avhi Poddar, Surabhi Gawade, Prasad Varpe, Sumedha Bhagwat	1172
199	Smart Vision based Assistant for Visually Impaired Durga Shanmukhi Kunapareddy, Naga Pavan Kumar Putta, Viswanath Anand Maddala, Ranjith Kumar Bethapudi, Siva Reddy Vanga	1178
200	Identifying Rotten Region on the Plant Leaf in Advance to Increase the Crop Yield using Multinomial Probit Regression Anveshini Dumala, Anusha Papasani, Rajeswari Bommala, Vikkurty Sireesha	1185
201	Social Media Application for Specially Challenged Nishchal Jagadeesha, Navya Priya N, Pratiba D, Ramakanth Kumar P	1193
202	Intelligentization of Landscape Bamboo Buildings based on Visual Data Transmission and 5G Communication Yukai Ke	1198
203	Design of Virtual Simulation Design System for Building Equipment Installation based on Data Cluster Technology Jiamin Zhao	1202
204	Data-Based Cognition and Intelligent Communication Algorithm of Tourist Destination Image Under the Internet Background Sheng Sun	1206
205	Design and Analysis of Modified Truncated Flexible T Shape Patch Antenna with DGS for 5G and IoT Application MD. Ayaz Ali Khan, Sandeep Kumar Shukla, Saima Khan, Pranay Yadav	1210
206	Attribute based Access Control Model for Electronic Health Record K. Gurunathan, G. Arun, B. Karthick, R. Srikathirvel, S. Sugi	1217
207	Design and Numerical Simulation of RF Antenna for Bio-Medical Application Karthikeyan K, Kishor A, Karthikeyan P, Karthikeyan S	1222
208	Underwater Communication using Li-Fi Next-Generation Network Vivek C, S. Dharani, P. Indumathi, T Rani	1228
209	Design of Narrowband Truncated Rectangular Antenna for Breast Cancer Detection S. Kalaivani, T. D. Subha, K. Sushmitha, D. Rajalakshmi, S. H. Abdul Hakeem, D. Kalaiselvi	1234
210	Sustainability Analysis of Landscape Bamboo Architecture Status based on Multi-Sensor Network and Telematics Transmission Under the Background of	1239

	Carbon Neutrality Bo Liu	
211	Intelligent Hybrid Low Energy Adaptive Cluster Head Selection Algorithm for Effective Data Communication in Underwater Sensor Network Majitha. A, Chitra Evangelin Christina, Gifta Irine Sophiya. T, Archana. M	1243
212	Research on Informatization Module of College Renovation Project Management based on Positioning System and Height Sensor Network Yipin Ling, Jinbei Wang, Cong Huang	1252
213	Scalable, Opportunistic, Energy Efficient Routing (SOEER) - A Novel Clustering Approach for Wireless Sensor Networks V. Poornachander, V. Dhanalaxmi	1256
214	Intrusion Detection in Wireless Sensor Networks using Optics Algorithm N. Dharini, J. Sowndharya, P. Sudha	1265
215	Intelligent Optimal Gated Recurrent Unit based Malicious PDF Detection and Classification Model P. Pandi Chandran, Hema Rajini. N, M. Jeyakarthic	1273
216	A Review on Edge-Computing: Challenges in Security and Privacy Bhagwati Sharan, Anil Kumar Sagar, Megha Chhabra	1280
217	Prevention of Man in the Middle Attacks on Electronic Health Records over Internet, using Block Chain Kommanaboyina Venkata Nikhil, Sreevidya B	1287
218	A Study about Detecting Ransomware by using Different Algorithms A. Bertia, S. Basil Xavier, G. Jaspher W. Kathrine, G. Matthew Palmer	1293
219	A Critical Analysis of the Blockchain Technology and its Applications Vandana Devi, Avinash Sharma	1301
220	Problems of Information Security in the System of Distance Education Dilsora Fayzieva, Shakhnoza Tashmatova, Dilbar Karimova	1306
221	A Novel Framework for Secure Blockchain Transactions Sk. Khaja Shareef, R. Sridevi, V. Rama Raju, K. S. Sadasiva Rao	1311
222	Fraudulent Information Prediction using Block Chain Technology and Machine Learning Ramasamy V, Saranraj K R, Mahibaala V, Sabari Manikandan M, Mohanraj B	1319
223	A Fog Computing Architecture Integrating Blockchain and Internet of Things for Securing Bank Accounts Arunprathap S, Nithya R, Nivetha S	1326
224	Re-encryption Model for Multi-Block Data Updates in Network Security Devaki. K, Leena Jenifer. L	1331
225	Sidechain : A Scalable Blockchain Divya. K, Maya Mohan	1337
226	Supply Chain Dapp using Blockchain and Microfinance Ravi Sridharan, Linda Joseph, Thangakumar Jeyaprakash, Sriram Likith Kumar, Mandalapu Sanjana	1343
227	Blockchain Technology:- A New Technology for Creating Distributed and Trusted Computing Environment Amit Kumar Tyagi, Saravanan Chandrasekaran, N Sreenath	1348
228	Detection of Phishing Attacks using Visual Similarity Model Radhika Paturi, L. Swathi, K. Sai Pavithra, R. Mounika, Ch. Alekhya	1355
229	A Comprehensive Network Security Management in Virtual Private Network Environment Srinivasa Murthy Pedapudi, Nagalakshmi Vadlamani	1362

230	Incorporation of Block Chain Technology for Better Operational Management within Medical Industry Vijaya Marakala, Prasannan. D, Dillip Kumar Parida, Made Susilawati, Zaure Aimagambetova, Erry Yulian T. Adesta	1368
231	Similar Neighborhood Search and Key-Point Clustering in Forgery Detection Murugan A, Mohammed Arsath A, Anandaraj M, Naveenkumar M	1375
232	An Efficient Cryptography VLSI Design for Data Security Sudhakar. K, Gowsikaa. S, Karishma. G, Ponragavi. K	1381
233	Decentralized Online Voting System using Blockchain Lalitha V, Samundeswari S, Roobinee R, Swetha Lakshme S	1387
234	Cutting Edge Technologies for Improved Cybersecurity Model: A Survey Seetha Srujana, Pinnapureddy Sreeja, Gunti Swetha, Hariharan Shanmugasundaram	1392
235	Application of Blockchain Technology in Healthcare: A Systematic Review Shashank Chauhan, Harsh Kripal Singh Tanwar	1397
236	A Web Application for Tracing, Selling and Sustaining Ownership in Blockchain Enabled Art Marketplace Madumidha. S, Siva Ranjani. P, Deepak Kumar. V, Vandhana. U, Sree Varsinee. S, Sundari. P. S	1402
237	A Three-Level Gateway Protocol for Secure M-Commerce Transactions using Encrypted OTP S. Ramana, S China Ramu, N. Bhaskar, M. V. Ramana Murthy, C. R. K. Reddy	1408
238	Smart Verification System for Media File using Blockchain S. Shireen Siddique, N. Sabiyath Fatima	1417
239	Concrete Analysis of the Application of Data Encryption Technology in Computer Network Safety Limin Liu	1425
240	A Methodical Literature Survey on Block Chain- based Public Auditing in Cloud: Analysis on Performance and Door towards Future Scope Showri Rayalu Bandanadam, R. Prasanna Kumar	1429
241	Protection & Privacy Embedding Blockchain Established Fraud Detection Haritha. P, Kavitha. V, G. Manimala	1437
242	Enhancing Cloud Security with Hybrid Encryption P. Kavitha Rani, S. Sathiya, S. Sureshkumar, B. Arun kumar	1445
243	A Novel Holistic Safety System for Women using IoT P. Sakthi, S. Kavitha, N. Kanimozhi, M. C. Sudarini	1451
244	A Smart Door Lock Security System using Internet of Things Om B. Doshi, Hitesh N. Bendale, Aarti M. Chavan, Shraddha S. More	1457
245	A Review : Trust based Secure IoT Architecture in Mobile Ad-hoc Network Neha Khandelwal, Shashikant Gupta	1464
246	Automated Surveillance System using Raspberry pi Pallavi Mhaskar, Vaishnavi Lanjewar, Shweta Shambharkar, Sahil Bhude, Shankar Sharma, Monica Kalbande	1473
247	Women Safety System using IoT Sangeetha K, Lakshmi Devi R, Ananya A, Suvetha M M, Visshnu Priya R V	1477
248	Efficient Cryptography Integrated IoT Model for Data Security Management Syamala Bathula, K. Sreenivasa Rao	1481
249	Vermi-Composting using AI in IoT V. Baby Shalini, A. Uma Maheswari, C. Marimuthu, J. Jeshima	1489

250	Design of Air Pollution Monitoring System using IoT Varsha Julakanti, Sai Tarun Raj Soudaboiena, Krishna Chaithanya. J	1494
251	Edge-based Heart Disease Prediction Device using Internet of Things Ancy Jenifer, Getzi Jeba Leelipushpam Paulraj, Nithish Kumar K, Yuvaraj T, Alen G, Peter Rozario F, Ruben Amoli	1500
252	IoT Implementation and Impacts in Agricultural Sector Naveen Kumar K, Raj Kumar G V S, Praveen Kumar Sekharamantray, M Chandu Jagan Sekhar, Vandrasi Raja Kumar, Adarsh Kumar K	1505
253	IoT In Increasing Human to Machine Interactions in the Automobile Sector Erwin Komara Mindarta, D. Kavitha, Mahizharuvi Poongundran, R. Priyadarshini, M Sethu Ram, Magira Moldabayeva	1510
254	Enhancement in Quality of Services for an IoT based Wireless Sensor Networks Dinesh Anton Raja P, Arunkumar.K, A. Selvarani, P. Nithya	1516
255	IoT-based Vehicle Surveillance and Crash Detection System M. Kathiravan, A. Amrutha, M. Pavan Kumar Reddy, P. Harshavardhan Reddy, Muthukumaran Malarvel, S. Kavitha	1523
256	Machine learning based Authentication of IoT devices in Traffic Prediction for ITS S. Kavitha, Venkata Ramana Karumanchi, T. S. Rajeswari, Vijaya Chandra Jadala, S. Hrushikesava Raju, M. Kavitha	1530
257	Smart Home System using Voice Command With Integration of ESP8266 S Anjali Devi, M. Sitha Ram, Katakam Ranganarayana, D. Babu Rao, Venubabu Rachapudi	1535
258	Monitoring Ripeness in Fruits and Vegetables using the Raspberry Pi A. Jayalakshmi, L Poojitha Reddy, M Srikar Preetham	1540
259	Process of RO's Waste Water Reuse & Water Management in Society by using IoT Automation Ayush K Dudhpachare, Tanmay V Kuthe, Chaitanya V Lalke, Nikhil P. Wyawahare, Rahul Agrawal, Prema Daigavane	1546
260	An IoT-based Dam Water Level Monitoring and Alerting System R Senthil Ganesh, Sasipriya S, Gowtham Balaji M, Ashok Karthi G, Gokul Dharan S	1551
261	Innovative System for Water Level Management using IoT to prevent Water Wastage Snehal Sumit Gondkar, D. B. Pardeshi, P. William	1555
262	IoT based Covid Patient Monitoring System A. ArunRaja, M. Selvaganesh, Monisha. P	1559
263	A Review on Agriculture Monitoring Systems using Internet of Things (IoT) Keene Osupile, Abid Yahya, Ravi Samikannu	1565
264	Data Transmission on Direction based Routing for Upgrading Network Performance of IoT Devices for Wireless Sensor Networks S. Kamatchi, J. Vijay, R. Rajmohan, R. Indira	1573
265	Allocating and Routing Resources in an IoT Network with an Efficient Hybrid Optimization Approach Syed Umar, N Linga Reddy, Tariku Birhanu Yadesa, Tadele Debisa Deressa, Etana Fikadu	1580
266	VLSI Layout: Concept to Realization Malti Bansal, Riyanshi Arora, Ritvik Bharti	1590
267	Upper Limb Exoskeleton for Rehabilitation- A Study Pramod B M, Akhil V M	1597

268	Transmission of Video with Convolutional Coding in Cooperative Adhoc Networks Usha Padma, H V Kumaraswamy, Ravishankar S	1604
269	Smart Saline Level Monitoring System using Liquid Level Switch Contactless Sensor, NodeMCU and MQTT-S Kishore S, Abarnaa K P, Priyanka S, Sri Atchaya S, Priyanka P L, Nikhil Amala Jerrin J	1611
270	A Comparison of Oversampling and Undersampling methods for Predicting Air Quality in Metropolitan Region Deepali Javale, Pooja Pillai, Purvang Patel, Sushmita Jagtap	1615
271	An Integration of Various Virtual Environments to Overcome Claustrophobia using Virtual Reality Sharmikha Sree R, Meera S, Priyadharshini S, Priyadharshini S, Gayathri R	1621
272	Simulation of Single Phase New Multilevel Converter Topology for VSC based HVDC Grid Connected Offshore Wind Power Plant Shri Harsha J, L Sanjeev Kumar, Nagendra Prasad H K, Sowmya Anand	1628
273	Global Solar Radiation Prediction using Empirical based Models Mahima Sivakumar, S. Jeba Priya, M. S. P Subathra	1635
274	Health Insurance Premium Prediction using XGboost Regressor Chaparala Jyothsna, K. Srinivas, Bandi Bhargavi, Akuri Eswar Sravanth, Atmuri Trinadh Kumar, J. N. V. R. Swarup Kumar	1645
275	Research on a Visualized Trusted Computing Framework for the Electronic Structure of Indium Gallium Nitride Semiconductor Materials Tiansheng Zhang, Tao Pang, Fan Wu, Xiaoyi Li	1653
276	Video Image Denoising Method of Martial Arts Arena Competition based on Two-Way Coupled Diffusion Equation Bo Sun	1657
277	Microcontroller Implementation of the Maximum Power Point Tracking Technique for PV Systems Kavitha H S, Manohar B S, Spandana S, Shilpa Patil	1661
278	A DNN based LSTM Model for Predicting Future Energy Consumption Balraj E, Harini R M, Kavi Priya N, Sneha Prabha S B, Janani S	1667
279	Research on PLC DC Motor Speed Control System based on Quantum Fuzzy Control Algorithm Hongjuan Zhu	1672
280	Critical Review on Battery Management Systems Kandukuri Vishal Raj, Katuri Rayudu, Gurappa Battapothula	1676
281	Micro Cantilever Arrays Optimization and Analysis for Healthcare Applications Kaustubh Kumar Shukla, T. Muthumanickam	1681
282	Comparative Analysis of Different Materials for Gate-All-Around Nanowire FET Salman Saleem, P Vimala	1690
283	MPC and Fuzzy Logic Controllers Design for Biochemical Reactor Plant Sandeep Kumar Sunori, Mehul Manu, Shweta Arora, Pawan Agarwal, Amit Mittal, Pradeep Juneja	1694
284	Analytical Study of Functional Trends in Cardio Respiratory Activity Swetha.K, T. Jayasree	1699
285	A Comparative Study on Natural Disasters D L Padmaja, Sowjanaya Tammali, NaveenSai Gajavelly, K Sudheer Reddy	1704
286	Predictive Scaling of Elastic Pod Instances for Modern Applications on Public Cloud through Long Short-Term Memory	1710

	Bharanidharan. G, Jayalakshmi. S, P. Mayilvahanan	
287	Rectifying Mode Collapse in GANs Palveet Kaur Saluja, Vathana D	1718
288	A Comprehensive Review on Compressive Sensing Chandini Shaik, Ravi Raja A, Swapna Sindhu Kalapala, Chittimuri Sessa Lakshmi Nrusimhi, Sai Naga Devi Duth Kolusu, Phani Kumar Polasi	1723
289	A Novel Framework on Channel Estimation for Massive MIMO Systems Systems E. Anna Devi, V. Pushpa, P. Arivazhagi, D. Ruban Thomas	1728
290	Ensure Safety with Automatic Thermo-Checker Emayashri G, Harini R, Abirami S V, Benedict Tephila M	1734
291	An Electricity MCP Forecast based on Improved Cascaded Neural Network for Russian Wholesale Electricity Market Sunil Kumar Patel, G. S. Thakur	1738
292	Real Time Object Detection using Tensor Flow Radhika Paturi, T. Bhavana, P. V. N. Sunandana, R. Sriyothi, S. Meghana	1745
293	IoT based Air Pollution Monitoring through Telit Bravo Kit Arvind Vishnubhatla	1751
294	Internet of Vehicles based Pollution Control Analyser D. Kavitha, Arvind M, Ram Prasad J, Hemanth Reddy T, Nithish Raja K L	1756
295	Novel Epileptic Detection System using Portable EMG-based Assistance C. Bagavathi, Suvitha M, Swathi M Nair, Sruthi R	1762
296	Battery Management System using Sepic Converter with PV based EV R. Devi, Meenakshi. R M, Pathmesh. V. E, Raghul Karthi. B, Vimal Dharshini. M	1766
297	Analysis of TG Based Content Addressable Memory Circuits Gunampalli Manasa Lakshmi, Mohammed Salahuddin Mahmood, V. Kusuma, D. Khalandar Basha	1772
298	IQ based Phase Imbalance to Estimate the Channel Availability using Hybrid ML-MMSE Equalizer Amarsingh Feroz. C, Gifta Irine Sophiya. T	1778
299	Fault Detection and Analysis in Embedded SRAM for Sub Nanometer Technology Venkatesham Maddela, Sanjeet Kumar Sinha, Muddapu Parvathi, Vinay Sharma	1784
300	Role of Underwater Robots in Ocean Exploration Research Mahizharuvi Poongundran, Prasannan. D, J. Sandra Agnes, Saptorshi Das, D J Anusha, Dina Amandykova	1789
301	A Review on Machine Learning based Oil Adulteration Determination Techniques Sowmya natarajan, Vijayakumar Ponnusamy	1795
302	Automation of Shrink Bundling Machine using PLC in Paper Industry P. Sakthi, N. Sabarish, R. Tamilarasan, V. Youkendran	1802
303	Hybrid Pump Hydro-Photo Voltaic System for Agriculture Applications Konduru Vandana, Mucherla Supriya, Singampalli Sravya, Manitha P. V	1807
304	Water Pumping System using PSO-MPPT Algorithm based on Solar Photovoltaic S. Sumathi, T. Monika	1816
305	A Review on Power quality Improvement Issues using Different Controllers Techniques Prachi Sharma, Harvinder Singh	1823

306	IoT based Smart Air Pollution Monitoring System Piyush Devidas Potbhare, Ketan Bhange, Gaurav Tembhare, Rahul Agrawal, Swati Sorte, Prasad Lokulwar	1829
307	Electrical Network Performance Analysis in Presence of Electric Vehicles and Distributed Generation Rudresh B. Magadum, Avinash V. Deshpande, T M Hamasashree, Varsha Mohan Rathod	1835
308	Analysis of Converter Topologies for Wind Energy Conversion Systems Sujith S , Divya Banu. P, Maheshkumar N, M. Siva Ramkumar, M. Sivaramkrishnan	1839
309	Data Retrieval from RS-485 Implemented Energy Meter for Industrial Monitoring System A. S. Salunkhe, Y. K. Kanse, S. S. Patil	1848
310	A Novel PAPR Reduction Technique for FBMC-OQAM Systems for Future Mobile Communication P. Anusha, V Pushpa, P Arivazhagi, Nithya Dorairajan	1853
311	Natural Language Processing based Bug Categorization Gunalan P, Jaisenu V, Madumidha S	1859
312	Deep-Learning-Based Intelligent PotholeEye+ Detection Pavement Distress Detection System Shobana gorintla , B. Anil Kumar , B. Sai Chanadana , N. Raghavendra Sai, G. Sai Chaitanya Kumar	1864