# 2023 International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2023)

Uttarakhand, India 14-16 March 2023

Pages 1-561



IEEE Catalog Number: ISBN: CFP23CR5-POD 979-8-3503-9721-5

## Copyright © 2023 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

*Copyright and Reprint Permissions*: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

#### \*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP23CR5-POD
ISBN (Print-On-Demand):	979-8-3503-9721-5
ISBN (Online):	979-8-3503-9720-8

#### 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



### **International Conference on Innovative Data Communication**

### **Technologies and Application (ICIDCA 2023)**

## 14-16, March 2023

### **Table of Contents**

S. No	Paper Title/ Author Name	Page. No
1	Text Detection based on Deep Learning A. Thilagavathy, Karuturi Hemanth Suresh, Katari Tejesh Chowdary, Meka Tejash, Vijayarao Lakshmi Chakradhar	1
2	Coronary Heart Disease Prediction and Classification using Hybrid Machine Learning Algorithms Khader Basha Sk, Roja D, Sunkara Santhi Priya, Lavanya Dalavi, Sai Srinivas Vellela, Venkateswara Reddy B	7
3	Machine Learning Classification Methods for Stock Market Forecasting Durga P, Sudhakar T	14
4	Deploying a Sliding Gate by utilizing Computer Vision and Machine Learning Techniques Yogesh Kale, Nandini Sakhare, Manu Varghese, Utkarsh Dafe, Pranav Sawarkar, Ashutosh Bagade	22
5	Machine Learning Models for Student Performance Prediction Shilpa Mangesh Pande	27
6	Ensemble Learning Model for Diabetes Prediction Bade Kranthi Priya, V. S. Amar Koushik Tanniru, Madhavi Katamaneni	33
7	Accident Prediction and Analysis using Machine Learning models U. Vivek Krishna, S. Sudhakaran, S. Sanju, E. Vignesh, R. Kaladevi	37
8	Improving Accuracy of Heart Disease Prediction through Machine Learning Algorithms Mohammed Ali Shaik. Radhandi Sreeja, Safa Zainab, Panthangi Shiva Sowmya, Thipparthy Akshay, Sudireddy Sindhu	41
9	Meta Analysis of Human Body Diseases with the Application of Machine Learning Nikhil Verma, Tripti Sharma, Bobbinpreet Kaur	47
10	Machine Learning System for Indolence Perception S M Udhaya Sankar, N Jagadish Kumar, D. Dhinakaran, Kamalesh S S, Abenesh R	55
11	An IoT based Agricultural Management Approach using Machine Learning M. Kasiselvanathan, G. Sekar, J. Prasad, S. Lakshminarayanan, C. Sharanya	61
12	Machine Learning based Iris Recognition Modern Voting System Aparna D K, Dharshini V S, Rajeshkumar G, Mohana Priya D, P Balasubramanie, S Hamsanandhini	66
13	Detection of Fake Online Reviews by using Machine Learning C. Silpa, P Prasanth, S Sowmya, Y Bhumika, C H Surya Pavan, M Naveed	71
14	Machine Learning Approach for Gesticulation System using Hand N Jagadish Kumar, P Deivendran, S Sujith Raju, V Dharani Kumar, C Muthu Krishnan	78
15	Intelligent Loan Eligibility and Approval System based on Random Forest Algorithm using Machine Learning C. Prasanth, R. Praveen Kumar, A. Rangesh, N. Sasmitha, Dhiyanesh B	84

16	Brain Hemorrhage Detection using Heatmaps and Deep Learning Algorithms Swarna Tejaswi Chevvuri, Venkata Rohit Kumar Reddy S, Sai Teja Nelluru, Priyanka Yadlapalli	89
17	Metro Rail Navigation System (MRNS) using Machine Learning Ajay Kumar Sahu, Anand Kumar Dohare, Uma Tomer, Paras Chauhan, Rahul Kumar	95
18	Multilingual Global Translation using Machine Learning Harsh Dandge, Meghana Lokhande, Viraj Jadhao, Swapnil Patil, Sarvesh Powar	101
19	Drug Recommendation System in Medical Emergencies using Machine Learning C. Silpa, B Sravani, D Vinay, C Mounika, K Poorvitha	107
20	Medical Insurance Cost Analysis and Prediction using Machine Learning Vamsi Krishna. V, Thejeswar Reddy. T, Sai Harsha. T, Kaladevi. R	113
21	A Multi-objective Composite Model for Crop Prediction using Machine Learning Methods Mattaparthi Sai Rohith, Sanjana Rayavarupu, Veerubhotula Sarath Chandra, Choudari Lakshmi, Tadikonda Pavan Kalyan	118
22	Chat and Voice Bot Implementation for Cardio and ENT Queries using NLP B Dinesh, Prathima Chilukuri, G Preeth Sree, K Venkatesh, M Delli, K R Nandish	124
23	Fast and Accurate Multi-Classification of Kiwi Fruit Disease in Leaves using Deep Learning Approach Deepak Banerjee, Vinay Kukreja, Shanmugasundaram Hariharan, Vandana Sharma	131
24	A review on Sentiment Analysis using Machine Learning Sumit Sindhu, Sanjeev Kumar, Amandeep Noliya	138
25	Multi-class Alzheimer's Disease Stage Diagnosis using Deep Learning Techniques Rowshan Ara Jowti, Md. Aynul Hasan Nahid	143
26	Exploring the Intersection of Machine Learning, Money Laundering, Data Privacy, and Law Abhishek Thommandru, Varda Mone, Sugana Mitharwal, Rahul Tilwani	149
27	Prediction of Chronic Kidney Disease using Various Machine Learning Algorithms Daravath Anil, Shaik Naimudden, Aujugari Santosh Reddy, A Lavanya	156
28	Comparative Study of Different Deep Learning Techniques for Diagnosis of Brain Tumor Damandeep Kaur, Simarjeet Kaur, Kapil Sharma, Rani Kumari	162
29	Oral Cancer Detection using Deep Learning Techniques Nagamani Tenali, Vasavi sri priya Desu, Charishma Boppa, Varshith Chowdary Chintala, Bhavana Guntupalli	168
30	Machine Learning based Potato Leaves Disease Detection Raju Deepak Potnuru, Sangeetha Yalamanchili, Likhitha Portigadda, Tejaswini Tata, Pavan Burada	176
31	Anticipating Placement Status of Engineering Students using Machine Learning based Prediction Models - A Case Study of Computer Science Stream Kajal Rai, Pawan Kumar, Sanjay Sood	181
32	Identification of Cardiovascular Disease using Machine Learning and Ensemble Learning Shreya Chopra, Nidhi Kalra,Rinkle Rani	186
33	Image Classification for Optimized Prediction of Leukemia Cancer Cells using Machine Learning and Deep Learning Techniques Amogh Ramagiri, Vallepalli.Jahnavi, Sathwik Gottipati, Monica C, Syed Afrin, Bangalore Jyothi, R. Chinnaiyan	193

	An Enhanced Hybrid Machine Learning Model for Diagnosis of Parkinson's	100
34	Disease	198
	C. Amali, R. Rajesh, J. Sai Abrameyan, G. Rajasekar, N. Mohammed Muhaseen	
	Investigating the Intersection of Cybercrime and Machine Learning: Strategies for	
35	Prevention and Detection	203
50	Edwin Ramirez-Asis, Rudecindo Penadillo-Lirio, Wilber Acosta-Ponce, Roger	200
	Norabuena-Figueroa, Norma Ramírez-Asís, Prashant Subhash Arbune	
36	Artificial Intelligence in Health Care Sector and Future Scope	210
50	Ayushi Sharma, Rakesh Kumar	210
	Text Identification from handwritten Data using Bi-LSTM and CNN with FastAI	
37	Varshitha Vankadaru, Parvathaneni Naga Srinivasu, Singavarapu Hemanth Hari	215
	Prasad, Palavanchu Rohit, Pydipamula Rohan Babu, Matta Deva Chandra Raju	
38	Traffic Signs Recognition using CNN and Keras	221
30	Puvvada Nagesh, L. Akhil, K. Rishi, T. Sai Bhargav	221
20	The Efficacy of Artificial Intelligence in Making Best Marketing Decisions	225
39	Miit Jhaveri, Abhijit Chirputkar, P Ashok	225
40	Deep CNN based Road Sign Recognition for Vehicles using Raspberry Pi 3B	220
40	Akshaya M, Amrita Srikanth, D. C Diana, R. Hema	230
	Machine Learning Models for Prediction of Comorbidities of Diabetes using	
41	Convolutional Neural Network	236
	S. Geeviga, Dhiyanesh B	
	Systematic Review on Decentralised Artificial Intelligence and its Applications	
42	Mariya Vincent, Anju E George, Christa T S, N. Jayapandian	241
	An Adaptive Deep Convolution Neural Network for High Pixel Image	
43	Segmentation and Classification	247
	Pellakuri Vidyullatha, Bui Thanh Hung, Prasun Chakrabarti	
	Towards Accurate Auscultation Sound Classification with Convolutional Neural	
44	Network	254
••	S Abhishek, Mahima Chowdary Mannava, AJ Ananthapadmanabhan, Anjali T	231
	An Improved Leukemia Detection Model using CNN	
45	Aditya Y, Durga M, Venkata Siva Naga Sai Teja K, Hari Priya J, Eswar Datta K	261
	Fusion of Iris, Face, Fingerprint using Score Level Mechanism for Biometric	
46	Application	265
10	Balraj E, Suryaprakash M, Vignesh P, Vigneshwar R, Vinoth kumar A	205
	Stratification of Eye Gaze using the Proposed Convolution Neural Network Model	
47	Poonam Shourie, Avinash Sharma, Vatsala Anand, Sheifali Gupta	271
	Face Manipulation Detection in Images using Inception Layers and Graph	
48	Convolutional Networks	276
-10	Aman Mahendroo, Aaradhya Beri, Anukriti Kaushal	270
	A Multimodal AI Framework for Hyper Automation in Industry 5.0	
49	Sudharson D, Bhuvaneshwaran A, Kalaiarasan TR, Satheesh Kumar D, Sushmita V,	282
47	Jyothi Lakshmi N	262
50	Impact of Artificial Intelligence on Gamification: Current Applications Trisa Modi, Saikat Gochhait	287
	A Novel Analysis and Detection of Autism Spectrum Disorder in Artificial	
51		201
51	Intelligence using Hybrid Machine Learning	291
	Senthil G. A, R. Prabha, J. Nithyashri, Suganthi. P, I. Thamarai, Sridevi S	
50	Intelligent Traffic Monitoring, Prioritizing and Controlling Model based on GPS	207
52	Monica C, Bangalore Jyothi, Amogh Ramagiri, Sathwik Gottipati, Vallepalli.	297
	Jahnavi, Syed Afreen Akther, R. Chinnaiyan	

53	Artificial Intelligence in Space-Limitations and its Solutions to Interplanetary CubeSats Vallepalli. Jahnavi, Syed Afrin, Surampally Sai Dheeraj, Shaik Albasith Khaja Armaan, Amogh Ramagiri, Sathwik Gottipati, Monica C, Bangalore Jyothi,	300
	R. Chinnaiyan	
	Framework for Evaluating Ethics in AI	
54	Vandana Sharma, Naman Mishra, Vinay Kukreja, Ahmed Alkhayyat, Ahmed A.	307
	Elngar	
	Automation in Fog Cloud assisted Internet of Things Ecosystem: Challenges,	
55	Components and Protocols	313
	Tanishq Soni, Deepali Gupta, Mudita Uppal, Monica Dutta, Avinash Sharma	
	Deception Detection using a Multimodal Stacked Bi-LSTM Model	210
56	Puneet Kumar Sehrawat, Rajat Kumar, Nitish Kumar,	318
	Dinesh Kumar Vishwakarma	
57	Systematic Literature Review on Object Oriented Software Testing Techniques	327
	Divya Jena, Ankita Kumari, Jhanvi Titoria, Ankita, Nisha Rathee, Brijesh Kumar	
58	Metaverse: An Innovative Model for Healthcare Domain	334
	Abhijeet Pandey, Abhijit Chirputkar, P Ashok	
	Design and Implementation of an Advanced Semester Management and Collaboration System for Academic Institutions	
59	Pankaj Kunekar, Ayush Gundawar, Somesh Kamnapure, Devang Manjramkar,	338
	Ishan Gujarathi, Dhananjay Deore	
	Applications of Metaverse in the Healthcare Industry	
60	Bhanu Bhatia, Sujata Joshi	344
	IR Sensor based Automated Soap Cutting and Packing System	
61	Prabhu K, Elango P, Kannan S, Keerthana P	351
	Different Models of Transliteration – A Comprehensive Review	
62	Mahima Yaday, Ishan Kumar, Ayush Kumar	356
(2)	Multi Audio Speaker using Mopidy and Snapcast	2.64
63	Prabal Deep Das, Bhavesh D. Shah, Sabir Moin Shaikh	364
	A Way for Smart Home Technology for Disabled and Elderly People	
64	S. M. Udhaya Sankar, D. Dhinakaran, T. Kavya, S. Priyanka,	369
	P. Pugal Oviya	
	Drug Tracing in Healthcare Supply Chain using Distributed Ledger Technology	
65	Ayan Shaikh, Meghana Lokhande, Prashant Ahire, Amey Sawalkar, Gaurav Shelke,	374
	Kartik Shewale	
	Applicant Screening System using NLP	
66	B. Lalitha, Sirisha Kadiyam, Ritisha Varma Kalidindi, Sri Maukthika Vemparala,	379
	Kshiraja Yarlagadda, Sri Vinutna Chekuri	
67	Application of Data Analytics in Risk Management of Fintech Companies	384
0,	Debapriya Chowdhury, Prasanna Kulkarni	201
68	Smart Farming: A Web-based Approach using ML	390
~~	Parismita Sarma, Bhupen Basumatary, Kaushal Jain	220
(0	Fake News Detection using NLP	200
69	Mohammed Ali Shaik. Makkaji Yasha Sree, Sanka Sri Vyshnavi, Thogiti Ganesh,	399
	Dasari Sushmitha, Narmetta Shreya	
	A Brief Survey on Data Aggregation and Data Compression Models using	
70	Blockchain Model in Wireless Sensor Network	406
	Bandlamudi Naga Sudheer, Kamepalli Sujatha	

	A Freedule Commencien Scheme for Densis Network Test	
71	A Feasible Compression Scheme for Bangla Natural Text Md. Ashiq Mahmood, Md Ashiqul Amin, Pallab Kumar Nandi, Bishwajit Kumar Mondal	414
72	Real Time Object Recognition using OpenCV and Numpy in Python Vasa Rakesh, Prathima Chilukuri, P Vaishnavi, P Sreekaran, P Sujala, D Rama Krishna Yadav	421
73	State of the Art Different Security Challenges, Solutions on Supply Chain: A Review Meenakshi Vashisth, Shiv Kumar Verma	427
74	An Enhanced Framework for Data Protection in Cloud Environment using ECL- GWO Technique Deepika, Rajneesh Kumar, Dalip	432
75	Theoretical Guidance in the Field of Health and Healing using NLP Ashwani Kumar, Sunil Kumar, Premananda Sahu, Sachin Kumar Yadav	442
76	A Detailed Investigation on Potential Impact of Quantum Computing on Improving Artificial Intelligence G. Nagaraj, Niraj Upadhayaya, Atheer Matroud, N Sabitha, Reshma V. K, Regonda Nagaraju	447
77	Survey on Job Recommendation Systems using Machine Learning Raj Thali, Suyog Mayekar, Shubham More, Sanjana Barhate, Sangeetha Selvan	453
78	Weaponizing Real-world Applications as C2 (Command and Control) Abhishek Sidhardhan, Keerthana S, Jinesh M. Kannimoola	458
79	Machine Learning based Mobile App for Heart Disease Prediction S. Dwijesh Reddy, S. Lohitha, Fathimabi Shaik	464
80	Machine Learning based Chronic Disease (Heart Attack) Prediction V. Selva Kumar, Advaith Achanta, Nithin Sreeram	471
81	Smart Trainer using OpenCV Harsha Vardhan Reddy Podduturi, Chandrashekar Varla, Koushik Reddy Gopaldinne, Naresh Bhukya, Revanth Kumar Reddy Nallagondu, G. S. Bapiraju	477
82	The Impact of Big Data on Climate Change Adish Chandra Shrivastava, Mohd. Umar	481
83	Principles of Software Engineering for the Cost-Effective Prevention of Type 2 Diabetes (T2D) Nellore Manoj Kumar, P Lalitha Kumari, Katikireddy Srinivas, Mal Hari Prasad, M. Madhavi	489
84	A Novel Vehicle Security System using Driver's License and Fingerprint Automation Vandana CP, Aditi Manjunath, Hamsa G, Dilip BT, Sagar G	493
85	A Review: Sentiment Analysis Methods and their use in Social Media Platforms Teja Venkata Sai Obulapuram, Jaswanth Sai Reddy Yendreddy, Lakshmi Sarvagna Kotari, Varun Teja Tirumalasetty, Santhi Sri. T, S. Sagar Imambi	499
86	Speech Emotion Recognition using Deep LearningA. Arul Edwin Raj, Karan Kumar B, Shajivan S, Rohit A	505
87	An Improved Computer Vision based Face Mask Detection and Alerting System G. R. P. Kumari, M. Sravana Sandhya, K. Maheswari, B. Niharika, A. Vanaja	510
88	Role of Image Analysis on Coke Strength Prediction: A Survey Shama Firdaus, Shamama Anwar, Subrajeet Mohapatra	516
89	A Novel Technique for Converting Images from 2D to 3D using Deep Neural Networks Vikrant Subhash Kulkarni, Rishikesh Bhupendra Trivedi, Somya Rakesh Goyal	521

90	Experimental and Automated Setup to Control the White Liquor Flow for Enhanced Paper Quality D. Selvakarthi, D. Sivabalaselvamani, V. Sanjana, S.N. Vikashini, J. Yogachandran	531
91	Survey on Autonomous Medical Diagnosis Tools Akiladevi R, Shrijeeth S, Saathvik Krishnan, Rohit M	537
92	Grapes Insect Detection and Monitoring using YOLOv4 Nandinee L. Mudegol, Akash Dilip Kamble, Vishal Manikrao Jadhav, Shivkanya Ram Birajdar	545
93	Post Covid Scenario Effective E-Mentoring System in Higher Education Itikela Chiranmai, Sandra Marin Rajesh, Gandham Meghana, Sandra Rose, N. Jayapandian	549
94	Music Classification and Mental Health Analysis using Exploratory Data Analysis Vasantha Bhavani, Ainampudi Kumari Sirivarshitha, Kadavakollu Sravani, Kothamasu Santhi Priya	555
95	An Improved Driver Drowsiness Detection using Haar Cascade Classifier S. S. Saranya, Ravi Mytresh, Mylavarapu Manideep	562
96	Dermato: A Deep Learning based Application for Acne Subtype and Severity Detection Krithika Naidu, Omkar Kareppa, Sridhar Menon, Chitra Bhole, Shital Poojary	569
97	Drowsiness Detection and Accident Prevention by using K-Nearest Neighbor (KNN) Algorithm L. Rahunathan, D. Sivabalaselvamani, M. Pandieswari, S. Priyadharshini, K. Sownthar	575
98	Comparative study of Different Optical Character Recognition Models on Handwritten and Printed Medical Reports Anand Kumar, Pardeep Singh, Kusum Lata	581
99	Crop and Weed Semantic Segmentation using A Fuzzy Transform based Active Contour Model Zaheeruddin Syed, K. Suganthi	587
100	Cyclone Intensity Estimation on INSAT 3D IR Imagery using Deep Learning Kuldeep Vayadande, Tejas Adsare, Tejas Dharmik, Neeraj Agrawal, Aishwarya Patil, Sakshi Zod	592
101	Ensembled Cropify – Crop & Fertilizer Recommender System with Leaf Disease Prediction K. Devi Priya, A. Sasi Samyogitha, A. Vamsi Krishna Reddy, B. Divya Sri	600
102	An Android App Scanner for Detecting the Freshness and Age of Poultry Eggs using Image Processing Nisha Aniyan, Pramod Mathew Jacob, Pranav P, Reshmi Raj, Gopika Ghosh, Amitha Suresh	605
103	A Survey- Wheat Plant Diseases Recognition System using Deep Learning Techniques Tannu Goyal, Aditya R. Patil, Priyanka Nahar, Dhiraj Bhise	611
104	Obstacle Detection and Safe Navigation in Unexpected Situations of Intelligent Vehicle C. Sheebajoice, Rendla Suresh Krishna Reddy, Theetla Raj Varun Kumar, Tharun V	620

105	Energy-Efficient Cooperative Image Transmission in Multi-Hop Wireless Multimedia Sensor Networks Sanjay Kumar Manthati, Sai Santosh S, Kruthik Yadav Nanubothula, Praveen	626
	Kumar Devulapalli	
106	Preventing Data Leakage and Traffic Optimization in Software-Defined Programmable Networks	(22)
106	Siva Reddy Vanga, G Babu, V Kishen Ajay Kumar, Sagaya Aurelia, B Sreedhar, Sankararao Majji	632
107	IMS enabled Centralized UAV Control System with Seamless Connectivity Over Mobile Network Nitish Mahajan, Sakshi Kaushal, Harish Kumar	636
108	An Improved Key Management System - DES Ultimate v1.1 Arvind K. Sharma, Savita Wadhawan, Dalip, Gousia Habib	642
109	Role of Blockchain in Manufacturing and Logistics Supply Chain Management Abdulla Siddiqui. Abhijit Chirputkar, P Ashok	648
110	Understanding the Behaviour of Android SMS Malware Attacks with Real Smartphones Dataset Atul Kumar, Ishu Sharma, Avinash Sharma	655
111	Blockchain in Telecom: Challenges and the Way Forward Chellvamathi RS, Prasanna Kulkarni	661
112	Impact of Blockchain Technology on E-Commerce Nalin Verma, Prasanna Kulkarni	668
113	NFT Marketplace using Blockchain Samreen Kazi, Arsheen Kazi, Leon D'souza, Akshay Loke	673
114	Pyciuti: A Python based Customizable and flexible Cybersecurity Utility Tool for Penetration Testing Muralidharan M, Keshav Balaji Babu, Sujatha G	679
115	Employing Supervised Learning Techniques for DDoS Attack Detection Atul Kumar, Ishu Sharma	684
116	EICF – An Enhanced Intelligent Cloud-based Framework for Automated Product Quality Assurance Aashish Arora, Rajeev Gupta	689
117	Black Box Testing Design Intended for Vehicle Surveillance and Tracking N. Jagadish Kumar, S. M. Udhaya Sankar, B. Muhesh Kumar, A. Praveenkumar, R. G. Ranjith	695
118	AI-Driven Deep Structured Learning for Cross-Site Scripting Attacks S Abhishek, Rahulkrishnan Ravindran, Anjali T, Shriamrut V	701
119	EHR: Patient Electronic Health Records using Blockchain Security Framework Megha Jain, Dhiraj Pandey, Nitin Pratap Singh	710
120	Improvement of Graph-based Assets using Blockchain Quality Control R. Thanga Selvi, T. C. Subbu Lakshmi, D. Karunkuzhali, R. Anto Arockia Rosaline	716
121	An Analytical Survey on Optimized Authentication Techniques in OneM2M Pareena Saini, Nitish Mahajan, Sakshi Kaushal, Harish Kumar	721
122	The Impact of Blockchain Technology to Protect Image and Video Integrity from Identity Theft using Deepfake Analyzer Jefferson A. Costales, Shikhar Shiromani, Madhavi Devaraj	730
123	Detailed Investigation on Blockchain Smart Contracts Application and its Usefulness Mahalakshmi Arumugam, Jeidy Panduro-Ramirez, Jesús Padilla-Caballero, Pallavi Gildhiyal, Manjusha Goel, Dilip Kumar Jang Bahadur Saini	734

124	A Review on Digital Twin Technology in Healthcare Muskan Shrivastava, Ritesh Chugh, Saikat Gochhait, Abdul Bashiru Jibril	741
125	Security In Smartphone: A Comparison of Viruses and Security Breaches in Phones and Computers Akash Deep, Saikat Gochhait	746
126	Information Security Issues and Challenges: Perspective of Industry 4.0 Paradigm M Pooja, Madhavi Damle	752
127	Malware Intrusion in Smart Traffic System And Rectification using Djikstra Algorithm Keerthana P, Madhavi Damle	759
128	Detecting Distributed DoS Attacks on SDN using Machine Learning (ML) Methods Arun Kumar Kurakula, K. Akhila, Mummalla Bhavya, Meesala Venkata Sai	767
129	Image Security Enhancement on Cloud Storage using AES Algorithm Bhaumik Prajapati, Vitthal S. Gutte, Kishor Kolhe	773
130	A Shared Network Security System for Cloud Computing Thirumoorthy Arumugam, P. Senthilraja, A. Gnanabaskaran	777
131	Decentralized E-health Patient Record Management System using Blockchain and IPFS Rahul Bhalerao, Pratik Gite, Preet Patil, Rahul Gupta, Shubham Singh	781
132	Strengthening Supply Chain Integrity with Blockchain-based Anti-Counterfeiting Measures Shubham Prajapati, Jayesh Gadhari, Tushar Sawant, Juilee Kini, Sheetal Solanki	786
133	Supervised Learning Methods for Identifying Credit Card Fraud Ishaan Dawar, Narendra Kumar, Gursheen Kaur, Somya Chaturvedi, Aryan Bhardwaj, Meghavi Rana	791
134	An IoT Integrated Sensor Technologies for the Enhancement of Hospital Waste Segregation and Management D. Selvakarthi, D. Sivabalaselvamani, M. Ahamed Wafiq, G. Aruna, M. Gokulnath	797
135	Non-Invasive Method of Detecting Anemia using AI & IoT Anitha A, Vinoth Kumar K, Abhisek Bedant, Madhav Reddy C, Kumar Abhisek	805
136	Automated Home Life using IoT and Speech Recognition Siri Varshini Annam, N. Neelima, Nirupama Parasa, Deepika Chinamuttevi	809
137	Smart IoT based an Intelligent System for Needy People to Recognition Voice Detection of Obstacle P Deivendran, V. Vinoth Kumar, G. Charulatha, Sambareddy Ruchitha, S. Kalpanadevi	814
138	IoT-based Medical Remote Treatment System J Rajasekhar, Mangam Joshua Evans, Tadiparthi Rahul	819
139	Development of IoT based Wireless Printer K. Prabhu, K. J. Pradeep, K. Sivasanthosh, K. Srinithi	823
140	Industrial IoT (IIOT): Security Threats and Countermeasures Rakesh Kumar, Bipin Kandpal, Vasim Ahmad	829
141	Prototype of Plant Disease Detection using IoT C. Cathrin Deboral, C. Ambhika, P. Nivetha, A. Divya shree, D. Sona	834
142	Smart Swimming Pool Management System (SSPMS) using IoT A. Sangeetha, R. Santhana Krishnan, G. Praveen Kumar, E. Golden Julie, R. Karthik Ganesh, Y. Harold Robinson	840

143	IoT based Women Safety Bag M. Ashok Kumar, P. Pradeepa, A. Essaki Muthu, R. Santhana Krishnan, K. Saravanan,	847
	K. Lakshmi Narayanan	
144	E-Medicine: Health Care Monitoring System based on IoMT J Rajasekhar, Narendra Nath, Likhit Komal. M, N S S Sowjanya	852
145	IoT-based Automatic LPG Refilling and Leakage Detection System Bharath Singh Jebaraj, Selvalakshmi Sekar, Sushmitha S, Priyadharshini S, Jayapriya Yu, Gnanasekaran T	858
146	Innovative Child Rescue System from Borewell using Arduino Bhavana Thota, Karthik Reddy Challabotla, Teja Vuppala, A. Lavanya	863
147	An Application of IoT in Programmed Tidal Energy Observation System S. Senthil Kumar, M. Jyothirmai, S. Kaliappan, Vikas Rathiv	868
148	Ultra-Low-Power IoT Applications based on Real-Time Machine Vision and Image Analysis Ch Gangadhar, K Prathyusha, Paparao Nalajala, Sankararao Majji, Ashok Kumar, Manoj Kumar P	873
149	IoT-enabled Potato Diseases Prediction using Deep Learning Badugu Samatha, G Ravi Kumar, Palthiya Anantha Rao, Dasari Koteswara Rao, Thalakola Syamsundararao, Nagarjuna Karyemsetty	878
150	Augmented Reality-based Smart Home Automation Using Dynamic Vision Sensor Chairma Lakshmi K R, Praveena B, Golden Stepha, M. Theodore Kingslin, J Gurumurthy, Vijay Anandh R	884
151	Savitzky-Golay Filter Design for Removing Noise from EEG Signal Sandeep Kumar Sunori, Mehul Manu, Amit Mittal, Pradeep Juneja	888
152	Evaluating the Impact of Sentiments in Decision Making: A Review Ravita Chahar	893
153	A Low-Cost Air Quality Tracking System Design A. Vasuki, J. Anita Christaline, V. Akila, R. Sathiya	901
154	Generating Electricity by Non-Biodegradable Waste R. Santhosh Kumar, Gharniyas. T. R, Deepanraj. P, Arun Prasath. S	905
155	Effective Battery Thermal Management System for Electric Vehicle Pabitra Mohanty, Shobana S, Amudha A, Balachander K, Emayavaramban G, Selvaganapathi T, Elavarasi K	912
156	Smart Helmet for Coal Mine Employees: Enhancing Safety and Efficiency R. Santhosh Kumar, Hariprasadh. R. R, Gowthamraj. A, Harinivash. K	916
157	MEMS based Sensor Robot for Immobilized Persons G. K. Monica, D. Dhinakaran, K. Haritha, K. Kohila, U. Priyadharshini	924
158	Customised Design of 16-Bit DSP Processor for Signal Processing Applications M. Bharathi, SK Mahaboob Basha, E Gowtham Kumar, G Sonu Nehal, Asad Hussain Lapakshi, Ankitha Chintalapalli	930
159	Implementation of Bluetooth based Boat System to Clean Oil Spill in Coastline Mahesh N, Baluprithviraj K N, Sudha G, Elamathi S, Hari Prasath S, Megha A	936
160	A Novel Method of Current Fed Dual Bridge DC to DC Converter with ZVS Karanam Deepak, M Bhagya Lakshmi, P Riyaz, Bondili Veerendra singh, A. Sathish, Vadde Siva Kumar	941
161	A Novel Control of DC to DC Converter for Renewable Energy Sources U Chaithanya, Karanam Deepak, Dakshayani Besta, Masira Khatoon, Mala Samyuktha, Pasupula Mounisha Rajasree	947

162	Electric Vehicle Charging Station based on Solar Maximum Power Point Tracking System V. Kannan, S. Divyapriya, A. Amudha, K. Balachander, M. Siva Ramkumar, G.	954
163	Emayavaramban Design of Compact Dual band Metamaterial Absorber using Square and Circular Split Rings for X-band and Ku-band Application Ashwani Singh, Devesh Pandey, Ashish Kumar Kesharwani, Kuldeep Singh, Ankit Sharma	958
164	Design and Analysis of 16-bit Vedic Multiplier using UT Sutra of Vedic Mathematics Bini Palas P, Priya Dharshni R, Rashida Tayiba S	962
165	Data Visualization for Developing Effective Performance Dashboard with Power BI Gurpreet Singh, Ankul Kumar, Jaspreet Singh, Jagdeep Kaur	968
166	Detection of Real Time Anomalous activities using YOLOv7 G. Kranthi Kumar, Amulya Mallola, Mitnala Shiany Preethi, Kethavath Bharath Naik	974
167	Review of Variable Line Width Single Layer and Multi-Layer on-Chip Inductor Chiranjeevi Pudari, Sagarika Palle, Thrishitha Nallala, Keerthana Gandham, Manish Dora Thakkalapelly, Thota Dinesh	980
168	Microarchitecture and Design of a Watchdog Timer for a RISC-V based SoC Chaithanya D J, Ibrahim Rashad, Mohammed Thouqeer, Mohd Taha Wahab, Suhas B Raj	984
169	Compact Octagonal Quad - Band Antenna for UWB Applications Neeththi Aadithiya B, Vijyahlakshmi S, Shineka K S, Vandhana M	989
170	English to Hindi Translation using Transformer Abhinav Y. Watve, Madhuri A. Bhalekar	993
171	A PRBS Generator and Checker based BIST for Multipliers Jugal Kishore Bhandari, Yogesh Kumar Verma, Varun Mishra, Ankur Kumar, Santosh Kumar Gupta	1001
172	Time Series based Predictive Model for Analysing the Health of Power Transformer Anjali Gupta, Vinit Mehta	1006
173	A Comparative Review on Theory and Designing of 28/38GHz 5G MIMO and Array Antenna Vaishali Kikan, Takhshish Bano, Neha,Siddhi Bhardwaj, Ashwani Kumar, Manish Sharma	1014
174	Design and Development of Microstrip Patch Antenna for Tumor Detection Clara Catherine C, S. Sweetlin Rebecca, Ashick Joel S, Nesasudha Moses	1021
175	An Early Detection of Pneumonia in CXR Images using Deep Learning Techniques Praveen Kumar Mannepalli, Parcha Kalyani, Sofia A. Khan, Vaishali Nitesh Ghodichor, Pradeep Singh	1029
176	Prediction of Turkey Forest Fire using Random Forest Regressor Umang Garg, Vineet Kukreti, Rahul Singh Pundir, Mahesh Manchanda, Neha Gupta	1037
177	Alzheimer's Disease Classification using Convolutional Neural Networks Archana B, K. Kalirajan	1044
178	Forecasting the Energy Utilization in WSN by Support Vector Regression Model A. Kathija Nasreen, N. Senthamilarasi, M. Suganthy, K Padmanaban	1049

179	Internet based Defence Surveillance Robot to Prevent Intruder Activities and Auto Combat System using SONAR Technology M. Vadivel, S P Vimal, V G Sivakumar, V Vijaya Baskar, M Selvi	1055
180	Audio Assistance for Visually Impaired Teachers using Image Processing S. J. Suji Prasad, M. Thangatamilian, R. Manjula Devi, M. Athif Ahamed, I. Charumithra, S. Jagadeshwaran	1060
181	Spectral Frequency Analysis of Upper-Extremity Motor Imagery and Motor Movement Rhythms for Brain Machine Interface Anna Latha M, Sathish E, Sai Neeharika M, Shobhana V	1065
182	Misinformation Classification using LSTM and BERT Model Aditya Harbola, Mahesh Manchanda, Deepti Negi	1073
183	Blockchain-based System for Secure Data Sharing in Cloud using Machine Learning: Current Researches and Challenges Pooja Shrivastav, Manju Sadasivan	1078
184	Framework For Predicting Suicidal Attempts Using Healthcare Data and Artificial Intelligence Pradumn Saxena, Sandeep Prabhu	1085
185	AI Technologies, Innovations and Possibilities in Wildlife Conservation Shivani Sisodia, Saurabh Dhyani, Samta Kathuria, Shweta Pandey, Gunjan Chhabra, Rahul Pandey	1090
186	Data Mining in Credit Scoring and Future Application Rakesh Kumar, Rupa Khanna Malhotra, CA. Neha Grover	1096
187	A Study on Cervical Cancer Prediction using Various Machine Learning Approaches Priyanshu Rawat, Madhvan Bajaj, Shreshtha Mehta, Vikrant Sharma, Satvik Vats	1101
188	A Comprehensive Analysis of the Effectiveness of Machine Learning Algorithms for Predicting Water Quality Priyanshu Rawat, Madhvan Bajaj, Vikrant Sharma, Satvik Vats	1108
189	Emerging Technologies for Prevention and Monitoring of Forest Fire Shweta Pandey, Rajesh Singh, Samta Kathuria, Prafful Negi, Gunjan Chhabra, Kapil Joshi	1115
190	Right to Digital Privacy: A Technological Intervention of Blockchain and Big Data Analytics Shruti Kasera, Anita Gehlot, Vaibhav Uniyal, Shweta Pandey, Gunjan Chhabra, Kapil Joshi	1122
191	Design of Portable Soil and Water Testing System T. Jaswanth Yadav, E. Naga Harini, G. V. V. S. L. Rupesh, B. Manoj Shankar, V. Hima Deepthi	1128