2022 4th International Conference on Inventive Research in Computing Applications (ICIRCA 2022)

Coimbatore, India 21-23 September 2022

Pages 1-595



IEEE Catalog Number: ISBN:

CFP22N67-POD 978-1-6654-9708-4

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:
 CFP22N67-POD

 ISBN (Print-On-Demand):
 978-1-6654-9708-4

 ISBN (Online):
 978-1-6654-9707-7

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@proceed

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



4th International Conference on Inventive Research in

Computing Applications (ICIRCA 2022)

21-23, September 2022

Table of Contents

S. No	Paper Litte/ Author Name	Page. No
1	Design and Application of Distribution Automation System in Intelligent Circulating Power Supply System Management Chen Zhang	1
2	Path Selection of Freedom of Sea and Freedom of Navigation based on Finite Difference Time Domain Algorithm and Positioning System Yanan Qu	5
3	Electronic System Design and OpenGL Simulation of Digital Painting Art Intelligence Platform Xiangyang Xing	9
4	Microcontroller based Smart Tablet Dispenser (STD) for Elderly People Balaji V R, Vasim Hushain S, Sriram S, Venkatappan V	14
5	Modelling and Implementation of Out-Pipe Inspection Robot Rajendran Sugin Elankavi, D. Dinakaran, K. P. Nithish ram, V. Ramanathan, S. Jayarajan, Joshuva Arockia Dhanraj	18
6	A Conical Strip-Helical Antenna for Upper Mid-Band Spectrum of 5G Ashutosh Srivastava	24
7	Triple Cavity Backed SIW Slot Antenna for X-Band Mobile Communication and Applications Ashutosh Srivastava	28
8	DC Motor based Control of Cane Carrier Motor for Sugar Factory Sandeep Kumar Sunori, Vimal Singh Bisht ,Navneet Joshi ,Pawan Agarwal, Amit Mittal, Pradeep Juneja	33
9	Summary of Research on Electromagnetic Induction Heating Temperature Control Method under the Background of Internet Convergence Qun Dou	38
10	Automatic Pole Line Fault Detection System using Microcontroller Mahalakshmi G, Laxmana Perumal S, Mithunesh M, Parithi Adhavan T K, Prasanth R	42
11	An Improved Carbon Cloth Structure for Assymetric Supercapacitor Design Kavitha Hariraman, Dr.Janani Selvam, Mukil Alagirisamy, S. S. Sivaraju	48
12	Enhancing the Efficiency of Lung Disease Prediction Using CatBoost and Expectation Maximization Algorithms Sudharson D, S Oviya Retheneka, Yogeswari L, Logita S J, Shankari S, Noor Surraya S M	57
13	The Evaluation Data Mining of the Comprehensive Practice Platform of Single-Chip Microcomputer in Vocational Colleges based on the Intelligence of Skill Competition Assessment Zhiyou Chen	62

14	Design and Implementation of Intelligent Building Inspection Robot System based on ROS Shiliang PAN, Fuen ZHENG, Xinxin ZHOU, Shangyi ZHENG, Yanxing LV	66
15	Design and Implementation of Intelligent Writing Robot Guowei Zhang, Wang Shao, Chengxin Li, Xinxin Zhou	74
16	Implementation Architecture of IEC 60870-5-103 Communication Protocol on Arm Platform Running on RTOS for Industrial IEDs Anargh Sudhakar, Rajendra C, Ashok S	80
17	Wavelet Local Binary Pattern (WLBP): A Novel Local Descriptor in Harsh Light Variations Shekhar Karanwal	87
18	Dual Active Bridge DC-DC Converter with Improved Control Approach using Modified Control Strategy with Optimization Method Devarajan R, Sathish R, Meenachy P, Loganathan P, Selvam. P, Vinod Kumar D	93
19	Model Identification and Dead Time Compensation of Induction Motor Sandeep Kumar Sunori, Amit Mittal, Mehul Manu, Pradeep Juneja	97
20	Area and Power Efficient Design of Novel Karatsuba Double MAC (K-DMAC) Amgoth Laxman, N. Siva Sankar Reddy, B. Rajendra Naik	103
21	Three Phase Buck Boost Converter with PFC for Indian Rails Suraj D, Somasubharna K, Hayma Varshine Y, R Gayathri	109
22	Design and Development of Grass Cutter using Solar Renewable Energy Source Divya Dharshan K, Kishore Kumar D, Thirukumaran S, Brindha Sakthi B	113
23	A Smart Voltage Control Strategy using SEPIC Converter for DC Microgrid Arish T, Janani R, Revathy T, Jitha Varghese	118
24	A Review on Electric Vehicle Charging System based on the Renewable Energy Sakinala Govardhan, Ratan Singh Atkar	123
25	Construction of Calculation Reliability System for Intelligent Power Transmission Operation and Maintenance Strategy Zhimei Cui, Wenping Xu, Peng Liu, Zhidu Huang, Yubo Zhang, Tao Wei, Zhoupei Qin, Jie Tang, Yubin Feng	128
26	Design and Development of Multi-dimensional Display and Management Platform for Transmission Lines Zhimei Cui, Wenping Xu, Peng Liu, Zhidu Huang, Yubo Zhang, Tao Wei, Zhoupei Qin, Jie Tang, Yubin Feng	133
27	3-Stage LNA for High Gain L1 Band Applications using 180nm CMOS Technology Arshyan Siddiqui, Abhishek Singh Rajawat, Arpit Rathi, Gaurav Mehra	137
28	Load based Fuzzy Controller for Bipolar Stepper Motor Edwin Emanuel Rajan S, C H Karthi, Ramya R, T Anuradha	141
29	Design of 24 Watts SEPIC DC-DC Converter for Renewable Source Applications P. Parthasarathy, G. J. Ragul Dayananth, B. Umeshwaran, R. Murugan	146

30	Medical Robot Docking System Aaron Peter, Sooriyanarayana B, Mithun S, Suganya A V,	150
	Suhail Ansari T A	100
	The Design and Fabrication of Smart Surveillance Robot	
31	C Thirumaraiselvi, Sankara Subramanian R S, Janani R, Kavya Dharshini	155
<i>J</i> 1	M, Keerthi G	100
	Study on Intelligent Facial Expressions of Humanoid Robot	
32	Aravind Swaminathan, Surendran R, Joel Benjamin J, Jaswant V	161
	Design of Energy Efficient LVCMOS based Vending Machine and its	
33	Implementation on FPGA	168
	Anupam Yadav	
	Optimizing Leakage Current and Fluctuations at Ground Rail in 1-bit 8T	
34	Full Adder Circuit Using Various MTCMOS Techniques	174
	Anupam Yadav	
	Novel Approach for the System Identification of a Non linear Industrial	
35	Process	180
	Indumathi S K, Uppu Ramachandraiah	
	Microcontroller based Engine Control Unit for UAV Application	
36	Akshatha G K, Arfah Aadil, Baghyasri B, Vaibhav Vijay Kubal, Sharmila	185
	K P	
	Web Content based Features for Malicious Web Page Detection using	
37	Machine Learning	189
	Pradeepa G, Devi R	
	Enhanced Electronic Voting Machine Performance with an E-Voting	
38	Website	194
	Nidhi Nagoju, Eaga Bhargava Chakravarthi, Ramesh Jayaraman	
	A Significant Feature Selection to Improve the Accuracy of a	
39	Classification Algorithm for Steel Defect	200
	K. B. V. Brahma Rao, G. N. R. Prasad, S. Amudha, Ashok Kumar,	
	DVSSSV Prasad, V. Mohanavel	
40	A Study on Deposition Rate and Thickness for ZnON Thin Films	207
	Anjana J G, Venu Anand Multi Polostic Poth Planning in a Static Environment	
41	Multi Robotic Path Planning in a Static Environment	211
	Sandeep S Nair, Supriya P Spatial Feature Extraction based EEG Stress Detection System :Review	
42	Komal R. Hole, Divya Anand	218
	Analysis and Performance of Solar Photovoltaic Energy System in India:	
43	Case Study	228
15	Shreyas Rajendra Hole, Agam Das Goswami	220
	Portable Thermoelectric Refrigeration System using Solar Energy	
44	S Rajasekaran, A Bharath Kumar Reddy, K Saiteja, P Rajesh, P Vikas Raj	235
	Intelligent Space Robots Integrated with Enhanced Information	
4.5	Technology and Development Activities	241
45	J. Arockia Venice, Kiran Kumar Thoti, H. Mary Henrietta, Muniyandy	241
	Elangovan, D J Anusha, Aliya Zhakupova	
	Impact of Bioinformatics Microarray Gene Structural Rate Analysis	
	(MGSRA) in Gene Therapy using Sequential Gene Pattern Matching	
46	(SGPM) for Preventive Medicine	250
	G. Indira Devi, Diksha Srivastava, Jami Venkata Suman, Prima Dewi	
	Kusumawati, Nisha Rana, Benjamin Isaac Thomson	

47	Child Rescue System from Open Borewell using Robot S. Prabhavathi, Pallavi Nayaka B,Nagarathna, Shobha, Sneha Tambekar	257
48	Robotics and Automatics in Terms of Utilizing Rules-based Business Processes Sridhar Thota, Rinku Sharma Dixit, Moldir NURPEIIS, Dillip Kumar Parida, Aigul Iissova, Ardak Nigmetova	261
49	Design of Microstrip Patch Antenna for the Detection of Malignant Tumor Asha Banu S M, Niresh Kumar K, Mohamed Faizal M, Murugananda Sri Sabari Vasan S	267
50	Machine Learning Approach to Design Fractal Antenna for 5G Applications Mallikharjuna Rao Sathuluri, R. Sahithi, P. Nikita Sri, K. Arshitha	275
51	A Compact Meander Infused (CMI) MIMO Antenna for 5G Wireless Communication M. Jeyabharathi, K. Jayanthi, D. Kumutha, Surendran R	281
52	IoT based Women Safety and Security Analysis SK. Ayesha, G. Shivani, E. Harika, N. Akhila, B. S. Kiruthika Devi	288
53	Traffic Management Scheduling using Image/Video Processing for Smart Cities K. Venkata Rama Durgaprasad Reddy, R. Shanmukha Priya, Pankaj Singh, V Ravi Kishore, B. S. Kiruthika Devi	295
54	Stress Prediction and Detection in Internet of Things using Learning Methods Rayavarapu Jahnavi Pramodhani, Pantena Sai Sivani Vineela, Varanasi Sai Aseesh, KNSL Kumar, B. S. Kiruthika Devi	303
55	IoV Enabled Route Optimization Technique for Combat Vehicles Alok Nath Pandey, Piyush Agarwal, Sachin Sharma	310
56	Design of a Smart Home Automation System D. Ruth Anita Shirley, Sibi. T, Praveen. S, Ragul. B	318
57	Smart Farming based on AI, Edge Computing and IoT Gireesh Kumar T, Kowtharapu Venkata Shashank	324
58	IoT based Automatic Temperature Detection for Covid Prevention Visvesvaran. C, Karthikeyan. N. K, Lokesh. R, Mithra R. V, Nethesvar Ratnam. V, Nethra J	328
59	RFID based Intelligent Transport System with RSU Communication for Emergency Vehicles in Urbanization Gurpreet Kaur, Garima Kamboj	333
60	IoT based Smart Dustbin for Waste Management S. Elam Cheren, Sampriti. G, Subasree. T, Sumetha. M, Swetha. V	339
61	IoT based Ocean Acidification Monitoring System with ML based Edge Analytics Gopika K V, Nitin Kumar M, Maneesha Vinodini Ramesh	345
62	IoT based Approach to Estimate the Vacant Seats Available Uma S, Arun Balaji T S R, SriKrishna V, Ghousiya Begum K	354
63	Intrusive Energy Management with Advanced Smart Metering and Monitoring using IoT Selvam. P, Ramakrishnaprabu G, Senthilkumar. K, Sathish R, Devarajan R, Loganathan P	359

64	A Novel Image Processing System to Recognize and Classify Images using Integrated Advanced CNN and FPGA for IoT based Applications P. Rajyalakshmi, S. Sathappan, M. Jyothi Rani, N. Srinivas, M. Kiran Kumar	365
65	Innovative Turned and Collaborative Technology using Simulated IoT Applications L Maria Michael Visuwasam, Ankur Kumar Gupta, Rachna Chaudhary, Subhash Chandra Gupta, Pankaj Borah, M. Kalyan Chakravarthi	369
66	Error Rate Analysis of NOMA Inspired DF Relay System with Imperfect SIC in IoT Network P. Bachan	375
67	Health Data Accessibility Method using Smart Card in IoT Pooja S, Tamilvizhi T, Prethy M, Jayarani R	381
68	Analysis of Machine Learning Model for Anomaly and Attack Detection in IoT Devices Puneet Kumar Yadav, Arun Kumar	387
69	A Smart-Dustbin and Integration of Waste Management System using IoT G. V. V. S. L. Rupesh, Mopidevi Sai Advytha, Nammi Bhanu Prakash, Varsha Sahu, Amit Gupta, Shashi Kant Dargar	393
70	Self-Configured Energy Efficient Protocol for IoT Enabled Underwater WSNs N. Kapileswar, P. Phani Kumar	398
71	Investigations on Improving Drivers' Safety using Artificial Intelligence and Internet of Things Preetham M, Pravinth Raja, Sapna R, Vidhya Banu, S. S. Sivaraju	404
72	Modelling a Dense N Model for Anomaly Prediction in IoT Environment Mohan Kumar Chandol, M Kameswara Rao, Chandra Sekhar Kolli	410
73	A Review of Effort Estimation in Agile Software Development using Machine Learning Techniques Sandeep Kumar, Mohit Arora, Sakshi, Shivali Chopra	416
74	An Efficient and Robust Deep Learning Approach to Predict Air Pollution by Employing Long Short-Term Memory Srinivas Nagineni, Chandra Sekhar Kolli, Hemachandra Gudimindla, Nayani Sateesh, Chockalingam Alagappan, Urmila R. Pol, Siva Ramkumar M	423
75	IoT based Garbage Classification and Monitoring System Yogita S. Pagar, Praful V. Nandankar, K. B. V. Brahma Rao, Siddhartha Choubey, Jeevanantham Arumugam, Jacinth Salome, Sivaramkrishnan M	429
76	Smart Helmet using IoT for Alcohol Detection and Location Detection System Gurpreet Singh Chhabra, Monika Verma, Khushi Gupta, Abhinandan Kondekar, Siddhartha Choubey, Abha Choubey	436
77	IoT in Monitoring and Improving Manufacturing Process in Manufacturing Industry Geo Paul K, Suraj. E. S, N. Rajendran, Amardip Diwakar Kurukwar, Hendy Tannady, Yogesh Katkamwar	441
78	Detection of lanes and objects using deep learning techniques Paila Girish Sai, Sunkollu Sai Chandu, Sogani Chandrika Aishwarya, Velagapudi Revanth, G Geetha	445

79	Research on the Stability of Multi-Center Platform for Higher Vocational Training based on Multi-Base Station Collaborative Communication Technology Yuxia Zhou	451
80	The Application of Dynamic Random Network Structure in the Modeling of the Combination of Core Values and Network Education in the Propagation Algorithm Lan Ming	455
81	COVID-19 Diagnosis with Hyperparameter Optimization using Mixture Density Network (MDN) and EMADE Swetha V. Sarma, S. Chitrakala	459
82	Device to Device Communication in 5G Network using Device-Centric Resource Allocation Algorithm Chandrashekhar Goswami, Anupam Das, Karrar Imran Ogaili, Vivek Kumar Verma, Vijay Singh, Dilip Kumar Sharma	467
83	Analysis of SEA-based MANET Routing Protocol for Improved Firefly Energy Optimized Routing Morukurthi Sreenivasu, Badarla Anil	473
84	Improved RSSI based 3D Localization for Indoor Wireless Sensor Network Sookshma M Kumar, Somnath Sinha	478
85	Energy Optimization and Optimal Routing Protocol in Wireless Sensor Networks C. Kaushik, J. Vibhath, L. Nagamani, Podduturi Ashish Reddy, Posanpally Bhavik Reddy	484
86	Multicasting: A Game-Theoretic Method for Constructing an Efficient Multicast Tree Sumit Kumar, Ruchir Gupta, K Lakshmanan	490
87	Offline RSSI based Object Detection in 802.11 Akash K H, Akhil K M, Somnath Sinha	497
88	RSSI based Device Monitoring with IEEE 802.15 in Wireless Sensor Network Rahul N Biju, Akhil K M, Somnath Sinha	503
89	RSSI based Localization and Evaluation using Support Vector Machine Ajay Madhav, Akhil K M	509
90	Resource Aware Data Collection based on Node Relay Configuration in Wireless Sensor Networks Asha N, Syed Fiaz A S, Jayashree J, Vijayashree J	516
91	Network Intrusion Detection Algorithm and Simulation of Complex System in Internet Environment Jiyong Li	520
92	Design of Wireless Network Intrusion Detection Model and Research on Anti-Intrusion Algorithm for University Campus Network Wei Zhao	524
93	Multi-Bit Collection and Hierarchical Classification Algorithm of Online Open Course Learning Behavior Data with Library Security Modeling Li Shen	528

94	Architecture Optimization and Core Code De-Redundancy of Educational Management Information System in Higher Vocational Colleges Under the Background of Data Governance Algorithm Xiang Mojun, Liu Tingmin	532
95	Efficient Wildlife Intrusion Detection System using Hybrid Algorithm Divya Meena, Hari Krishna P, Chakka Naga Venkata Jahnavi, Patri Lalithya Manasa, J Sheela	536
96	Design of Multi-Dimensional Security and Injury Prediction System for College Sports Lu Wang	543
97	Teaching and Learning based Optimization with Deep learning Model for Diabetic Retinopathy Grading and Classification R. Ramesh, S. Sathiamoorthy	547
98	A Strategy for Detecting Malicious Spam Emails using various Classifiers S Abhishek, Harsha Sathish, Arvind Kumar, Anjali T	554
99	Reliable Data Storage and Sharing using Block chain Technology and Two Fish Encryption S. Sivanantham, M. Sakthivel, V. Krishnamoorthy, N. Balakrishna, V. Akshaya	561
100	Fusion of Resource Sharing System Development based on Block Knowledge Management System and Hadoop Wenjie Wang	566
101	Detecting Malicious URLs using Lexical Analysis and Network Activities Amit kumar, Soumyadev Maity	570
102	DDoSNet: A Deep Learning Model for detecting Network Attacks in Cloud Computing Doddi Srilatha, N. Thillaiarasu	576
103	Design of Decentralized Online Guidance Platform for College English Translation based on Blockchain Networking Algorithm Jian Wang	582
104	Intelligent and Secured Medical System based on Remote Visual Operation Platform Haoran Gong, Yunhu Si	586
105	Realtime and Secure Online Event Voting Management System Swathi S, Kavitha, Sahithi D	591
106	Detection of Cyber Attack in Electric Vehicles using ALSTM based Machine Learning Jeevitha Kandasamy, Sumithara Arunagirinathan, Priyadharshini Sivaraj, M. Pameela, G. Tekeshwar Subham, Ramadevi Nagarajan	596
107	A Survey and Taxonomy of Anti-Phishing Techniques for Detecting Fake Websites Vijjeswarapu Abishek Heyer Krupalin, G. V. Sriramakrishnan, T. Daniya	601
108	Cloud based Smart Mobile Application for Women Safety Kannan Chakrapani, Lalit Kumar Sagar R, R C Ravindranath, K. Sivakumar, Sheetal Phatangare, K. S. Raghuram	605
109	An Efficient Parking Allocation Scheme based on K-Means Clustering Method Smrithii. R, Nithya. B, Y. Bevish Jinila, S. Prayla Shyry, R. Subhashini	612
110	The Computational and Symbolic Security Analysis Connections U Vinod Kumar, Sanjay Pachauri	617

111	Integrity Assurance Model (IAM) for Data Privacy and Preservation in Fog Computing Framework C. Sabarinathan, B. Baranidharan	621
112	Cloud Computing for Suitable Data Management and Security within Organisations Lusaka Bhattacharyya, Supriya G Purohit, Endang Fatmawati, Sunil D M, Zhanar Toktakynovna, G. V. Sriramakrishnan	630
113	Machine Learning based Comparison of Different Emotional Dimensional Models for Tamil Cine Music Pranav V. V, Supriya. P	635
114	Secure Host Login Technique based Key Agreement Protocol for Software Defined Network Aditya Bhardwaj, Hamza Mutaher	640
115	Early Detection and Classification of Plant Diseases / Abiotic Disorders using Deep Learning-A Review Suganya. J, Jebaveerasingh Jebadurai, Immanuel Johnraja Jebadurai, Getzi Jeba Leelipushpam Paulraj	646
116	Secured Cloud Application for Detection of Brain Tumor using Deep Learning Algorithms J. N. V. R. Swarup Kumar, G. Sri Jyothi, DNVSLS Indira, Tenali Nagamani	656
117	Detection of Varieties of Diseases in Rice Plants using Deep Learning Techniques Rakesh Meena, Sunil Joshi, Sandeep Raghuwanshi	664
118	A Study on Deep Learning based News Recommender Systems Niranjan Mahesh, Nikit Periwal, Namrita Kaur, Nirgund Manavendra P Jayaram, Asha Rani K P, Gowrishankar S	675
119	Logistic Regression based Machine Learning Technique for Phishing Website Detection Soumya.T. R, Ramesh P, N. Arockia Rosy, N. Pughazendi, S. Padmapriya, Rashmita Khilar	683
120	A Study on Machine Learning Techniques based Software Reliability Assessment Poorva Sanjay Sabnis, Shashank Joshi, J. Naveenkumar	687
121	Automated Short Term Load Prediction in Power Systems using Collision Bodies Optimization with MultiHead Deep Learning Model Manimekalai S, P. Yamunaa, R. Ashwini, V. Karthick, Amarendra Alluri, R B R Prakash, B. Jega Jothi	693
122	Impact of Computational Thinking in Engineering and K12 Education Deepak Singh Rana, Sushil Chandra Dimri, Preeti Malik, Shiv Ashish Dhondiyal	697
123	Deep Learning based Plant Leaf Disease Detection and Classification S. H. Annie Silviya, Sriman B, P. Baby Shamini, A. Elangovan, Monica A. R, N. V. Keerthana	702
124	Movie Recommendation System using Machine Learning Narendra Kumar Rao, Nagendra Panini Challa, S Sreenivasa Chakravarthi, Ranjana R	711

125	Software Defect Prediction using Cutting Edge Clustering Module and Machine Learning Prasheel Nandwana, Sushant Lenka, Pranav Khatri, Zoheib Tufail Khan, Divya Sakhare, Akshata Salunkhe	717
126	Fire Detection System using Deep Learning Techniques Srividhya S, Sindhu S, Sornalakshmi K, Hemavathi D, Rajaram V	721
127	Balance System Design of Landscape Sculpture and Urban Planning and Design based on Illumination Image Back Shadow Prediction Algorithm Jinliang Ni, Jian Zhang	727
128	Design of Fast Data Information Extraction Algorithm based on Deep Learning Technology Zhixin Xie, Yishi Yang, Ying Ma	731
129	Heart Disease Prediction using Interquartile Range Preprocessing and Hypertuned Machine Learning Kawser Rashid, Md. Ashraful Islam, Rakib Ali Tanzin, Md. Lutfullahil Labib, Musharrat Khan	735
130	A Comparative Study of Machine Learning Techniques for Diabetes Prediction Syed Abdul Basit Andrabi, Inderjeet Singh	741
131	An Image based Air Quality Analysis using Transfer Learning Algorithms K. Mekala Devi, G. Joselin Retnakumar, G. Kavya	746
132	Weed Identification and Removal: Deep Learning Techniques and Research Advancements J Justina Michael, M. Thenmozhi	754
133	Deep Learning based Recognition of the Indian Medicinal Plant Species Shashank M Kadiwal, Venkatesh Hegde, Shrivathsa NV, Gowrishankar S, Srinivasa A H, Veena A	762
134	Machine Learning based Omnifood: Nutritional Meal Drop R Murugeswari, Nikhil Reddy Hamsanipally, Likhil Srinivas Sure, Jaipal Molligari, Pawan Kumar Reddy Yanamala	768
135	Brain Stroke Prediction using Deep Learning: A CNN Approach Reddy Madhavi K, Karthik Kovuri, Avanija J, Sakthivel M, Shivaprasad Kaleru	775
136	A Deep Learning Approach in Detection of COVID-19 Positive Patients using CT Scan Images Suraj Sharma, Ranjeet Kumar Singh	781
137	A Survey on Machine Learning Approaches used in Breast Cancer Detection Guru Maheswari M, Sriramakrishnan P	786
138	University Indoor Scene Classification using Transfer Learning Dipak Ramoliya, Parth Goel, Jinish Vaidya, Poojan Vadaliya	793
139	A Professional Strategy for Bitcoin and Ethereum using Machine Learning for Investors Joel Benjamin J, Surendran R, Sampath T	798
140	Profile Similarity Recognition in Online Social Network using Machine Learning Approach Soumya.T. R, S. Solai Manohar, N. Bala Sundara Ganapathy, Leema Nelson, A. Mohan, M. Thurai Pandian	805
141	Machine Learning based Machine Reading Comprehension - A survey Mimansha Singh, Vrinda Yadav	810

142	Sentiment Analysis to Review Products based on Machine Learning Sumit Saha, Aishik Sett, Samit Karmakar	816
143	Design Feature Selection and Classifiers for Hybrid Feature Selection - Particle Swarm Optimization (HFS-PSO) Kumar Siddamallappa U, Nisarg Gandhewar	822
144	COVID Detection using Deep Learning M. Jagadeeswari, S. Padmapriya, Shri lalitha G, Suvetha S, Sharmila D	827
145	Image Classification of Ornamental Plants Leaf using Machine Learning Algorithms Aparna Ojha, Vipin Kumar	834
146	Study of HRV Parameters for Detection of Stress using Machine Learning Dhiviyalakshmi. L, Jose Maria. J, Chrisca. J, Devadharshini. V, Niranchana. G, Amritha. S	841
147	A Systematic Review of Machine Learning Approaches for Classifying Indian Sign Language Gestures and Facial Expressions Manpreet Singh Bajwa, Geeta Chhabra Gandhi	848
148	Heart Attack Prediction using Machine Learning Janaranjani N, Divya P, Madhukiruba E, R. Santhosh, R. Reshma, D. Selvapandian	854
149	Deep Learning based Fault Detection in Power Transmission Lines T. Sathish Kumar, Radhey Shyam Meena, Mani P. K, S. Ramya, K. Lakshmi Khandan, Arshad Mohammed, Siva Ramkumar M	861
150	Machine Learning based Mobile Applications for Autonomous Fertilizer Suggestion S. Raviraja, Raghavender K V, Prashant Sunagar, R. K. Ragavapriya, M Jogendra Kumar, Bharath V G	868
151	Diabetes Prognosis using Machine Learning Aravinda Raman J, Rakshan Kotian	875
152	Detecting Space Debris using Deep Learning Algorithms: A Survey Piyush Jharbade, Manish Dixit	883
153	Brain Tumor Classification using Deep Transfer Learning CNN Models Yajuvendra Pratap Singh, D. K. Lobiyal	891
154	Electroencephalogram Data Analysed Through the Lens of Machine Learning to Detect Signs of Epilepsy J. Rajalakshmi, S. Siva Ranjani, G. Sugitha, S C Prabanand	898
155	Review on Crop Yield Prediction with Deep Learning and Machine Learning Algorithms K Ajaykumar, S. Madhavi	903
156	Energy Efficient Mobile Cloud Offloading for Image Processing Applications using Transfer Learning M. Thirunavukkarasu, P. Shanmugapriya	910
157	Deep Learning and Internet of Things (IoT) based Industrial Automation and Human Error Reduction B. Srinivasa Rao, Madan Mohan Gupta, Sheikameer Batcha S, Sonia Katherin Mathew, M Sethu Ram, ZhanerkeImanbayeva	917
158	Malicious Attacks Detection using Machine Learning Chakravarma Sai Tejaswi, Yemireddy Chaitanya, Jesudoss A, Prayla Shyry	924

159	Impact of Machine Learning on the Productivity of Employees in Workplace Rulyanti Susi Wardhani, Kamal Kant, Anusha Sreeram, Monica Gupta, Erwandy Erwandy, Pranjal Kumar Bora	930
160	Use of Deep Learning Application in Medical Devices Vijaya Marakala, G. V. Sriramakrishnan, Geethamanikanta Jakka, Chetan J. Shingadiya, Hesti Prawita Widiastuti, Geovanny Genaro Reivan Ortiz	935
161	EDA and its Impact in Dataset Discover Patterns in the Service Sector Harinakshi, Lydia Anjali. A, Mahizharuvi Poongundran, Syeda Masarath, P. Vivek Karthick, Inna Mikhailovna Zayats	940
162	Analysis and Prediction of Stock Market Movements using Machine Learning Vivek Bhardwaj, K. Venkata Rahul, Mukesh Kumar, Vikas Lamba	946
163	Study on Machine Learning Techniques used for Agricultural Yield Estimation Manasa C M, Blessed Prince, Pavithra N	951
164	Novel Multi-Channel Energy Harvesting Scheme for Dynamic Resource Allocation in Mobile Edge Computing systems M Ragasriswathi, S Nithya Kalyani, G Singaravel	956
165	Deep Learning and Machine Vision based Robot for Fire Detection and Control M. Benedict Tephila, P. M. Aswini, S. Abhinandhan, K. K. Arjun	965
166	Multi-Programming Implementation of Online Education Platform for Postgraduates based on Cyclic Graph Analysis Yue Yuan	971
167	Image Preprocessing Techniques in Skin Diseases Prediction using Deep Learning: A Review Anu V Kottath, SV Shri Bharathi	975
168	A Comparison on Feature Selection Methods using Machine Learning Algorithms for Improving the Performance Parameters of RPL-based IoT Attacks Classification P. S. Nandhini, S. Kuppuswami, M. Harish, S. Gomanishwaran, S. Bharani	981
169	Kidney Stone Detection using Deep Learning and Transfer Learning Sesha Vidhya S, Sivalakshmi P, Shanthi K G, Vishmitha D, Vineesha Chowdary, Yamini M, Yoshika K	987
170	Melanoma Detection and Classification based on Dermoscopic Images using Deep Learning Architectures – A Study Nancy Emymal Samuel, Anitha J	993
171	Machine Learning Technique for Improvised and Automated Diagnosis of Soft Tissue Tumor Keerthana S, Dinesh Kumar J R, Priyadharsini K, Pavithra M, Pavithra D	1001
172	Supply Chain Construction and Optimization Model based on Grid Computing and Process Data Mining Algorithms Mei e Xie	1008
173	Development of an Environmentally Friendly IA Building Energy-Saving Machine Robot with Computer Vision and Data Mining Algorithms Zhao Dong, Yunpeng Hu, Xin Chen, Min Li, Qingling Qiu	1013

174	Design of Library Information Retrieval System based on Internet and Information Flow Mining	1018
175	Haiyan Xun Research on the Evolution Path of Big Data Service Ecosystem based on Data Mining Peipei Hou	1023
176	Network Dynamic Communication of Recruitment Channels in Expanding Talent Introduction in Colleges based on Intelligent Information Mining and Push Algorithm Yue Lu	1027
177	Professional Talent Training Strategy based on Data Heterogeneous Mining: Analysis from the Perspective of Data Cluster Lin Chen, Min Xie, Junru Ji	1031
178	Data Mining Framework of Public Sports Budget Performance Evaluation Index Based on Smart Data Transmission Algorithm Hongling Pan	1035
179	A Platform for Industrial Economic Data Collection and Comprehensive Mining based on System Stability Theory Pengwen Xiao	1039
180	Sentiment Analysis on Online Education During Covid Pandemic K. Chitra, D. Sivabalaselvamani, M. Pyingkodi, T. Madhumitha, P. Keerthana, S. Gopika Dharani,	1043
181	Fast R-CNN based Masked Face Recognition for Access Control System Ragesh N, Ranjith R, Sivraj P	1049
182	Tversky-RideNN based Feature Fusion and Optimized Deep RNN for Stock Market Prediction Nagarjun Yadav Vanguri, S. Pazhanirajan, T. Anil Kumar	1056
183	Computer-Aided Diagnosis of White Blood Cell Leukemia using VGG16 Convolution Neural Network G. Meena Devi, V. Neelambary	1064
184	Hand Gesture Recognition using AI Algorithm for Hearing Impaired Judy Flavia B, Kamali Priya P, Nayan Chandravanshi, Vaishnavi Amirtham M	1069
185	Personalized Fuel Assistance Recommendation System based on Artificial Neural Networks J. N. V. R. Swarup Kumar, Pooja Yakkala, Sindhu Pasupuleti, Poojitha Pagolu, DNVSLS Indira, Srikanth Gangula	1073
186	Enhancing the Resolution of Ancient Artworks using Generative Adversarial Networks Ashwini. R, Vani. R, Suvitha. S	1081
187	Speech Emotion Recognition: Features and Classification Models using CNN Sharmila. G	1087
188	Neural Networks based Object Detection Techniques in Computer Vision Jyothsna Cherapanamjeri, B. Narendra Kumar Rao	1092
189	Linear Regression and Artificial Neural Networks based Efficient Sales Forecasting Model with Increased Prediction Accuracy S. Ravi Teja Reddy, P. Malathi	1100

190	An Improved Temporal Pattern Analysis to Detect the Cotton Leaf Disease using Mobile Net and CNN D. Dinesh Babu, M. Nalini	1106
191	Comparison of Support Vector Machine and K-Nearest Neighbour Algorithm for Accurate text Classification Lathish. A, Devi. T	1110
192	Convolutional Neural Network-based Stage Wise Classification of COVID Affected Lung CT Images Prajwal M L, Monisha B L, Hemanth N A	1114
193	Detection of Brain Tumor using CNN Tapesh Kumar, Puneet Kumar Yadav, Vrinda Yadav	1121
194	Artificial Intelligence based Crop Recommendation System M. Jagadeeswari, C. S. Manikandababu, Kavya.S, Prasanna. R, Madumitha. S	1127
195	Seed Quality Prediction using Computer Vision and Convolutional Neural Networks M. Sobhana, Pranathi Dabbara, Girija Ravulapalli, Krishna Sahithi Kakunuri	1134
196	Design of an AI-enabled Crime Value Index Evaluation System for Geolocation based on Crime Data Analysis Prashant, Peeyush Jain, Saomya Choudhary	1139
197	Image Pre-Processing based Sign Language Recognition using Convolutional Neural Network Tamilvizhi T, Surendran R, Geetha Rani K	1145
198	Detection of Lymphoma from the Bone Marrow Microscopic Images using Convolutional Neural Networks Shantani K, Bhavisha G, Sanjitha C, Nagarathinam S, Kalaiselvi A	1151
199	Hand Sign Recognition using Deep Convolutional Neural Network Naveenkumar M, Srithar S. Ramesh Kalyan G, Vetrimani E, S. Alagumuthukrishnan	1159
200	Utilization of AI for Streamlining and Optimizing Credit Decision Process and Security Access Loan Risks in the Banking Sector G Divakara Reddy, Shweta Saxena, Eliza, K. Ruth Isabels, G. Rathnakar, UzakbayevTurar	1165
201	Review of Artificial Intelligent based Algorithm for Prediction of Polycystic Ovary Syndrome(PCOS) from Blood Samples P. Chitra, M. Sumathi, K. Srilatha, F. V. Jayasudha, S. Amudha	1172
202	Enhancing the Accuracy of Forest Monitoring Through AI to Reduce Carbon Footprint Ravindra Pandey, Diksha Srivastava, Rubar H. Dizayee, Alina Lobanova, Fazle Rabbi, Pankaj Ramesh Sutkar	1177
203	Spatio Temporal Convolutional Neural Networks based Brain Wave Analyzer V. Babyshalini, Iswarya S, Prakash Raj R, Pooja Shree A	1183
204	Reward-based Collaborative Learning Platform with Integrated AI-based Monitoring Abijith Prasanthan, Anand K S, Bharath Prathap Nair, Gautham Santhosh K, Rahan Manoj, Anjali T	1188
205	Water Quality Analysis using Artificial Intelligence Algorithms Jaswanth Reddy Vilupuru, Devi Chaitrasree Amuluru, Ghousiya Begum K	1193

206	A Comparative Study on Application of Artificial Intelligence for Quality Assurance in Manufacturing Aashish Arora, Rajeev Gupta	1200
207	Pothole Identification and Dimension Approximation with YOLO Darknet CNN M. Vasudev Rao, Satish Kumar Dubey, Abhishek Badholia	1207
208	COVID-19 Tweet Analysis using Deep Convolutional Neural Network (DCNN)-BERT Amit Dewangan, Anurag Sharma, Abhishek Badholia	1214
209	Leveraging Machine Learning To Predict Volcanic Eruptions by Function Neural Networks K. Shyamala, Y. David Solomon RAJU, Ch. Swarnalatha, D. Saidulu, M. Premalatha	1220
210	Future IoT Applications using Artificial Intelligence-based Sensors: Agriculture S. Venkatachalam, Peddinti Neeraja, S. Kavitha, B. Rajasekaran, G. Santhosh Kumar, Bibin K Jose	1226
211	A Complete Approach to Detect Rheumatoid Arthritis using CNN Ujval D R, Vignesh G, Vishwas K S, Gowrishankar S, Srinivasa A. H, Veena A	1230
212	Virtual Alphabet Recognition using Deep Convolution Neural Networks Nagendra Panini Challa, Sreenivasa Chakravarthi, Narendra Kumar Rao, Ranjana R	1235
213	Research on Design-Driven Product Development based on Disruptive Innovation and Feedback Modeling Data Yang Li, Kedi Xie, Yuxin Zhang	1239
214	Investigative and Analysis Guidance in Walking Pattern for Orthopedic Subjects Sashi Kumar G. P. S, Mahalakshmi. N, S. Ramkumar, Shreeja. D	1243
215	An Algorithm for Counting People using Dense Nets and Feature Fusion Puja Gupta, Varsha Sharma, Sunita Varma	1248
216	Intelligent System for Monitoring Line of Safety in Railway Platforms M. Kasiselvanathan, V. V. Teresa, K. Sangeetha, Arunraja A	1254
217	Intelligent Fall Detection System based on Sensor and Image Data for Elderly Monitoring M. Shilpa Aarthi, Sujitha Juliet	1259
218	Virtual Mouse to Enhance User Experience and Increase Accessibility S. Vasanthagokul, K. Vijaya Guru Kamakshi, Gaurab Mudbhari, T. Chithrakumar	1266
219	Optimal Information Dissemination Model for College Students' Network Interactive Platform Assisted by Big Data Repeated Mining Algorithm Jianhua Yang	1272
220	Auxiliary System of Red Tourism Resource Visualization for the Construction of Educational Integration Platform Under the Background of Mobile Image Collection Yajun Guo	1276
221	Oral Disease Detection from Dental X-Ray Images using Densenet S. Santhi, Chairman M	1280

222	Determining Energy Consumption in Heterogenous Cloud Computing by Usage of RMRECFS Workflow with Cost Confinement N. Praveen Sundra Kumar, S. Arjun, B. Dhivya, S. K. Shruthi Sri	1287
223	The Design of Multifunctional Online Travel Service Management Platform and the Implementation of MySQL Liqin Ling	1293
224	Thoughts on the Ethical Anomie of Artificial Intelligence Technology in News Dissemination: based on Intelligent Data Flow Tracking Technology Yu Zheng	1297
225	Morse code-based Communication System for Partially Paralyzed People K. Ghousiya Begum, L. Devasena, G. Aadhithya, S. Arunachalesh, G. Athreya	1301
226	An Investigation on Under Water Images of Hydroacoustic Environment using RLS Algorithm Balaji V R, Surabhi. P.S	1307
227	Application of Big Data Micro-Propagation Dynamic Sequence Mode in Education Informatization Transmission Dezhi Wen	1312
228	Automatic Mail Reception System for Patients to Identify Health Conditions S. Prema, Harshith. N, Heena Kousar, Malini K V, S Meenatchi, M Jogendra Kumar	1316
229	Research on the Application of Virtual Reality Technology in IELTS Teaching Under the COVID-19 Yuxiu Xue	1323
230	An Improved Fuzzy Clustering Method for Analyzing Clustering Quality in XML Web Data S. Sahunthala, Angelina Geetha, Latha Parthiban	1329
231	A Compact Literature Review on Stock Market Prediction Yalanati Ayyappa, A. P Siva Kumar	1336
232	Fervency: A Squashy Intrigue to Ascertain Emotions using Textual Categorization Suseta Datta, Poojarini Mitra, Pritam Kundu	1348
233	Aiding the Visually Impaired using Artificial Intelligence and Speech Recognition Technology S Abhishek, Harsha Sathish, Arvind Kumar K, Anjali T	1356
234	Combined Local Pattern (CLP): A Novel Descriptor for Face Recognition Shekhar Karanwal	1363
235	Counselors Use Social Networks to Build Intelligent and Clustered Theoretical Analysis of Leading Topics Yuanyuan Yang	1369
236	Rich Media and Virtual Cloud Service Platform Guide the Design of the Ideological Integration Guidance Platform for College Students Ranran Feng, Qinrui Hu	1373
237	Realization of Online Intelligent Platform Matlab of Three-Round Education Mechanism in Universities Under the Environment of Multi- Dimensional Information Technology Peixun Wang	1377

238	Data Statistics of Intelligent Monitoring Platform for Preschool Education Cultural Inheritance and Practice Resource Allocation based on Google Cloud Sharing Algorithm Yuping Shen	1381
239	A Lightweight Stemmer for Telugu Language Madri Vijaya Raju,M. Sreenivasulu	1385
240	Construction of Intelligent Detection System for Dissemination of College Students' Entrepreneurship Management System based on Fuzzy Network Information Feedback Analysis Algorithm Fang Lan	1389
241	Multi-Terminal Realization on Construction Engineering Safety and Quality Supervision Integrated Platform based on Real-Time Image Information Collection Network Li Zhao	1393
242	Computer-Aided Dance Training Evaluation Algorithm based on Skeletal Recognition Algorithm and Time Series Algorithm Ying Tian	1397
243	Impact of the Intelligent Control System in Assisting Humans Regarding Complex Information Processing Ambika R, Prashant Lahane, G.Kumar, Fazle Rabbi, Muhammad Anas Ma'arif, Mohmad Kashif Qureshi	1401
244	Research on Computer Model of Ceramic Design based on Complex Texture Image Matching Algorithm Xia He	1406
245	Intelligent Monitoring and Optimization of Ethnic Community Tourism Participation Behavior Analysis based on Remote Sensing Data Terrain Simulation Algorithm Jun Xiang	1410
246	Uses of Data Fusion Technology for Establishing Scalable Data Solutions in the Marketing Sector Farhad Khoshbakht, Jaskiran Kaur, Verawaty, Jarungjung Hutagaol, Samuel P.D. Anantadjaya, S. M. K Quadri	1414
247	Data Science System of Predicting and Detecting The Chikungunya Virus using Ensemble Techniques Bommireddy Vijay Kumar Reddy, Shail Patel, Anayna Singh, Nishant Singh, Sasanapuri Ranjit, Shreyas Dantkale	1420
248	Interview Performance Analysis using Emotion Detection Avanish K A, Aravind H, Naveen P Nair, Vivek A, Anjali T	1424
249	Analysis of Skin Cancer and Recent Technology used for Automating Disease Diagnosis Procedure Renith G, A. Senthilselvi	1428
250	A Web based-College Event Management System and Notification Sender J. R. V. Jeny, P. Sadhana, B. Jeevan Kumar, S. Leela Abhishek, T. Sai Chander	1434
251	Usage of Ensemble Regression Technique for Product Price Prediction Thupakula Bhaskar, S Arumai Shiney, S.Babitha Rani, K. Maheswari, Samrat Ray, V. Mohanavel	1439
252	Recognition of Impediments for Visually Impaired using Open CV Ganesh B A, Sreekumar N R	1446

253	Student Engagement Prediction in an E-Learning Platform Swathi. Y, Harshitha. L, Harshitha. N, Brinda	1452
254	Implementation of Data Analysis and Document Summarization in Social Media Data using R and Python D. Raghu Raman, S. Jayalakshmi, K. Arumugam, A. V. Athipathi Raj, D. Balaji, R. Brightsingh	1457
255	Human Activity Recognition using LSTM Architecture Devi D, Mohana Ranjini V, Lashmi Sruthy D, Jane Cynthia Juliet R	1465
256	Atelectasis, Cardiomegaly and Effusion Disease Prediction using Image Processing (Convolutional Neural Networks) Shanthi K G, Sivalakshmi P, Sesha Vidhya S, Sakthishree V, Jahnavi S, Sreemouna M, SrichandanaT	1470
257	Drug Efficacy Score Prediction using Signature based Approaches for Amyotrophic Lateral Sclerosis Disorder: A Review Devipriya S, Vijaya M S	1474
258	Smart Induction Motor Drive using Soft Computing Techniques and Cloud Platforms Navin Prasanna B, Nithyashri V, P V Sathyanarayana, Vikkas R B, S Sampathkumar	1482
259	Pix2Pix Generative Adversarial Network with ResNet for Document Image Denoising Pranjal Jadhav, Mayuree Sawal, Anushka Zagade, Prerna Kamble, Prajakta Deshpande	1489
260	Preserving Data Management Security through Fog to Cloud Computing Pranav M, Suresh K	1495
261	Analysis Framework of Comparative Literature Wisdom Model based on Cyclic Text Recognition Algorithm Yanan Wang	1501
262	Performance Comparison of Convolution Neural Networks on Weather Dataset Aravind S Raj, Anju S Pillai	1505
263	A Significant Improvement Approach towards the Detection of Autism Spectrum Disorder using Data Sciences Aditya Chaurasia	1511
264	Application of Virtual Operating Table in Imaging and Intelligent Analysis of Helicobacter Pylori in Patients with Peptic Ulcer Hui Zhang	1515
265	Face Recognition with Audio Output: An Aid for the Visually Impaired Khyati Morparia, Anushka Kanabar, Sachin Bhadoriya, Poonam Kadam	1519
266	Traffic Congestion Index Estimation for Road using Fuzzy Logic Bommireddy Vijay Kumar Reddy, Zoheib Tufail Khan, S. KeerthiNandan Reddy, Pranitha Reddy Sheelam, Syamala RajaReddy, Sushant Lenka	1525
267	Virtual Assistant for Automatic Emotion Monitoring using Perceived Stress Scale (PSS) Sriman B, S. H. Annie Silviya, Shriram S K, Sathish Kumar R, Shriya R, Sujitha A	1529
268	Speech Recognition based Assistant Bee: Vision to the Impaired Gurram Sunitha, Banda Prathima, Chintalacheri Charan Yadav, Adluru Sudeepthi, Chadipirala Lakshmi Charitha, V. Sreeramulu Berinath	1535

269	A Survey of Medical Image Processing and its Applications Archana. B, K. Kalirajan	1541
270	Application of Big Data Center Integration Algorithm in Abnormal Detection of College English Smart Classroom Jianwei Zhang	1547
271	Intelligent Algorithm for Judging Basketball Training based on Multi- Angle Attitude Data Image Acquisition and Morphological Analysis Ming Zhang	1551
272	Intelligent Recording System Coupled with Ex-Situ Poverty Alleviation, Relocation and Rural Revitalization based on a Comparative Analysis of Telemetry Databases Yu Zhang, Huihu Jin	1555
273	Utilization of Big Data Analytics for Risk Management R. Santhikumar, Karthikayani, Manoj Kumar Mishra, Sridhar Thota, Beschi I S, BP Mishra	1559
274	Facial Recognition Impact in Smartphone Sector Amaresh Jha, P. Sudhakar, Sharayu Ashishkumar Lokhande, Galina Ishodzhanova, K. Venkatrao, Aliya Zhakupova	1566
275	Network Construction of Real-Time Feedback System for Homestay Tourism based on Distributed Remote Sensing Monitoring Baohua Li	1572
276	Innovative Architecture of College Sports Online Training Data based on Cloud Backup of Remote Data Center Xiaofei Li, Juan Chen	1576
277	Sustainability of Wushu Sanda Dynamic Monitoring based on Abnormal Data Fusion Image Extraction Algorithm Mingyang Li, Yanchong Gu	1580
278	Supply Chain Data Management for Web Services S. K. Logesh, K. Kavin Mullai, S. Arun Kumar, A. Manikandan, G. Sakthi, B. Adithya	1584
279	A Comparative Analysis of Object Detection and Human Activity Recognition in Thermal Imaging P. Srihari, Jonnadula Harikiran, Bolem Sai Chandana	1590
280	MRI Image Response Modeling of the Impact of Data Mining and Physical Training and Competition on Students' Physical and Mental Health Li Li	1597
281	Multi-sensor Network Data Mining Platform for Problems in Sports Training Smart Phone and Feedback Information System Research Li Li	1601
282	Modeling and Intelligent Analysis of the Theoretical Framework of Multi- Angle Image-Assisted Physical Training based on Data-Oriented Physical Exercise Experience Miao Zhong, Cuiqin Li, Li Li	1606
283	Implementation of Smart Vehicle Accident Detection using Raspberry PI in Smart Cities Satish Kumar. D, Prithi Samuel, Giriprasad C, Vinoth Kumar K, Vishwanath Patil, Bharathesh Shiradoni, Selve V	1611

284	Optimization and Comparative Modeling of Technology English Automatic Translation Algorithms for Mobile Platforms	1615
	Haixia Liu	
285	Design of Online and Offline Hybrid Training Platform for College Sports	
	Based on Kinect and Motion Capture Algorithm	1619
	Chunyan Li, Yan Xu	
286	Intelligent Data Collection Platform for Spanish Translation Training	1623
	based on Word Semantic Matching Algorithm Xiaotong Sun	1023
	Quantitative Analysis of the Impact of Online + Offline Intelligent	
287	Evaluation of SQL Database Algorithm on Courses	1627
	Hu Tian	1027
	Information Framework of Students' Psychological Smart Guiding based	
288	on Converged Media Information Cluster Platform	1631
200	Jing Lu, Chongying Gong	1031
	Development of Online Large-Scale Platform for the Integration of Red	
289	Tourism Resources and Education in Mobile Sink Communication	1636
289	Environment	1030
	Jianfa Ding	
290	Multi Object Detection and Shadow Identification in Images: State-of-Art	1640
290	Sana Pavan Kumar Reddy, Jonnadula Harikiran, Bolem Sai Chandana	1040
• • • •	OIDCBMS: A Novel Neural Network based Intrusion Detection System	4 4
291	to Cloud Computing based on New Cube Algorithm	1651
	Doddi Srilathaa, N. Thillaiarasu	
	Identifying Lung Nodules on MRR Connected Feature Streams for Tumor	
292	Segmentation Srinivasa G, Divya Baliga B, Nalini Devi K, Devvret Verma, Poonkuzhali	1657
	Panneer Selvam, Dilip Kumar Sharma	
	Industry-University-Research Collaborative Information Sharing Cloud	
	Platform Assisting Human Decentralization Algorithm for Cross-border	
293	E-commerce	1662
	Rong Zhao	
	Real-time QoS Analysis of Mental Health Monitoring Guidance by	
294	Cognitive Psychological Remote Data Transmission System	1667
	Shuying Huang	
	Data Support Algorithm for Hybrid Guiding Reform of Stable Cloud	
295	Classroom based on Dual Disaster Recovery System	1672
	Ning Gao	
	Design of Real-Time Cloud Sharing Algorithm for Second Classroom	
296	Activities in Higher Vocational Education based on Intelligent Terminal	1677
<u> </u>	Equipment SHA Changiin, YII Man, I II Changang	
	SHA Chengjin, XU Man, LU Chenyang Distributed Synonysision Operation Algorithm of Sub-Commerce Burel	
297	Distributed Supervision Operation Algorithm of Sub-Commerce Rural Poverty Alleviation Model based on Meta-Block Settlement Modeling	1681
49 I	FENG Canjun	1001
	Multi-Mobile App Design Framework for Counselor Smart Education	
298	under the Background of Information Innovation Technology	1685
- /0	XU Man, LU Chenyang, Sha Chengjin	1002
299	Design of Energy Management System for College Campus	1.000
	J Ashwin, R Santhana Bharathy, U Satish Kumar, A Arvin Tony	1689

300	Modelling and Analysis of Underwater Surface using ENC Chart Visualization Bachau Prasad, Dilip Kumar Dalei, Rajesh M A, Narayan Panigrahi	1696
301	Research on the Stability of Intelligent Driving System based on Abnormal Data Detection Algorithm Xiaoyu Cheng	1701
302	Countermeasures for Improving the Physical Fitness of Art College Students based on Smart Bracelets and Big Data Wujun Liu	1705
303	Yoga Pose Classification using Angle Heuristic Approach Dev Kotak, Jay Desai, Rishi Shah, Parth Goel, Krishna Patel	1709
304	Sales Data Analysis and Prediction System for Big Mart using Deep Recurrent Reinforcement Principles T. K Thivakaran, M. Ramesh	1715
305	Augmented Reality Technology: Current Applications, Challenges and its Future Jaspreet Singh, Urvashi, Gurpreet Singh, Shikha Maheshwari	1722
306	Feature Identification based Automatic Sign and Photo Detection in a Document Pothula Venkata Sai Krithik, Madabhushi Tirumala Adarsh Raghavan, Kundeti Sai Pratyusha, Vasanth. K	1727
307	Prediction and Analysis of Cervical Cancer :An Ensemble Approach J. Avanija, Gurram Sunitha, K. Reddy Madhavi, S. Sreenivasa Chakravarthi, R. Hitesh Sai Vittal	1734
308	A Comparative Survey on Parts of Speech Taggers for the Marathi Language Ishita Tambat, Minakshee Narayankar	1740
309	Machine Learning based Recognition of Bangla Handwritten Characters Shahriar Alam Niloy, Tahmid Shahriar Bhuiyan, Faria Islam Leha, Shahriar Imon, Musharrat Khan	1748
310	Web based Assessment and Training Model for Dyslexia Dyscalculia Dysgraphia Dyspraxia ADHD & Autism Babu M, Shanthi K G, Arthi Devarani P, Santhosh Kumar S, Sanjay Kumar. S, Sanjay S, Ragasupraja S	1753
311	Analysis of Bio-inspired Optimization Algorithms in Feature Selection for Facial Expressions Recognition M. Jagadeesh, B. Baranidharan	1758
312	Detection of Facial Components Utilizing a Modified Version of the Viola-Jones Algorithm Shikha Suryavanshi, Akshay Dubey, Pratyush Sharma	1765
313	Analysis of Audio data and Prediction of the Genre using Novel Random Forest and Decision Tree V. Pavan, R. Dhanalakshmi	1773
314	Identifying Clinical Concepts in Unstructured Medical Records based on Disease Prediction using SVM in Comparison with Logistic Regression K. Yashika, P. Shanmuga Prabha	1778
315	A W-Net based Architecture with Residual Block for Liver Segmentation Alok Patel, Kumar Prateek, Soumyadev Maity	1783

316	Graphical User Interface for Classification of Diabetic Retinopathy using Image Processing T. Rajasekar, Albert Joshwa A, Deepa M, Kaaviya A I	1789
317	Mango Fruit Classification using Computer Vision System Akshatha Prabhu, Aswin Kumar K, A Abhiram, Pushpa B R	1797