

# **2023 International Conference on Computer Communication and Informatics (ICCCI 2023)**

**Coimbatore, India  
23-25 January 2023**

**Pages 1-660**



**IEEE Catalog Number: CFP2308R-POD  
ISBN: 979-8-3503-4822-4**

**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:	CFP2308R-POD
ISBN (Print-On-Demand):	979-8-3503-4822-4
ISBN (Online):	979-8-3503-4821-7
ISSN:	2329-7190

**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

## TABLE OF CONTENTS

A Blockchain Based Certificate Authentication System.....	1
<i>G. Balamurugan, K. Kishore Anthuvan Sahayaraj</i>	
Secure and Proficient Provable Data Procuracy with Privacy Protection in Cloud Storage .....	8
<i>Siva Kumar, Lebaku Vasantha, Pacha Siroshini, Pullaiahgari Jagruthi, Nellore Pavithra, Thumati Supriya</i>	
Identification of Pneumonia Symptoms in Covid19 Patients Using Transfer Learning Approach.....	12
<i>Pm Ebin, B Kaimal Athira</i>	
Detection and Conversion of CO <sub>2</sub> into Moist.....	16
<i>Susarla S S V Suryasri, M. Satya Sai Reddy, E. Lohika Reddy, M. Naresh Kumar</i>	
Vehicle Lane Detection for Accident Prevention and Smart Autodrive Using OpenCV .....	21
<i>Manav Garg, Apeksha Sehrawat, P Savaridassan.</i>	
An IOT Framework Based Automated Wireless Meter System for Monitoring, Billing and Controlling Power Consumption .....	26
<i>K Harini, V. Anbarasu</i>	
An Autonomous Crop-Cutting Mechanism Using a Drone.....	32
<i>Talada Siva Sree, Maganti Srinivas, Kakaraparathi Jyothi Swaroop, Bodapati Shiva Venkata Sai Pavan, Palleda Abhishek</i>	
IoT Based Identification and Attendance Monitoring System Using Design Thinking Framework .....	42
<i>K Sangeetha, M Shobana, V S Nagul Pranav, S Darunya, K P Madhumitha, M Nidharshini</i>	
Unmanned Plant Irrigation System Using Iot.....	48
<i>R Sundar Ram, Easwar G, Thenmozhi Karuppasamy, Avila Jayapalan</i>	
The Role of Artificial Intelligence in Education.....	53
<i>Swathi Ganesan, Nalinda Somasiri, Sangita Pokhrel</i>	
Deep Learning Approaches for Accurate Sentiment Analysis of Online Consumer Feedback .....	59
<i>Swathi Ganesan, Nalinda Somasiri, Chandima Colombage</i>	
Exploring the Intersection of IoT and Blockchain: An Analysis of Security and Privacy Risks .....	64
<i>Harishma Ashok, Swathi Ganesan, Nalinda Somasiri</i>	
Detecting and Mitigating Selfish Secondary Users in Cognitive Radio .....	68
<i>Swetha Thennavan, Thenmozhi Karuppasamy, Prem Savarinathan, Avila Jayapalan</i>	
IOT Based Detection of Food and Water Contamination .....	74
<i>R Sundar Ram, Prem Savarinathan, Thenmozhi Karuppasamy, Avila Jayapalan</i>	
Optically Reconfigurable Slotted Waveguide Antenna Array for 5G Applications.....	79
<i>Yogeshwari Panneer Selvam, N. M Sangamithira, Thenmozhi Karuppasamy, Mihira Puvvadi, Avila Jayapalan</i>	
Improving the Quality and Performance of Wireless Ad-Hoc Network by Using MMCN Architecture .....	83
<i>A Kalaiarasi, S Raja, N Kumareshan, M Pradeepa, N Arun Vignesh, N Prakash.</i>	

Deep Learning Based Fake Stamp Detection .....	87
<i>Swetha Thennavan, Divya Gokul, Avila Jayapalan</i>	
Spectrum Sensing Framework and Energy-Efficient Resource Allocation for Cognition Enhancement Network .....	91
<i>Kalaiarasi Arumugam, N Rajesha, M Prasad, N Shanmugasundaram, D Sreenivasa Rao, B. Suneela</i>	
Hand Gestures for Mouse Movements with Hand and Computer Interaction Model .....	96
<i>P. C. D Kalaivaani, R Kumaresan, A J Manow Ranjith, S Nandha Kumar</i>	
Traffic Assistance and Control System- An RFID Approach .....	102
<i>A Kalaiarasi, L. Raja, S. Velmurugan, G. Shanthi, R. Ariharan, N. Kumareshan</i>	
Artificial Intelligence Deployment and the Potency of Hrm Functions .....	107
<i>A. P. Gayatri, P. Lavanya, Ch. Rajitha, Naveen Kumar Butta, U. J. Supraveen</i>	
Estimation of a Channel Model and Power Control Scheme for Radio Environment Based on Multiple Access .....	113
<i>Kalaiarasi Arumugam, N Rajesha, N Shanmugasundaram, M Prasad, R Agilesh Sarvanan, Santhi Chebiyyam</i>	
Artificial Intelligence Advances and Their Repercussions on the Financial System.....	118
<i>Nunna Suresh, Hema Neelam, E. Chakrapani, Kotha Anil Kumar, Sayyad Saadiq Ali</i>	
The Approach of Digital Marketing is Being Revolutionized by Machine Learning Possibilities.....	122
<i>K. Jagannayaki, Mantha Srinivas, K. Sharath Babu, Naveen Kumar Butta, Sayyad Saadiq Ali</i>	
Automated Word Prediction in Telugu Language Using Statistical Approach .....	126
<i>L. Lakshmi, K. Dhana Sree Devi, A. Naga Kalyani, M. Ravisankar, K. Pushpa Rani</i>	
Development and Integration of dApp with Blockchain Smart Contract Truffle Framework for User Interactive Applications.....	131
<i>R Dhanvardini, P Martina, R Vijay, R Amirtharajan, Padmapriya Pravinkumar</i>	
Design Development and Execution of Smart Contract : An Overview.....	137
<i>P Martina, R Dhanvardini, R Vijay, R Amirtharajan, Padmapriya Pravinkumar</i>	
New Real Time Clinical Decision System Using Machine Learning – Disease Prediction .....	142
<i>K. Pushpa Rani, Ch. Sabitha, P. Sreedevi, A. Sangeetha</i>	
Diagnosis of Lung and Pleural Diseases by Machine Learning Algorithms .....	147
<i>B. Devananda Rao, Mahammad Arshad</i>	
Early Detection of Lung Cancer Using Machine Learning Technique.....	152
<i>B. Devananda Rao, Mahammad Arshad</i>	
Cyber-Crime and Digital Forensics: Challenges Resolution .....	157
<i>Arpita Singh, Nilu Singh, Sanjay K. Singh, Sandeep K. Nayak</i>	
Recognizing Handwritten Offline Tamil Character Using VAE-GAN & CNN.....	164
<i>N Sasipriyaa, P. Natesan, R. S. Mohana, P Arvindkumar, R S Arwin Prakadis, K Aswin Surya</i>	
Memory Effects in Digital Filters Based on Input Strict Passivity .....	171
<i>B. I. S. Ronica, P Grace Kanmani Prince</i>	

Pest Detection and Identification on Plants Using CNN Algorithm: A Survey .....	176
<i>A Kalaiarasi, N Kumareshan, R Kanmani, M Dinesh Kumar, R Dharun Pandian, N Barath</i>	
A Systematic Investigation of Cyber Harassment Intention Behaviors and Its Impacts on Social Media Platforms .....	180
<i>S. Abarna, J. I. Sheeba, S. Pradeep Devaneyan</i>	
Industry – Specific Intelligent Fire Management System: A Survey .....	187
<i>A Kalaiarasi, D. Deepak Kumar, B. Bharathraj, V. Naveen Vishak, S. Jasith, L. Raja</i>	
Stock Price Prediction Using Random Forest Classifier and Backtesting .....	192
<i>Venkata Sai P Bhamidipati, D. Saisanthiya</i>	
Does COVID Pandemic Raise E-Waste to a Larger Number? – Analysis and Prediction.....	200
<i>B Gayathri, R Amirtharajan, Padmapriya Pravinkumar</i>	
Comparison of Cryptography Algorithms in Blockchain .....	205
<i>Amu. D, Santhi Baskaran</i>	
IMPROVE: Intelligent Machine Learning Based Portable, Reliable and Optimal VERification System for Future Vehicles.....	211
<i>A V Shreyas Madhav, A. Mohan, Amit Kumar Tyagi</i>	
Lean Readiness Assessment in Sugar Production Plant .....	217
<i>P. Sundharesalingam, M. Mohanasundari, P. Vidhya Priya, M. Dhilip Kumar, R. Aarthi</i>	
Bitcoin Price Prediction Using Machine Learning .....	222
<i>S. Nithiya, G. Parimala</i>	
Human Activity Recognition for Analysing Fitness Dataset Using a Fitness Tracker.....	228
<i>Soumiya Chadha, Ishita Raj, D. Saisanthiya</i>	
Traffic Vehicles Detection Using Deep Learning Techniques .....	233
<i>M. Rajalakshmi, Akshat Khare, Pranjal Patel</i>	
An Effective Sentiment Analysis Classification for Opinion Prediction Using Machine Learning Schemes.....	238
<i>T. M. Saravanan, M. Jagadeesan, P. A. Selvaraj, B. M. Rithika, G. Karan, R. C. Tamil Selvan</i>	
The Necessity of Artificial Intelligence for Smart Environment: Future Perspective and Research Challenges .....	244
<i>Shabnam Kumari, P. Muthulakshmi</i>	
An Intelligent System to Assess the Exterior Vehicular Damage Based on DCNN .....	250
<i>K Meenakshi, Sidhharth Sivasubramanian</i>	
A Review on the Analysis of 5G Technology and Its Impact on Humans .....	255
<i>R. Dhanasekar, L. Vijayaraja, C S Mirthulaa, P P Narenthira Sai Raam, B Naveen, C Vignesh Kumar</i>	
Survey on Smart Agriculture Using Iot .....	261
<i>B. Sakthikumar, M. Ishwarya Niranjana, M. Abinath, I. Guru Prasath, K. Jugasri, S. Kailash</i>	
Diabetes Prediction Using Machine Learning .....	266
<i>G Parimala, R. Kayalvizhi, S. Nithiya</i>	

Automatic Speech Recognition Using Machine Learning Techniques.....	276
<i>Ashutosh Shukla, Amrit Aanand, S. Nithiya</i>	
Comparative Study of Detection and Analysis of Different Malware with the Help of Different Algorithm .....	282
<i>P. A. Selvaraj, M. Jagadeesan, T. M. Saravanan, Aniket Kumar, Anshu Kumar, Mayank Kumar Singh</i>	
Chatbot Based Virtual Diagnosis Assistant for Skin Diseases and Bone Fracture Detection Using Neural Network .....	288
<i>S. Nithiya, G. Parimala, S. Murugaanatham</i>	
Scaling Blockchain Systems Using DAG.....	294
<i>Parth Dhawan, Arjav Rastogi, D. Sai Santhiya</i>	
Performance Analysis of Stacked Nano Sheet at Gate Length of 10nm at Linear and Saturation Region .....	298
<i>Kalaiarasi Arumugam, M Prasad, N Rajesha, V Anil Kumar, Mohd. Abdual Muqet, B Suneela</i>	
Lane Coloration in Real Time Vehicular Ad-Hoc Networks (VANETS).....	304
<i>Arjit Vatsa, Sanskar Agarwal, M Ranjani</i>	
An Ensemble Prediction Model for Chronic Kidney Disease Using Optimizedfeature Selection .....	309
<i>E. M Roopa Devi, R. Shanthakumari, R. Rajadevi, M Anoj Roshan, V Hari, S Lakshmanan</i>	
Implementing Health Records Using Knowledge Graphs and BlockChain .....	317
<i>T Karthika, M Mounica, N Priyadarshini, R Amirtharajan, K Revathy, Padmapriya Pravinkumar, Maheshwari B Uma</i>	
Edge Computation Assisted Garbage Monitoring and Alerting System for a Smart City .....	321
<i>B Gayathri, V Akila, R Amirtharajan, K Revathy, Padmapriya Pravinkumar, B Uma Maheshwari</i>	
Implementation of Yara Rules in Android .....	325
<i>Pragya Bharti, Shreya Saha Roy, A. Suresh</i>	
An Ensemble of Machine and Deep Learning Models for Real Time Credit Card Scam Recognition .....	330
<i>Khushi Goyal, Shaurya Singh, Muskan Gulati, A. Suresh</i>	
Supply Chain Management in Manufacturing Industry Using Internet of Things .....	334
<i>Chouta Jaswanth, Lanka Venkata Aravinda Krshna Saipradeep, Charakanam Viraj Kishore, R Amirtharajan, Padmapriya Pravinkumar</i>	
Graph Theoretic Approach to IOT Applications.....	339
<i>Yegnanarayanan Venkataraman, Jeyaraj Jane Rubel Angelina, Sottallu Janakiram Subhashini, Venkata Naveen Vadlamudi, Nagaraj P</i>	
Smart Segregation of Waste and Automatic Monitoring System.....	343
<i>V. Muneeswaran, P Nagaraj, A. Akhila, L. Sudeepthi, B. Venkateswararao, B. Vamsi Krishna</i>	
IOT-Based Smart Trash Bin for Real-Time Monitoring and Management of Solid Waste .....	349
<i>Ayush Parth S Kumar, Basi Jithendra Sai Kumar, R L Bharath, R Amirtharajan, Padmapriya Pravinkumar</i>	
Waste Management System - A Wastage Classifier Using DeepLearning with IoT.....	353
<i>R. S. Sathyanarayanan, R Amirtharajan, Padmapriya Pravinkumar</i>	

Design of Multilevel Inverter with Its Study on Different Configurations and Applications .....	356
<i>L Vijayaraja, R Dhanasekar, S Kesav Sanadhan, T Vishal, V Kannan, Rupa Kesavan</i>	
Applications of Blockchain Technology in Modern Education System – Systematic Review.....	362
<i>P. Chinnasamy, D. Roja Ramani, Ramesh Kumar Ayyasamy, B. Jency A Jebamani, S. Dhanasekaran, V. Praveena</i>	
BookChain: A Secure Library Book Storing and Sharing in Academic Institutions Using Blockchain Technology .....	366
<i>P. Chinnasamy, Anupriya Elumalai, Ramesh Kumar Ayyasamy, S. P. Kavya, S. Dhanasekaran, Ajmeera Kiran</i>	
E-Governance Services Using Artificial Intelligence Techniques .....	371
<i>P. Chinnasamy, D. Tejaswini, S. Dhanasekaran, K. Ramprathap, K Lakshmi Priya, Ajmeera Kiran</i>	
BDDoS: Blocking Distributed Denial of Service Flooding Attacks with Dynamic Path Detectors .....	378
<i>P. Chinnasamy, Sai Devika, V Balaji, S. Dhanasekaran, B. Jency A Jebamani, Ajmeera Kiran</i>	
Breast Tumor Detection Using Machine Learning and Deep Learning Algorithm .....	383
<i>V Kiruthika, G Aasthikka, K Dhivya Archana, T Krubha Harane, V Malavika</i>	
Adaptive Traffic Control System Using YOLO .....	388
<i>S Sirphy, S. Thanga Revathi</i>	
Smart Waste Management System for Metropolitan Areas .....	393
<i>C Udhayakumar, M Nithin Nandha, V Pradeesh, S Praveen, S Rohith</i>	
Real Time Facial Emotion Recognition Using Deep Learning and CNN .....	396
<i>S. K. Lokeshnaik, A. Punitha, P. Vijayakarthish, Ajmeera Kiran, A. Narsimha Dhangar, B. Jathin Reddy, M. Sudheeksha</i>	
PC Automation Using Hand Gestures .....	401
<i>P Purushotham, Ben Sujin Bennet, P. Vijayakarthish, Ajmeera Kiran, Ramakrishna, M. Pravallika, Y. Shivani, Ch. Chetan</i>	
Secure Reversible Image Data Hiding (SRIDH) Using LSB Prediction Method.....	405
<i>Ajmeera Kiran, C Vimalarani, L. Ashwini, G. Gayithri, J. Supriya, T. Vinod</i>	
Implementation of 3-Level Security System Using Image Grid Based Authentication System.....	409
<i>Ajmeera Kiran, B Ben Sujitha, P. Vijayakarthish, Manduri Vamsi Krishna, Suragouni Nikitha, Thakur Harshvardhan Singh</i>	
Intelligent Chat Bots: An AI Based Chat Bot for Better Banking Applications .....	414
<i>Ajmeera Kiran, I. Jeya Kumar, P. Vijayakarthish, S. K Lokesh Naik, T. Vinod</i>	
Sentiment Analysis Using Deep Learning for Students’ Feedback: A Survey.....	418
<i>P Purushotham, Ajmeera Kiran, Yashwanth Reddy, Vrishan, Pavan</i>	
Cloud Computing Based (Serverless Computing) Using Serverless Architecture for Dynamic Web Hosting and Cost Optimization .....	422
<i>Rakesh Veuvolu, Anirudh Suryadevar, T. Vignesh, Nikhil Reddy Avthu</i>	
Obstacle Detection and Navigation Support Using SMART Shoe for Visually Impaired Person .....	428
<i>Vijay Kumar Burugari, P Kanmani, M. I. Thariq Hussan, Prabha Selvaraj</i>	

Online Medical System Using ElGamal.....	432
<i>Shivam Kumar Gupta, S. Thenmalar, S. T. Subha</i>	
Automatic Pressure Cooker Risk Detection and Control Using Arduino .....	438
<i>V Muneeswaran, P Nagaraj, L. Anuradha, V. Lekhana, G. Vandana, K. Gayathri Devi, A. Tejaswee</i>	
Smart Automated Kitchen System Using Internet of Things.....	443
<i>C Ryan Paul Jess, R. S Rithin, S Raguram, M Dennis Roshan, M. A. P. Manimekalai, K. Muthulakshmi, S. Dhanasekar</i>	
Personalized Secure E-Identity Card Using Block Chain.....	447
<i>Vijay Kumar Burugari, P Kanmani, Prabha Selvaraj, Varun Potluri</i>	
Automated Youtube Video Transcription to Summarized Text Using Natural Language Processing .....	451
<i>P Nagaraj, V Muneeswaran, B Rohith, B Sai Vasanth, G Veda Varshith Reddy, A Koushik Teja</i>	
Cryptanalysis of an Anonymous and Traceable Group Data Sharing in Cloud Computing .....	457
<i>Dinesh Babu K M, L. N. B. Srinivas</i>	
Banking Data Migration from On-Premise to Cloud.....	463
<i>Mahesh Gogulapati, Krishna Reddy, P. Chinnasamy, Avinash Agnihotri, Twinkle Thondickal, Anoop Aravind</i>	
Text Recognition Based on Encoder and Decoder Framework .....	468
<i>Subhashini Peneti, Thulasi Chitra</i>	
An Effective Approach for Preparation of News Summary Using Web Scraping Techniques.....	474
<i>N. Thulasi Chitra, G. Sreenivasulu, P. Subhashini, Ganti Krishna Sharma, N. Sandhya</i>	
A Survey on Data Security Using Reversible Cellular Automata.....	478
<i>Divya Priya Degala, Senthil Athithan, P. Chinnasamy</i>	
A Strange Model for Secure Medical Image Transaction - An Attractor Approach .....	484
<i>Patalam Rithish, Jagadeeshwaran Muthiah, Nithya Chidambaram</i>	
Cold Supply Chain Adopting PI Controller to Maintain Temperature During Drug Delivery .....	488
<i>Vijay Ramasamy, Padmapriya Pravinkumar</i>	
Reinforcement Learning Algorithm to Sustain Temperature in Pharma Supply Chain Management .....	491
<i>Vijay Ramasamy, Padmapriya Pravinkumar</i>	
Detection of Cyber Attack Using Artificial Intelligence.....	494
<i>Nithish Krishna Ag, D Saveetha</i>	
Using Honey Pot Technique Ransomware Get Detected.....	499
<i>Solomon Raja, K. Venkatesh</i>	
Electronic Voting Machine Using Fingerprint Scanner with Image Enhancement Technique .....	503
<i>Sai Deepak Alapati, Chandana Chennamsetty, Pujitha Dantam, Anusha Dabbara, Muthukumar Arunachalam</i>	
ECC-Based Authentication for Secure TDMA in VANETs.....	508
<i>Suchi Johari, M. Bala Krishna</i>	
Sentiment Analysis of Twitter Reviews Using SVM, ANN and CNN Models .....	514
<i>L. Sudha Rani, S. Zahoor-Ul-Huq, C. Shoba Bindu</i>	



Design and Development of UAV for Challenge Faced for Data Muling Problem in Path.....	518
<i>Muthukumar Arunachalam, Mani Kanta Animisetty, Bhanu Prakash Nammi, Suman Jajala, Siva Raju Dokku</i>	
LP/CP Re-Configurable Antenna for 5G Applications.....	522
<i>Rangarao Orugu, M. Nesasudha, Doondi Kumar Janapala</i>	
Custom and Design of Agri Drone .....	526
<i>A. Muthukumar, M V Muthukumar, S Tamil Varshini, N Prem Mathavan, K Vishnu</i>	
Dual Semi Circular Disc Loaded Planar Antenna for 5G/WLAN Applications.....	530
<i>Rangarao Orugu, M. Nesasudha, A. K. Chaithyanya Varma, Doondi Kumar Janapala</i>	
A Peculiar Image Encryption Technique for Mobile Application.....	533
<i>R Krithika, J. Godwin Ponsam</i>	
Yolo: Human Detection-Based Intelligent Home Automation Using IOT .....	537
<i>P Nagaraj, S Sathish, M Mathan Kumar, Arsalan Ahmad Khan, Ahmad Mohiuddin, M Syed Haroon</i>	
Detection of Cyberbullying Based on Online Social Networks .....	543
<i>Aiswarya Rajeevan, N Krishnaraj</i>	
Modified Encryption Standard for Reversible Data Hiding Using AES and LSB Steganography.....	547
<i>B Elisha Raju, M Ravi Sankar, T Saran Kumar, K Ramesh Chandra, V Bhavani Durga, G Prasanna Kumar</i>	
Closest Celestial Body Search Using KD Trees .....	552
<i>P Priya Ponnusamy, C P Shabariram, V R Umayal, A Susmeta</i>	
Implementation of a Blockchain Based Attendance Tracking System .....	559
<i>S K Geetha, S Kanakaprabha, A Devipriya, D Brindha, E Vetrmani</i>	
Trustworthy Web Service-Business Activities (WSBA) Using an Efficient Byzantine Fault Tolerance Algorithm.....	564
<i>G. Muneeswari, Kanmani P, Vijay Kumar Burugari, Prabha Selvaraj</i>	
Industry 4.0 Digital Technologies and Information Systems: Implications for Manufacturing Firms Innovation Performance .....	570
<i>Ramesh Kumar Ayyasamy, Farhan Bashir Shaikh, Nur Syadhila Binti Che Lah, Shadab Kalhoro, P. Chinnasamy, Saraswathy Krisnan</i>	
Classification of Influenza from Chest Radiography Using Deep Neural Architecture .....	576
<i>T Jemima Jebaseeli, D Jasmine David, S Suriya</i>	
A Flexible Wideband Spiral Antenna Using Polydimethylsiloxane Substrate for Wearable Applications.....	582
<i>V. A. Sankar Ponnappalli, Gayam Shivakanth Reddy, Peddi Sree Rohith Goud, Pabba Saharsh, A Praveena</i>	
IOT-Based Smart Inventory Management System .....	587
<i>J K Kiruthika, S Manikandan, U Nithya, M Preethika, S Poorna</i>	
Multimodal Deep Neural Network for Diabetic Retinopathy Detection .....	593
<i>Vijay Ravichander, Aditi Mittal, P Nithyakani</i>	

Design of Secure QR Payment System Using Visual Cryptography Method.....	597
<i>Praveena Narayanan, Yadlapalli Lokesh, P. Charitha, G. Chethan Teja Kumar, B. Bhavya, S. Hemalatha</i>	
Convolution Neural Networks Based Lungs Disease Detection and Severity Classification.....	603
<i>K. Soni Sharmila, S Thanga Revathi, Pokkuluri Kiran Sree</i>	
Design and Analysis of Annular Slot Antenna with Monopole for WLAN Using Computer Simulation Technology.....	612
<i>Thakur Rithika, Pathuri Sree Mahalakshmi, Brahmamlapally Anil, N. Arun Vignesh, Balambigai Subramanian</i>	
Design of Dual Band Body Area Network Antenna Using CST .....	618
<i>Randhi Harika, Manda Arun Raj, Saraswatula Karthikeya Anirudh, N. Arun Vignesh, C. Gokul Prasad</i>	
Optimizing Virtual Machine Downtime in Live Migration Using the Least Frequently Used Service-Based Pre-copy Algorithm .....	624
<i>C. P. Shabariram, N. Shanthi, P. Priya Ponnusamy, R. Prema, R. S. Sowmiya Priya</i>	
Design and Analysis of M-Shaped Monopole Antenna for Bluetooth Communications .....	629
<i>Andrews Jogu, Kakinada Leelavathi, Iruvuru Manogna, N Arun Vignesh, Balambigai Subramanian</i>	
Steganalysis Using Convolutional Neural Networks-Yedroudj Net.....	634
<i>Anuragh Vijjapu, Y Satya Vinod, S V S N Murty, B Elisha Raju, B V V Satyanarayana, G Prasanna Kumar</i>	
Age and Gender Prediction Using Adaptive Gamma Correction and Convolutional Neural Network .....	641
<i>Anweasha Saha, S Nithish Kumar, P Nithyakani</i>	
Gait Speed Based Individual Recognition Model Using Deep 2-D Convolutional Neural Network .....	646
<i>Abhay Lal, P Nithyakani</i>	
Unsupervised Online Video Object Segmentation .....	652
<i>R. Mahima, M. Maheswari, E. Priyanka, C. Praiselin, K. Sanjitha</i>	
A Systematic Review on Classification of Cyber Attacks and Its Prevention Techniques to Improve Cyber Security.....	655
<i>A. P. Nirmala, V Asha, B. Nithya Ramesh, K Chandana, G. R Chandana, Arshe Alam</i>	
Impact of Mobility Aware RPL Objective Functions in Mobile Internet of Things Applications .....	661
<i>V. C. Diniesh, G. Murugesan, M. Joseph Auxilius Jude, S. Anantha Kumar, K. S. Dharani, R. Aravind</i>	
Anti-Accident Mechanism to Detect Driver Drowsiness Integrated with Alerting Mechanism: An IoT-based Model.....	666
<i>Srujan Katukam, Sai Vinay Potluri, Sunell Dutt Abburi, Rahul Cherukuri, C Sreeka Parinishta, Mohith Peddineni, R. P. Ram Kumar, Sanjeeva Polepaka</i>	
DCNN Model for Automatic Detection of Polyps Using UNet .....	670
<i>B. Devananda Rao, T. Bhavana, T. Madhu Babu, L. Neha Chouhan</i>	
Classification of Tweets Using Natural Language Processing from Twitter API Data.....	675
<i>P Nagaraj, V Muneeswaran, M Ritika, V Saranya, N Gayathri, P V Gowthami</i>	

Block Level Implementation of Orca Top Using H-Technique .....	682
<i>Gattu Harish Goud, T. Padma, Ch. Usha Kumari, A Kalaiarasi</i>	
Restaurant Recommender System Based on Sentiment Analysis.....	687
<i>N. Shirisha, T Bhaskar, Ajmeera Kiran, K. Alankruthi</i>	
Aspect Based Sentiment Aware Word Embedding for Cross Domain Sentiment Analysis .....	691
<i>G. Thamarai Kannan, M Gunasekar, N. A. Ponnazhagan, K. R. Prasanna Kumar, S. Sudhan, K Logeswaran</i>	
Image Based Plant Disease Detection Model Using Convolution Neural Network.....	696
<i>E. Anupriya, Manyam Thaile, P. Chinnasamy, Papani Muni Yasaswini</i>	
Heart Diseases Prediction Using Machine Learning Algorithms .....	702
<i>E. Anupriya, Manyam Thaile, P. Chinnasamy, M Laxmi Narayana</i>	
The Role of ERNIE Model in Analyzing Hotel Reviews Using Chinese Sentiment Analysis .....	707
<i>Lee Hao Jie, Ramesh Kumar Ayyasamy, Anbuselvan Sangodiah, Norazira Binti A Jalil, Kesavan Krishnan, P. Chinnasamy</i>	
A Review of Blockchain Technology in Smart Applications: Research Issues and Open Challenges .....	713
<i>B. Samuel, K. Kasturi</i>	
Empirical Investigations on the Security and Threat Mitigation of Campus Switches .....	718
<i>Mooraka Sandhya</i>	
Improved Riemann Sequence Based Selective Mapping .....	726
<i>Chhavi Sharma, Pankaj Sharma</i>	
Prediction of Hotel Booking & Cancellation Using Machine Learning Algorithms .....	731
<i>N. Shirisha, K. Anusha, Ajmeera Kiran, Yasam Teja Sai Buavani</i>	
Classical Review on Stock Prognosis Using Long Short Term Memory .....	735
<i>Kuncham Sri Venkata Ramya Praneetha, Perela Narayana Nithesh, Pinni Venkata Sai Sumanth Kumar, T. Vignesh</i>	
Implementation of Beam Selection Algorithm in Millimeter Wave MIMO Systems.....	745
<i>Ch V V S Srinivas, N Durga Naga Lakshmi, A K Chaitanya Varma</i>	
Transfer Learning Techniques for Improving the Quality of Prediction in Crop Yield .....	751
<i>I. Sapthami, B. Murali Krishna</i>	
Automated E-Commerce Price Comparison Website Using PHP, XAMPP, MongoDB, Django, and Web Scrapping.....	757
<i>P Nagaraj, V Muneeswaran, A V S R Pavan Naidu, N Shanmukh, P Vinod Kumar, G Sri Satyanarayana</i>	
EGMPIP: Enhanced Geographic Multipath Routing Using Gossip-Based Direct Neighbor Discovery Algorithm in Wireless Sensor Networks .....	763
<i>N. Senthilkumar, N. Revathy, T. Guhan</i>	
Emergency Tracking System Using Intelligent Agent.....	773
<i>V. K. G Kalaiselvi, N Susila, Hariharan Shanmugasundaram, M Srinidhi, R Surya Kumar, Advait Krishna</i>	
Research Challenges and Future Directions for Data Storage in Cloud Computing Environment .....	778
<i>K. Rajalakshmi, M. Sambath, Linda Joseph</i>	

Weather Prediction Using Linear Regression Model.....	783
<i>U Vivek Krishna, S Sanju, S Sudhakaran, R Kaladevi, Hariharan Shanmugasundaram</i>	
Sewage Monitoring System Using IoT.....	787
<i>V Gerlin, Y Gnana Priya, K R Swetha, R Kaladevi, Hariharan Shanmugasundaram, A Bhanuprasad</i>	
Imbalanced Breast Cancer Prediction Using CNN Through Multi-Net Framework .....	791
<i>E M Roopa Devi, R Shanthakumari, R Rajadevi, K I Sanchana Shree, R Shakkirun, K Poorvaja</i>	
Classification of Breast Cancer Diagnosis Using Machine Learning Algorithms .....	798
<i>Raghav Dwivedi, Khush Ramdev, Er. Meenu Jain, Neha Agrawal</i>	
Life-Saving Opulent Ambulance Tracking System .....	806
<i>M A Gunavathie, M. Manikandan, R. Gowthamani, A Ashwathi</i>	
AI Based Speech Recognition of Literacy to Improve Tribal English Knowledge .....	812
<i>V. Saranya, T Devi, N. Deepa</i>	
A CNN Based Machine Learning Scheme to Detect Lung Cancer Detection from CT Scan Images .....	818
<i>Dr T M Saravanan, M. Jagadeesan, Selvaraj. P. A, M. Mohamed Mubarak, S. Praveen Kumar, S. Sanjay</i>	
Comparative Analysis of Canny Edge Detection- Based Smart Traffic Control System Using Multi-Type Image Processing.....	823
<i>P Nagaraj, V Muneeswaran, K. Saiteja, D. Abhishaek Yadav, K Manikanta, S. Krishna Aditya</i>	
A Comparative Analysis of Retinal Disease Image Classification for OCT Using Deep Learning Techniques.....	834
<i>P Nagaraj, V Muneeswaran, B Sunethra, C Sreeya, U Dhannushree, S Nithisaa</i>	
Image Captioning for Information Generation.....	844
<i>Gurvansh Vohra, Lakshay Gupta, Deepika Bansal, Bhoomi Gupta</i>	
An Implementation of Blockchain Technology in Combination with IPFS for Crime Evidence Management System .....	848
<i>C Shilpa, A. H. Shanthakumara</i>	
Mental Health Detection and Anticipation Analysis Using Deep Learning .....	854
<i>Md Khadimul Islam Zim, Upinder Kaur</i>	
Automated Mechanism for Improving Precision Irrigation Using Machine Learning .....	860
<i>K Sasi Kala Rani, V. K. G Kalaiselvi, Hariharan Shanmugasundaram, Dwaraknath K, K Swathi, R Tarrun</i>	
Voice Controlled Home Automation System Using Google Assistants.....	864
<i>Ajmeera Kiran, G. R. Sakthidharan, D Divya Priya, B. Uma Mahesh, K. Prem Kumar, K. Pavan Kumar</i>	
Remote Health Prediction System Using Machine Learning Algorithms .....	869
<i>P Purushotham, A. Punitha, Ajmeera Kiran, D Divya Priya</i>	
Face Mask Detection Using Support Vector Machine .....	873
<i>D Divya Priya, R Subbulakshmi, P Purushotham, Ajmeera Kiran, T S Arulananth, S. P. Kavya</i>	

Defect Exposure in Vegetables and Fruits Using Machine Learning .....	877
<i>S. Spandana, M Sathiya, Kesavan Krishnan, Ajmeera Kiran</i>	
Unified Model of Entity Tracking Using Deep Learning .....	882
<i>B Anand Kumar, K. Karunambiga, T. Vinod, Elari Buela, N. Sudharani, A. Sowjanya</i>	
Optical Character Recognition Technology Using Machine Learning .....	887
<i>B Anand Kumar, S. Tamilarasan, Ajmeera Kiran, Bagepally Tejaswi, Manikonda Geethika Sree, Mallikarjun Dasarla</i>	
Intrusion Detection System Using Machine Learning .....	891
<i>Ajmeera Kiran, S. Wilson Prakash, B Anand Kumar, Likhitha, Tammana Sameeratmaja, Ungarala Satya Surya Ram Charan</i>	
Automated Answer Script Evaluation Using Deep Learning .....	895
<i>Arepelly Shylesh, Abdul Raafeh, Shaik Mathin, Vallakati Bhanu Prakash, Hariharan Shanmugasundaram</i>	
A Comparative Study of Quantum Machine Learning Enhanced SVM and Classical SVM for Brain Stroke Prediction .....	900
<i>Nitya T. Singh, Aleena Swetapadma, Prasant Kumar Pattnaik</i>	
Enhancing the Security for Healthcare Data Using Blockchain Technology .....	904
<i>T Devi, S. Bangaru Kamatchi, N. Deepa</i>	
Sentimental Analysis Recognition in Customer Review Using Novel-CNN .....	911
<i>N. Deepa, J. Sathya Priya, T Devi</i>	
A Novel Two-Way Cross-tab Machine Learning Approach for Predicting Life Insurance Using Bivariate Exploratory Analysis.....	915
<i>N. Deepa, N Udayakumar, T Devi.</i>	
High Precision Non-Invasive blood Glucose Monitoring Device for Diabetic Patients.....	920
<i>Y Roshini, P. Durgaprasadarao, R Sai Sarvan, L. V. Koushik Varma U, V. Sireesha</i>	
Shopify - Shop Augmentation and Recommendation System .....	925
<i>Subhojeet Bhattacharjee, Nishant Singh, N. Prasath</i>	
Heart Disease Prediction Using Machine Learning.....	931
<i>Saurabh Bilgaiyan, Tajul Islam Ayon, Aliza Ahmed Khan, Fatema Tuj Johora, Masuma Parvin, Mohammad Jahangir Alam</i>	
Pitch Extraction and Notes Generation Implementation Using Tensor Flow .....	937
<i>K Vijay, P Krithiga, S Kavirakesh</i>	
RFID-Enabled Automated Billing System for Retail Establishments .....	945
<i>S Akhash, K Vijay, M. Jaeyalakshmi, Adharsh Anand, Eashaan Manohar</i>	
Private Cloud Storage Using Raspberry PI Via Virtual Network Computing - An Analysis.....	949
<i>K Vijay, W R Sabarish Abishek, V U Sabarish, R Sanjeev Krishnan</i>	
Chest Disease Classification Using Convolutional Neural Networks .....	956
<i>S. Kavitha, S Thaarani, Amrit Preet Singh, G Santhosh</i>	
Design and Implementation of Alzheimer's Disease Detection Using cGAN and CNN .....	960
<i>R. Ravikumar, N Sasipriyaa, T. Thilagaraj, R Hareesh Raj, A Abishek, G Gokula Kannan</i>	

A Deep Learning Approach Based on CT Images for an Automatic Detection of Polycystic Kidney Disease .....	967
<i>S. K. Aruna, N. Deepa, T Devi.</i>	
Recognition of Tamil Handwritten Characters Using Scrabble GAN .....	972
<i>N Sasipriyaa, P. Natesan, E. Gothai, G. Madhesan, E. Madhumitha, K. V. Mithun</i>	
Smart Dustbin Using Node MCU.....	977
<i>A Adesh Sai, K Vijay, M. Jaeyalakshmi, Anjana Deivasigamani, M Srivatsan</i>	
Disease Prediction in Humans Using Machine Learning Techniques- A Survey .....	981
<i>Anju Asokan</i>	
Suicidal Ideation Prediction Using Machine Learning.....	985
<i>N. Shanthi, M. Muthuraja, C. Sharmila, S Jagadeesh, R Karthick, M Bharanidharan</i>	
The Early Detection of Dementia Disease Using Machine Learning Approach .....	989
<i>Md Shariar Kabir, Jakia Khanom, Md. Atik Bhuiyan, Zerin Nasrin Tumpa, Sk. Fazlee Rabby, Saurabh Bilgaiyan</i>	
Knowledge Based Perceptions of Chatbots in Healthcare.....	995
<i>P Nagaraj, Akhil Sk Mohammed, V Muneeswaran, Kumar N Akshay, G Manoj, Teja G Venkata</i>	
Yolo Based License Plate Detection of Triple Riders and Violators.....	1001
<i>R G Nandhakumar, K. Nirmala Devi, N. Krishnamoorthy, S. Shanthi, V R Pranesh, S Nikhalyaa</i>	
Fake News Detection Using Machine Learning.....	1007
<i>P. Santhiya, S. Kavitha, T. Aravindh, S. Archana, Ashwanth V Praveen</i>	
FAAP – a Farmer’s Amiable Application to Enhance Agriculture Using Mobile Technology.....	1015
<i>MA Gunavathie, K. Sasi Kala Rani, G. Renugadevi, M. Manikandan</i>	
Detection of Cervical Cancer Using Ensemble Approach in Machine Learning.....	1020
<i>C Roopa</i>	
Suicidal Thoughts of Recent Generations- A Review.....	1028
<i>N Shanthi, A. Aadhisri</i>	
Emotion Prediction Through Facial Recognition Using Machine Learning: A Survey.....	1033
<i>Kripansh Singh, Naman Goel, Bhoomi Gupta, Deepika Bansal</i>	
Metaverse: Cryptocurrency Price Analysis Using Monte Carlo Simulation .....	1038
<i>Anisha Singhal, Divya, Neha Singhal, Kanchan Sharma</i>	
Smart Diagnostic System for Early Detection and Prediction of Polycystic Ovary Syndrome.....	1046
<i>K P Harish, M. N Dhivyanchali, K. Nirmala Devi, N. Krishnamoorthy, R Dhana Sree, R Dharanidharan</i>	
An Approach to Detect Melanoma Skin Cancer Using Fastai CNN Models .....	1052
<i>Md Shazzad Mia, Sumaiya Mustari Mim, Mohammad Jahangir Alam, Md Razib, Mahamudullah, Saurabh Bilgaiyan</i>	
Prediction of Typhoid Using Machine Learning and ANN Prior to Clinical Test .....	1058
<i>Md. Atik Bhuiyan, Sharaf Shahariare Rad, Fatema Tuj Johora, Abdullah Islam, Md Ismail Hossain, Aliza Ahmed Khan</i>	

Text Detection and Language Identification in Natural Scene Images Using YOLOv5 .....	1065
<i>R. S. Latha, G. R. Sreekanth, R. C. Suganthe, R. Rajadevi, V. V. Jagadeeswaran, R. Logesh, A. Maheshvar</i>	
Design of an Energy Efficient Low Voltage Single Phase Im .....	1072
<i>A. Selvanayakam, B. Hemananth, M. Iswarya, A. Elakya, N. Subhashini</i>	
Genetic Based Fuzzy Logic Control of SEDC Motor .....	1077
<i>N. Aarthi, P. Anbarasu, D. Nagarajan, A. Sajitha Banu, M. Vinosh</i>	
Threshold Based Feature Selection for Anemia Prediction .....	1083
<i>K. Aishwarya</i>	
Recurrent Gastric Cancer Prediction Using Randomized Search CV Optimizer .....	1088
<i>M K Vishnu, V R Vishal Rupak, S Vedhapriya, M. Sangeetha, R. Manjuladevi, C. Sagana</i>	
Analysis of Memristor Based Analog Circuits for Improved Efficiency.....	1093
<i>Prabhnoor Bawa, Vandana Niranjana</i>	
A Novel Method for Pneumothorax Diagnosis and Segmentation Using Deep Convolution Neural Network.....	1098
<i>S. Shanthi, K. Nirmaladevi, N. Mathiarasi, As. Krithika Tharani, A. Monisha, R. Kuppuchamy, N. Krishnamoorthy</i>	
A Transfer Learning Approach Towards Optical Spectrum Based Optical Performance Monitoring .....	1106
<i>Sindhumitha Kulandaivel, Rithik Yadav, Rahul Anand, R. K. Jeyachitra, S Manochandar</i>	
A IoT Based Smart Auto Irrigation System .....	1111
<i>Ramya Vijay, Yedupati Vishnu Priya, Praveen Chandra Reddy, S Monisha, Vijay Ramasamy</i>	
Plant Type Classification Based on Leaves Using Fusion Based Support Vector Machine .....	1115
<i>R. Manjula Devi, M. Sangeetha, C. Sagana, S. Savitha, P. Hemalatha, N. Janani, K. Maamathi</i>	
Relating DT Framework in IOT Based Heart Rate and Blood Oxygen Monitor with Automatic Data Saving.....	1121
<i>C Gokul Prasad, W G Vipshal, O Leon, Ap Thamarai Kannan, B Sabarinathan, N Arun Vignesh</i>	
Twitter Sentiment Analysis Using Collaborative Multi Layer Perceptron(MLP) Classifier .....	1125
<i>R. Manjula Devi, P. Keerthika, P. Suresh, M. Sangeetha, C. Sagana, S. Savitha, K. Devendran, B. Nithiesh</i>	
A DT Framework Based AI Robot for Facial Recognition Using IoT .....	1131
<i>C Gokul Prasad, S Gowtham, M Mahesh, Azeem Biju Sainudeen, P Prabhakaran, N Kumareshan</i>	
Prediction of Parkinson's Disease Using Machine Learning Based on Vocal Frequency .....	1136
<i>N. P. Saravanan, P. Deepika, P. Dhanush, P. Dhanvarsini</i>	
Machine Learning-Based Crop Recommendations for Precision Farming to Maximize Crop Yields .....	1142
<i>C. Sagana, M. Sangeetha, S. Savitha, K. Devendran, T. Kavina, K. Kavinsri, P. Mithun</i>	
Sales Prediction for Food Products Using Machine Learning.....	1147
<i>N. P. Saravanan, R Muthupriyanka, K C Nandha Kishore, S Ishwarya</i>	

A Perustration on the Optimistic Prognosis of Chronic Renal Failure Using Evolutionary Machine Learning and Deep Learning Techniques .....	1156
<i>B Vishnupriya, R Abitha, A S Harshithaa, M Agalya, M Gugapriya</i>	
Performance Analysis of Low-Density Parity Check Codes for 5G Technology .....	1165
<i>Pooja Pathak, Richa Bhatia</i>	
Whale Species Classifier Using Dorsal Fin and Lateral Body Characteristic .....	1170
<i>Kunal Pamu, Allam Mohan</i>	
Heart Disease Prediction-Based on Conventional KNN and Tuned-Hyper Parameters of KNN: An Insight.....	1176
<i>Sanjeeva Polepaka, R. P. Ram Kumar, Srujan Katukam, Sai Vinay Potluri, Sunell Dutt Abburi, Mohith Peddineni, Nagaraj Islavath, Muralidhar Reddy Anumandla</i>	
Alive Human Detection in War Fields and Earthquakes Using PIR Sensor and Monitoring the Heartbeat of the Victims .....	1179
<i>Sanjeeva Polepaka, R. P. Ram Kumar, Kanchi Mishra, Ismath Tabassum, K Amal</i>	
Performance Analysis of Blockchain Technology Using Inter Planetary File System (IPFS) Database in Comparison with Block Chain Database .....	1184
<i>Meenu Jain, Manisha Jailia, Manisha Agarwal</i>	
Systematic Harmful Signs Detection for Women’S Safety Using Neural Networks.....	1188
<i>U. Yaswanth Reddy, M. Sai Nikhil, P. S Sai Krishna, Srithar S</i>	
Classification of Satellite Agriculture Imagery to Identify Crop Type Using Deep Learning Techniques - A Review .....	1193
<i>N. Thamaraikannan, S Manju</i>	
System for Detecting Intrusions Using Raspberry PI.....	1198
<i>Dennise Mathew, G Kirubasri, K Vijay, I Eugene Berna, K R Sowmia</i>	
Multi-Class Classification of Insects Using Deep Neural Networks.....	1204
<i>M Santhiya, A Priyadarshini, J Agshalal Sheeba, S. Karpagavalli</i>	
Copy Move Image Forgery Detection Using Machine Learning .....	1209
<i>Aditya Semwal, Anurag Kumar, D. Saveetha</i>	
An Real Time Object Detection Method for Visually Impaired Using Machine Learning.....	1218
<i>Saravanan Alagarsamy, T. Dhiliphan Rajkumar, K. P. L. Syamala, Ch. Sandya Niharika, D. Usha Rani, K. Balaji</i>	
Detection of Animals for Road Safety Using Deep Learning Method .....	1224
<i>Saravanan Alagarsamy, R. Rajasekar, S. Korrapati Mohan Krishna, Kurapati Pavan Chand, Kumbhagiri Nikhil, Kota Venkata Pavan Teja</i>	
Effective Model for Improving Symptoms-Based Disease Prediction by BiMM - BERT Algorithm.....	1229
<i>V. Jayasudha, N. Deepa, T Devi.</i>	
Comparative Analysis of Different Approaches to the Music Recommendation System.....	1236
<i>P Nagaraj, V Muneeswaran, B Mohith Kumar, K Rama Krishna Rao, Mothukuri Siva Nagaraju, Mandadi Venakata Hemanth Kumar</i>	
Supervised and Unsupervised Neural Network Deep Analysis for Facial Recognition .....	1243
<i>A. Akhil, Y. Ajay, B. Vandana, A. Priyanka, S Srithar, Ch Prem Kumar</i>	



Identification of Gender and Age Using Classification and Convolutional Networks .....	1250
<i>D. Durga Prasad, K. V. Subba Rami Reddy, N. Akash, K. Dakshayani, N. Jessica, Ch. Rama Krishna</i>	
Prediction of Rental Demands Using Different Machine Learning Algorithms .....	1256
<i>S Ravikumar, K Vijay, S. Pavithra, S Prithi, Sriram Kannan</i>	
Performance Analysis and Comparison of Speaker Independent Isolated Speech Recognition System .....	1262
<i>A Kalaiarasi, A. Narendrakumar, P. Jayabalasubramaniam, N Kumareshan, N Prakash, C Gokul Prasad</i>	
Detection of Personal Attacks in Mobbing on Social Media Using Deeplearning Techniques .....	1266
<i>P. A. Selvaraj, M. Jagadeesan, T. M. Saravanan, Y. Shaheela, Suraj Kumar Pandey, M. Sowmithra</i>	
Glaucoma Prediction Using Supervised Learning .....	1272
<i>R. C. Suganthe, M. Geetha, R. S. Latha, S. Preethi, M. Rishika, D. Sandhiya</i>	
Automated Stock Price Prediction Using LSTM-ANN .....	1278
<i>P Nagaraj, V Muneeswaran, T. V. Dastagiri Reddy, B. Venu Gopal Reddy, T. Ganesh Reddy, P. Suresh</i>	
Comparing and Describing the Characteristics of Swarm Optimization in Bio-Inspired Algorithm.....	1287
<i>D. Rithvik Venkata Sai, Madala Phanindra, G. Likitha, V. Sravya Chandana, S S Aravinth, S Srithar</i>	
Iotsdl: Internet of Things Security for Deep Learning Techniques-A Research Perspectives .....	1295
<i>R Selvam, S Velliangiri</i>	
Prediction of Water Quality Parameters by IoT and Machine Learning .....	1302
<i>Srinivas Kolli, M. Ranjani, P. Kavitha, D. Arul Pon Daniel, Awadhesh Chandramauli</i>	
Functional Overview of Integration of AIML with 5G and Beyond the Network .....	1307
<i>Kolli Srinivas, J Aswini, Pramoda Patro, Devendra Kumar</i>	
Optimized Parameter Selection of Induction Motor Using Finite Element Method.....	1312
<i>B. Arun Kumar, V. K. Sasi Bharathi, M. Gengaraj, P. Loka Priya, Dhanusha, B. Vigneshwarn</i>	
Implementation and Classification of Breast Cancer Histopathological Image Processing Using Support Vector Machine .....	1317
<i>Deetchith Kaiserea, B. Kiruthiga, R. Narmatha Banu</i>	
A Machine Learning Approach for Predicting Crop Seasonal Yield and Cost for Smart Agriculture .....	1324
<i>M Nandaraj, A Roshan Raj, M Uma Maheshwari, R Sathiyaraj, K Tejasvi</i>	
One-Dimensional Convolutional Neural Network and Long Short-Term Memory Convolutional Neural Network for 12-Lead ECG Arrhythmia Detection.....	1330
<i>S. V. Evangelin Sonia, R. Nedunchezhian, M. Rajalakshmi</i>	
E-Commerce Customer Churn Prediction Scheme Based on Customer Behaviour Using Machine Learning .....	1334
<i>P Nagaraj, V Muneeswaran, A Dharanidharan, M Aakash, K Balanathanan, C Rajkumar</i>	
Smart Home Automation Security Using Type-2 Fuzzy-Based Approach Through IoT.....	1340
<i>T. N. Aruna</i>	

Blood Vessel Segmentation for Retinal Fundus Disease Detection.....	1345
<i>Rishikesh Sivakumar, Nidhi Singh, C. Jothi Kumar, N. Prasath</i>	
Cervical Cell Classification Using Deep Learning Techniques.....	1354
<i>R Remya, Kumudha Raimond</i>	
Smart MCB Design Using Embedded and IOT System.....	1359
<i>Ayush Yadav, Vijay Kumar Sharma</i>	
Application of Latest Authentication Technologies in Vehicular Cloud.....	1365
<i>J. Varalakshmi, S. Dhanasekaran</i>	
Adaptive Energy Routing Protocol Using Spider Optimization in Wireless Sensor Networks.....	1370
<i>A. Srinivasa Reddy, G. Malleswari</i>	
A Survey on Existing System Design Used for Managing Ambulance Booking Through Mobile App.....	1376
<i>L. Srinivasan, B Mounika, Shaik Anju Minayar, Sanjeevani Sharma, Navya Sood</i>	
A Review on Techniques Used for Face Authentication Based Smartdoor Bell System Using IOT.....	1383
<i>L. Srinivasan, Naveen Kumar Reddy, U P Basavaraj, K Chirag, M E Darshan</i>	
Effect of Supervised Machine Learning Algorithms on Rice Plant Diseases.....	1388
<i>R. Sahith, P. Vijaya Pal Reddy</i>	
Deep Learning Framework for Identification of Leaf Diseases in Native Plants of Tamil Nadu Geographical Region.....	1394
<i>K. Kavitha, S. Naveena</i>	
Modified PI Controller for BLDC Motor in Electric Vehicle Applications.....	1401
<i>G. Jayabaskaran, S. Suresh</i>	
Hand Sign Classification Techniques Using Supervised and Unsupervised Learning Algorithms.....	1409
<i>J L V Sri Harshitha, N Saranya, Yekkitilli Sruthi, S Srithar, J Vijaya Chandra</i>	
Design of IoT and Machine Learning Based Model for Crop Prediction and Fruit Ripeness Detection.....	1414
<i>G. Saranya, N. Dineshkumar, A. S. Hariprasath, G. Jeevanantham</i>	
Relating the DT Framework in Securing the Healthcare Data Using Blockchain.....	1420
<i>M. Shobana, A. Mukeshkumar, S. Vaishnavi, C. Gokul Prasad</i>	
V-Verify with Biometric System Using Design Thinking Framework.....	1424
<i>G Swathi, S P Pranava Kailash, R Dharshana, V Monica, S Keerthana</i>	
Ai - Underwater Drone in Protection of Waterways by Relating Design Thinking Framework.....	1428
<i>M Shobana, M Madhavan, Meha V. S, S Nandhini, D Neeraj.</i>	
Neural Network-Based Software Vulnerability Classification to Enhance Accuracy.....	1432
<i>M. Jagadeesan, T. M Saravanan, P. A. Selvaraj, V. Mounika, D. Ramya, K. S. Vasantha Kumar</i>	
Prediction of Mango Leaf Diseases Using Convolutional Neural Network.....	1437
<i>T M Saravanan, M. Jagadeesan, P. A. Selvaraj, M. Aravind, G. Dharun Raj, P. Lokesh</i>	
Critical Review for Estimation of Snow Depth Using Satellite Products and Auxiliary Parameters.....	1441
<i>Sanjima Rana, Priestly Shan, Kuldeep Kumar</i>	

Recognition and Processing of Phishing Emails Using NLP: A Survey.....	1445
<i>Chunduru Anilkumar, Aravind Karrothu, Nandam Sri Mouli, Chaduvula Bhanu Tej</i>	
Comparative Performance Assessment of Machine Learning Algorithms to Predict Cardiovascular Disease .....	1449
<i>S. Hemalatha, T. Kavitha, D. Niruba, S. Nandhakumar, R. Venkatesh</i>	
A Visionary Approach to Detect Spoofing Website Using Machine Learning Algorithms .....	1458
<i>T. Kavitha, S. Hemalatha, R. Mounica, V. Niveda, Yasvant Kumar</i>	
Prediction of Brain Tumor Classification by Using CNN .....	1464
<i>Anitha Julian, B Naga Narendra, A Chiranjeevi, A V Charan Reddy</i>	
Automatic Video Summarization and Classification by CNN Model: Deep Learning .....	1469
<i>Surendra Reddy Vinta, Pavitar Parkash Singh, Ajoy Batta, N. Shilpa</i>	
101 Sequence Detector Using QCA Technology .....	1474
<i>Ritwik Mishra, Braj Kishan Singh, Himanshu Singh, Vijay Kumar Sharma</i>	
Graphene Based Rectangular Wideband Antenna for High Speed and Short Distance Wireless Applications.....	1479
<i>S Jagan Mohan Rao, N Suguna, R Saravanakumar, V L N Phani Ponnappalli, S Alamelu Alias Rajasree, Ch Murali Krishna</i>	
Brainy Bin for Metropolitan Cities Using Design Thinking Methodology .....	1485
<i>B. Vinodhini, T. V. Madura, M. Mohammed Sufaid, Pavatharani Shanmugamani, B. L. Pavithra</i>	
Improving Efficiency of Garbage Collection Vehicle for Smart Cities .....	1490
<i>Aviral Budhani, Amita Goel, Nidhi Sengar, Vasudha Bahl</i>	
Socializing Platform for Educational Institutions.....	1495
<i>Anitha Julian, K Sathishkumar, J Alen Wenish, R Kishore</i>	
Soft Attention Based Densenet for Severity Grading of Diabetic Macular Edema .....	1499
<i>V. Gayathri, C. Bala Subramanian</i>	
Analyze the Political Preference of a Common Man by Using Data Mining and Machine Learning .....	1504
<i>G. Gokulkumari, M. Ravichand, Pooja Nagpal, Renu Vij</i>	
Efficient Gesture-Based Presentation Controller Using Transfer Learning Algorithm .....	1509
<i>Shaik Faiz Ahamed, Pala Sandeep, Paraselli Tushar, S Srithar</i>	
Safe Trade – a Stock Recommender Using Machine Learning Algorithms .....	1514
<i>Anitha Julian, E Ganeshreddy, V R Dikshit Reddy, D V V Somasekhar</i>	
An Exploration of Evaluating the Performance of Malware Detection in the Cloud Environment.....	1521
<i>Charan Nivas Reddy Kaipu, Gopu Karthik, Konala Sree Umadevi, Koneru Kamal Koushik, T Pavan Kumar, S. Kavitha</i>	
An Image Based Classification and Prediction of Diseases on Cotton Leaves Using Deep Learning Techniques.....	1527
<i>T Kalpana, R Thamilselvan, T M Saravanan, M Pyingodi, S Nandhakumar, V Priyanka, M Sowndharya</i>	
Hybrid Ensembling of Machine Learning Models to Predict Cardiovascular Disease.....	1533
<i>S. Hemalatha, T. Kavitha, T. Renuga Devi, A. Rubavathi, R. Sri Ranjani</i>	

Hyperautomation-Beyond RPA: : Leveraging Automation to Transform the Manufacturing Industries .....	1539
<i>R. Kavitha</i>	
Music Recommendation Based on Facial Expressions and Mood Detection Using CNN .....	1544
<i>Ganne Vaishnavi, R. Sumathi, Karnatakam Anvitha, Dhathri Bathineed, Balabhadra Nikhitha, Kandreghula Vanaja</i>	
Analyses of Machine Learning Techniques for Sign Language to Text Conversion for Speech Impaired .....	1548
<i>Jalaparthi Ajay, R. Sumathi, K Arjun, B Durga Hemanth, K Nihal Saneen</i>	
Securing Cloud Identity Information Under Key Introduction.....	1553
<i>M Geetha Priya, V Kavitha.</i>	
Cyberbullying in Digital Era: History, Trends, Limitations, Recommended Solutions for Future.....	1558
<i>Meghna Manoj Nair, Terrance Frederick Fernandez, Amit Kumar Tyagi</i>	
Analysis and Prediction of Apple’s Iphone Sales and Factors Causing Downfall Using Deep Learning Techniques.....	1568
<i>Aparna Mohan, Rabindra Kumar Singh, Amit Kumar Tyagi</i>	
Classification of Foods Based on Ingredients .....	1578
<i>Sudipa Guria, Sudarshan Banerjee, Suddhasattwa Bhattacharjee, Swarup Paul, Sobhan Halder, Priyanka Das</i>	
Biometric Security in Internet of Things Based System Against Identity Theft Attacks.....	1584
<i>Gadiparthi Harika Sai, Amit Kumar Tyagi, N Sreenath</i>	
Analysis of Dynamic Scheduling for Edge Cloud Computing .....	1591
<i>Charan Sai Reddy Vanipenta, Sai Ram Bhukya, Trivikramarka Reddy Koppula, Chandra Shekar Nelavelli, T. Vignesh, Suneetha Bulla</i>	
An Approach for Cervical and Breast Cancer Classification Using Deep Learning: A Comprehensive Survey.....	1595
<i>G S Pradeep Ghantasala, Bui Thanh Hung, Prasun Chakrabarti</i>	
A Survey on Exploring the Effectiveness of IOT Based Home Security Systems .....	1601
<i>S. R Anupriya, V Muthumanikandan</i>	
Social Media News Classification Using Machine Learning Algorithms .....	1611
<i>M. Jagadeesan, T. M Saravanan, P. A. Selvaraj, S. Nithya, K. Snegha, P. Sowmiya</i>	
Animals Detection System in the Farm Area Using Iot.....	1616
<i>K. Chitra, A. Tamilarasi, M. Pyingkodi, K. Nanthini, V. Sneka, S. Swetha, P. Vishalini</i>	
An Overview on Development & Prospects of Geothermal Power Plant in India .....	1622
<i>Namra Joshi, Achala Khandelwal</i>	
Extensive Review on Predicting Heart Disease Using Machine Learning and Deep Learning Techniques.....	1626
<i>S. Hemalatha, T. Kavitha, K. Chitra, B. Babitha, N. Kaya, R. Keshika</i>	
An Effective Architecture for Image Colorization Using Adaptive GAN .....	1633
<i>Ravindhar N V, K Akshaya, Pokala Ramadevi, Madithati Yuvateja Reddy</i>	

Recognition and Classification of Image Based Coal and Coal Gangue Using Deep Learning Techniques.....	1638
<i>T Kalpana, R Thamilselvan, K Chitra, M Pyingkodi, B Dakshinya, N Rmanu, S Gokul</i>	
Conversion of ECG Signals and Heart Disease Detection Using Machine Learning Algorithm .....	1645
<i>T. Kavitha, S. Hemalatha, S Ashiq Mohamed, M Esakkiraja, J Kowshick</i>	
Forecasting the Solar Power with Differentiation of Data Figures Using Neural Networks .....	1650
<i>T. Kavitha, S. Hemalatha, R. V. Naveen Kumar, S. Sakthi Balan, V. Sharan</i>	
Malware Prediction and Classification for Android Applications Using Machine Learning Techniques.....	1657
<i>T Kalpana</i>	
Convolutional Neural Network for Multiclass Skin Cancer Image Classification .....	1664
<i>J Ramya, H C Vijaylakshmi, Huda Mirza Saifuddin</i>	
Analysis of Irregular Menstrual Cycle and Its Consequences .....	1668
<i>M Sneha, K Sai Sravani, S Nithya, Kaladevi R</i>	
ACMapping: Agricultural Crop Mapping/Retrieval Using Synthetic Aperture Radar (SAR) Data .....	1675
<i>N. Sravani, R. Mitravinda, P. Ramesh Kumar, N. Neelima, K L Sailaja</i>	
A Survey on Text Summarization in Urdu Language Using Machine Learning Techniques .....	1679
<i>Prathi Himaja, Guduru Anvitha, Syed Fasih Ahsan, Manikya Chowdary, T. Vignesh</i>	
A Survey on Spectrum Sensing Using Energy Detection for 4G Waveform.....	1685
<i>Amarjeet Pal Cheema, Arun Kumar, Ahalya Gonuguntla, P. Anudeep Kumar Reddy, Siddareddygar Gnapika, Uppaluru Naga Nanditha</i>	
Animal Detection for Farmlands Using Image Processing and IoT .....	1689
<i>Amarjeet Pal Cheema, Bhawana Khokher, Nikhil Jha, Nirmitt Verma, Nikitha, Rakshita</i>	
A Review: Secure and Efficient Data Aggregation in Wireless Sensor Networks Using the Internet of Things.....	1695
<i>A Mohammed Sirajudheen, D. Jasmine David</i>	
Portable Water Quality Detector.....	1702
<i>P. S. Manoharan, P. Dhanya, R. Sowmya, S. B. Sri Varuni, R. K. C. Jeykumar</i>	
Efficient Road Structural Design and Traffic Accident Analysis Using Supervised Learning Algorithms.....	1706
<i>Gonuguntla Hruthik, Ronanki Tharun, Seethala Chiranjivi Sai Vara Prasad, Siddhartha Shankar Swain, Srithar S, Aravinth S S</i>	
Design of Metamaterial Inspired Antenna Using Machine Learning and Optimization Techniques.....	1711
<i>R. Gowri Manohari, K. Kavitha, R. Arun</i>	
Intelligence Harmless Animal Avider in Agriculture Farm .....	1717
<i>P. Stephen Charles, S. Dharmalingam, M. Baskaran, P. S. Manoharan, G. R. Hemanth</i>	
Agroculture Web Application.....	1721
<i>M Sangeetha, A Sumithra, R Sneha, M Suganya Devi, J Vishnu Nivasini</i>	
Filtenna with Defected Ground Structure for 5G Application.....	1726
<i>Sai Haneesha Tanguturu, G. Soundarya, R. Kiruthika, N. Gunavathi</i>	

A Comparative Analysis Between Single & Dual-Handed Bangladeshi Sign Language Detection Using CNN Based Approach .....	1731
<i>Gourob Saha Surjo, Biplob Kumer Ghosh, Mohammad Jahangir Alam, Mahamudullah, Md Razib, Saurabh Bilgaiyan</i>	
Binary Bat Swarm Algorithm for Thinning Antenna Elements in Linear Array .....	1739
<i>Sahiti Vankayalapati, Kailash Kavala, Bhargav Prasanna Kumar Anna, G Mahender Reddy, P Lakshman, R Shekar</i>	
Interfacing Kera's Deep Learning Technique for Real-Time Age and Gender Prediction .....	1743
<i>Sahiti Vankayalapati, R Shekar, Y. Rupa Sindhu, M. Manvith Reddy, P. Sasidhar Reddy, Ali Baig Mohammad</i>	
Big Data Analytics and Machine Learning Techniques to Manage the Smart Grid .....	1749
<i>M. Elavarasi, Ramakrishna Kolikipogu, Mahesh Kotha, M. V. B. T. Santhi</i>	
Drug Consumption Detection by Eye Using Image Processing Techniques .....	1755
<i>M Pyingkodi, K Thenmozhi, N. R Wilfred Blessing, K Archana, X Arun Hiruthik, V Dinesh Kumar</i>	
Smart Manufacturing in Industries Using Internet of Things .....	1761
<i>Lakshmi Likhith Yadla, Raghavendra Avinash Mudragada, Harikrishna Poka, T. Vignesh</i>	
Asthma Disease Risk Prediction Using Machine Learning Techniques .....	1766
<i>Pyingkodi M, Thenmozhi K, Wilfred Blessing N R, Selvaraj P A, Kamdev Kumar, Aadarsh V, Mariya Arockiya Akash A</i>	
A Structured Analysis on IPL 2022 Matches by Approaching Various Data Visualization and Analytics .....	1772
<i>S Selva Birunda, P Nagaraj, B Jency A Jebamani, B Revathi, V Muneeswaran</i>	
Development of Text Characterization Using Natural Language Processing Techniques .....	1781
<i>P Nagaraj, V Muneeswaran, B Karthik Goud, G Vigneshwar Reddy, K Arjun, B Nagaraju</i>	
Parkinson's Disease Classification Using Machine Learning Techniques .....	1786
<i>K Meenakshi, D. Kishore</i>	
Automatic Shopping Cart Using RFID and NodeMCU .....	1791
<i>Jalalu Guntur, S. Srinivasulu Raju, M. Srikanth, N Surya Seshu Kumar</i>	
A Fork Shaped UWB Antenna with WLAN/Wi-MAX/ X Band Rejection Characteristics .....	1796
<i>D. Sreenivasa Rao, Shailendra Kumar Mishra, Jetti Chandrasekhar Rao, Mogadala Vinod Kumar, M. Vasuja Devi</i>	
Classification and Detection of Skin Cancer Using Deep Learning Methods .....	1800
<i>Chivukula Venkata Sanjana, S. Srinivasulu Raju, Munji Anusha, Boyapati Sivani</i>	
Hate Speech Analysis Using Supervised Machine Learning Techniques .....	1806
<i>M Pyingkodi, K Thenmozhi, K Chitra, M Karthikeyan, M Pradeep, Prakash T D Suriya, T J Viswanathan</i>	
Data Analytics for Phishing Attack Detection Using Deep Learning Techniques .....	1812
<i>M. Karthikeyan, S. Vijayachitra, M. Pyingkodi, T. Aadhis, P. Dhayananth, G. Goodwin</i>	
Information Extraction from Text Messages Using Natural Language Processing .....	1818
<i>Bapanapalli Harshitha Sai Durga, Kalakota Sai Sanjana, Yusuf Baig, Nerella Venkata Rama Tendulkar, Radha Mothukuri, T. Vignesh</i>	

Design and Implementation of Fuzzy Logic Controller for Boiler Temperature Control Using LabView .....	1824
<i>K Niharika, S. Srinivasulu Raju, Y Sujan, K. Sai Tarun, B. Teja</i>	
A Survey Paper on Weed Identification Using Deep Learning Techniques.....	1829
<i>U. Gayathri, V. Praveena</i>	
A Novel Approach for Monitoring Agricultural Production Process Using Wireless Sensor Networks and Machine Learning .....	1833
<i>Subhashree Rath, R Senthil Kumar, S B Nishanth, Aditya Arabale, K R Charanraj</i>	
Performance Evaluation of Transfer Learning Based Models on Skin Disease Classification.....	1839
<i>R. C. Suganthe, N. Shanthy, M. Geetha, R. Manjunath, S. Mithilesh Krishna, P. Muthu Balaji</i>	
Text Analysis on Twitter Data Using LSA and LDA.....	1846
<i>T. Karthik Venkat Sai, K. Lohith, M. Padma Sai, K. Tejaswi, P. M. Ashok Kumar, Karthikeyan C</i>	
Efficient Load Balancing for Micro Services Based Applications .....	1852
<i>A Javahar, R Ananth, K K Arun Ritthik, R Dharun</i>	
Design and Analyzing of Hexagon-Shaped Microstrip Patch Antenna for Biomedical Applications .....	1857
<i>S Elangovan, R Gokul Raj, M Vethaprasath, K Mahendran</i>	
Reconfigurable Hardware Implementation of CNN Architecture Using Zerobypass Multiplier.....	1862
<i>K Sakthi, D Abishek, M Arun Kumar</i>	
A Traffic Road Sign Recognition System Using Raspberry Pi with Open CV Libraries Based on Embedded Technologies.....	1867
<i>D Ajay Sriram, P Radhakrishnan, E Raja, M Praveen</i>	
Review on Cardiovascular Disease Prediction Using Machine Learning Algorithm .....	1873
<i>P V Adhishayaa, V Gomathi, K Mahendran</i>	
Efficiently Enhancing Energy by Means of LEACH Protocol for a Wireless Sensor Networks.....	1879
<i>Raji Pandurangan, T Jagadeeban, M Girish, K Tholkapian</i>	
Smart Solid Waste Collection for a Sustainable Smart City Using Arduino Uno.....	1886
<i>S Ramya, M V Hari Haran, G Dinesh Ram, T K Srinivasan, G Vishnuvardhan, P Sai Pavan, D Lingaraja</i>	
A Novel Framework on QoS in IoT Applications for Improvising Adaptability and Distributiveness .....	1891
<i>Cmm Mansoor, G Vishnupriya, A Anand, S Vijayakumar, G Kumaran, V Samuthira Pandi</i>	
Cross Site Scripting (XSS) Vulnerability Detection Using Machine Learning and Statistical Analysis.....	1897
<i>J Harish Kumar, J J Godwin Ponsam</i>	
A Novel Interference Mitigation Technique and Signal Strength Prediction in Future Wireless Communication .....	1906
<i>Helina Rajini Suresh, Beulah Jackson, K M Dhanalakshmi, A Anand, S Ramkumar, A Asha</i>	
Block Chain Based Identity Authentication System for a Wireless Sensor Networks.....	1911
<i>K Naresh Kumar Thapa, G Vishnupriya, G Manisha, Omar S Saleh, T Lakshmibai, G S Uthayakumar</i>	

Digital Filter Design on High Speed Communication with Low Power Criteria .....	1917
<i>R Rajalakshmi, G Vishnupriya, R Sudharsanan, S Navaneethan, P Vijayakumari, M V Karthikeyan</i>	
A Survey on Analyzing Social Media Data and the Data from Past for Emergency Management .....	1922
<i>I Gugan, N Karthikeyan, M S Kavitha, S Karthik</i>	
System for Real-Time Monitoring and Reporting of the Weather Based on the Internet of Things.....	1926
<i>K Sakthi, R Ashwin Kumar, V Chidambaram, K Gokul Saran</i>	
Virtual Mouse.....	1932
<i>Raji Pandurangan, P V Praharsa Reddy, P Sathvik Reddy, V Sai Gurukrishna</i>	
Product Recommendation System Using Deep Learning Based Recurrent Neural Network.....	1938
<i>S. Shanthi, K. Nirmaladevi, N. Mathiarasi, As. Krithika Tharani, A. Monisha, R. Kuppuchamy, N. Krishnamoorthy</i>	
Simulating Early Detection of Tumor Cells Using Electrochemical Treatment.....	1945
<i>Asad Hussain Lapakshi, Ankitha Chintalapalli, P. Geetha</i>	
Prediction of Crops Based on a Machine Learning Algorithm.....	1950
<i>Richa Kumari Karn, A. Suresh</i>	
Movie Recommendation System.....	1958
<i>Shivam Kumar Gupta, A. Suresh</i>	
Analysis of Performance, Scalability, Availability and Security in Different Cloud Environments for Cloud Computing.....	1965
<i>V Sandhiya, A. Suresh</i>	
Image Reflection Removal Using Iterative Boost Convolutional LSTM Network Through Feature Loss .....	1972
<i>Harshini Daggi, Chandana Chiluka, Mothe Deekshith Reddy, D Praveen Kumar</i>	
Unifrol - Versatile Online Campus Networking Platform for Students Using Social Media Architecture .....	1977
<i>Shivendra Pratap Singh, Dasu Siddharth, R. S. Prabakeran</i>	
Chatbot for Healthcare Using Machine Learning.....	1983
<i>R Kaladevi, S Saidineesha, P Keerthi Priya, K. M Nithiya, S Sai Gayatri</i>	
Machine Learning Based Intelligent Career Counselling Chatbot (ICCC) .....	1987
<i>Reema Goyal, Navneet Chaudhary, Mandeep Singh</i>	
A Review on Long Short Term Memory Based Stock Price Prediction Techniques .....	1995
<i>Kandlagunta Divyavalli, P Raghuraman</i>	
Big Data – Enhancement in Sports : Exploring the Impact of Technology Integration.....	2000
<i>S. Venugopal</i>	
Image Captioning Using Deep Learning Techniques for Partially Impaired People .....	2003
<i>Suganthe Ravi Chandaran, Shanthi Natesan, Geetha Muthusamy, Pravin Kumar Sivakumar, Prema Mohanraj, Richard Joyal Gnanaprakasam</i>	
Artificial Intelligence Application for Effective Customer Relationship Management.....	2009
<i>Mohammad Salameh Almahairah</i>	



Design of T and Y Micro-Channel Through Multi Physics COSMOL .....	2016
<i>B Saranya, V Abinaya, R Nirosha</i>	
Emotion Analysis of Tweets .....	2022
<i>D. Durga Prasad, Pardhu Guttula, Tangellapalli Sai Ramya Manasa, Vemulapalli Bavya Sri, Thote Prashanth, Pitani Niranjana Sai</i>	
Optical Imaging for Telephoto Applications Featuring a Lens Design Optimized for Thermal Compensation .....	2028
<i>T. S Srinivasan, Vivek Maik, Samiappan Dhanalakshmi</i>	
Design of Dielectric Coupled Line Resonator with Defector Ground Structure for Microwave Frequency with Double Band Pass Filter .....	2033
<i>B Ragavi, S Sharmila, J Dharani, K Deepthika</i>	
Reconfigurable Mimo Antenna for 5G Applications .....	2039
<i>Ganesh Naidu Marrapu, R. Kiruthika, G. Soundarya, N. Gunavathi</i>	
RFID-Enabled Wireless Printing Solution Using Raspberry Pi.....	2044
<i>Hanamant B. Sale, Asha Ghodake</i>	
Deep Learning Based Intelligent Alert System for Visually Impaired People.....	2048
<i>Krishna Dharavath, Veeramallu Tejaswi, E Sai Prasanna Kumar, Vennu Sai Pratham</i>	
Quadcopter Navigation Using Telemetry Data.....	2054
<i>M Varun, M Naveen Joel, M Naveen, J Vishnu Haran</i>	
Data Analytics to Reflect the Current Politics on Twitter by Using Machine Learning .....	2060
<i>Piyush Charan, N. Bindu Madhavi, Pavitar Parkash Singh, Amedapu Srinivas</i>	
Smart Autonomous Voice Control Obstacle Avoiding Robot .....	2064
<i>Ashok Reddy Kandula, Kalyanapu Srinivas, Sri Rama Krishna Datta Movva, Poojitha Pagolu, Sindhu Pasupuleti, Sai Charan Nancharla</i>	
A Medical Assisting System Using Augmented Reality for Critical Analysis .....	2070
<i>R Latha, M Rudhran, Reddy P Punyakotti, Raj R Rishanth</i>	
Analytical Review of Deep Neural Techniques for Breast Tumor Detection. ....	2075
<i>Katta Rajesh Babu, Samiraju Sai Bhanu Teja, Vanga Satvik Reddy, Kattamuri Mani Deep, Mallabattula N D R Ramesh, K Rambabu</i>	
Regulating and Monitoring IoT Controlled Solar Power Plant by ML .....	2082
<i>Ayasha Siddiqua, Afsana Anjum, Sunanda Kondapalli, Chamandeep Kaur</i>	
An Enhanced Yolo Based Traffic Analysis System .....	2086
<i>Marella Naga Chaitanya Sneha, Battula Greeshma, Valini Sunthwal, Thota Satya Veera Manikanta, Praveen Tumuluru, K. B. V. Brahma Rao</i>	
Distributed Inference Approach on Massive Datasets Using MapReduce .....	2093
<i>M. Priadarsini, M. K. Dharani</i>	
Continuous Digital System Analysis in Different System Softwares Using Keyloggers to Validate the Need of Security .....	2100
<i>Srikakulapu Bhavitha, Matta Chenna Rao, Pamarthi. Nancharaiah, S. Suhasini</i>	
Wireless Medical Sensor Network Based Healthcare Monitoring System in Narrow Band IoT.....	2107
<i>K Arunkumar, P Thavasvelan, A Deepak Kumar</i>	

Smart Library Using Arduino.....	2118
<i>Sravya Valivarthi, P. Sushma Chowdary, Lokesh Pallampati, Mubeen Mahammad, Sasidhar Reddy Buchi</i>	
Determining the Optimal Parameter for Wheat and Paddy Crops Using Smart Farming: An Investigation.....	2123
<i>R. P. Ram Kumar, Sanjeeva Polepaka, Syed Khasim Numaan, Manasa Kumari, Srigana Pulikantham, Mohith Peddineni</i>	
Fever Detection System Using Machine Learning Algorithm.....	2128
<i>K Subramanian, Krishnan B Navneeth, S Nushanth, R Kaladevi</i>	
An Investigation on CNN-Based Lung Cancer Prediction Method.....	2132
<i>R. P. Ram Kumar, Sanjeeva Polepaka, Dukkupati Likithasree, Sabbineni Keerthika</i>	
Maximising Efficiency of Network Resources in SDN Through Optimal Packet Routing Using Reinforcement Learning.....	2137
<i>Anush K Byakodi, Mohammad Zakee Hungund, Aman Khan N Athani, Khadar Wali B Afghan, Somashekar Patil, D. G. Narayan</i>	
Secure the Smart Grid by Machine Learning.....	2143
<i>Srinivas Kolli, M Hasan, Bramah Hazela, A. Azhagu Jaisudhan Pazhani</i>	
Assessment Based on IoT for Efficient Information Surveillance Regarding Harmful Strikes Upon Financial Collection.....	2147
<i>Jehan Kadhim Shareef Al-Safi, Atul Bansal, Mohd Aarif, Mohammad Salameh Almahairah, Geetha Manoharan, Firas Jamil Alotoum</i>	
An In-Depth Analysis of the Role that ML and Big Data Play in Driving Digital Marketing's Paradigm Shift.....	2152
<i>Mano Ashish Tripathi, Ravindra Tripathi, Femmy Effendy, Geetha Manoharan, M John Paul, Mohd Aarif</i>	
Galvanic Skin Conductance Response and Bio Inspired Algorithms for Human Emotion Classification: A Study.....	2158
<i>Soshya Joshi, L. N. B. Srinivas</i>	
An Elaborate Review of Diagnosing Glaucoma Disease Using Machine Learning and Deep Learning Techniques.....	2164
<i>R. Thamilselvan, P. Natesan, R. R. Rajalaxmi, S. Mohan, S. Muruganatham, R. Vanitha</i>	
Analyses of Face Mask Detection Using Deep Neural Network.....	2173
<i>Siddarthha Yelchuri, R. Sumathi, Krishna Murthi Vavilala, Krishna Sai Mahesh Vellampalli, K. Yashas</i>	
Movie Reviews Using Sentiment Analysis.....	2177
<i>P. Nagaraj, P. Anil Kumar, V. Chaitanya Babu, P. Yedukondalu, M. Yagna Sai, K. Muthamil Sudar</i>	
Movie Recommendation System Using Content Based Novel Feature Extraction Information.....	2183
<i>P Nagaraj, P Sumanth Kumar Reddy, Venkata Rao K, R Mohan, V Jaswanth, M Chethan Kumar, K. Muthamil Sudar</i>	
Youtube Comment Spam Detection.....	2190
<i>P Nagaraj, K. Muthamil Sudar, P Thrived, P Girish Kumar Reddy, Sk Baji Babu, P Siva Rama Krishna</i>	

Predicting User Click Behavior on Social Media Ads Using Machine Learning .....	2196
<i>Ashish Kumar, Divyanshu Kishan, Harshit Kandpal, Himanshu Saraswat, Jyotiraditya Singh</i>	
Automatic Extractive Text Summarization of Hindi Text Using Deep Learning Approach.....	2202
<i>Nandini Kapoor, Ayush Gupta, K. Meenakshi</i>	
Automatic Email Spam Classification Using Naïve Bayes .....	2210
<i>P Nagaraj, V Muneeswaran, G Shyam Sundar Reddy, V Bharath Kumar, B Madhan Mohan, Sriram Kumar</i>	
Automatic Correction of Text Using Probabilistic Error Approach.....	2215
<i>P Nagaraj, V Muneeswaran, Niamatullah Ghous, Mahtab Ahmad, Pavan Kumar, Vinayak</i>	
COVID 19 Post-Vaccination Adverse Effects Prediction with Supervised Machine Learning Models.....	2221
<i>Vaishali Ravindranath, Sarojini Balakrishnan</i>	
Automatic Egg Incubator Using IoT .....	2227
<i>K. Chitra, T. Kalpana, M. Hemalatha, S. Hari Vishnu, K. Kishore, S. Manoj</i>	
Covid-19 Detection Using CNN Model with CT Scan Images .....	2232
<i>Gadde Lohith Sai Akhilesh, Kollipara Lokesh, D. V. Pavan Manikanta Teja, Putta Jashwanth Sai, Praveen Tumuluru, S. Hrushikesava Raju</i>	
Artificial Special Visual Geometry Group-16(VGG) Learning Model for Analysing Accuracy and Precision of SARS-COV-2 Forecasting.....	2240
<i>Valaboju Shiva Kumar Chary, Bellamkonda Satya Sai Venkateswarlu, Saketh Vemuri, Venkata Naga Sai Suraj Pasupuleti, Vijaya Babu Burra, Praveen Tumuluru</i>	
Design and Implementation of IoT-Based Programmable Assistive Intelligent Adaptive Pillbox .....	2245
<i>N. Bharathiraja, S. Hariprasad, M. Sakthivel, T. Deepa</i>	
Analysis of Cloud Computing Security Challenges and Threats for Resolving Data Breach Issues.....	2251
<i>Manmeet Kaur, Athira B Kaimal</i>	
Web Information Retrieval Using Vector Space Model and Docu-Tally Metric .....	2257
<i>Nitish Chaturvedi, Eshanika Ray, K Meenakshi</i>	
An Insight on IoT Architecture and Its Applications .....	2261
<i>Sanjeeva Polepaka, R. P. Ram Kumar, S. D. Nandakumar, R. Sureshkumar, V. Vivekanandhan</i>	
Blockchain Assisted Cloud Storage for Electronic Health Records .....	2267
<i>E V Sandeepkumar, A. Suresh</i>	
Exploring Various Aspects in Diagnosing Autism Spectrum Disorder (ASD).....	2273
<i>K. Gayatri, Ch. Lohind Sai Durga, N. Kundana Sri Bhanu, T. Poorna Sai Neelesh, Praveen Tumuluru, S Srithar</i>	
Energy Efficient Smart Street Light System Based on Pulse Width Modulation and Arduino .....	2278
<i>Venkata Pullarao Matta, Ravi Sankar Miriyala, K V S H Gayatri Sarman, K V Subba Reddy M, M V Pathi A, Ch Venkateswara Rao</i>	
Detection of Leaf Diseases in Modern Agriculture Using Deep Learning Techniques .....	2283
<i>P. Manogyna Sai, V. Sushmasri, V. Hima Sailu, U. Pradeepthi, M. Kavitha, S. Kavitha</i>	

Comparative Analysis for Prediction and Classification of Mental Health Issues and Challenges Using Hybrid Learning Techniques.....	2289
<i>P Nagaraj, M Arun Kumar, E Sudheer Kumar, S Ishwarya Lakshmi, R Aishwarya, M Neyashree</i>	
IoT-Based Intelligent Modeling of Security Monitoring System for Human Safety .....	2296
<i>Bhawana Khokher, M Dhivya, Devarasi Swetha, D Anila, Abhijit G Naik, S Shwetha</i>	
Squad Help – an Emotion Based Music Player .....	2301
<i>D K Chandrasekaran, S. Meera, R. Sharmika Sree, N Sathish, K Balakrishnan</i>	
Hybrid Hierarchical Fuzzy Inference System to Improve Network Lifetime of WBANs for Health Monitoring.....	2305
<i>Subba Reddy Chavva, A. Vijayaraj, E Venkata Pavan Kumar, R Ganesh Kumar, Sure Teja</i>	
Soldier’s Position Tracking & Health Monitoring Optimization Model Using Biosensors.....	2311
<i>S. Nirmala Sugirtha Rajini, M. R. M Veeramanickam, K. Anuradha, Raja Marappan, T. Kirubadevi, N. Bharathiraja, T. Chandrakala, S. Bhaskaran</i>	
Speech Emotion Recognition Using Deep Learning .....	2315
<i>Kartikeya Srinivas Chintalapudi, Irfan Ali Khan Patan, Harsha Vardhan Sontineni, Venkata Saroj Kushwanth Muvvala, Suryakanth V Gangashetty, Akhilesh Kumar Dubey</i>	
Effective Approaches of E-Commerce Product Recommendations .....	2320
<i>M Lokesh N S P S Sai, G Vyshnavi, B Sai Sree, R Sai Saran Tej, Vijay Kumar Burugari, Naresh Vurukonda</i>	
Mobile Charging System Based on Coin Detection .....	2327
<i>A. Vijayaraj, Eluri Venkata Pavan Kumar, Tunuguntla Gokul Akash, Kaza Venkata Siva Yaswanth, Sure Teja, Subba Reddy Chavva</i>	
New Recommender System for Online Courses Using Knowledge Graph Modeling .....	2332
<i>S. Bhaskaran, N. Bharathiraja, K Pradeepa, M Vinoth Kumar, N V Ravindhar, Raja Marappan</i>	
Multi-Plant and Multi-Crop Leaf Disease Detection and Classification Using Deep Neural Networks, Machine Learning, Image Processing with Precision Agriculture - A Review .....	2338
<i>Yogesh H. Bhosale, Shrinivas R. Zanwar, Syed S. Ali, Nagesh S. Vaidya, Rajesh A Auti, Deepakkumar H. Patil</i>	
Design and Optimization of Microchannel for Neonatal.....	2345
<i>T. Archana, I Karunya, R Krithika, V Subiksha</i>	
Detection and Segmentation of Retinopathy Diseases Using EAD-Net with Fundus Images .....	2349
<i>G. Sivapriya, V. Praveen, S. Saranya, R. Surya, S. Sweetha</i>	
A Review on Infectious and Cardiovascular Disease Classification Using Deep Learning .....	2356
<i>A. Sivasangari, G. V. Sai Kanth, Ch. Sai Deekshith, G. Manohar, B. Arun Kumar, K. Vasavi</i>	
A Survey on Deep Learning Based Video Surveillance Framework .....	2361
<i>L Abdul Saleem, E Venkateswara Reddy</i>	
Predictive Analytics Based Modeling of the Purchase Intention of Electric Vehicles, and Understanding the Drivers and Risks in Their Adoption for the People of Tamil Nadu in India .....	2367
<i>Gaurav Nagpal, Ankita Nagpal, Naga Vamsi Krishna Jasti</i>	

Blockchain Based Crowd Funding .....	2372
<i>R Naveenkumaran, S K Geetha, Kaushik Selvaraju, C Kishore, A Nagha Rathish</i>	
An Overview of Low-Power VLSI Design Methods for CMOS and CNTFET-Based Circuits.....	2380
<i>A Karthik, Narsaiah Domala, G Sunil Kumar</i>	
Novel, Clock Gating Broadcasting Applications for Low-Power FPGA Architectures .....	2384
<i>Tata Jagannadha Swamy, Pranav Kumar</i>	
Event Data Recorder and Transmitter for Vehicular Mishap Analysis Based on Sensor.....	2389
<i>Kumar. P Shiva, S Muruganantham.</i>	
Stacked Bidirectional-LSTM Network for FakeNews Detection on Twitter Data .....	2395
<i>Paladugula Dineshbabu, M. D. V. Sampath Kumar, Boyina Vishnu Vardhan Rao, Taneem Kowsar Shaik, P. M. Ashok Kumar, R. Shankar</i>	
Mid-Air Gesture Based Multi-Finger Control System for Paralyzed Patients Using Leap Motion .....	2400
<i>K Sneha, R Kayalvizhi</i>	
Healing and Preventing Trees from Beetles Usingpesticides .....	2406
<i>G Pradeepkumar, M Prabu, Manimuthu Ayyannan, V G Pratheep, S Revathi, Neelam Sanjeev Kumar</i>	
Incorporating of Security Methods into the Software Development Lifecycle Process (SDLC) .....	2411
<i>Vakkalagadda Aishwarya, Saivishal Pediredla, Batchu Radhika, Bhumula Vasanthi, K Padmanaban, A. K Velmurugan</i>	
Methodical Tamil Character Recognition Using Fabricated CNN Model.....	2415
<i>M Bhavani, S Ravikumar, S. Prithi, Y Arockia Raj, Babu Rajendiran</i>	
Vehicle Detection and Classification Using Deep Learning for Hazy Images .....	2421
<i>Krishna Dharavath, Mudigonda Ananya, B. Shashi Kanth, V. Vivek</i>	
Applicable Techniques for Image Steganography: A Survey .....	2427
<i>Ambika, Virupakshappa</i>	
Driver State Monitoring System Using AI .....	2434
<i>N Saranya, V Priyanka, T Harini, B Akhila, M A Hemalatha, R S Kaneshka Sre</i>	
Prediction of Liver Disease Using Statistical Machine Learning Methods .....	2440
<i>S Manoj Kumar, V. Anbu, S. K Abishek, N Jeevanantham, H Ashwin Kumar</i>	
Smart Irrigation System for Coimbatore District .....	2446
<i>S Manoj Kumar, E Keerthivasan, M Praveen, R Kiruba Sankar</i>	
Machine Learning Based Plant Disease Detection Using Convolutional Neural Networks.....	2452
<i>Ch. Siva Gopi, Ch. V. S. Chakravarthi, K. Bhuvanesh, D. Mohan Rajesh, Mohammed Ali Hussain, Dr. M. Kameswara Rao</i>	
Crowdsourcing Framework for Agricultural Powered by Ai.....	2458
<i>S K Geetha, K Hariharan, A Gokul, B Boopathiraj, M Aneeshkumar</i>	
Solar PV Fed Modular Multilevel Inverter with Fuzzy Logic Control for Marine Water Pumping Applications.....	2463
<i>R Sindhuja, Kadipaku Chanduja Reddy, Gummalla Shamitha Reddy, Gurvindapalli Uday Kumar, Nalugurivaishnavi Divya, Illuri Prem Kumar</i>	

The Comparative Study of CNN Models for Breast Histopathological Image Classification.....	2469
<i>R K Chandana Mani, J Kamalakannan</i>	
A Hierarchical Waste Segregation Using Smart Dustbin.....	2474
<i>K. Sony, K. Neeharika, K. Jahna Pravallika, M. Ajay Kiran, T. Akhil</i>	
Software Defined Network Framework & Routing Protocol Based on VANET Technology .....	2482
<i>Pamidimukkala Lahari, Ravella Srilatha, Omkar Eswar Chejarla, Ravuri Yogesh, R Shankar, P M Ashok Kumar</i>	
Comparative Study of Linear Precoding Techniques .....	2487
<i>Kaviya, G. Geetha</i>	
Electronic Health Records & Data Management Using Hyperledger Fabric in Blockchain .....	2490
<i>V Pooja, K Vijay, V Raghavi, B Bhuvaneshwaran, Eashaan Manohar</i>	
Obtrusion Unmasking of Machine Learning-Based Analysis of Imbalanced Network Traffic .....	2494
<i>C. Siva Kumar, Himasree Kolla, B. Sravya, Donthamsetty Lahya Sri, Grandhim Nikitha</i>	
Hybrid BILSTM Network for Improving Crop Pest Classification .....	2498
<i>S. Pournima, C. Priyatharsini, G. Kirubasri, J Manikandan</i>	
Facial Emotion Recognition for Students Using Machine Learning .....	2503
<i>V Pandimurugan, Angad Singh, Akash Tiwari</i>	
Artificial Intelligence for IoT-Based Healthcare System.....	2507
<i>M Vara Siddardha Reddy, R Sai Prasad, R Sai Jagan, M. Selvi</i>	
Empirical Study of Human Facial Emotion Recognition: A Deep Learning.....	2512
<i>Sivakumar Depuru, S. Sivanantham, K Amala, V. Akshaya, M. Sakthivel, P. Sai Kusuma</i>	
A Hybrid Model Approach for Stock Market Price Prediction.....	2518
<i>P Dhanalakshmi, Samanu Dhanasekhar Reddy, Penugonda Balaji, Narre Diwakar, Sulake Vinay</i>	
Multi-Object Detection and Tracking Using Machine Learning .....	2522
<i>Ayush Sahay, Keerti Vardhan Singh, Godwin Ponsam</i>	
An Improvised Machine Learning Model KNN for Malware Detection and Classification .....	2532
<i>M. Raj Shekhar Rao, Deepanshu Yadav, V. Anbarasu</i>	
Factors Affecting Gaming Engines: Analytical Study .....	2536
<i>Mayank Tyagi, Reshu Agarwal, Amrita Rai</i>	
Predicting Flight Delay Based on Sentimental Analysis: Machine Learning .....	2545
<i>Shaik Salam, Shaik Mohammad Sohail, Kommireddy Dinesh Reddy, Vonka Darvesh, Thothireddy Yogiswar Reddy, Oruganti Govinda Rao</i>	
Forecasting Temperature and Rainfall for Crop Cultivation with Classification of Ground Water Level.....	2549
<i>R. Thamilselvan, E. Gothai, M. K. Dharani, B. Aravinthan, S. Dharaneeshwaran, D. Jayasuriyaa</i>	
Empirical Analysis on Crime Prediction Using Machine Learning.....	2558
<i>R. Sathish Kumar, N. P. Saravanan, K. Nirmala Devi, P. Jayanthi, N. Krishnamoorthy, S. Karthi</i>	

Traffic Sign Detection Using Hybrid Network of Yolo and Resnet.....	2563
<i>S. Vinothkumar, S. Varadhaganapathy, R. Shanthakumari, S. Pradeev, S. Pragatheeswaran, K. Sankara Annamalai</i>	
Hand Written Text Recognition and Global Translation.....	2570
<i>K Vijay, A Mukundh, S Pooja, T Nithesh Aravind, R Manoj Adhithya</i>	
Attempting to Perform Assessment for Plant Breeding Using Scored Entropy-Based Choice Hierarchies.....	2575
<i>N Karthikeyan, T Lekhaa, N Ramyadevi</i>	
A New Fault Tolerant Five-Level Multilevel Inverter for Critical Loads.....	2581
<i>B. Hemanth Kumar, Vinod Bakka, B. Suresh, V S Chandrikax, K. Janardhan, R. Seshu Kumar</i>	
Age Group Determination Using Logistic Regression Through a Biometric Approach .....	2586
<i>D. Nagajyothi, Srinithya Gunti, Shivani Ganti, Radam Kushaal</i>	
Performance Investigation of Resonant Converter with and Without Controller .....	2591
<i>N. Madhanakkumar, Arulkumar Subramanian, M. Vijayaragavan, V. Sriramkumar</i>	
Constancy Investigation of Fuzzy Controller Over Proportional Integral Controller for Resonant Converter.....	2597
<i>N. Madhanakkumar, Arulkumar Subramanian, M. Vijayaragavan, V. Sriramkumar</i>	
Monitoring and Accelerating Plant Growth Using IoT and Hydroponics .....	2602
<i>Abhishek Kumar, P Savaridassan</i>	
Stock Price Trend Analysis and Prediction of Closing Price Using LSTM.....	2608
<i>Sparsh Vohra, P Savaridassan.</i>	
Advance IOT Based Air Pollution Detection and Control System in Vehicles.....	2613
<i>Ishita Deb, Swati Nigam, V Shruthi, Kn Vinay Kumar, S Krishna Chaithanya, B Varshitha</i>	
Sensor Based Sewage Segmentation .....	2616
<i>Ishita Deb, A Swathi, G H Nayana, Bandaru Kusuma Sagar, Ashritha Challa, Md Afsar</i>	
A Systematic Technique Used for Portable Telemedicine System .....	2620
<i>Monika Gupta, Swati Nigam, Yathika Evangelin, P Sumyukthaa, Rakshitha L</i>	
Comparative Study to Determine Accuracy for Weather Prediction Using Machine Learning.....	2625
<i>Swati Nigam, Monika Gupta, Akshaya Shrinivasan, Araveti Venkata Sai Uttej, Chaitra Kumari, P B Disha</i>	
Smart Use of Solar Radiation in Agriculture Purpose .....	2629
<i>Monika Gupta, Nr Nithin Kumar, Maheshwar Reddy, M Rajasekhar, Manika Sai Kiran, M. B. Rohith Reddy</i>	
Review Paper on Facial Recognition Techniques.....	2637
<i>Sujith Krishna Mulpuri, K. Naga Lakshmi Neelima, Damisetty Gayathri Lakshmi, Thati Anuradha, Geethika Gudapati, Suneetha Bulla</i>	
Design and Development of Microstrip Patch Antenna for 5g Application .....	2641
<i>Josheena Gnanathickam, Gajula Thanusha, Nesasudha Moses</i>	

## Author Index