

# **2022 International Conference on Edge Computing and Applications (ICECAA 2022)**

**Tamilnadu, India  
13-15 October 2022**

**Pages 1-570**



**IEEE Catalog Number: CFP22BV8-POD  
ISBN: 978-1-6654-8233-2**

**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:	CFP22BV8-POD
ISBN (Print-On-Demand):	978-1-6654-8233-2
ISBN (Online):	978-1-6654-8232-5

**Additional Copies of This Publication Are Available From:**

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

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

# **International Conference on Edge Computing and Applications**

**(ICECAA 2022)**

**13-15, October 2022**

## **Table of Contents**

<b>S. No</b>	<b>Paper Title/ Author Name</b>	<b>Page. No</b>
1	Exploration on IoT based Edge Cloud Computing Techniques for Improving the Patient Information Management System S. S. Saranya, N. Sabiyath Fatima	1
2	Interpretation of Students' Cultural Confidence and Design of Online Evaluation System from the Perspective of Cluster Big Data Ouyang Jing, Xiao Ying, Li Xue	6
3	Research on Information Education Platform based on Structured Big Data Assisted Cloud Computing Cuicui Chen	10
4	Construction of an Application-Oriented Undergraduate College Student Integrity Education Information System based on Cluster Big Data Analysis Algorithm Yingce Guo	14
5	Application of Data Guidance Site Generation Technology in the Cloud Platform Supporting the Construction of Subject Teams in Finance and Economics Applied Universities Luxi Li, Yuan Tian	19
6	Auxiliary Modeling of Online Intelligent System of Hotel Management Apprenticeship by SaaS-based Technical Skills Platform Wei Wang, Yanli Zhou, Ruiping Chen	23
7	Development of Data Center based on Cloud Computing Technology Zhixin Xie, Yishi Yang, Ying Ma	27
8	Cloud Computing in Automation Testing Visnu Sangar N, Lalit Mohan Saini, Harish Mohan	31
9	Design of Remote Platform for Higher Vocational Chinese Teaching based on Cloud Networking File Sharing Algorithm He Hongye	37
10	An Overview on Emerging Security Threats in Big Data Clusters and their Defenses Aviral Srivastava, Viral Parmar	41
11	An Adaptive Long-Short Term Prediction Model for Resource Management in Cloud Jay Kumar Pandey, Shameer A P, S. Sivakumar, Neelima Priyanka Nutulapati, S. Basheer Ahamed, Vinay Avasthi	50
12	Deployment of Disease Prediction Model in AWS Cloud S. Sivakumar, D Jayaram, Sumanth V, Vinay Avasthi, R. Dhanalakshmi, S Sandeep Kumar	56
13	Intelligent Interactive Platform Design of Internal Medicine Nursing Courses in Universities based on Internet Cloud Information Sharing Algorithm Xu-Hong Yang	63
14	Load Balancing in Cloud Computing using Mutative BFO Saurabh Singhal, Deepak Mangal	67

15	SaaS Service Architecture of Online System Platform for Engineering Project Management Teaching based on Computer Data Monitoring Algorithm Yuming Song, Yaqin Wang, Jian Fang, Heng Wang	71
16	Development and Implementation of Counselor Work Management Information System based on Hadoop and Distributed Data Backup Algorithms Libin Cui	75
17	Optimization of the PHP Interactive Interface of a College Online Educational Platform in a Quantum Heterogeneous Cloud Environment Weian Liang	79
18	Internet Cloud Platform Assists the Design of Electronic Information System for Economic Development and Government Governance Gan Liyong	83
19	Design of Student Ideological Daily Performance Management Information System based on Parallel Data Sorting Algorithm Qian Shi	87
20	SQL Data Cloud Integration of Sports Course Resource Sharing Service Platform Under the Background of Internet Information Integration Hongjun Ma	91
21	Local and Remote Fog based Trade-Offs for QOE in VR Applications by using CloudXR and Oculu Air Link Gabriele Maiorano, Gabriele Proietti Mattia, Roberto Beraldi	95
22	Integrated Cloud Security for Data Storage and Access Thalakola Syamsundararao, Dogga Aswani, Kaki Leela Prasad, Gurindaplli Rajesh Babu, Badugu Samatha, Nagarjuna Karyemsetty	102
23	Context Aware Fog-Assisted Vital Sign Monitoring System: Design and Implementation K. Revathi, T. Tamilselvi, K. Tamilselvi, P. Shanthakumar, A. Samydurai	108
24	Deployment Strategy using DevOps Methodology: Cloud Container based Orchestration Frameworks Shivaji Rao Lokhande, S Anupama Kumar	113
25	Industrial PC based Automated Store Management System Luis Cruz Govindapillai, Kiruthik Prakash J, Naveen Kumar D, Muneera Begum H	118
26	Robustness Analysis of Strategic Human Resource Management Information Platform based on SPSS Big Data Intelligent Debugging Algorithm Yuhuan Cheng	123
27	Construction of Digital Media Learning Platform based on Maya Modeling Data Storage and Restoration Ju Shen	128
28	Application of Gestalt Psychological Big Data Mapping Algorithm in CAD Realization of Architectural Design Fingerprinting Software Xiaomei GAO, Xiyin MA	132
29	Application of Big Digital Media Data Compression Recognition Algorithm in Modern Art Design Training Intelligence Youquan Liu, Wenhua Huang	136
30	Data Acquisition and Image Augmentation using Adversarial Networks U. Lathamaheswari, J. Jebathangam	140
31	Dynamic Modeling Analysis of the Influence of Vocal Performance on the Field of Art Under the Environment of Big Data Liya Xu	152

32	Computer-Aided Measurement and Analysis of Food Price Fluctuations Influenced by the Uncertainty of Economic Policy in Big Data Environment Yaping Tao	156
33	Design of a Decentralized Sharing Platform for Big Data Network-Driven Vocational Education Talent Training Jie Zhang	160
34	CUDA Data Analysis of Small and Medium-Sized Management Platform based on the Multi-Dimensional Perspective of Information Visualization Maoqun You	164
35	Layered Network Architecture Micro-Propagation Mode Java System Assists the Construction of Big Data Online Education System Wei Jingjing	168
36	Development of AI Intelligent Decision-Making System for Engineering Project Investment Cost Control based on Big Data Information Collection Algorithm Xiaoyan Xiong	172
37	Data Flow Tracking and Real-Time Monitoring Framework of College Online Education Platform based on Spark Big Data Analytic Tools Liqin Zhou, Ping Chen	176
38	Cloud Center Platform Integrating Industry-University Cooperation Mechanism of ACCA-Oriented Class-Running Data Analysis Algorithm Hui Liu, Wei Long	180
39	Statistical Analysis of Big Data Models in Android Malware Detection Vijaya Bhaskar Sadu, T Mahalakshmi, Nellore Manoj Kumar, Neha Singh, K Lakshmi Sarada	185
40	Smart Supply Chain Management using Big Data Analysis and Machine Learning Bhamidipati Raviteja, Kartik A Pandya, Falak Khan, Zoheib Tufail Khan, Prajwal R, Atharva Kekatpure	190
41	Development of Medical Internet of Things with Big Data using RF-BFA and DL in Healthcare System Cuddapah Anitha, K Komala Devi, D. Jayasutha, B. Gomathi, Mahaveerakannan R, Chamandeep Kaur	194
42	Apache Pig Programming for Processing the Big Medical Data of Patients with Distributed Environment S. S. Aravinth, M. Ramesh Kumar, R. Ranganathan, Parameswari.M, M. Sasikala	200
43	Auxiliary Decision-Making System for College Curriculum Construction based on Big Data Technology Nan Zhang, Jinli Xie	205
44	Intelligent Framework of Rural Tourism Marketing Big Data Mining based on PHP Algorithm of Intelligent Ledger System Huanhuan Fan	209
45	Computer-Aided Analysis Software of the Influence Mechanism of Students' Employment Pressure on Their Own Emotions based on Data Mining of Brain Signal Spectrum Bei Song	213
46	Online Platform Innovation of Targeted Training in College Education based on Multi-Dimensional Information Data Mining Li Xu	217
47	AHP Evaluation Algorithm based on Balanced Data Mining Algorithm for Kindergarten Teachers Equipped with Intelligent Hardware Huilan Yue	221

48	Construction of ITIL Intelligent Platform for Management of Economics and Management Laboratory based on Circular Python Data Mining Algorithm Ken Wu	225
49	Java Implementation of Intelligent Platform for College English Flipped Classroom based on Data Mining of "SPOC+STEAM" Information System Yirong Wang	229
50	Design & Implementation of Product Recommendation Solution using Sentiment Analysis Ritu Patidar, Sachin Patel	233
51	Real-time Measure Analysis of Mathematical Modeling Training Integrating BOPPPS and Stochastic Data Mining Algorithm Mingwei Li	240
52	A Novel Approach Towards News Category Prediction using NLP Sanjanaa Sridhar, Yogesh Rethinapandian, Kushala T K, Kritiish M, Pathipati Keerthika Chowdary	244
53	Smart Financial Real-Time Control System Implementation based on Artificial Intelligence and Data Mining Juan Yan	248
54	A Systematic Review on Artificial Intelligence-based Opinion Mining Models B. Madhurika, D Naga Malleswari	252
55	Improving Multimodal Sentiment Analysis using Prediction-based Word Embeddings T Praveen Kumar, B. Vishnu Vardhan	258
56	Analysis of the Influence of the Internet on the Informatization of Project Cost Management: from the Perspective of Data Node Network Mining Li Zhao	263
57	Public Opinion Intelligence Analysis Algorithm of Efficient Course Online Practice Platform based on Message Data Cleaning and Evolutionary Algorithm Mining Miao Li	267
58	Data Mining of Logical Relationship Nodes of Cultural Geography Concepts and Theories based on Word Vector Matching Algorithm Jianjun Kang, Li Hou	271
59	Design of Auxiliary Monitoring Platform for College Students' Mental Health Education based on Internet Trace Data Mining Yuan Hui	275
60	Research on Auxiliary Tools for Political Education based on Internet Public Opinion Data Extraction and Classification Algorithms Lin Chen	279
61	Application of Data Matching Algorithm in Accounting Information System Assisting Enterprise Financial ERP System Stability Optimization Xiaoyan Xiong, Wenxiu Wei	283
62	Data Sharing Algorithm of Fusion Information System of Party Building and Business Work in Private Colleges under Background of Data Collection Mining Zhenxing Wang, Xiaofang Lin, Bin Chen	287
63	Design and Research of Foreign Language Teaching by Information Platform Evaluation based on Intelligent Data Mining Xueying Li, Jianghui Ren	292
64	Intelligent Modeling System of E-commerce Consumption Behavior based on Distributed Data Integration Algorithm Xiang Cao	296

65	Discussion on the General Monitoring Information Platform of Green Intelligent Building based on Data Set Mining Algorithm Qiang Zhou	300
66	Internet Botcoder: Natural Language Processing with Automation Code Generation using Commands C. Srivenkateswaran Hirdyavenu Gopal, S. Gracia Nissi, K. G. Saravanan, M. Parameswari, Y. D Thanujairaj	305
67	Sentimental Analysis on Student Feedback using NLP & POS Tagging Nandakumar R, Pallavi M S, Pramath. P. Harithas, Vinayak Hegde	309
68	Mining of Online Communication Network of National Traditional Sports Culture based on Computer New Media Technology Yi Ke	314
69	Multiband Fractal Antenna for 26/28 GHz Millimeter Wave Band Sinduja Natesan Subramanian, Chandrasekharan Nataraj, Shankar Duraikannan, Sathish Kumar Selvaperumal, Raed Abdulla	318
70	Analysis of UART Communication Protocol Pranjal sharma, Anup kumar, Naresh kumar	323
71	Development and Information Security of Hybrid English Interactive APP based on Mobile Internet Communication Network Hong Yan	329
72	Diamond Shaped Micro-strip Fractal Antenna for Ultra Wideband Venkataramanan C, Porchelvi N, J. Martin Sahayaraj, Subramanian P, Jaya Pratha S	333
73	Carbon Footprint of Information and Communication Technologies S. D. Uma Mageswari, P. Suganthi, M. Meena	338
74	Construction of Smart Sports Teaching System based on Optimization of Camera Network and Remote Communication Bo Liu, Chunli Pan	343
75	Opportunities and Challenges of Computer Network Management System in the New Era: from the Perspective of Information Flow Chunhua Feng	347
76	Software Implementation of Intelligent Models of Economic Indicators in the Era of 5G Network Big Data Jiale Yan	351
77	Realization of VR+AR in the Interactive Platform of Online Art Education in Colleges Under the Internet Ecological Environment Hongbin Liu	355
78	The Decentralized Structure of the Digital Cultural Network Affects the Research on Education Informatization Zhao Yingju	359
79	The Efficiency of Background Data Visualization of College Smart Education System Integrating Social Management Information Platform Hailing Wang	363
80	Framework Design of Sports Training Monitoring Protocol for Mobile Intelligent Terminal based on MANT Guotian Wu, Chunmin Lu	367
81	Intelligent Terminal Design for Improving College Students' Cross-Cultural Communicative Ability Under Cross-IP and Media Computer Network Environment Xin Ma	371

82	Multi-Port Shared Cloud Framework of College Student Education Management Information System under the Background of Micro-Data Dynamic Network Xiaolin Zhao	375
83	Quantum Dynamic Network Modeling Algorithm in Mathematical Modeling Training Combined with BOPPPS Comprehensive Networking System Construction Mingwei Li	379
84	Cloud Center Intelligent Terminal Design for the Integration of Industry and Education in Local Higher Vocational Colleges under the Background of "Internet +" Transformation and Development Shan Yinxin	383
85	A Technique to Improve the Lifetime of Heterogeneous Wireless Sensor Networks by Removing Redundant Packets Junaid Ahmed Mohammed Abdul, Santhosh Kumar Dhatrika, Pradeep Kumar	387
86	Design of a Two-Tier Learning Model for Congestion Control in WSN Environment D. Marygetsy, V. Remya, Nabeena Ameen, V. Anantha Krishna, Anitha Mary M, M. Deivakani	394
87	An Effective Optimized Clustering Algorithm for Social Media Dev Charan J, Keerthivasan P, Sakthiguhan D, Lanitha. B, Sundareswari.K	400
88	LoRa WAN Communication using Wireless Sensor Network Gopinath J S, Elsdon Christofer A, Ravindrananth K L, Malathi. K	406
89	Analysis of Stability Big Data Environment of Intelligent Financial Data Abnormal QoS System based on Wolf Pack Algorithm Lijuan Cui	413
90	Data Security and Safety Services using Modified Timed Efficient Stream Loss-Tolerant Authentication in Diverse Models of VANET K. Suganyadevi, V. Nandhalal, Satheeshkumar Palanisamy, S. Dhanasekaran	417
91	Research on Architecture Design of Interactive Network Training Platform for Electrotechnics and Electronics Experiment Tao Chen	423
92	Hotspots and Policy Keyword Technology of Higher Vocational Education Reform based on Network Text Intelligent Analysis Algorithm YAN Yu-rao	427
93	Design and Research of Green Building Engineering Monitoring Platform based on Agile Sensor Network Data Transmission Algorithm Weichen Xu	431
94	System Stability Modeling of Video Art Teaching Resource Sharing Platform Construction based on 5G Network Environment Guangfeng Ji	436
95	Multi-terminal Sharing System of Interconnected Dynamic Data Network Assisting College Sports Practice Information Yong Wu, Miao Chen	441
96	Road Safety Approach to Mitigating the Accidents in Vehicular Networks Gogineni Hima Bindu, Thalakola Syamsundararao, Vuyyuru Lakshmareddy, Prathap Kumar R, Dasari Koteswara Rao, Badugu Samatha	445
97	Li-Fi Technology for Vehicle-to-Vehicle Communication Saravanan. M, Ajayan. J, P. Mamikandan, P Naveen, Ashokkumar S. R, Ramkumar K	451
98	Network Lifetime Energy Efficient Localization Technique for Isolated Wireless Sensor Networks Manish Gardi, Gyanendra Gupta, Sandeep Kadam	456



99	Implementation of Load Balancing and Firewalls for Efficient Network Management in Software Defined Networks S. Sriram, K. Vishall, T. R. Yaswanth	464
100	Construction of Intelligent Network for Sports Training Safety Assurance based on Portable Heart Rate Detection Intelligent Equipment Yuanming Jiu, Jiacheng Feng	468
101	Survey on CAN-Bus Packet Filtering Firewall Sahana Y P, Ajey Gotkhindikar, Shailendra Kumar Tiwari	472
102	Blockchain based Electronic Voting Machine Punith M S, Rachel Shukla, Sudha Yadav	479
103	Implementing Machine Learning Adoption and Blockchain in the Health Care System Sohil C, Siva Subramaniam D, Gowtham R, Sundareswari K	484
104	Enhanced Optimized Link State Secure Routing Algorithm using RSA Crypto Key Exchange & Revocation in FANET Framework A. Muthusamy, S. Anitha, J. Rathi	488
105	Federated Learning Approach for Tracking Malicious Activities in Cyber-Physical Systems Chandu Jagan Sekhar Madala, G. Hemanth Kumar Yadav, S. Sivakumar, R. Nithya, Manjunatha K M, M. Deivakani	494
106	Feature Selection by Hybrid Artificial Bee Colony Algorithm for Intrusion Detection Milos Stankovic, Milos Antonijevic, Nebojsa Bacanin, Miodrag Zivkovic, Marko Tanaskovic, Dijana Jovanovic	500
107	Design of Emergency Management System for Public Emergencies under Big Data, Intrusion Detection, and Defense Lebin Liu	506
108	Data Interface Matching and Information Security Measurement of Scientific and Technological Innovation Measurement Analysis and Multi-Agent Economic MIS MA Ying, ZHOU Tingting	510
109	Blockchain based Internet of Vehicles (IOV) Information Transmission Mechanisms Loganathan R, SelvakumaraSamy S	514
110	Improving Security in Edge Computing by using Cognitive Trust Management Model D. Ganesh, K. Suresh, M. Sunil Kumar, K. Balaji, Sreedhar Burada	524
111	Comparative Analysis between LSTM and GRU in Stock Price Prediction A. Bhavani, A. Venkata Ramana, A. S. N. Chakravarthy	532
112	Trustworthy Cloud Storage Data Protection based on Blockchain Technology Jena Catherine Bel D, Esther C, Zionna Sen G B, Tamizhmalar D, Dhinakaran D, Anish T. P	538
113	Combined Approach of ML and Blockchain for Fraudulent Detection in Insurance Claim Sandip Vyas, Shilpa Serasiya, Archana Vyas	544
114	Security Management in Decentralized Cloud Storage via Improved Bees Swarm Optimisation Data Slicers L. Karuppasamy, V. Vasudevan	551
115	A Unique Deep Intrusion Detection Approach (UDIDA) for Detecting the Complex Attacks P. Vamsi Krishna, Venkata Durga Rao Matta	557
116	Advanced Online Cheque Clearing System using Blockchain M. Keerthi Naga Saraswathi, B. R Bharathi	561
117	A Reliable, Secure and Efficient Decentralised Conditional of KYC Verification System: A Blockchain Approach Bhavya Dhiman, Rubin Bose S	564

118	Coordinated Intelligent Control of Car's Handling Stability based on Electronically Controlled Air Suspension IoT Monitoring Min Yang	571
119	Analysis of Hydroponic System Crop Yield Prediction and Crop IoT-based Monitoring System for Precision Agriculture Sathanapriya M, R. Prameela Devi, C. Sandhya, Anil Pokuru, T. Habeebur Rahman, Bibin K Jose, Samata Gadde	575
120	Smart Bike Helmet with Vehicle Tracking System using Arduino Priya C, Ramya. C, Poovitha N M, Rithika P S, Sujithra M	579
121	Hydroponic Farming using IoT Vaibhav Kanhekar, Tejas Deshbhratar, Yogeshwari Matey, Kamlesh Kalbande, Atul Deshmukh	583
122	A Hybrid E- Prescription Management System using IoT Chandana M J, Chandini N, Chinni Srinija, Divya S, Pappa M	587
123	IoT based Smart Parking Assistant for Smart Cities N Sangeetha, S. Amutha, A R Deepa, S Joyal	593
124	IOT based Smart Helmet System for Accident Prevention S. Johnpaul, C. Thirumalai Selvan, P. J. Raguraman	599
125	Internet of Things and Cloud Computing Involvement Microsoft Azure Platform Sreyes K, Anushka Xavier K, Dona Davis, N. Jayapandian	603
126	DDoS Detection at Fog Layer in Internet of Things Shrinal Dave, Sheshang Degadwala, Dhairya Vyas	610
127	IoT based Threat Detection and Location Tracking for Women Safety Girinath N, Ganesh Babu C, Vidhya B, Surendar R, Abhirooban T, Sabarish V	618
128	Railway Track Crack and Key Detection Robot using IoT Jeni Narayanan L A, Lakshmi Narayanan C, Karthika M S, Ramya S, Kaviyaraj R	623
129	Automatic Waste Management based on IoT using a Wireless Sensor Network G. Gomathy, P. Kalaiselvi, D. Selvaraj, D. Dhinakaran, Anish T. P, D. Arul Kumar	629
130	Joint Air-Noise Pollution Monitoring System using IoT Elements Ashok K, Santhosh Krishna B V	635
131	Auto - Moving Wheelchair with Obstacle Detection and Health Monitoring System M. Chitra Evangeline Christina, G. Rajakumar, V. Pravin Jebaselvan, D. Ayisha Fathima, A. Breeze Mary, S. Gayathri	640
132	Internet of Things based Smart Fencing System Sreemathy S P, Raghul M, Sugesh R, S. Ezhilin Freeda	645
133	Water Management and Control Systems for Smart City using IoT and Artificial Intelligence B. Sakthi Kumar, S. Ramalingam, S. Balamurugan, S. Soumiya, S. Yogeswari	653
134	Internet of Things-based Personal Private Server Computing N. Hemavathy, Gopi. V, Mohamed Umar, Siva Rahul S	658
135	IoT based Fire Fighting Robot Sabari L Uma Maheshwari, R. Mohamed Atheeq, U. Nikhil Surendar, S. Navin Vaishnav	664
136	Impact of IoT based Autonomous Farming Equipment on Crop Culture and Management in the Agricultural Sector Navin kumar, Alka Singh, Deepak Das, Diksha Srivastava, Venkata Syamala Raju Talari, Amardip Diwakar Kurukwar	669
137	IoT based Cardiac Monitoring System using Event Driven Fuzzy Logic Approach A. Shanmugapriya, Sangeetha Devi. A, Kalaivani. A	676

138	Real-time Monitoring System in IoT for Achieving Sustainability in the Agricultural Field Abdul Rahman Bin Mohamad Saleh, S. Venkatasubramanian, N R Rejin Paul, Fairuz Iqbal Maulana, Femmy Effendy, Dilip Kumar Sharma	682
139	Research on Automatic Adjustment Technology of Power Grid Operation Mode based on Genetic Algorithm Wei Li, Junyu Zhou, Jie Hua	687
140	Modified Adaptive Neuro Fuzzy Controller Modeling for Controlled Plug-In Hybrid Electric Vehicle for Battery Residual Capacity R. Sankarganesh, A. Govindarasu	691
141	High step-up DC-DC Converter based Renewable Energy System for Improving Power Quality and Low Voltage Stress using PI Controller Technique Baboo Barik, Dilli Srinivasan, K. Arulvendhan, Suresh N	698
142	Wireless Bidirectional Power Transfer for E-Vehicle Charging System S. Senthikumar, Moazzam Haidari, G. Devi, A. Sagai Francis Britto, Rajasekhar Gorthi, Hemavathi, M. Sivaramkrishnan	705
143	Ultra-Fast Charging E Vehicle Batteries from PV using DC-DC Converter Ashish Nagila, Skanda M G, F X Edwin Deepak, Raj Kumar, Praful V. Nandankar, Hemavathi, M. Siva Ramkumar	711
144	Machine Learning Model for the Prediction of an E-Vehicle's Battery Life Cycle Mahesh Prasanna K, R. S. Karthic, B Harish Babu, Prachi Ramesh Patil, Radha Raman Chandan, Hemavathi	717
145	Low-cost Battery Management System for E-vehicles T. V. V. Pavan Kumar, Moazzam Haidari, R. Vimala, Raghavendra Subramanya, Lakshminarayana. M, Hemavathi	723
146	Grid-connected PV Multilevel Inverter Implementation Employing Buck and Boost in Unbalanced Environmental Circumstances M. Siva Ramkumar, Rajinikanth B, A. Amudha, G. Emayavaramban, S. Divyapriya	728
147	Internet of Things Enabled Smart Electric Vehicles Home Charger with Mobile Application Integration S. Divyapriya, J. Imran, A. Madhesan, N. Sakthivel, K. Sivakumar, G. Vadivelan, A. Amudha, K. Sudhapriya	736
148	A Review on Electric Vehicle Battery Charging Infrastructure Mudassirhussain Mahammad, Chandramouli Bethi	740
149	FPGA based Fall Detection for Elderly People Sneha. S, Mukesh. R. S, Sudha Yadav	745
150	FPGA based Intelligent Food Spoilage Detection for Commercial Storage Rinika Paul, Sanketh B. Prabhu, Sudha Yadav	752
151	Wind Energy Conversion Control for a Double Fed Induction Generator with Modular Multi-Level Matrix Converter M. Siva Ramkumar, M. Kannagopalan, A. Amudha, S. Divyapriya	759
152	Three Phase Reduction of Inter Harmonic Analysis of PV-MPPT Grid Connected Systems under Partial Shading Conditions M. Siva Ramkumar, S. Sakthikumar, A. Amudha, G. Emayavaramban	768
153	Noise Reduction and Enhancement Processing Method of Cement Concrete Pavement Image based on Frequency Domain Filtering and Small World Network Jianmin Zhao, Qizhi Fang, Zong'an Guan	777
154	Analysis of Performance Enhancement for DC Distribution for Residential Distribution Network using Hybrid AC-DC Distribution Network Sujitha S, Jebarani Evangelina S, Vinoth Kumar K, Sayanth PV, Vishal Suresh, Nahush S	781

155	45nm Technology based 8-Bit Data Comparator Architecture for Rank ordering Image Applications G. Mounika, K Vasanth	786
156	Analysis of Voltage Tracking in DC-DC Converter for an Electric Vehicle using Hybrid Adaptive Controllers M. Karthikeyan, D. Manimegalai, S. Sivarajan, S. Karthiga, U. Muthuraman	792
157	A Novel Algorithm for Detecting Spasmodic Dysphonia Voice Pathology using Random Forest Frame Work G. L. N. Murthy, V. Iswarya, K. Ramya Sri, K. Harshitha, Ch. Prasanth	800
158	Voice Control and Eyeball Movement Operated Wheelchair Maheswari R, Vignesh S, Rakesh Kumar M, Venkatesh T. M, Sundar R, Jose Anand A	805
159	Intelligent Laboratory Safety Monitoring System for TiO <sub>2</sub> Preparation and Catalytic Degradation of Industrial Wastewater based on Multi-Camera Technology Faqiang Liu, Peibei Xia, Ling Tian, Lei Huang, Mengyao Liu, Yongmei Wu	810
160	The Selection of Best Fit Model Involving Correlation in Examination with QQ Plot Mekhala Sridevi Sameera, Gangadhara Rao Kancharla	814
161	Development and Analysis of Sparse Spasmodic Sampling Techniques Umesh Mahind, Deepak Karia	818
162	Design of Energy Efficient Hybrid Logic Full Adders H. Mangalam, Arthi P, Janani R, Aisvariya V	824
163	Computer Virtual Technology for Smart Martial Arts Training based on Body Action Recognition Algorithms Jincheng Liu	833
164	Ripple Suppression of Switching Power Supply based on Computer Simulation Software Multisim Songmei Liu	837
165	Application and Advancement of Sensor Technology in Bioelectronics Nano Engineering K. Thiagarajan, Madhavi G. M, M. Porkodi, Priya. K, Samata Gadde, R. Priyadharshini	841
166	Non-Uniform Filter Bank Visualization based Prediction Models for Respiratory Signals S. Jayalakshmy, B. Lakshmi Priya, T. Nivetha	846
167	An Artificial Intelligence Framework for Estimating the Cost and Duration of Autonomous Electric Vehicle Maintenance Prashant Bansal	851
168	MPPT Application of DC to DC Boost Converter for Fast Charging of Battery from SPV System Shoyab Ali, Pankaj Kumar Sharma, Pramod Sharma	856
169	Unified 32-Channel SS-DWDM-PON Transmission System for Remote Monitoring B. Elizabeth Caroline, M. Margarat, M. Divya Shree, S. Mohamed Nizar	861
170	Automated Guided Vehicle based with Robot Operating System for Mapping and Navigation Task New Weh Chien, Suresh Gobee, Vickneswari Durairajah	868
171	Piezoelectric Energy Harvest for Wearable Devices M. Gokul, M. Anisha, C. Kruthika Reshmi, S. M. Sathish, P. Meghana, S. Gowtham Pandi	873
172	3D Augmented Reality Cube Mobile Interface Ameena Ahmed, Rajasvaran Logeswaran	878
173	Farmer Friendly Smart App for Pomegranate Disease Identification Nirmal M.D, Pramod Jadhav, Kadu N. B	884

174	A Switching Event-Triggered Approach to Proportional Integral Synchronization Control for Complex Dynamical Networks D. Sengeni, Muthuraman A, Naresh Vurukonda, G. Priyanka, Priyanka Suram,, R. G Vidhya	891
175	Experimental Analysis of Solar-Powered Portable Vaccine Refrigerator Vidhyalakshmi V, Vinayagam P, Shreenidhi G, Naveena R, Archanaa R, Sowmya M B	895
176	Implementation and Analysis of Hybrid Solar PV and Wind Energy based Microgrid Logeswaran T, Monika N, Karuppusamy P, Vinosh M, Uthirasamy R, Raghavendran P S	899
177	An Electronic Simulator based Rehabilitation Chair for Osteoarthritis Back and Neck Pain Management Gokul M, Mohana M, Manikandan A, Gokulnath C, Geetha Aanandhi C, Yamini Priya S	906
178	Night Patrol Robot for Detecting and Tracking of Human Motions using Proximity Sensor D. C. Jullie Josephine, Gracia Nisi. P, Samuel Frank, A. Manikandan, S. Bhavaneskumar, T. Sakthivel	912
179	Performance Comparison of AFZ Converter with PI and FOPID Controller S. Gomathi, M. Panneerselvam, G. Kalyan Kumar, T. D. Subha, M. Samayaraj Murali Kishanlal, S. Jaanaa Rubavathy	916
180	In-Depth Search Algorithm of Guangdong Full-Chain Scientific and Technological Innovation Data Display Platform Hanxue Yan	922
181	Pulse Feature Extraction Model and Intelligent Processing of Communication Signals in Train Operation Control System Jun Xiao, Chuanlin Yuan, Meng Wang	926
182	Research on Apple Freshness Inspection System based on Nuclear Magnetic Resonance Data Extraction Technology Haijun Shen, Kekui Sun, Yuxiang Zeng, Zhongwen Cao	930
183	Environmental Monitoring System based on Intelligent Control System for Monitoring Cyclocarya Paliurus Cutting Seedlings by Sensor Network Wanxia Yang, Yuan Tian, Shiyang Wan, Shengzuo Fang	934
184	System Construction of Immersive Smart Teaching Environment based on Virtual Spatial Data Multi-Dimensional Imaging Technology Miao Li	938
185	Evaluation Framework for Human Bite Mark Image Acquisition- A Pioneer Study Rameswari Poornima Janardanan, Rajasvaran Logeswaran	942
186	Investigation of Kidney Stone Detection using Image Processing Janarthanan.S, Ashok. A, Guruprasad. S. S, Mounesa. P, Madhan Mohan. M, Baluprithviraj. K. N	946
187	An Recognition of Alzheimer Disease using Brain MRI Images with DPNMM through Adaptive Model M. Sudharsan, G. Thailambal	952
188	Object Detection in Unmanned Aerial Vehicle(UAV) Images using YOLOv5 with Supervised Spatial Attention Module Museboyina Sirisha, S. V. Sudha	960
189	A New Paradigm of Computer Art Design based on Fusion of Light Collection Sensors and Smart Image Detection Algorithms Chengwen Wang	966
190	Application of Slow-Motion Images based on Visual Saliency Algorithm in Film and Television Advertising Xiangyang Xing	970

191	The Emergence, Development and Evolution of News Reports on Computer-Aided Image Abstraction Algorithms Lijiaxiu Zhang	974
192	Image Processing based Smart, Economical Blood Cancer Identification System C. Raghavendra, P. Nagarani	978
193	Image Denoising for an Efficient Fake Image Identification Judy Flavia B, Sharnish G, Prashanth Mishra, Aashirvad Kohli	984
194	Stability Test of Traditional Art Image Recognition Algorithm Integrated into Children's Art Works Information Display Platform Yuanyuan Lv	990
195	Research on Intelligent System of Russian Language Teaching and Cultural Fusion based on Facial Expression Recognition Algorithm Sun Yumin	994
196	Multi-Band Remote Sensing Image Time Series Analysis to Predict Smart Tourism Economic Development Support System: Taizhou, Jiangsu Xiaoyan Yao	998
197	Intelligent Experimental Cloud Sharing Network of Clothing Design based on Digital Image Modeling Jinghong Cai	1002
198	Implementation of Electronic Commerce Taxation Management System based on Computer and Abnormal Data Retrieval Algorithm Hua Liu	1006
199	Rehabilitation Assessment of Lumbar Sports Injury based on Intelligent Analysis of MRI Images Bin Feng, Hang Dong, wenbao Li	1010
200	MRI-Based Tumour Prediction based on U-Net and VGG-Net Shivaneer Sihare, Manish Dixit	1014
201	Multi-Tier Kernel for Disease Prediction using Texture Analysis with MR Images M. Mohan, Anuradha Patil, S. Mohana, P. Subhashini, Sumit Kushwaha, S Manikandaprabu Pandian	1020
202	Adaptive Spotted Hyena Optimizer-enabled Deep QNN for Laryngeal Cancer Classification Madhuri Nagnath Sachane, Shrinivas Annasaheb Patil	1025
203	DNA Sequencing using Artificial Intelligence Siddharth Goswami, Sachin Sharma	1033
204	AI-based Chatbot for Physically Challenged People Aashdeep Singh, P. Murugeswari, S D Prabu Ragavendiran, Amanpreet Kaur, Gurpreet Singh, Sathiyamoorthy Margabandu	1039
205	Modeling and Predictive Analysis of the Validity of Children's Behavior Observation in Preschool Education based on Action Recognition Network Algorithm Hai-yan Chen	1045
206	Prediction Software Design of Food Economy-Epidemic Situation based on Internet Financial Framework and Intelligent AI Algorithm Tao Yaping	1049
207	Construction of Innovation and Entrepreneurship MOOC Education Resource Library based on Distributed Information Storage and Retrieval Intelligence Yu Feilong	1053

208	Application of Computer CAD Software Optimization in the Manufacture of Mechanical Reducer Considering Artificial Intelligence Xianzhen Ye	1057
209	Implementation of Lane Change Maneuver System using Neural Network Bhagya R, Vishnupriya PB, Bharathi R	1061
210	Artificial Neural Network for Predicting a Turbocharged Engine Performance: An Empirical Study Yew Fai Christopher Chan, Chee WeiAlvin Yap, Ka Fei Thang, ChunMein Soon, Feng Xian Tan, Meng Soon Chiong, Srithar Rajoo	1066
211	CNN based Prediction Analysis for Web Phishing Prevention M. Amanullah, Nitin Purohit, V Selvakumar, Shitharth S, Abhay Jyot, Mochammad Fahlevi	1076
212	Analysis of SQL Database Code Optimization for Short Video Operation Mode based on Artificial Intelligence Shang Wang	1083
213	A Novel Technique for Ensembled Learning based on Convolution Neural Network Sindhuja P, A. Kousalya, N R Rejin Paul, Bhasker Pant, Pankaj Kumar, Dilip Kumar Sharma	1087
214	Comparative Analysis using K - Nearest Neighbour with Artificial Neural Network to Improve Accuracy for Predicting Road Accidents T. Deva Prakash, Nagaraju V	1092
215	Comparative Analysis of Credit Card Fraud Detection using Logistic Regression with Random Forest towards an Increase in Accuracy of Prediction M. Vamsi Krishna, J. Praveenchandar	1097
216	An Efficient System for the Prediction of House Prices using a Neural Network Algorithm Nikhil. S. Patankar, K. Vengatesan, Yogesh S Deshmukh, Rameshwar D Chintamani, Nitin L Shelake	1102
217	A CNN Model for Detecting Coronavirus in Chest Computed Tomography Scan Images using Gabor Filter in Pre-processing Stage Ashish Narayan T, Giridhar G, Santhi Sri T, Srinivas P. V. V. S, Ravisankar Malladi	1107
218	CNN based Identifying Human Activity using Smartphone Sensors A. Alice Nithya, K. Ishwarya, Guneet Mummaneni, Vaibhavi Verma	1115
219	Prediction of Diabetes using Machine Learning C. S. Manikandababu, S. IndhuLekha, J. Jeniefer, T. Annie Theodora	1121
220	Decision-Making Approaches for Complex Applications using Deep Learning Models Durga P, T. Sudhakar	1128
221	Comparative Study of Machine Learning Algorithms for Voice based Gender Identification Swati Srivastava, Himanshu Sharma, Deepanshi Garg	1136
222	Breast Cancer Prediction using Standard Machine Learning Algorithms Vinod Jain, Narendra Mohan	1142
223	Information Extraction and Sentence Ordering in Multi-Document Summarization using Preference Learning Anuj Kumar, Atul Kumar Uttam	1146
224	Emotion Classification and Intensity Prediction using Hybrid Deep Learning Models Vishal Jain, Mahesh Parmar	1150
225	An Automated and Efficient Deep Learning based Classification of Multiple Skin Disorders from Skin Lesion Images Mohd Mohsin Ali, Rakesh Chandra Joshi, Malay Kishore Dutta	1156

226	Performance Analysis of Supervised Machine Learning Algorithm for Prediction of Diabetes Vinod Jain	1162
227	A Detailed View on industrial Safety and Health Analytics using Machine Learning Hybrid Ensemble Techniques Ketan Rathor, Sushant Lenka, Kartik A Pandya, B. S. Gokulakrishna, Susheel Sriram Ananthan, Zoheib Tufail Khan	1166
228	Advanced Detection of Brain Disease using ML and DL Algorithm Vidhya J, Rakshana R	1170
229	Recommendation and Rating System using Machine Learning B. Nataraj, K. R. Prabha, S. Aravind, M. Deerak Eshwar, N. Jagadeeshwari	1175
230	A Machine Learning Method for Early Detection of Breast Masses on Screening Mammography A Malarvizhi, A Nagappan	1182
231	Machine Learning based Drowsiness Detection in Classrooms Dinesh Kumar J R, N. Harish, Priyadharsini K, S. Gowtham, Gokulraj	1186
232	Breast Cancer Prediction using Deep Network Model with Multi-Modal Data Fusion Rashmi Ranjan Rath, Sarat kumar swain, K Pooranapriya, Jithesh K, M. Deivakani, Vinay Avasthi	1192
233	Hardware Implementation of Forest Fire Detection System using Deep Learning Architectures Mohammad Baig Mohammad, N. Bhuvaneswari, Ch. Pooja Koteswari, V, Bhavani Priya	1198
234	Pest Identification and Control using Deep Learning and Augmented Reality Ascharya Soni, Anuraag Khare, Darshan Balaji P S, Sachin Verma, Asha Rani K P, Gowrishankar S	1206
235	Prediction of Knee-Replacement using Deep-Learning Approach Sindhu N, Shrimad Mishra, Gowrishankar S, SG Anushka, Snehananda HA, Veena A	1213
236	A Novel Densely Search based Fire-Fly (DSFF) Optimization Algorithm for Image Classification Application D. Mahalakshmi, S. Appavu alias Balamurugan, M. Chinnadurai, D.Vaishnavi	1219
237	A Deep Learning-based Approach for Surface Crack Detection using Convolutional Neural Network B. Swaminathan, Sumit Kumar Mishra, S Jana, Lukesh Parida, N. Kalyani, Sultanuddin SJ	1229
238	Disease Detection of Leaf Review Collection using Deep Learning Saranya L, Ashwin Kannan E, Jagan A, Jayasuriya R, Vignesh V	1235
239	Drowsiness Detection using Deep Learning Algorithms Addepalli Sri Vaishnavi Devi, Kandlapalli Deepika, Moulana Mohammed	1239
240	Automatic Segregation of Household Waste using Machine Learning Approaches Rejina Parvin, Divya Priya C, Divya V, Ashok S. G	1243
241	Real Time Crop Prediction based on Soil Analysis using Internet of Things and Machine Learning Kushal B J, Nikhil Jain S P, Nikil S Raaju, Kushal Gowda G V, Asha Rani K P, Gowrishankar S	1249
242	Prediction of Brain Stroke using Machine Learning with Relief Algorithm Jayashree K, N Krishna Prakash	1255
243	News Curation, Abstract, and Recommender App using Deep Learning Attention Models Nikit Periwal, Nirgund Manavendra P Jayaram, Niranjan Mahesh, Asha Rani K P, Namrita Kaur, Gowrishankar S	1261



244	A Robust Deep Learning and Feature Fusion-based Multi-class Classification of Cervical Cells Rahul Kumar Madhukar, Rakesh Chandra Joshi, Malay Kishore Dutta	1269
245	Deep Learning based Cooperative Spectrum Sensing with Crowd Sensors using Data Cleansing Algorithm Raghunatha Rao D, Jayachandra Prasad T, Giri Prasad MN	1276
246	Multimodal Biometric Reorganization System using Deep Learning Convolutional Neural Network Anil Kumar Gona, M Subramoniam	1282
247	A Deep Learning Approach to Enhance Underwater Images with Low Contrast, Blurriness and Degraded Color Ayushi Gupta, Rajni Ranjan Singh	1287
248	Jenkins Pipelines: A Novel Approach to Machine Learning Operations (MLOps) Niranjan DR, Mohana	1292
249	Development of a Website for Malarial Detection using Deep Learning B. Uma Maheswari, Manish Kumar Thimmaraju, V Jeeva, Mahendra Pratap Swain, Sandeep Kumar Singh, Ashok Kumar	1298
250	Creating an ML-based Mobile App for Maintaining Crop Health A. Viswanathan, M. Umamaheswari, M. Jaganathan, Julius B. Wosowei, Rohi Prasad, P. Indira	1305
251	Design and Comparison of Transfer Learning for Dental Caries Detection Pranjit Das, Dhana Sony. J, Manish Kumar Thimmaraju, Ahalya N, Harishchander Anandaram, Ashok Kumar	1311
252	Deep Learning Technology to Identify Arboviral Disease-Dengue Prediction Thumu Hima Varshini, Badgu Samatha	1317
253	Analysis and Prediction of Location based Criminal Behaviors Through Machine Learning Darshanaben Dipakkumar Pandya, Geetanjali Amarawat, Abhijeetsinh Jadeja, Sheshang Degadwala, Dhairya Vyas	1324
254	Intelligent Scene Design for Deepening Legal Education in Colleges based on Computer Multimedia Immersive Display of Intelligent Environment Shu Li	1333
255	Machine Learning based Bayesian Network Models for Reverse Engineering Data Optimization Hari Kishan Chapala, C Madhusudhana Rao, Pamulapati Satish Chandra, Animesh Kumar Sharma, Sapna Gangrade, K Kavita	1337
256	Deep Learning based Skin Pigmentation Classification for Malignant Skin Lesions Vindhya J, Pooja C, Manisha H Dongre, Gowrishankar S, Srinivasa A. H, Veena A	1341
257	A Face Recognition and Sentiment Analysis Activity System using Machine Learning Algorithm Sowmya Kucherlapati, Srihari Varma Mantena	1346
258	Identification of IT Tickets and Bugs using Text-Supervised Pedagogical Approaches Asha Bajariya, Patel Jaiminee J	1352
259	Classification of Skin Cancer Segmentation using Hybrid Partial Differential Equation with Fuzzy Clustering based on Machine Learning Techniques P. Kavitha, V. Jayalakshmi, S. Kamalakkannan	1359
260	Jigsaw Technique in Social Media for Collaborative Learning to Enhance Intellectual Skills of Dropout Students M. Revathy, S. Kamalakkannan	1367

261	A Novel Approach to Tackle and Predict Absenteeism of Students using Deep Learning and Data Analytics Harsh Agarwal, Kartik A Pandya, Deep Khut, Sushant Lenka, Nimmagadda Karthik, Vipul Yadav	1376
262	Health Insurance Cost Prediction using Machine Learning Algorithms Ramya D, Manigandan S. K, Deepa J	1381
263	Random Forest Machine Learning Classifier for Seed Recommendation Sachin Dattatraya Shingade, Rohini Prashant Mudhalwadkar, Komal Mahadeo Masal	1385
264	Intelligent MRI Liver Images based Cirrhosis Disease Identification using Modified Learning Principle K. Prakash, S. Saradha	1391
265	Stock Market Prediction using Machine Learning Models A. Yasmin, S. Kamalakkannan, P. Kavitha	1399
266	Machine Learning Approaches based Fake News Detection Riyasdeen. A, Vimal. T, Thilipkumar. V. S, Malathi. K	1406
267	A Performance Improvement in Home Automation Through Uncontaminated Energy Interfaced with Multi Dimensional Machine Learning Approach S. Vijayarangam, Anil Kumar Yadava, G. Karthikeyan, Suresh N S, Balachandra Pattanaik, Syed Azahad	1411
268	Adaptive Deep Belief Neural Networks for Pre-Term Birth Clinical Record to Sense Neonatal Apnea Level Classification V. VishwaPriya, R. RenugaDevi	1416
269	Machine Learning based House Price Prediction Model Chen Chee Kin, Zailan Arabee Bin Abdul Salam, Kadhar Batcha Nowshath	1423
270	Cyber Security and Data Mining Techniques Pranab Kumar Goswami, Sunandan Baruah, Laba Thakuria	1427
271	Energy Enhancement and Optimization of WSN using Firefly Algorithm and Deep Learning Asha Bharathi S, Gopal M Dandime, Gera Vijaya Nirmala, Ashish Baldania, CH. Mohan Sai Kumar, Mochammad Fahlevi	1432
272	An Experimental Study on Applying Supervised Machine Learning Techniques for Identification and Detection of Cardiac Attacks J. Sasi Kiran, J. Kavitha, Vempati Krishna, N. Divya, G. Charles Babu, Rubeena Rustum	1437
273	Implementation of Autonomous Cars using Machine Learning Someswari Perla, Naga Nimesh K, Srinidhi Potta	1444
274	Diagnosis and Prediction of using Machine Learning Algorithm for CT Images Yuvarani. P, Shanmugapriya. S, Nisha. S	1452
275	Deep Learning based Facial Recognition System for Attendance Maintenance K. G. Saravanan, Jayamabel Rani, D. C. Jullie Josephine, M. Parameswari, Hridya Venugopal, Janaki Ramal	1458
276	Computer Network Pharmacology Research and Imaging Assisted Analysis of Traditional Chinese Medicine for the Treatment of Liver Disease Yu Mao, Chong Luo	1463
277	Human Activity Recognition using Smartphone Dataset: A Review Apurv Verma, Vijayant Verma, Brijesh Patel	1467
278	A Sequenced Approach for Customer Data Processing in Banking Applications between Various Services with Novel Decision Tree and K nearest Neighbour M. Sandeep, A. Sivanesh Kumar	1473

279	Prediction of Crop Yield Production with Novel Lasso Regression against Polynomial Regression Algorithm to Achieve Higher Accuracy Venkatesh. A, Saravanan. M. S	1478
280	Intelligent Design of Performance Appraisal System for Middle Managers of Intelligent Organizations based on Python Min Zhang	1483
281	Application of the Multi-Perception Algorithm Platform of the Full-Chain Technology Innovation and Entrepreneurship to the Generation of Online Training Videos for Talent Cultivation Hanxue Yan	1487
282	Multi-cloud Terminal Stability Enhancement Framework of Sanquan Education Digital Oriented Student Management Information Platform Ruiping Chen	1491
283	Sports Life Differentiation Modeling Algorithm and Simulation Prediction based on Long-Acting Remote Heart Rate Sensor Data Analysis Wenhui Feng	1495
284	Long-Distance System Construction of Multicultural Music Guidance Training based on Priori Distributed Signal Classification Algorithm Kun Cao	1499
285	Intelligent Breast Abnormality Framework for Detection and Evaluation of Breast Abnormal Parameters Ajay. P, Avinash Sharma, Sheetalrani R Kawale, Supriya P. Diwan, Dankan Gowda V	1503
286	Efficient Equestrian Sports Venue Intelligent System based on Particle Filter Object Motion Detection Camera Xiaoli Wang	1509
287	Construction of Intelligent Sensing Environment for Equestrian Sports Venues based on Binocular Motion Detection Cameras Shuang Zhang, Xiaoli Wang, Mairu Liu	1513
288	Construction of Teacher Competency Model for Sports Training based on Multi-Dimensional Visual Cognitive Intelligent Processing Modular Data Middleware Dunfeng Zhou	1517
289	Enterprise Informatization Construction and Management Mode Feedback Platform Design based on Dubbo Architecture and Concurrency Computation Chunling Bao	1521
290	Research on Traffic Intelligence based on Traffic Flow Detection Algorithm Xinghua Li	1525
291	Research on Distributed Application of Particle Swarm Optimization in Power System Operation Jie Hua, Wei Li, Junyu Zhou	1530
292	Design Aesthetics Evaluation Platform based on Multidimensional Data Fusion Framework Zhenping Gao	1535
293	Intelligent Empirical Analysis System (IEAS) for Teachers' Guiding Ability in MOOC Evaluation Jie Tao, Wengming Wei	1539
294	Steel Sheet Defect Detection using Feature Pyramid Network and RESNET Prashant Kumar Uraon, Apurv Verma, Abhishek Badholia	1543
295	Action Mapping Algorithm based on OpenCV to Assist the Innovation of Online Virtual Characters in Physical Education Courses Jingmei Hua	1551

296	Design of an Online Platform for the Integration of Production and Education based on Multi-Frequency Interconnection Technology Hui Chen	1555
297	Public Sentiment Assessment of Coronavirus-Specific Tweets using a Transformer-based BERT Classifier Kanak Mahor, Amit Kumar Manjhvar	1559
298	Support Vector Machine Classifier based Lung Cancer Recognition: A Fusion Approach Suresha R, Devika K M, Akshatha Prabhu	1565
299	Identification of Nutrient Deficiency in Rice Leaves using DenseNet-121 B. Srinivasa Rao, R. Vijaya Kumar Reddy, Dara Manogna, Kotha Akhil, Dasari Divya Sree	1573
300	Performance Enhancement & Prediction of Solar Air Heater with Quatrefoil Shaped Artificial Roughness using Adaptive Neuro Fuzzy Inference System P Rajkumar, M Raja, A Stephen Sagayaraj, J Melvin Jones, P Suseendhar, M Karthiga	1579
301	Biometric-based Finger-Vein Authenticating Device Prajwala MV, Sridevi S	1584
302	Covid Smart Pathway: An Approach for Detecting Face Mask and Temperature Pavithra D, Akila Sri M, Roshni P, Srinithi S, Yashwantheka K	1590
303	Thyroid Tumor Diagnosis System using Spatial Fuzzy C-Means (SFCM) Classification Approach B. Shankarlal, P. D. Sathya	1600
304	Abstractive Summarizer using Bi-LSTM Preethi S, Krithick Shibi. M. S, Sheshan. S, R. Kingsy Grace, M. Sri Geetha	1605
305	Gastrointestinal Disease Classification and Analysis using GI-Net Model Animesh Malviya, Malay Kishore Dutta	1610
306	Architectural and Functional Differences in Dot Net Solutions Arpit Arora, Mohana	1617
307	Python-Java Joint Model of Apparel Design and Color Matching Skills based on Internet Public Opinion Information Collection Cleaning Algorithm Songli Yang	1623
308	Design of a Data-Based Evaluation Platform for the Integration of Rural Tourism Culture and Catering Industry based on Multi-Dimensional Remote Sensing Information Collection Chun-Luo, Xianyong-Wu, Zhicong-Wu	1627
309	Optimization in the Development of Online Real-Time Interactive Platform for University Guiding based on Isomorphic Concurrent Computer System Development Wenchao Zhou, Ting Yang	1631
310	Strain Effects in a Double Dot Quantum Dot System Brian Chi Ho Mooy, Nai Shyan Lai	1635
311	Wearable Technology for the Improvement of HSE Management Vinesh Thiruchelvam, Raed Abdulla, Rabah Anakkachery, Zifaan Abdullah	1641
312	The Latest Integration and Effect Evaluation Intelligent Algorithm of Rural Poverty Alleviation Model based on Parallel E-Commerce System Software Architecture Wenji Wei	1646
313	Cross Domain Movie Recommendation System using Personalized Preference Transfer S. Soundariya, S. V. Manisekaran, S. Ramakrishnan, Aiswarya Ganesh, R. Keerthi	1650
314	A Systematic Review on Melanoma Skin Cancer Cell Detection Anushri Bhansali, Parth Manek, Vaishnavi Sonawane, Amit Ganatra, Chintal Raval	1655

315	A Novel and Efficient Method to Detect the Face Coverings to Ensure the Safety using Comparison Analysis Ketan Rathor, Keyur Patil, Mandiga Sahasra Sai Tarun, Shashwat Nikam, Devanshi Patel, Sasanapuri Ranjit	1664
316	Application of a Computer Abnormal Data Identification Algorithm in the Stability Improvement of Financial Budget Management Information System Xia Lv	1668
317	Multi-sensor Data Collection and Centralized Analysis Platform based on Computer-Aided Nursing Sports Intelligent System Zeping Liu	1673
318	Optimization Framework of Digital Online Model for Vocal Music Training based on Computer Data Perception and Fusion Lili Zhuo	1677
319	Analysis of Virtual Reality and Augmented Reality SDK's and Game Engines: A Comparison Sheena Angra, Bhanu Sharma, Avinash Sharma	1681
320	Application of Synthetic Aperture Radar (SAR) based Control Algorithms for the Autonomous Vehicles Simulation Environment Udutha Rajender, Sowjanya Nagulapati, Anuradha T, Hemavathi S, Anandbabu Gopatoti, Logeswaran T	1685
321	Monitoring of Stocks using LSTM Model and Prediction of Stock Prices Sona Susan Jacob, Sankha Patra, Kapinesh G, Thanikaiselvan V	1689
322	An Integrated Approach Towards Stock Price Prediction using LSTM Algorithm Kummari Vikas, Kamal Kotgire, Bayyapu Sai Prudhvi Reddy, Akula Sai Krishna Teja, H Venkateswara Reddy, Shobarani Salvadi	1696
323	Microcontroller based Wheel Alignment and Compulsion Scrutinizing System G. Ramesh, P. Manikandan, MSSD. Amruth, B. Pavan Ramanendra Swamy, B. Revanth Kumar, CH. Manish Venkata Satyanarayana	1700
324	Diabetes Prediction using Random Forest Classifier with Different Wrapper Methods Usha Nandhini A, K. Dharmarajan	1705
325	Fish Species Detection and Tracking based on Fusion Intensity Entity Transformation using Optical Flow Algorithm V. Ananthan	1711