2022 International Conference on Inventive Computation Technologies (ICICT 2022)

Lalitpur, Nepal 20-22 July 2022

Pages 1-687



IEEE Catalog Number: ISBN:

CFP22F70-POD 978-1-6654-0838-7

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:
 CFP22F70-POD

 ISBN (Print-On-Demand):
 978-1-6654-0838-7

 ISBN (Online):
 978-1-6654-0837-0

ISSN: 2767-777X

Additional Copies of This Publication Are Available From:

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

Fax: (845) 758-2633

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



5th International Conference on Inventive Computation

Technologies ICICT 2022

20-22, July 2022

Table of Contents

S. No	Paper Title/ Author Name	Page No
	Provably Secure Pseudonyms based Authentication Protocol for Wearable	
1	Ubiquitous Computing Environment	1
	Vincent Omollo Nyangaresi	
	Inverse Reinforcement Learning via Deep Gaussian Process for Reactive Collision	
2	Avoidance in Dynamic Environments	7
	Saugat Shahi, Heoncheol Lee	
	Blockchain Solutions for Covid - policy Enforcement Versus Food Security: A	
3	Demonstration of Customizable Benefits of Blockchain for e-Governance and e-	10
3	Business	12
	Shiri Vivek, Rolika Dalela	
	Deep Neural Network Models for Diagnosis of COVID-19 and Respiratory Diseases	
4	by Analyzing CT-Scans and Explainability using Trained Models	16
	Tahsin Islam, Shahriar Absar, S. M. Ali Ijtihad Nasif, Sadman Sakib Mridul	
	Self-Moving Sediment Removal of Water Bodies using Machine Learning	
5	Techniques (Aqua Redeemer)	24
	Dharanika.T, Abu Thahir.M, Guruprasaath. A, Abishak.T, Kautham D. V	
6	Repercussion of Expressions in Facial Age Estimation	30
0	A. Deepa, Sasipraba. T	30
7	Image Encryption using Reverse Data Hiding Algorithm with Triple DES	36
/	Divya Vadlamudi, Rayavarapu Jayanth Kumar, Cherukumalli Nikhil Sai	30
8	Prevention and Retrieval of Children from Borewell using Arduino	42
0	Akhil Nair U, Babu R, Balakrishnan M, Dhanaraja Sekar S, K. Lakshmi	42
9	MPPT and ANN based Solar Tracking System using Photo Diode Sun Sensor	46
,	Sathish R, Vinod Kumar D, Jeyaganesan C	40
	Hope Speech Detection in Tamil and English Language	
10	Medicharla Dinesh Surya Sai Eswar, Nandhini Balaji, Vedula Sudhanva Sarma,	51
	Yarlagadda Chamanth Krishna, Thara S	
	Bangla Font Recognition using Transfer Learning Method	
11	Md. Sakibul Hasan, Golam Rabbi, Rejoan Islam, Md. Hasan Imam Bijoy, Md. Azizul	57
	Hakim	
12	A Review - ML and DL Classifiers for Emotion Detection in Audio and Speech Data	63
12	Yogeshkumar J Prajapati, Priyesh P. Gandhi, Sheshang Degadwala	05
13	An Improved Chatbot for Medical Assistance using Machine Learning	70
13	Achuthan. S, Balaji. S, Thanush. B, R. Reshma	70
	Differential Evolution based Compression of CNN for Apple Fruit Disease	
14	Classification	76
	Mohit Agarwal, Rohit Kr Kaliyar, Suneet Kr Gupta	
	Audiobooks that Converts Text, Image, PDF-Audio & Speech-Text for Physically	
15	Challenged & Improving Fluency	83
	Kurra Santhi Sri, Chennupati Mounika, Kolluru Yamini	

16	Hierarchical K-Means Clustering Method for Friend Recommendation System Anju Taiwade, Nitish Gupta, Rakesh Tiwari, Shashi Kumar Jain, Upendra Singh	89
17	Privacy Preservation of Medical Health Records using Symmetric Block Cipher and Frequency Domain Watermarking Techniques Dharmika B, Ch. Rupa, Haritha D, Vineetha Y	96
18	Analysis of Noxious Comments using Machine Learning Algorithms R Rahul, Reddygari Varun Kumar Reddy, Murlidhar Mourya	104
19	Prediction of Delayed Trauma Following an Ischemic Stroke using Comparative Machine Learning Study Sakshi Mhatre, Megha Trivedi, Manasvi Mhatre	110
20	Software Defect Prediction based on Machine Learning and Deep Learning Prathyusha Tadapaneni, Naga Chandana Nadella, Mudili Divyanjali, Y. Sangeetha	116
21	Classification of Marine Vessels using Deep Learning Models based on SAR Images Aneesh Reddy Sannapu, Padmalaya Nayak, Uppala Rishik Charan, Shiva Keshava G, Krishnan Naidu S	123
22	HR based Chatbot using Deep Neural Network Rachana T. V ,Vishwas H. N, Priyanka C.Nair	130
23	Classification and Comparison Study of Rice Plant Diseases using Pre-Trained CNN Models Raja Krishna Vamsee Kongara, Venkata Siva Charan Somasila, Nallamolu Revanth, Rama Devi Polagani	140
24	O-RDHF: Optimized Reversible Data Hiding Framework for Media Information Security Manjunath Kamath. K, R Sanjeev Kunte	146
25	Trust in Cloud: Perspective from Access Control Models and Machine Learning-A Detailed Study S. T. Bharathi, C. Bala Subramanian	153
26	Computing Survey Assessing Digital Business Status: Simaon's Pradu Hang Dam Thai Native Chicken Farm Yasinee Chakrabandhu, Suwit Chotinun, Pornchai Rachtanapun, Chalalai Jaisan, Suphat Phongthai, Phatthranit Klinmalai, Siriwat Jinsiriwanit, Thanapong Chaichana	161
27	Design Automation of Two-Stage Operational Amplifier using Multi-Objective Genetic Algorithm and SPICE Framework Purvi Das, Babita Jajodia	166
28	Career Choice using Machine Learning Algorithms Borra Harsha, Nandeti Sravanthi, Nagella Sankeerthana, Manne Suneetha	171
29	Nearpod as a Gamification Resource for Teaching in Virtual Education: a Mathematical Case Study Silvia Elizabeth Freire Espín, Diego Marcelo Rodríguez Cortez	177
30	Sound Classification using Deep Learning for Hard of Hearing and Deaf People Md. Adnan Habib, Zarif Raiyan Arefeen, Arafat Hussain, S. M. Rownak Shahriyer, Tanzid Islam, Rafeed Rahman, Mohammad Zavid Parvez	184
31	Mobile Tourism, the use of QR Codes and the Diversification of the Tourist Offer Angélica González-Sánchez, Marlene Coronel- Grados, Cristina Villacís-Mejía, Luis Ludeña- Villacís	191
32	Image Processing Techniques in the Detection of Hemorrhages in Retinal Images (STARE & DRIVE) M. Padmapriya, S. Pasupathy, V. Punitha	197

33	FPGA Implementation of High Performance Precise Signed and Unsigned Multiplier using Ternary 6-LUT Architecture Palle Mahendra, Ramesh S R	202
34	Emotion Recognition using Nonverbal Cues Dudla V Joshita Lavanya, Vemula Bhargavi, Gaddala Madhu Priya, Mande Ramesh	208
35	A Password Secure Mechanism using Reformation-based Honey Encryption and Decryption Nirmalraj T, J.Jebathangam	214
36	Multi-Lingual Meta Embeddings in LinCE Data Set T Ravi Teja, Thara S, K Sai Rahul, R Dinesh Kumar Reddy	221
37	Detection of Tuberculosis using Machine Learning Techniques and Image Preprocessing Rubeena Rustum, G. Charles Babu, P. Praveen, V. Lakshmi, Tabitha Indupalli, A. Sowjanya	226
38	Pivot Based Seed Germination Assessment (PBSGA) Pattern for Germination Quality Analysis M. Rudra Kumar, Avinash Sharma, K Sreenivasulu, G. Ramesh	230
39	Resume Screening using NLP and LSTM S Bharadwaj, Rudra Varun, Potukuchi Sreeram Aditya, Macherla Nikhil, G. Charles Babu	238
40	Data Analytics based Gender Stereotypes Represented in the Audiovisual Narrative of the Series "You" Jeri-Condori Nataly Silvana, Villanueva-Pastrana Enzo Javier, Turriate-Guzmán Adriana Margarita	242
41	Implementation of an Active Noise Cancellation Technique using Deep Learning Akarsh S. M, Rajashekar Biradar, Prashanth V Joshi	249
42	Development of Blockchain in Smart Grid using IoT Jasrin Shiddike, Afsana Ahmed, Mohammad Farshid, Prapty Das Oaishe	254
43	Machine Learning on Web: Skin Lesion Classification using CNN Senthil Kumar R, Amarjeet Singh, Sparsha Srinath, Vishal Arasu, Nimal Kurien Thomas	260
44	A Secure and Efficient Location Based Routing to Maximize the Lifetime of MANET Hemalatha.M, M. Mohanraj	266
45	Detection of Defected Maize Leaf using Image Processing Techniques Arabinda Dash, Prabira Kumar Sethy	271
46	Near Field Communication based Smart Augmented Reality System Chaitanya Kumar A, Ishwara Prabhu S, Jegadeeshwaran T, Guga Priya G	276
47	Hybrid Feature Set based Mitotic Detection in Breast Histopathology Images Deepak Naik M V, Adarsh S, Sreekumar Vijayakumar, Abhay P Nambiar, Lekha S Nair	281
48	Classifying Speech into Offensive and Hate Categories along with Targeted Communities using Machine Learning Apoorv Aditya, Rithwik Vinod, Ashish Kumar, Ishan Bhowmik, J. Swaminathan	291
49	Energy Efficient Cloud Task Scheduling Policy using Virtual Machine Concept and VMRRU Technique Ruchi Soni, Neetesh Kumar Gupta	296
50	Enhancing Unpaired Underwater Images with Cycle Consistent Network Srigowri M V	305

51	Watermark based Image Authentication using Integer Wavelet Transform Bibek Ranjan Ghosh, Siddhartha Banerjee, Jyotsna Kumar Mandal	312
52	Hyper-Tuned Ensemble Machine Learning Model for Credit Card Fraud Detection Bholeshwar Prasad Verma, Vijayant Verma, Abhishek Badholia	320
53	Impact of Blockchain Technology in 6G Network: A Comprehensive survey G Bindu, Iwin Thanakumar Joseph S, V Raviteja Kanakala, G L K Niharika, Benson Edwin Raj	328
54	Construction of International Communication Real- Time System based on Cross- Platform Virtual Cloud Online Data Transmission Algorithm in Post- Epidemic Era Jiaqi Lu	335
55	Store-sales Forecasting Model to Determine Inventory Stock Levels using Machine Learning Akanksha, Devesh Yadav, Deepak Jaiswal, Ashwani, Ashutosh Mishra	339
56	Performance Analysis of E-certificate Generation and Verification using Blockchain and IPFS Manjula K Pawar, Prakashgoud Patil, Ridham Sawhney, Prem Gumathanavar, Shraddha Hegde, Kavya Maremmagol	345
57	Hybrid Feature Selection using Shapley Value and ReliefF for Medical Datasets Neesha Jothi, Sharifah Mashita Syed-Mohamed, Heshalini Rajagopal	351
58	A Convolutional Autoencoder based Keyword Spotting in Historical Handwritten Devanagari Documents Sushma S. N, Sharada B	356
59	An Experimental Study of Parallelism in Different Python Frameworks Jerome Joseph T, J. Swaminathan	363
60	Tomato Leaf Disease Detection using Image Processing M. Senthamil Selvi, S. Jansi Rani, A. Nisha, K. Sneka	367
61	Driver Assistant System using Yolo V3 and VGGNET S. Jansi Rani, S Uthirapathi Eswaran, A V Vedha Mukund, M Vidul	372
62	Blockchain Adherence to System Reliability and Security Nilton Paulo Raimundo Mendes, Jorge Rady de Almeida Júnior	377
63	Interrelation between Temporal Coordinates and Intrusion Detection Techniques in Cyber Physical Systems Stalin Jacob, G Balanagireddy, K SureshKumar, M. M. Vijay	386
64	A Study on Machine Learning based Diabetic Retinopathy M D Shreyas, Asha Rani K P, Gowrishankar S	391
65	Potential Applications of Fuzzy Logic Controller in the Pulp and Paper Industry – A Review Pradeep Kumar Juneja, Sandeep Kumar Sunori, Mehul Manu, Priyanka Joshi, Somesh Sharma, Prakash Garia, Amit Mittal	399
66	Transform based Lightweight CNN Models for Image Classification Srijith M Nair, Geetha M	402
67	Automobile Price Prediction using Regression Models Rupesh Gupta, Avinash Sharma, Vatsala Anand, Sheifali Gupta	410
68	FndIP: Fake News Detection on Social Media using Incompatible Probabilistic Method Rohit Kumar Kaliyar, Anurag Goswami, Mohit Agrawal	417
69	Integrated Platform for Patient abnormality detection through GEM enabled Deep Transnet R. Vajubunnisa Begum, K. Dharmarajan	423

70	(LISACMT) Language Identification and Sentiment Analysis of English-Urdu 'code-mixed' Text using LSTM Gazi Imtiyaz Ahmad, Jimmy Singla	430
71	CatBoost and Genetic Algorithm Implementations for University Recommendation Systems M. G. Christopher, Jiby Maria Jose, Muhammed Nihal K. V, Tijo Thomas, Rumaise, Shajulin Benedict	436
72	Breast Cancer Classification using Ensemble of Machine Learning Boosting Algorithms Md. Kamrul Hasan, Md. Tasnim Jawad	444
73	Tor vs Yggdrasil: A Comparative Study of Two Different Communication System Kushal Kothari, Tejal Palwankar, Ayush Dubey, Priya Parate	452
74	Stage Wise Prediction of Covid -19 Pneumonia from CT images using VGG-16 and SVM Bipin Nair B J, Akash S, Smaran R, Hemanth V, Satvik Bhat	457
75	An Effective Long Short-Term Memory based- Driver Identification in ITS Ankit Manderna, Sushil Kumar	464
76	Convolutional Neural Networks for the Intuitive Identification of Plant Diseases D. Ramesh Reddy, K. Naga santhosh, Prakash Kodali	470
77	An Implementation and Evaluation of Blockchain-based Digital Health Passports Ajay Bandi, Aziz Fellah	476
78	Vehicle Movement based innovative Smart highway Lighting System Sophiya Susan S, Aakash Praveen Raj, Ashutosh Mishra, Vachan Thambi	483
79	Building Tamil Text Dataset on LGBTQIA and Offensive Language Detection using Multilingual BERT Lavanya S.K, Subalalitha Chinnaudayar Navaneethakrishnan	489
80	Alzheimer's Disease: Early-Stage Prediction and Classification using Multi-Model Technique M. Sudharsan, G. Thailambal	497
81	Crowdfunding Charity Platform using Blockchain S.Saranya, Sai Phanindra Muvvala, Vitul Chauhan, Raja Satwik	503
82	Integrated Security Systems using Big Data S. Uma Maheswara Rao, Lakshmanan L	510
83	Automatic Speech Recognition for the Nepali Language using CNN, Bidirectional LSTM and ResNet Manish Dhakal, Arman Chhetri, Aman Kumar Gupta, Prabin Lamichhane, Suraj Pandey, Subarna Shakya	515
84	Blockchain-based Food Tracking for Intelligent Farming using IoT Praveen Mishra, B. Mohanraj, Gajjala Savithri, M Roshini, R. Krishnamoorthy, S. Arun	522
85	Real Time Safe Social Distance and Face Mask Detection using YOLO Algorithm and Deep Learning Pushpa Latha Soniya, Velayutham R	528
86	Arduino based Maritime Border Alert System for Fisherman Lijo Jacob varghese, A. Sakthivel, J. K. Saran Kirthic, S. Sharan, R. Shri Pavithra	533
87	Advanced Pre-Ambulance Detection System of Autostretcher Motion to ICU Ward G. Sukanya, V. Manimegalai, S. Sudhakar, M. Nandhini, D. Sumithra, M. Manivenkat Raj	539

88	Model Identification and Controller Simulation for Distillation Column Sandeep Kumar Sunori, Kavita Ajay Joshi, Shweta Arora, Madan Mohan Sati, Farha Khan, Amit Mittal, Pradeep Juneja	545
89	Soft Starting of Induction Motor using MOSFET K.P. Suresh, P. Kaleeswaran, E. Madhumitha, V. Meyvigneshwar, K. Mugundhan, P. Padmaselvi	551
90	Auto Operation and Monitoring of Transformer using IoT Applications Sathish R, Vinod Kumar D, Muthusami C	557
91	Certain Investigation on Impedance control of High Speed signals in Printed Circuit Board Shan A, V R Prakash	564
92	Methodology for Low-Cost Self Reconfiguration Process S. Saravanan, B. Ragav Raj Kumar, S. Rishi Kumar, R. Sarudharshini, S. Shankar	570
93	Load Sharing Backup Battery in Electric Vehicle using PV Array A. Elakya, V. Sheeba, R. Tharani, M. Swetha, A. Wilson Thomas	575
94	Design of Solar PV Emulator using Raspberry Pi Controller Abhishek R. S, Dhanus Kanth A, Hariharan S, Hariharasudhan S, S. Saravanan	581
95	Two-level Filtering Method with Extended Lasso and Information Gain in Microarray Data Analysis Sarvani Anandarao, Madhavi Reddy Y, Lavanya Kampa	585
96	Comparative Study on Various Low Code Business Process Management Platforms N. Krishnaraj, R. Vidhya, R. Shankar, N. Shruthi	591
97	Internet Model Construction of Football Sports Propagation based on Automatic Camera Action Collection and Image Enhancement Algorithm Hongquan Hu	597
98	Moisture, Retention and Color Control Strategy in a Paper Mill – A Review Pradeep Kumar Juneja, Parvesh Saini, Ashutosh Dixit, Niharika Varshney, Sandeep Kumar Sunori	601
99	RF Energy Harvesting System: Design of Antenna, Rectenna, and Improving Rectenna Conversion Efficiency Mayur Rele, Dipti Patil	604
100	Analysis of DC Motor Speed Control and Interfacing it with Drowsiness Detection Atharva Sulakhe, Arjeet Anand, Akshwin Kisore, Nandha Kishore R B, Malayakumar Hota	613
101	Height and Weight Estimation of an Individual from Virtual Visuals Sairam Maganti, Mahidhar Yalamanchili, Pranai Sri Bandy, Sumesh K J	617
102	An Efficient Clipping Method for PAPR Reduction in OFDM Systems Vijaya Kumar Padarti, Chandini Dasari, P V Venu Gopal Dokala, Venkata Sravya Chowtapalli, L V Rama Kowshik Avula	624
103	Projective Synchronization of Uncertain Chaotic Systems with Different Dimensions and External Noise Disturbance Nisha Yadav, Himesha Handa	630
104	A Circular Microstrip Antenna for K Band Applications Banuprakash.R, Manushree N, Subhiksha AP, Wadhwa Simran Deepak	636
105	Design and Implementation of a Rescue and Surveillance Robot using Cross-Platform Application P Jeevan Narayana Raju, Venkata Gaurav Pampana, Vikranth Pandalaneni, G Gugapriya, Chanthini Baskar	644

106	Mean-Shift and Local Outlier Factor-based Ensemble Machine Learning Approach for Anomaly Detection in IoT Devices	649
107	Amit Kumar Gulhare, Abhishek Badholia, Anurag Sharma Design of Voice Controlled Multifunctional Computer Numerical Control (CNC) Machine	657
107	Gayathri. N, Sundar. M, Sargurunathan. R, Sudharsan. R, Sajith A Sustainability of Electric Vehicle in India	
108	Rajkumar Kaushik, Shilpa Soni, Anchal Swami, Chirag Arora, Neha Kumari, Rahul Prajapati	664
109	FLIP60-AR based Application for Elders N. Laxmi Kalyani, Movva Manish Srinivas, Pasupunooti Sri Harika, Polepaka Rohit, Muthyala Lalitha Sri, S. Nagini	668
110	Mitigation of Voltage and Current Harmonics using Modified IC based MPPT Controller and LCL Filter in a GCSPV System Siddeshgowda S, M H Sidram	674
111	Electroencephalography (EEG) based Home Automation for Physically Challenged People using Brain Computer Interface (BCI) Lavanya Lanka, Dileep Kumar Dhulipalla, Suzan Blessy Karumuru, Nikhil Sai Yarramaneni, Venkata Rao Dhulipalla	683
112	Investigations on IoT with SWIPT-NOMA Combination in Wireless Sensor Networks Reginald Jude Sixtus J, Tamilarasi Muthu	688
113	Optimization of Redirection Algorithm based on Cache Technology in Programming Implementation of College Students' Mental Health Education Information Platform Zheng Gao, Jingke Lu	694
114	A Resistance Detection Device for Microelectronic Semiconductors: from Signal Detection to Fusion Analysis Peng Yuan, Qi Han, Yu Li, Tao He, Huixiang Huang, Jinhai Chen	698
115	Research on Positioning Accuracy of Welding Robot based on Visual Data Mining and Pattern Fusion Analysis Algorithm Yanping Shen, Mengxi Hu, Kai Teng, Caoqi Zhang, Xiang Yang, Wen Liu	702
116	A Navigation Aid Control Method in Restricted Waters based on Differential Scintillation: Analysis from the Perspective of Real-Time Remote Sensing Images Qi Han, Peng Yuani, Yu Li, Tao He, Huixiang Huang, Jinhai Chen	706
117	Simulation Application of Finite Element Analysis Software HFSS in Antenna Engineering Design Under the Background of Big Data Han Zhenhua, Aidehaijiang Manafu	710
118	Computer-guided Design of Effective Guidance Platform for Music Appreciation based on Mixed-Frequency Signal Recognition Algorithm Hong Zhang	714
119	A Dynamic Prediction Platform for Semiconductor Technology Improvement Trends and Related Enterprise Value based on Poisson Estimation Baiyu He	719
120	Modeling the Binary Game Model of the Economic and Social Attributes of Cultural Industry from the Perspective of Information Fusion Xuan Mai Bui, Zhu Fan	724
121	Correlation Modeling Algorithm of CEO Cultural Heterogeneity Monitoring and R & D Expenditure on Enterprise Asset Value based on EEG Data Acquisition Equipment Chia-Hsien Tang, Li Wei, Yen-Hsien Lee	728

122	Concurrent Testing and Research on the Reform Platform of College Guiding Management and Service Reform based on Decentralized Disaster Recovery Backup Wanbin Zhao	732
123	An Efficient VLSI Design of 4-bit ALU E Vijaya Babu, Y Syamala	736
124	Computer Aided Realization of Gesar Cultural and Creative Product Design System based on Interactive Algorithm and Cyclic Graph Theory Model Suo Lang Sang Ge	742
125	A Novel Channel Estimation Scheme for MIMO-OFDM Systems based on CDD C Geetha, M Vanitha, A. Parimala, D. Kalaiarasi	747
126	Advanced CO2 Ball Equipped Fire Extinguishing Unmanned Aerial Vehicle Swapna. P, Aiswarya. T, Arun Kumar. S, Aravinthan. V, Karthikeyan. S	754
127	An Upgraded Bidirectional T-type Multilevel Inverter for Electric Vehicle Applications P. Lenin pugalhanthi, Balaji. S, Bharath. R, Hari Krishna. G, Kishore. S	759
128	Evaluation of Three-Phase and Single-Phase Failure SFCL and DVR Mechanisms M. Siva Ramkumar, A. Amudha, G. Emayavaramban, K. Balachander, Vijayakanth S, Gunasekaran M, Dhilipkumar B	765
129	Large Scale Grid Connected System Analysis for Hybird Power Generation and Storage Power Management System A. Amudha, M. Siva Ramkumar, K. Balachander, G. Emayavaramban, Manikandan S, Ragul M, Saravana Kumar S, Satheesh Kumar R	771
130	A Wearable Safety Device for Women using IoT Priya C, Ramya C, Naresh, Mohit, Meager Pravin, Akkash	778
131	Design of Sequential and Concurrent based High Speed Multiplier in DSP Application Brightny A, Rajakumar G, Pooja Sen S, Carlus D Rebeak	783
132	Data Matrix Mining Algorithm Optimization Promotes the Construction of a Decentralized Platform for Teaching Evaluation in Universities Wanbin Zhao	792
133	Intelligent Algorithm Design and Program Simulation of Lexical Cohesion Method based on Perceptual Pattern Recognition Algorithm in College English Writing Yi Cai	796
134	Performance Assessment of Simulink based Speech Radio Band Extension Technique on Elderly People R. Praveen Kumar Emani, Pitchaiah Telagathoti, Prasad N	800
135	Design and Implementation of Advanced Controller for Aircraft Control S. Sathya, K N Karthick, Hemachandra Gudimindla, AkshadaKulkarni, M. Deivakani, Arshad Mohammed, Siva Ramkumar M	805
136	Isolated DC–AC Matrix Converter based Renewable Energy System for Improving Power Quality using Proportional Integral (PI) Controller Technique Suresh N, Dilli Srinivasan, K. Arulvendhan, BabooBarik	812
137	Bidirectional Tee-type Multilevel Inverter Hardware Design and Implementation for Electric Vehicle Applications Balachander K, Amudha A, Ramesh G S	819
138	Monitoring Novel Corona Virus using Machine Learning M.Mohan, Vansh Agrawal, Mehak Malik, Atul	824
139	A Deep Learning-based Approach on Vehicle Detection, Tracking, and Counting System	831

	N. Rajavinu, B. Swaminathan, Shameer A P, Dwaitha Jagadish, Debarati Ghosal,	
140	Pramit Brata Chanda Data Convolution Clustering Algorithm of Sports Computer Intelligence Training and Financial Management System based on C++ Programming Cheng Yang	837
141	Realization and Optimization of English Smart Teaching Environment based on Real-Time Action Data Computer Acquisition Algorithm Fei Xue	842
142	Multi-port Realization of Modeling Platform for Impact of Negative Financial Information on Market Stock Price Fluctuation based on Crawler Network Analysis Algorithm Fang Yin	847
143	Optimization of Intelligent Student Educational Smart Cloud Architecture based on Computer Topic Generation Algorithm Cheng Li	851
144	HDP-IoT: An IoT Framework for Cardiac Status Prediction System using Machine Learning Vijaya Vardan Reddy S P, Armstrong Joseph J, Priscilla M, Anvar Shathik J, R. Thandaiah Prabu	855
145	Research on Dust Prevention and Control based on the Construction of Smart Wharf Huihui Hu Shiyong Cao, Yang Xu	862
146	An Intelligent Failure Free Data Communication Model using Predicted Remaining Deliveries Scheme S. Dhanasekaran, P. Vijayakarthik, D. Gobinath, N. Nithiyanandam, A. Sivanesh Kumar, S. Agnes Shifani, U. Muthuraman,	866
147	An Automated Technology for IoT based Rail-Track Inspection to Locate Surface Flaws by Robotics and Neural Networks B Uma Maheswari, P Nithya, Sreeja Vijay, K. Tamilarasi, Anitha G, N. Muthukumaran	873
148	Application and Parallel Sandbox Testing Architecture for Network Security Isolation based on Cloud Desktop KaiZhen Ye	879
149	Research on Robustness of Network Security Vulnerability Detection Algorithm based on Recurrent Bayesian Networks Jian He, Yan Hu	883
150	Quantitative Analysis and Research on the Multicast Algorithm of Distributed Blockchain-Oriented e- commerce System in Village Revitalization Zhenghua Zhao, Yang Yang	887
151	Superintendence of Spectrum in 6G era: an Appraisal Shylaja P	892
152	Convolutional Neural Network for Speaker Recognition Embedding with Biometric System Priyadharshini. A, Balakrishnan. R, Mohamed Shazuli S, Gunapriya D, Deepthi Joseph	896
153	A Secured Storage Scheme for Cloud Environment using ECC-IRNS based Deduplication Approach Lenin J, Rasina Begum B, Sheik Yousuf T, Karthikeyan R	901
154	A Novel Credit Grounded Job Scheduling Algorithm for the Cloud Computing Environment B. Sundaravadivazhagan, V. Malathi, V. Kavitha	912

	Energy Efficiency in Cloud Computing using Hybrid Algorithm	222
155	Najiba Said Hamed Alzadjali, Nusrat Jabeen T, Hannah Vijaykumar, Maheswari K	920
156	Cloud Computing Elastic Storage System for Storage Optimization	928
156	G. Aarthy Priscilla	928
	Multidimensional Information Security Guarantee Strategy for Scientific Information	
157	of University Administrative Management System based on Data Matrix Algorithm	935
	Pei Wei	
	Customer Identification in Healthcare using an IoT-based Multimedia Traffic	
158	Categorization Method	940
130	R. Sridevi, Praveena Nuthakki, Sreeja Vijay, Saroj Kumar Nanda, D. Arulanantham,	7-10
	R. Thandaiah Prabu	
	A Novel Modulation and Multiplexing Schemes for Analysis of Wireless High Speed	
159	Optical Fiber Communication System	947
	S Priyadharshini, L Ashok Kumar, M Sathya Priya, Samuthira Pandi V	
	Energy Efficient Enhanced LEACH Protocol for IoT based applications in Wireless	
160	Sensor Networks	953
	R. Ramya, Sathiyandrakumar Srinivasan, K Vasudevan,I Poonguzhali	
161	Enhanced IoT based Approach to Provide Secured System	962
	R. M. Dilip Charaan, Aron James S, D. Arul Kumar, M. D. Manigandan	
1.60	Insider Attack Detection and Prevention using Server Authentication using Elgamal	0.67
162	Encryption	967
	Sai Akshara Vemuri, Gogineni Krishna Chaitanya	
1.62	Editable Hardware Design of Smart Physical Education Training System based on	072
163	Body Image Positioning Algorithm	973
	Xiaoxiang Shen, Zhen Guo Realization of Computer-Assisted Language Reading Training Platform based on	
164	Non-Destructive Scanning Technology and OCR Recognition Optimization	977
104	Xiaofang He	911
	Multiple Class Breast Cancer Detection Method based on Deep Learning and	
165	MIRRCNN Model	981
105	Sajiv G, Ramkumar G	701
	Shilling Attack Detection System for Online Recommenders	
166	J. R. V. Jeny, R. Sowmya, G. Sai Kiran, M. Kiran Babu, Ch. Arjun,	988
	Facial Recognition based Attendance	
167	P. Renukadevi, Avb Dakchinamoorthy, Anish. T. P, Shyam. R. S, K.	993
	Chidambarathanu	
	Detection and Diagnosis of Meningioma Brain Tumors using Proposed CNN	
168	Architecture	999
	J. Jasmine Hephzipah, T. D. Subha, K. Neela, Sushmitha, Anvitha	
	A Combined Deep CNN-LSTM Network for Chromosome Classification for	
169	Metaphase Selection	1005
	Meenakshisundaram. N, G. Ramkumar	
	Construction and Implementation of a Data-Oriented Platform for Rural Ecological	
170	Entrepreneurship based on Rural Remote Sensing Image Change Detection	1011
170	Algorithm	1011
	Zhimin Liang, Xinhua Xia, Bo Zhou, Huizhen Wu	
	An IoT Assisted Secured Healthcare Management Scheme based on RFID and	
171	Crypto Security Enhancement Model	1016
1/1	A. Sivanesh Kumar, D. Gobinath, N. Nithiyanandam, P. Vijayakarthik, S.	1010
	Dhanasekaran, G. Vinoth Rajkumar	

172	Sign Language Interpreter R. Brindha, P. Renukadevi, D. Vathana, Jeyakumar.D	1024
173	An Efficient Model for Predicting Admission at Emergency Department using Data Mining T. Judgi, N. Srinivasan, T. Prem Jacob, A. Pravin, C. M. Suja	1029
174	ASVM: Adaboost with SVM-based Classifier Implementation for Aspect-based Opinion Mining to Appraise Products Blesslin Sheeba. T, T. Manimegalai, S. Ananthi, S. Kamatchi, Anitha G, U. Muthuraman	1034
175	Design and Implementation of Book Lending System based on Web and Data Mining Middleware Lu Pang	1042
176	Smart Motion Capture and Scoring System for Taekwondo Training based on Camera Network Technology Yongzhi Yang	1047
177	Comparison Study on SPN Type Light Weight Cryptography Algorithms for IoT Sivakumar. R, J. Jayapriya, N. Krishnan	1051
178	Construction and Implementation of Intelligent Platform for Sports Training based on Multi- Dimensional Image Modeling Qiulai Wu, Huan. Zhou	1056
179	Simulation and Efficiency Optimization Algorithm of Virtual Logistics Transmission Network based on RFID Tag Dalong Liu, Yanfang Pan, Yanxuan Li, Zhong Zheng	1060
180	Research on Intelligent Information Collection of Business Negotiation System based on Speech Rate Change Recognition Algorithm Yanjun He	1065
181	Construction of Neural Conditioning Vocal Training System based on Neural Computing and Applications (NCAA) Model Minghui Niu	1070
182	Intelligent Questionnaire Processing Information System for Precise Employment in Colleges based on Intelligent Interactive Testing Algorithm Pei Huang	1075
183	Research on a Chinese Character Recognition Framework based on Multi- dimensional Image Information Li Guo	1080
184	Research on Dynamic Modeling Algorithm of College Students' Learning Motivation Factors based on SPSS and Artificial Intelligence Testing Machine Suyun Yang	1085
185	Online and Offline Integration of Smart Educational Monitoring System based on Face Recognition Smart Sign-in Devices Danxia Zhu, Xiaozhong Shen	1090
186	JQuery Implementation of Online Platform for University Human Resource Management Mode based on Multi-Centralized Networking Algorithm Yue Lu	1095
187	Design of Mathematical Online Training Interactive Framework based on AI-assisted Data Modeling Algorithm Visualization Process Lihong Xue	1099
188	Application of Semantic Segmentation based on Deep Learning in Dim Environment Li Ma, Xin Guo, Xiaojiao Zhang	1103

189	Security Policy System for Cloud Computing Education Big Data: Test based on DDos Large-Scale Distributed Environment Zhiyi Xing	1107
190	Complex Pattern Recognition and Understanding Model in English Linguistics based on Random Walk and Measure Analysis Algorithm Zhao Zhao, Jianghong Meng, Yanru Li	1111
191	Research on C++ System Practice of Online Auxiliary Teaching Platform based on Trusted Data Analysis Meizhong Huang	1115
192	Implementation of CUDA and Hadoop based system for Intelligent Guiding Evaluation Algorithm based on Data Center Data Mining Yan Li	1119
193	Two-dimensional Data Network Modeling of Computer Network Teaching and Innovation Ability Cultivation Yue Qian	1126
194	Online Training Platform for Foreign Language in Colleges based on Computer-Aided Clustering Algorithm of Embodied-Driven Efficacy Data Qingyun Shu	1130
195	Social Network Information Dissemination and Prediction Algorithm based on Computer Pattern Modelling and Node Estimation Wei Gao, Zhen Chen	1135
196	Optimization of Intelligent Informatization Distributed System for Political Training Support Service based on Flux Architecture Yanxia Ma	1139
197	Hadoop Data Mining Analysis of Network Education Platform based on PDM New Media Data Perspectives Yuxia Han	1144
198	Platform Construction of Intelligent Machine Algorithm and Practical Guidance Course for Overlapping Data Monitoring Guiding Russian- Chinese Translation Guang Feng	1148
199	University Internal Control Detection Platform based on Ubiquitous Distributed Data Sensing and in-Depth Analysis Algorithm Ting Liu	1152
200	Optimization Analysis of Start-up Automation and Debugging Technology for High-Voltage Machinery and Electrical Equipment Xianglong Huang	1156
201	C# Realization of Online Stability System for Primary Art Classroom based on Multi-Dimensional Information Technology Integration Platform Technology Xiaoli Liu, Guoqun Guo	1160
202	The Design of the Multimedia System for the Informationization of the Party Building Work in the Primary Party Organizations of Colleges in the New Era Hui Wan, Yu Wang	1164
203	The Application of Artificial Intelligence in the Landscape Design of Humanized Places: from Focus Recognition to Straight Line Detection Algorithm Shuanghong Cheng, Chunyan Wu, Fancui Wei, Yonglin Wang, Youguo Wang, donghuili, Hui Wang, Zhongliang Xu	1168
204	Prediction Algorithm of Guiding Effectiveness based on Fuzzy Data Network Structure Specification with Character Color Class Zhenping Yuan	1172

205	Java Implementation of Teacher Information Ability Measurement and Analysis Intelligent System (AMAIS) based on ICT-TPACK and Recurrent Neural Network Kuiliang Fu	1176
206	Online Immersive Platform Image Processing Algorithm for Art Courses based on Virtual Equipment Digital Media Technology Xiaoli Liu, Guoqun Guo	1181
207	An Early Warning Mechanism for the Environmental Carrying Capacity of Forest Tourist Attractions and Hotels Online Operations based on Big Data Integration Technology Shuaishuai Hao, Lijuan Lian	1185
208	Japanese Multimodal Guidance Framework based on Computer Network Ecological Environment Weijie Yao	1189
209	The Design of the Informatization System Developed by the Local Medical Colleges under the Background of Rural Revitalization Zhang Liping, Yao Zufu, Yang yang, Yang Zilu, Guo Yiqing	1193
210	Network culture-oriented Monitoring of Colleges based on Word Vector and Data Stream Clustering with New Development Concept Ruiping Chen	1197
211	XML Interactive Data Analysis of Online Solutions for Students' Innovative Ability Training Integrating Engineering Intelligent Information Algorithms Zhengli Zhang	1202
212	Traffic Prediction for an Intelligent Transportation System using ML Maithili Saisree Medikonduru, Aswini Devadari, Sravani Chowdary Kasaraneni, Moksha Bhavani Thota, Sri Harsha Yakkala	1206
213	User-Centered Evaluation and Design Suggestions for NFT Marketplaces S. Viannis Murphy Caxton, K. Naveen, R. Karthik, S. Sathya Bama	1214
214	Online Harassment Detection using Machine Learning Raj Ahirwar, M. Ajay, N. Sathyabalan, K. Lakshmi	1222
215	C++ Implementation of Intelligent Information Platform (IIP) for Tax Planning of SMEs under the New Accounting Standards of Abnormal Data Mining Ruipeng Gu	1225
216	An Automated Self Rating Questionnaire Assessment Tool for the evaluation of Entrepreneurial Competencies using SVM Algorithm Aruna P, Christy Sujatha D, Surya Prakash S, Prince R	1230
217	Advanced Deep Learning Techniques with Attention Mechanisms for Acoustic Emotion Classification S. Jothimani, S. N. Sangeethaa, K. Premalatha	1235
218	Fake News Detection using Voting Ensemble Classifier Reshmi T S, Daniel Madan Raja S	1241
219	NBA web portal: A Comprehensive Survey on NBA Accreditation and MERN Stack for the Purpose of Implementing a Portal C. Vinothini, C Tarun, Bhavana K A, G Nikhil Krishna, Advaith Praveen	1245
220	Posture Correction of College Students' English Reading Mobile Learning Habits based on Smart Phone Camera Image-Assisted Distance Measurement Algorithm Jianguo Huang	1252
221	Identification and Classification of Leaf Diseases using Modified Contrast Limited AHE and Extreme Learning Machine Shoby Sunny, M P Indra Gandhi	1257

222	Framework for Prediction of Diabetes using FireFly Swarm Intelligence Algorithm, Fuzzy C Mean and SVM Algorithm C. Kalpana, B. Booba	1263
223	Analysis of Student Sentiment Level using Perceptual Neural Boltzmann Machine Learning Approach for E-learning Applications Laishram Kirtibas Singh, R. Renuga Devi	1270
224	An Analysis of the Significance of Spring Boot in the Market M. Mythily, A. Samson Arun Raj, Iwin Thanakumar Joseph	1277
225	AI Tools for Media Data Governance in the Post-Truth Era: from Abnormal Data Recognition to Intelligent Opinion Monitoring Algorithm Yonghua He, Debin Peng	1282
226	Corn Leaf Disease Detection; A Survey Shenbagam P, Sanjana N	1287
227	Forest Fire Detection and Prediction – Survey Thirumal PC, Shylu Dafni Agnus L	1295
228	Multiple Transfer Learning-AI Design for Lung Disease-Pneumothorax and Tension Pneumothorax Classification from Chest-X Ray R. Krishna Priya, Ali Al Bimani, Mullaicharam Bhupathyraaj, Laith Al Shabibi, Manahil Musallam Mohammed Al Khusaibi	1303
229	IoT Sensors Empowered with Deep Learning for Brain Depletion Recognition G. Revathy, Durga Karthik, B. Sreedevi	1309
230	UML-based Online Interactive Learning Platform Development and Data Specification for Foreign Language Courses Cong Wang, Qing Ma, Wei Guo	1315
231	Multi Class Ensemble Classification for Crop Recommendation L. Meenachi, S. Ramakrishnan, M Sivaprakash, C Thangaraj, S Sethupathy	1319
232	Feature Point Matching for Human-Computer Interaction Multi-Feature Gesture Recognition based on Virtual Reality VR Technology Jinghui Li, Shuxin Chen	1325
233	Application of SPSS Cluster Analysis in the Smart Promotion Strategies of Crossborder E-commerce in Informationized Textiles and Clothing with Artificial Intelligent Models Zhiyuan Xu, Dian Jin, Yaxian Hu, Jing Zhou, Qianqian Chen, Yuxuan Zhou, Sirui Li, Xuechun Xia, Jie Sun	1329
234	Comprehensive Data Collection and Feedback Algorithm for Smart Music Online Guidance based on Immersive Virtual Media Environment Qinghua Gong	1335
235	Intelligent Analysis of the Relationship Between the Topological Design of the Internal Space of the Intelligent Building Bo Bai, Yiwei Bai	1340
236	Construction of Campus Football Information Service Platform under the Background of Internet + Smart Cloud Network Hongquan Hu	1344
237	A Novel IoT based Home Sensing System using Sensor Networks N. K. Senthil Kumar, Sathiyandrakumar Srinivasan, R. Suganthi, R. Yuvaraj	1348
238	Real-time Intelligent Tourism Planning Compilation Method under the background of Teer Extraction and Remote Sensing Image Analysis Yu Wang	1353

239	Identification of Disease based on Symptoms by Employing ML Shafiqul Abidin, Mutkule Prasad Raghunath, P. Rajasekar, Ashok Kumar, Debarati Ghosal, Mohammad Ishrat	1357
240	Application of Simple Database Algorithm and Big Data Technology in College Student Information System Qian Wang	1363
241	Java Programming Implementation of Hierarchical Sharing Architecture of Multimedia Materials and Network Resources in English Training Ruijing Zhang	1368
242	Efficient Development of Supervised Learning Algorithm for Kidney Stone Prediction Chandra Sekhar Kolli, Mutkule Prasad Raghunath, S. Meenakshi, K. Maheswari, Christopher Francis Britto, Sumit Kushwaha	1373
243	Multi Source based Battery Charging and Cutoff System Sophia Jasmine G, Magdalin Mary D, Kumar C, Lohith Raj S, Nafica Parveen M, Neshan T, Karthikeyan K	1380