

2024 8th International Conference on Inventive Systems and Control (ICISC 2024)

**Coimbatore, India
29-30 July 2024**



**IEEE Catalog Number: CFP24J06-POD
ISBN: 979-8-3503-8658-5**

**Copyright © 2024 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:	CFP24J06-POD
ISBN (Print-On-Demand):	979-8-3503-8658-5
ISBN (Online):	979-8-3503-8657-8

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

CURRAN ASSOCIATES INC.
proceedings
.com

2024 8th International Conference on Inventive Systems and Control (ICISC) **ICISC 2024**

Table of Contents

Preface	xx
Message from Conference Chairs	xxi
Program Committee	xxii

2024 8th International Conference on Inventive Systems and Control

Deep Learning for Skin Disease Detection	1
<i>Prabhakara Rao Kapula (B V Raju Institute of Technology, India), Srishma Tunki (B V Raju Institute of Technology, India), Sathwik Thoutireddy (B V Raju Institute of Technology, India), Alapati Teja Satya Sai (B V Raju Institute of Technology, India), Tejaswini Sopirala (B V Raju Institute of Technology, India), and Gowtham Vedantham (B V Raju Institute of Technology, India)</i>	
Advances in Machine Learning for Alzheimer's Disease Diagnosis: A Comprehensive Overview and Comparative Analysis	7
<i>Pathan Mz Saida Khanam (Koneru Lakshmaiah Education Foundation, India) and Sathish Kumar Kannaiiah (Koneru Lakshmaiah Education Foundation, India)</i>	
Design and Analysis for Advancements in Brain Tumor Detection Model by using Machine Learning Techniques	13
<i>Ashwini Gulhane (Koneru Lakshmaiah Education Foundation, India) and Velmurugan A K (Koneru Lakshmaiah Education Foundation, India)</i>	
An Exploration of Edge Computing: Emergence, Evolution, Challenges, Approaches	19
<i>Nalajala Tirupatamma (Science and Engineering, Koneru Lakshmaiah Education Foundation, India), Nimmagadda Anjali (Koneru Lakshmaiah Education Foundation, India), Vempati Prabhu Mahitha Keerthi (Koneru Lakshmaiah Education Foundation, India), Himavanth Swamy Atchi (Koneru Lakshmaiah Education Foundation, India), and Sammy F (Koneru Lakshmaiah Education Foundation, India)</i>	
A Comprehensive Study on Multi-Factor Crop Yield Prediction	27
<i>Paruchuri Saiteja (Koneru Lakshmaiah Education Foundation, India), Potla Likith Sai (Koneru Lakshmaiah Education Foundation, India), Goli Leela Venkata Sai Krishna (Koneru Lakshmaiah Education Foundation, India), Yalavarthi Siddhardha (Koneru Lakshmaiah Education Foundation, India), and Iwin Thanakumar Joseph (Koneru Lakshmaiah Education Foundation, India)</i>	

Performance Analysis of Classifiers in Predicting Car Insurance Claim	33
<i>Spoorthi Bhoji (Vellore Institute of Technology, India), Trilok Nath Pandey (Vellore Institute of Technology, India), Bibhuti Bhusan Dash (KIIT Deemed to be University, India), Rabinarayan Satpathy (Sri Sri University, India), Utpal Chandra De (KIIT Deemed to be University, India), and Sudhansu Shekhar Patra (KIIT Deemed to be University, India)</i>	
Machine Learning Approaches for Diabetes Prediction: Comparative Analysis and Pre-Processing Insights	39
<i>Venkata Kishan Rao P (Lovely Professional University, India), Aarti Aarti (Lovely Professional University, India), and Suresh Rao A (TKR College of Engineering and Technology, India)</i>	
Electric Vehicle Charging Demand Prediction using Machine Learning Algorithms	47
<i>Sai Hitesh K N B (SRM Institute of Science and Technology, India), Saran Teja P (SRM Institute of Science and Technology, India), and Ram Kumar J (SRM Institute of Science and Technology, India)</i>	
Predictive Modelling of Rice Blast Disease Utilizing Ensemble Voting Classifiers in Machine Learning	55
<i>Revathi A (Vel's Institute of Science, Technology and Advanced Studies (VISTAS), India) and Poonguzhali S (Vel's Institute of Science, Technology and Advanced Studies (VISTAS), India)</i>	
Revolutionizing Hearing Health: Mobile-Based Audiometry Assessment Enhanced by Machine Learning Integration	60
<i>Kanimozhi P (IFET College of Engineering, India), Ananth Kumar T (IFET College of Engineering, India), Christo Ananth (Samarkand State University, Uzbekistan), JebaSanthiya P (Holycross Engineering College, India), Mohamed Inamul Hussain (IFET College of Engineering, India), and Preethi E (Holycross Engineering College, India)</i>	
Malware Detection for Android Systems using Deep Learning	67
<i>Renugadevi R (Department of Computer Science & Engineering Vignan's Foundation for Science Technology and Research (Deemed to be University) , India), Sajida Sultana SK (Department of Computer Science & Engineering Vignan's Foundation for Science Technology and Research (Deemed to be University) , India), Anusha Kakumanu (Department of Computer Science & Engineering Vignan's Foundation for Science Technology and Research (Deemed to be University) , India), Pavan Manohar S (Department of Computer Science & Engineering Vignan's Foundation for Science Technology and Research (Deemed to be University) , India), Sudha Rani P (Department of Computer Science & Engineering Vignan's Foundation for Science Technology and Research (Deemed to be University) , India), and Bala Yaswanth G (Department of Computer Science & Engineering Vignan's Foundation for Science Technology and Research (Deemed to be University) , India)</i>	
Product Price Prediction using Ensemble Learning Techniques	73
<i>Bhanu Prakash V (VFSTR, India), Sahil Sahil (VFSTR, India), Harika Rayi (VFSTR, India), Narendra Reddy P (VFSTR, India), and Bhargavi Maridu (VFSTR, India)</i>	
Credit Card Fraud Detection	79
<i>Alok Kumar (Vignan University, India), Marella Venkata Poojitha (Vignan University, India), Turlapati Anuhya (Vignan University, India), Katuri Srinivas (Vignan University, India), and Maridu Bhargavi (Vignan University, India)</i>	

Progressive Learning Framework for Speech Enhancement using Multi-Scale Convolution and S-TCN	83
<i>Veeraswamy Parisae (Acharya Nagarjuna University, India), Nagakishore Bhavanam S (Mangalayatan University Jabalpur (MUJ), India), and Vasuja Devi M (Mangalayatan University Jabalpur (MUJ), India)</i>	
Navigating Car Price Predictions: Unveiling Machine Learning Insights	90
<i>Himaja CH (Vignan University, India), Jayasri N (Vignan University, India), Pratheek S (Vignan University, India), Sameer S K (Vignan University, India), and Bhargavi M (Vignan University, India)</i>	
Cloud-Powered Mobility: A Seamless Integration Approach for Mobile Apps	95
<i>Satwik P V S (Koneru Lakshmaiah Education Foundation, India), Sai Jeevan Reddy T (Koneru Lakshmaiah Education Foundation, India), Sai Prabhas B (Koneru Lakshmaiah Education Foundation, India), Vijay Kumar Burugari (Koneru Lakshmaiah Education Foundation, India), and Sridhar P S V S (Koneru Lakshmaiah Education Foundation, India)</i>	
FO-RS-3TM: A High-Performance Ensemble Model for Heart Disease Prediction with Feature Selection and Hyperparameter Tuning	99
<i>Aruna M (Kalasalingam Academy of Research and Education, India) and Baby Shalini V (Kalasalingam Academy of Research and Education, India)</i>	
A Review on Crop Yield Prediction using Deep Learning	106
<i>Sheily Verma Panwar (Cyber security CUC-Ulster University, Qatar) and Shubham Singh (Era Smith Technology Noida, India)</i>	
An Analysis on Emotional Responses and Emerging Patterns on Twitter	112
<i>Anugallu Sai Vivek Reddy (Koneru Lakshmaiah Education Foundation, India), Madala Navadeep (Koneru Lakshmaiah Education Foundation, India), Sagineedu Muralidhar (Koneru Lakshmaiah Education Foundation, India), Daganani Akhil Dutt (Koneru Lakshmaiah Education Foundation, India), and Vijaya Babu Burra (Koneru Lakshmaiah Education Foundation, India)</i>	
Career Prediction using Machine Learning	118
<i>Kundan Jha (Vignan's foundation for science, technology and research, India), Likhitha D (Vignan's foundation for science, technology and research, India), Siri Chandana M (Vignan's foundation for science, technology and research, India), Ram Prakash Reddy M (Vignan's foundation for science, technology and research, India), and Maridu Bhargavi (Vignan's foundation for science, technology and research, India)</i>	
Greenguard: CNN-based system for Intelligent Plant Disease Classification	123
<i>Sajida Sultana. Sk (Dept of CSE ,Vignan's Foundation for Science, Technology & Research Vadlamudi, Guntur,AP,India), Syed Shareefunnisa (Dept of CSE, Vignan's Foundation for Science, Technology & Research Vadlamudi,Guntur,AP, India), Verella Sai Spandana (Dept of CSE, Vignan's Foundation for Science, Technology & Research Vadlamudi, ,Guntur,AP, India), Annapureddy Shiva Bhargavi (Dept of CSE Vignan's Foundation for Science, Technology & Research, Vadlamudi, Guntur ,AP,India), Gunji Sailaja (Dept of CSE Vignan's Foundation for Science, Technology & Research, Vadlamudi, ,Guntur,AP India), and Chamakura Rechal Reddy (Dept of CSE Vignan's Foundation for Science, Technology & Research, Vadlamudi, ,Guntur,AP India)</i>	

Artificial Intelligence Based System to Prevent Animal Accidents in the Railway Tracks	128
<i>Balaji Kannan (Vel's Institute of Science Technology and Advanced Studies(VISTAS), India), R.Bagavathi Lakshmi (Vel's Institute of Science Technology and Advanced Studies(VISTAS), India), M. Sakthivanitha (Vel's Institute of Science Technology and Advanced Studies(VISTAS), India), and R. Maruthi (Hindustan Institute of Technology and Science, India)</i>	
Smart Pendant for Disease Diagnosis and Monitoring	132
<i>Anita Dombale (Vishwakarma Institute of Technology, India), Shreyash Nikam (Vishwakarma Institute of Technology, India), Shivaraj Shinde (Vishwakarma Institute of Technology, India), Rohan Shinde (Vishwakarma Institute of Technology, India), Siddhant Shinde (Vishwakarma Institute of Technology, India), and Shreya Navale (Vishwakarma Institute of Technology, India)</i>	
A Hybrid Model for Music Recommendation Based on Facial Emotion Recognition	138
<i>Uuhasri Madala (VFSTR Deemed to be University, India), Soumya Puvvada (VFSTR Deemed to be University, India), Krishna Praneetha Lingamarla (VFSTR Deemed to be University, India), Jaya Sri Annam (VFSTR Deemed to be University, India), Sourav Mondal (VFSTR Deemed to be University, India), and Debnarayan Khatua (VFSTR Deemed to be University, India)</i>	
Security Measures in Cloud-Driven Home Automation Systems	145
<i>Dondapati Manoj Krishna (Koneru Lakshmaiah Education Foundation, Andhra Pradesh), Medasani Veda Pranay (Koneru Lakshmaiah Education Foundation, Andhra Pradesh), and Shaik Khaja Mohiddin (Koneru Lakshmaiah Education Foundation, Andhra Pradesh)</i>	
Securing the Cloud: A Comprehensive Analysis of Emerging Threats and Defense Strategies ..	151
<i>Nalam Lakshmi Durga Chaitanya (Koneru Lakshmaiah Education Foundation, India), Kattakota SriLakshmi (Koneru Lakshmaiah Education Foundation, India), Katika Abdul (Koneru Lakshmaiah Education Foundation, India), Shaik Mohammed Ibrahim (Koneru Lakshmaiah Education Foundation, India), and Sammy F (Koneru Lakshmaiah Education Foundation, India)</i>	
Real Time Stock Inventory Management System	156
<i>Steve Caleb Roosevelt (Division of Computer Science and Engineering Karunya Institute of Technology and Sciences, India), Ebenezer Veemmaraj (Division of Data Science and Cyber Security Karunya Institute of Technology and Sciences, India), and Stewart Kirubakaran (Division of Computer Science and Engineering Karunya Institute of Technology and Sciences, India)</i>	
Predictive Modeling for Cardiovascular Health: Unveiling Insights, Enhancing Interpretability, and Charting Future Trajectories	163
<i>Katakam Naga Venkata Anjani Siva Sri Lasya (Koneru Lakshmaiah Education Foundation, India), Peram Meghana (Koneru Lakshmaiah Education Foundation, India), Kota Pranathi (Koneru Lakshmaiah Education Foundation, India), Gontla Venkata Iswarya (Koneru Lakshmaiah Education Foundation, India), A.K. Velmurugan (Koneru Lakshmaiah Education Foundation, India), and A.Dinesh Kumar (Koneru Lakshmaiah Education Foundation, India)</i>	

Cyber Sentinel: Intelligent Phishing URL Identification System Employing Machine Learning Methods	168
<i>Krishnaiahgari Karthik Reddy (Karunya Institute of technology and sciences, India), G. Jasper W Kathrine (Karunya Institute of technology and sciences, India), and Dasari Kishan Kumar (Karunya Institute of technology and sciences, India)</i>	
Prediction of Food Ingredient Pairings using Siamese Neural Networks	174
<i>Jahnvi Naga Sai Sighakolli (Department of CSE VFSTR (Deemed to be University), India), Viswanath Vangipurapu (Department of CSE VFSTR (Deemed to be University), India), Jai Rama Srinivas Nadella (Department of CSE VFSTR (Deemed to be University), India), Yashwanth Vennapu (Department of CSE VFSTR (Deemed to be University), India), Deva Kumar S (Department of CSE VFSTR (Deemed to be University), India), and Venkatarama Phani Kumar S (Department of CSE VFSTR (Deemed to be University), India)</i>	
Deep Learning for Skin Cancer Classification: Leveraging Feature Extraction and Transfer Learning Strategies	181
<i>Maridu Bhargavi (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Syed Shareefunnisa (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Sajida Sultana Sk (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Renugadevi R (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Talari Niteesh Varshan (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), and Kamisetty Ramanjaneyulu (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India)</i>	
An Extensive Analysis of CNN Models for Plant Disease Recognition and Recommendations ..	189
<i>Naveenya B P (Kongu Engineering College, India) and Premalatha J (Kongu Engineering College, India)</i>	
A Comprehensive Food Identification and Waste Reduction Solution with Built-in Nutritional Tracking using Machine Learning	195
<i>J Jonathan (Computer Science Engineering, Karunya Institute of Technology and Sciences, India), Ruth Moly Benjamin (Division of Artificial Intelligence and Machine Learning Karunya Institute of Technology and Sciences, India), and Gunji Prem Prasad (Division of Computer Science and Engineering Karunya Institute of Technology and Sciences, India)</i>	
Deep Fake Detection using Adversarial Ensemble Techniques	201
<i>B.V. Chowdary (Vignan Institute of Technology and Science(A), Hyderabad), Marry Prabhakar (Vignan Institute of Technology and Science(A), Hyderabad), Mavoori Akhil (Vignan Institute of Technology and Science(A), Hyderabad), Komirishetty Pavan (Vignan Institute of Technology and Science(A), Hyderabad), and B. Pavana Teja Reddy (Vignan Institute of Technology and Science(A), Hyderabad)</i>	
Predicting Hate Words and Offensive Language: A Machine Learning Approach	205
<i>Sugandhi K (Vignan University, India), R. Uday Kumar Reddy (Vignan University, India), K. Ravi Kiran Reddy (Vignan University, India), and B. Balla Reddy (Vignan University, India)</i>	

Imputation and Clustering of Incomplete Data using K-Nearest Neighbors and DBSCAN	211
<i>Siva Ramakrishna Sani (Lakireddy Balireddy College of Engineering, India), Jaswanth Chowdary Myneni (Lakireddy Balireddy College of Engineering, India), Nitin Sai Ginjupalli (Lakireddy Balireddy College of Engineering, India), Shaik Mohammad Kaif (Lakireddy Balireddy College of Engineering, India), and Sameer Mohammad (Lakireddy Balireddy College of Engineering, India)</i>	
Improving Customer Churn Prediction Accuracy: a SMOTE-Based Approach	215
<i>Ambavarapu Harshini (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Nallagorla Naga Sai Ramya (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Bathula Sai Teja (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Chandra Sandeep (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), and Syed Shareefunnisa (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India)</i>	
Integrating Multiple Recommendation Techniques for Enhanced Anime Discovery	223
<i>Sai Pranathi Vaddineni (VFSTR Deemed to be University, India), Uday Karthik Pillarisetty (VFSTR Deemed to be University, India), Kalyan Ram (VFSTR Deemed to be University, India), Yaswanth Rayapati (VFSTR Deemed to be University, India), and Syed Shareefunnisa (VFSTR Deemed to be University, India)</i>	
Blynk-Powered IoT System with Machine Learning for Personalized Plant Care	230
<i>Madhavi Pappula (AI&DS Lakireddy Balireddy College of Engineering, India), Jaswanth Chowdary Myneni (AI&DS Lakireddy Balireddy College of Engineering, India), Manasa Gandra (AI&DS Lakireddy Balireddy College of Engineering, India), Raghavendra Tadigadapa (AI&DS Lakireddy Balireddy College of Engineering, India), and Bala Krishna Murthy Akella (AI&DS Lakireddy Balireddy College of Engineering, India)</i>	
Prediction of Car Sales Price Trends using Ensembling Models	234
<i>CH.Sai Sri Harsha (Vignan's Foundation for Science, Technology and Research, India), V.Asritha Sai (Vignan's Foundation for Science, Technology and Research, India), Shaik Mohammad Kaif (Vignan's Foundation for Science, Technology and Research, India), G Dinesh (Vignan's Foundation for Science, Technology and Research, India), and Syed Shareefunnisa (Vignan's Foundation for Science, Technology and Research, India)</i>	
AI-Powered Anomaly and Threat Detection for Surveillance Footage Analysis	240
<i>J Sivapriya (New Horizon College of Engineering, India), D Roja Ramani (New Horizon College of Engineering, India), Rahul Pratap Srivastava (New Horizon College of Engineering, India), Kaushik Kumar (New Horizon College of Engineering, India), and Rahul Vivek Nair (New Horizon College of Engineering, India)</i>	
Analyzing and Detecting Digital Counterfeit Images using DenseNet, ResNet and CNN	248
<i>T Aruna (Vignan Institute of Technology and Science(A), India), P Naresh (Vignan Institute of Technology and Science(A), India), B Ashrith Kumar (Vignan Institute of Technology and Science(A), India), B Krishna Prakash (Vignan Institute of Technology and Science(A), India), K Madhu Mohan (Vignan Institute of Technology and Science(A), India), and P Mahesh Reddy (Vignan Institute of Technology and Science(A), India)</i>	

SentinelScan: Advanced Network Scanner and Packet Detection Suite	253
<i>Seshapriyan T (SRM Institute of Science and Technology, Kattankulathur), SM Dinesh (SRM Institute of Science and Technology, Kattankulathur), and Godwin Ponsam J (SRM Institute of Science and Technology, Kattankulathur)</i>	
Enhanced Logistics Management Through Predictive Modeling and Analysis Framework	259
<i>Asmi Sawant (SIES Graduate School Of Technology, India), Swati Jorapur (SIES Graduate School Of Technology, India), Koneti Madhurya (SIES Graduate School Of Technology, India), Bhoomi Rai (SIES Graduate School Of Technology, India), and Leena Ladge (SIES Graduate School Of Technology, India)</i>	
An Automated Leaf & Fruit Disease Prediction using Transfer Learning and Recommendations	266
<i>G. Chanakya (Vignan Institute of Technology and Science(A), India), Repala Harini (Vignan Institute of Technology and Science(A), India), Harsh Satish Kadam (Vignan Institute of Technology and Science(A), India), N.Uday Kiran (Vignan Institute of Technology and Science(A), India), and Nemuri Chandrakanth (Vignan Institute of Technology and Science(A), India)</i>	
Enhanced Diabetes Prognostication: Precision Forecasting via Ensemble Learning Methods	270
<i>Kannan S (Vinayaka Mission's Kirupananda Variyar Engineering College, Vinayaka Mission's Research Foundation (Deemed to be University), India), Vinod Kumar D (Vinayaka Mission's Kirupananda Variyar Engineering College, Vinayaka Mission's Research Foundation (Deemed to be University), India), Murali G (Vinayaka Mission's Kirupananda Variyar Engineering College, Vinayaka Mission's Research Foundation (Deemed to be University), India), Arunkumar Madhuwappan C (Vinayaka Mission's Kirupananda Variyar Engineering College, Vinayaka Mission's Research Foundation (Deemed to be University), India), Mathan Kumar S (Vinayaka Mission's Kirupananda Variyar Engineering College, Vinayaka Mission's Research Foundation (Deemed to be University), India), and Jothika S (Vinayaka Mission's Kirupananda Variyar Engineering College, Vinayaka Mission's Research Foundation (Deemed to be University), India)</i>	
A Review on Decoding Palm Leaf Manuscripts to Digital Information using Deep Learning Techniques	274
<i>J.Juslin Sega (SRM Institute of Science and Technology, India) and J.Shiny Duela (SRM Institute of Science and Technology, India)</i>	
Group Key Management and Sharing Protocol in Cloud Computing Environment	282
<i>V. Ganesan (Sri Jayendra Saraswathy Maha Vidyalaya Collage of Arts & Science, India) and N. Umadevi (Sri Jayendra Saraswathy Maha Vidyalaya Collage of Arts & Science, India)</i>	
HairVise: A Machine Learning, Augmented Reality and Artificial Intelligence Integrated Personalized Hair Care Recommendation Framework	288
<i>Sakshi Singh (SIES Graduate School of Technology, India), Himani Mali (SIES Graduate School of Technology, India), Vaibhavee Thakur (SIES Graduate School of Technology, India), and Sampada Lovalekar (SIES Graduate School of Technology, India)</i>	
Optimizing Crop Yields With Multilayer Perceptrons: A Data-Driven Approach	295
<i>Nivetha N (IFET College of Engineering(An Autonomous Institution), India) and Usharani S (IFET College of Engineering(An Autonomous Institution), India)</i>	

Enhanced Pneumonia Detection Through EfficientNetV2-L, Vision Transformer (ViT) And ResNet-50 Image Analysis	301
<i>Leema Roselin G (IFET College of Engineering, India), Oviya A (IFET College of Engineering, India), and Sabimozhi M (IFET College of Engineering, India)</i>	
Prediction of Food Wastage using XG Boost	307
<i>Sruthi Chowdary K (VFSTR Deemed to be University, India), Krishna Praneetha L (VFSTR Deemed to be University, India), Holika S (VFSTR Deemed to be University, India), Bindhu Priya D (VFSTR Deemed to be University, India), Venkatrama Phani Kumar S (VFSTR Deemed to be University, India), and Venkata Krishna Kishore K (VFSTR Deemed to be University, India)</i>	
Hypokinetic Rigid Syndrome: Early Prediction of Parkinson's Disease using Ensemble Classifiers	313
<i>Prabhakar Marry (Vignan Institute of Technology and Science(A), India), Sreenidhi N (Vignan Institute of Technology and Science(A), India), Sandeep Reddy V (Vignan Institute of Technology and Science(A), India), BharathVamshi M (Vignan Institute of Technology and Science(A), India), and Balakrishnan C (Vignan Institute of Technology and Science(A), India)</i>	
Dynamic Predictive Analysis of Blood Glucose Levels using CNN with Real-Time Feedback Mechanism	319
<i>Vallabhaneni Vivek (Koneru Lakshmaiah Education Foundation, India), Manne Sudheer Kumar (Koneru Lakshmaiah Education Foundation, India), Maddireddy Devi Sri Prasad (Koneru Lakshmaiah Education Foundation, India), Yasari Sri Karthikeya (Koneru Lakshmaiah Education Foundation, India), and Anjali Devi S (Koneru Lakshmaiah Education Foundation, India)</i>	
Forest Fire Prediction and Management using AI (Artificial Intelligence), ML (Machine Learning) and Deep Learning Techniques	324
<i>Kavuluri Leela Sai Rasagna Devi (Koneru Lakshmaiah Education Foundation, India), Garnepudi Narasimha Kumar (Koneru Lakshmaiah Education Foundation, India), Potturi Ashok Narayana (Koneru Lakshmaiah Education Foundation, India), Kakani Venkata Ramana (Koneru Lakshmaiah Education Foundation, India), Amarendra K (Koneru Lakshmaiah Education Foundation, India), and Tirupathi Rao Gullipalli (Aditya Engineering College, India)</i>	
Artificial Intelligence (AI) Based on Real Time Patient Monitoring System in Intensive Care Unit and its Applications	328
<i>Prajwal Lourdes Lobo (Maharani Cluster University, India), Panjagari Kavitha (CVR College of Engineering, India), Saranya K (S.A.Engineering college, India), Selvaraju Selvaraju (Vinayaka Mission's Research Foundation Deemed to be University, India), Chandrashekhhar Kumar (Vinayaka Mission's Research Foundation Deemed to be University, India), and Venkatachalam D (Karpagam Academy of Higher Education, India)</i>	
Navigating the Terrain: A Comprehensive Survey of Deep Learning for Image Forgery Detection	333
<i>Mahadi Yousif Aavvad Ismail (Vignan Institute of Technology and Science(A), India) and Vinoj J (Vignan Institute of Technology and Science(A), India)</i>	

DietRx: Machine Learning Enhanced Disease Specific Nutrition and Precautions	340
<i>Khaleelullah SK (Vignan Institute of Technology and Science(A), India), Hanish Kumar (Vignan Institute of Technology and Science(A), India), Gantla Rahul (Vignan Institute of Technology and Science(A), India), Rahul Naik (Vignan Institute of Technology and Science(A), India), and Sai Teja (Vignan Institute of Technology and Science(A), India)</i>	
Strategic Load Balancing: Game Theory Approach for Optimized Resource Allocation in Cloud Computing	345
<i>Geetha G (SRM Institute of science and Technology, India), Anjanay Khare (SRM Institute of science and Technology, India), Kartikey Mahawar (SRM Institute of science and Technology, India), and Bhavya Bajaj (SRM Institute of science and Technology, India)</i>	
Machine Learning Based Real Estate Price Prediction	351
<i>Anupam Mukherjee (Manipal University Jaipur, India), Rtwik Nambiar (Manipal University Jaipur, India), and Deepjyoti Choudhury (Manipal University Jaipur, India)</i>	
AI Based Stock Market Analysis and Decision Making System using Design Thinking Approach ...	359
<i>Venkatesh Kumar M (Saveetha Institute of Medical and Technical Sciences, India), Umamaheswari M (Dr. SNS Rajalakshmi College of Arts and Science, India), Hema Bharathi C (Tamil Nadu Agricultural University, India), Maruthaveni R (Dr. SNS Rajalakshmi College of Arts and Science, India), Nirmala Devi M (Tamil Nadu Agricultural University, India), and Prasanna R (Dr. SNS Rajalakshmi College of Arts and Science, India)</i>	
A Study on Anomaly-Based Intrusion Detection Systems Employing Supervised Deep Learning Techniques	366
<i>Abubucker.S. Shaffi (Gulf College, Sultanate of Oman), John Velloreuzhathil Chacko (Gulf College, Sultanate of Oman), Greeshma Eliyan (Gulf College, Sultanate of Oman), and Balaji S (Al Zahra College for Women, Muscat)</i>	
A Novel Approach for Prediction of the Lung Disease using Deep Learning	371
<i>Nanthini N (Sri Krishna College of Engineering and Technology, India), Aishwarya D (Sri Krishna College of Engineering & Technology, India), Angelin Simon (Sri Krishna College of Engineering & Technology, India), Baby Vishnupriya N (Sri Krishna College of Engineering & Technology, India), and Jeyalakshmi K (PSNA College of Engineering and Technology, India)</i>	
A Novel AI-Driven Recommendation System for Eco-Conscious Consumers	376
<i>Dinesh T S (UG Student, Velammal College of Engineering and Technology, India), Ammayappan K (UG Student, Velammal College of Engineering and Technology, India), Janav G (UG Student, Velammal College of Engineering and Technology, India), Gopikumar S (Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, India), Santhana Krishnan R (SCAD College of Engineering and Technology, India), and Srinivasan A (Velammal College of Engineering and Technology, India)</i>	
Comparative Study of Machine Learning Algorithms for Feature Extraction and Prediction of Bacterial Leaf Blight Disease in Paddy Fields	383
<i>Penugonda Seetha Rama Krishna (Annamalai University, India) and Nagarajan S (Government College of Engineering Srirangam, India)</i>	

Deep Learning-Based CAD System for Multi-Class Lung Cancer Detection and Classification from Histopathological Images	388
<i>Chandu Jagadeeswari (Koneru Lakshmaiah Education Foundation, India), Pasumarthi Sirisha (Koneru Lakshmaiah Education Foundation, India), Gujjula Sirisha (Koneru Lakshmaiah Education Foundation, India), and Siva Nageswara Rao Gajula (Koneru Lakshmaiah Education Foundation, India)</i>	
Sustainable Engineering: Predictive Modeling of Aluminum Matrix Composites using Deep Learning	396
<i>Allwyn Kingsly Gladston J (SCAD College of Engineering and Technology, India), Neopolean P (SCAD College of Engineering and Technology, India), Sundararajan S (SCAD College of Engineering and Technology, India), Venkata Subramanian S (SCAD College of Engineering and Technology, India), Santhana Krishnan R (SCAD College of Engineering and Technology, India), and Jeyapandi S (SCAD College of Engineering and Technology, India)</i>	
Impacting of COVID-19 on Stock Market Exchange using ML	405
<i>Athina Srinadh B (Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, India), Venkata Rao Bollepalli (Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, India), Siva Nageswara Rao G (Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, India), Kollu Vinay (Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, India), and Panidapu Narayana Swami (Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, India)</i>	
EMANet: Revolutionizing Energy Efficiency in Smart Spaces Through Machine Learning	409
<i>Arul Jose R (RajaRajeswari College of Engineering, India), Ramesh C (RajaRajeswari College of Engineering, India), Santhana Krishnan R (SCAD College of Engineering and Technology, India), Gayathri C (PSNA College of Engineering and Technology, India), Yamini G (Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai), and Srinivasan A (Velammal College of Engineering and Technology, India)</i>	
Assessing the Resilience of Machine Learning Models in Predicting Long-Term Breast Cancer Recurrence Results	416
<i>Vadthe Narasimha (CMR College of Engineering & Technology, India), Rama Reddy T (Aditya University, India), Ramyakrishna Kadiyala (Sir C R Reddy College of Engineering, India), Chiranjeevi Paritala (Amrita Sai Institute of Science and Technology, India), Vahiduddin Shariff (Sir C R Reddy College of Engineering, India), and Rakesh V (B V Raju Institute of Technology, India)</i>	
Enhancing Accident Prediction Through Integrated KNN and DBSCAN Algorithms for Superior Accuracy	423
<i>Bommaganti Vinay Sai Kiran (Department of CSE, Koneru Lakshmaiah Education Foundation, India), Maramsetty Abhinay Kowshik (Department of CSE, Koneru Lakshmaiah Education Foundation, India), Alapati Leela Manohar (Department of CSE, Koneru Lakshmaiah Education Foundation, India), Dara Rishi Siddardha (Department of CSE, Koneru Lakshmaiah Education Foundation, India), Kavitha M (Department of CSE, Koneru Lakshmaiah Education Foundation, India), and Kavitha S (Department of CSE, Koneru Lakshmaiah Education Foundation, India)</i>	

Improving Solar Energy Conversion Efficiency Through Luo Converter Enhanced by Artificial Neural Network and Cloud Integration	429
<i>Marisekar B (Sri Ramakrishna Engineering College, India), Prasanna R (Sri Ramakrishna Engineering College, India), Sanjay Raghul J (Sri Ramakrishna Engineering College, India), and Jaya Pradeesh T (Sri Ramakrishna Engineering College, India)</i>	
Biological Data Analysis for Disease Prediction and Classification in Bioinformatics	435
<i>Vijaya Shree D (Sri Ramakrishna College of Arts and Science, India), Shiva Kumar B. L (Sri Ramakrishna College of Arts and Science, India), Ganesan V (Dr.G.R.Damodaran College of Science, India), Sivaraman M (Dr. SNS Rajalakshmi College of Arts and Science, India), and Sumitha J (SNS Rajalakshmi College of Arts and Science, India)</i>	
Exploring Alzheimer's Disease Risk Prediction: A Data-Driven Approach with RandomForestClassifier	441
<i>Pallaovi Jampani (Koneru Lakshmaiah Education Foundation, India), Varun Raj Javvadi (Koneru Lakshmaiah Education Foundation, India), Varun Sai Nandi (Koneru Lakshmaiah Education Foundation, India), Sai Varun Tanuku (Koneru Lakshmaiah Education Foundation, India), Amarendra K (Koneru Lakshmaiah Education Foundation, India), and Bejjam S N Benarji (Koneru Lakshmaiah Education Foundation, India)</i>	
Arduino Based GPS Guided Vehicle	451
<i>Prabhakara Rao Kapula (B V Raju Institute of Technology, India), Abdul Shafay (B V Raju Institute of Technology, India), B. Mohit (B V Raju Institute of Technology, India), Ch. Jayanth (B V Raju Institute of Technology, India), and P. Gahitha (B V Raju Institute of Technology, India)</i>	
An Android Application for Enhancing Agri-Tourism and Wetland Conservation Through Farmer-Consumer Engagement	455
<i>Naga Leela G (Srinivasa Ramanujan Institute of Technology, India), Gousiya P (Srinivasa Ramanujan Institute of Technology, India), Anand B (Srinivasa Ramanujan Institute of Technology, India), Manoj Reddy C (Srinivasa Ramanujan Institute of Technology, India), and Bramha Teja K (Srinivasa Ramanujan Institute of Technology, India)</i>	
Enabling Cybersecurity Defenses: Advanced Endpoint Detection, Data Breach Identification, and Anomaly Resolution	461
<i>Mediseti Durga Prasad (Koneru Lakshmaiah Education Foundation, India), Mantha Sri N V R Snigdha Sindusha (Koneru Lakshmaiah Education Foundation, India), Nadendla Jahnavi (Koneru Lakshmaiah Education Foundation, India), Mohammed Waajid Ali (Koneru Lakshmaiah Education Foundation, India), and Anjali Devi S (Koneru Lakshmaiah Education Foundation, India)</i>	
Comprehensive Analysis of Bone Health Predictive Modeling: Integrating Logistic Regression for Precise Outcome Evaluation	469
<i>Dondapati Rupesh (Koneru Lakshmaiah Education Foundation, India), Pasam Chandra Sekhar Reddy (Koneru Lakshmaiah Education Foundation, India), Md Saif (Koneru Lakshmaiah Education Foundation, India), Avirineni Varun (Koneru Lakshmaiah Education Foundation, India), and Vijaya Krishna Sonthi (Koneru Lakshmaiah Education Foundation, India)</i>	
Enhancing Digital Security: A Comprehensive Multi-Model Authentication Framework Leveraging Cryptography and Biometrics	476
<i>Kavitha G (Rajalakshmi Institute of Technology, India), Prasannakumar V (Rajalakshmi Institute of Technology, India), and Pranav R. P (Rajalakshmi Institute of Technology, India)</i>	

Enhancing Intrusion Detection Systems in IoT Networks: A Hybrid Approach using CNN, ANN, LSTM, GRU for Improved Security	487
<i>Pradeep M (Hindustan Institute of Technology and Science, India) and Gopalakrishnan S (Hindustan Institute of Technology and Science, India)</i>	
Automated Tiered Detection of Cyber-Attacks in Operational Distribution Networks	493
<i>Brintha N. C (Kalasalingam Academy of Research and Education, India), Arun Balaji M (Kalasalingam Academy of Research and Education, India), Chandra Teja B (Kalasalingam Academy of Research and Education, India), Anwesh G (Kalasalingam Academy of Research and Education, India), Shashank P (Kalasalingam Academy of Research And Education, India), and Kapil Eswar C (Kalasalingam Academy of Research and Education, India)</i>	
An Experimental Study on Prediction of Revenue and Customer Segmentation	500
<i>Bhavya Sai Mikkilineni (VFSTR Deemed to be University, India), Uuhasri Madala (VFSTR Deemed to be University, India), Renu Sree Bonthagorla (VFSTR Deemed to be University, India), Yashmitha Priya Parikala (VFSTR Deemed to be University, India), Venkatrama Phani Kumar S (VFSTR Deemed to be University, India), and Venkata Krishna Kishore K (VFSTR Deemed to be University, India)</i>	
Determining People's Opinion About Amazon Alexa using Machine Learning (ML) Based Classification	507
<i>Harshitha Sugasani (Vignan's Foundation for Science, Technology and Research Vadlamudi, India), Subhashini Jetti (Vignan's Foundation for Science, Technology and Research Vadlamudi, India), Archana Nelluri (Vignan's Foundation for Science, Technology and Research Vadlamudi, India), Neeraj P. V. S. S. (Vignan's Foundation for Science, Technology and Research Vadlamudi, India), Lahari Manuru (Vignan's Foundation for Science, Technology and Research Vadlamudi, India), and Maridu Bhargavi (Vignan's Foundation for Science, Technology and Research Vadlamudi, India)</i>	
A Novel Technique for Detecting Concealed Malicious URLs Within the Tor Network	513
<i>Kanimozhi P (IFET College of Engineering, India), Felcia Jerlin I (Grace College of Engineering, India), Ananth Kumar T (IFET College of Engineering, India), Christo Ananth (Samarkand State University, Uzbekistan), Mathusoothanan K (IFET College of Engineering, India), and Preethi E (Holycross Engineering College, India)</i>	
Design and Development of Automated Flour Recirculation and Dust Free Grain Grinding Mechanism	519
<i>Baluprithviraj K N (Kongu Engineering College Erode, India), Madhan Mohan M (Kongu Engineering College Erode, India), Kalavathi Devi T (Kongu Engineering College Erode, India), Angusamyjeeva M (Kongu Engineering College Erode, India), Ashik C (Kongu Engineering College Erode, India), and Midhunashri V S (Kongu Engineering College Erode, India)</i>	

Network Intrusion Detection System using Machine Learning Algorithms	525
<i>Shivam Kumar (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Boyapati Bhavana (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Safuwam Shiblee (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), Kanchinadham Sri Pranathi (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India), and Maridu Bhargavi (Department of CSE Vignan's Foundation for Science, Technology and Research (Deemed to be University), India)</i>	
Enhancing Cardiopulmonary Resuscitation (CPR) Performance With Internet of Things (IoT)-Based Audio-Visual Feedback Device	531
<i>Gabriel Sebastian D'Souza (FCRIT Vashi, India), Leonardo Jude D'Souza (FCRIT Vashi, India), Arya Mahesh Aloni (FCRIT Vashi, India), Sherwin Steven Furtado (FCRIT Vashi, India), and Chaitanya Vijaykumar Mahamuni (FCRIT Vashi, India)</i>	
Design of Electric Vehicle with Self-Balance Approach using Gyroscopic Effect and Autonomous Systems	540
<i>Sujitha S (New Horizon College of Engineering, India), Dayas A Dixel (New Horizon College of Engineering, India), Dheeresh Vijay Devadiga (New Horizon College of Engineering, India), Dony Snehit P (New Horizon College of Engineering, India), and Harshita K (New Horizon College of Engineering, India)</i>	
Deep Learning Models for Cyber Attack Detection	544
<i>N. C. Brintha (Kalasalingam Academy of Research and Education, India), B. Hrudayesh (Kalasalingam Academy of Research and Education, India), M. Anil (Kalasalingam Academy of Research and Education, India), A. Goutham Reddy (Kalasalingam Academy of Research and Education, India), and V. Guru Nandan (Kalasalingam Academy of Research and Education, India)</i>	
Smart Security Management using IoT and HC-05 Bluetooth Module	550
<i>Sam Michael S (Karunya Institute of Technology and Sciences, India), Ancy Jenifer J (Karunya Institute of Technology and Sciences, India), Ruth Moly Benjamin (Karunya Institute of Technology and Sciences, India), Cyril Jacob (Karunya Institute of Technology and Sciences, India), and Shanthosh S (Karunya Institute of Technology and Sciences, India)</i>	
Efficient Material Handling through Smart Hopper Level Monitoring and Conveyor Speed Control	555
<i>Mahesh N (Department of Electronics and Instrumentation Engineering, Kongu Engineering College), Sozhaventhana A (Department of Electronics and Instrumentation Engineering, Kongu Engineering College), Sreekanth S (Department of Electronics and Instrumentation Engineering, Kongu Engineering College), and Vishnupriya M (Department of Electronics and Instrumentation Engineering, Kongu Engineering College)</i>	
Assessing Water Dissolved Oxygen Dynamics: Autoregressive Distributed Lag (ARDL) Approach for Environmental Sustainability	562
<i>Amit Mittal (Graphic era Hill university, India), Somesh Sharma (Graphic Era Hill University, India), Shweta Arora (Graphic Era Hill University, India), Prakash Garia (Graphic Era Hill University, India), and Pradeep Kumar Sharma (Graphic Era Deemed to be University, India)</i>	

Analyzing Student Performance for Early Intervention: A Binary Classification Study	568
<i>A Maanas Sai Surya Chandra (VFSTR Deemed to be University, India), G Bhoomika (VFSTR Deemed to be University, India), M Manisha (VFSTR Deemed to be University, India), Y Jeevan Sai Ganesh (VFSTR Deemed to be University, India), and Syed Shareefunnisa (VFSTR Deemed to be University, India)</i>	
A Layered Convolution Framework for Enhanced Multiclass Classification of Cardiovascular Pathologies in ECG Signals	575
<i>Leema Roselin G (IFET College of Engineering, India) and Syed Jamaluddin R (IFET College of Engineering, India)</i>	
CloudSec Innovation: Enhanced Data Security with Multi-Tier Encryption Systems	582
<i>Issac Immanuel S R (Karunya Institute of Tech. and Sci., India), Jenefa A (Karunya Institute of Tech. and Sci., India), Edward Naveen V (Sri Shakthi Institute of Engg. and Tech., India), P. Santhiya (Karunya Institute of Tech. and Sci., India), R. Sangeetha (Karunya Institute of Tech. and Sci., India), and Lincy A (National Engineering College, India)</i>	
Wireless Communication Based PAPR Reduction in MIMO-OFDM	588
<i>G. Nagalalli (Electronics and Communication Engineering Mahendra Engineering College, Namakkal), M. Hema Kumar (Electronics and Communication Engineering Sona College of Technology, Salem), and R. Sabari Manikandan (Electronics and Communication Engineering Mahendra Engineering College, Namakkal)</i>	
A Survey on Deep Learning Techniques for Secure and Accurate Mobile Sink Position Prediction in Vehicular Pattern WSN	596
<i>D.K Shareef (Mohan Babu University, India) and V. Jyothsna (Mohan Babu University, India)</i>	
Hardware Integration of IoT and GSM for Secured Electrical Line System	604
<i>H Vidhya (Sri Ramakrishna Engineering College, India), P Sudarson (Sri Ramakrishna Engineering College, India), V Tharun (Sri Ramakrishna Engineering College, India), and V S Veera Raajendar (Sri Ramakrishna Engineering College, India)</i>	
Dynamic Wireless Charging System for Electric Vehicles	608
<i>Deepak V. Prasad (Sanjivani College of Engineering, Maharashtra), Vishal S. Lande (Sanjivani College of Engineering, Maharashtra), Abhishek P. Bornare (Sanjivani College of Engineering, Maharashtra), Payal B. Waghmare (Sanjivani College of Engineering, Maharashtra), and Sujith M. (Sanjivani College of Engineering, Maharashtra)</i>	
Analysis of Advanced Technology Integrated Interviews	613
<i>Khallelullah Sk (Vignan Institute of Technology and Science(A), India), Vujjini Shiva Kumar (Vignan Institute of Technology and Science(A), India), Maddipatla Mahati (Vignan Institute of Technology and Science(A), India), Gangishetty Soni (Vignan Institute of Technology and Science(A), India), and Bhargav Sai Ch (Vignan Institute of Technology and Science(A), India)</i>	
Construction of a New Smart Production Safety Management System	618
<i>Jian Yang (CETC Network & Communication Research Institute, China)</i>	
Advancements in Text-To-Image Synthesis: A Comprehensive Review of Techniques, Challenges, and Future Directions	625
<i>Soumya Ashwath (Deemed to be University, NMAM Institute of Technology (NMAMIT), India) and Jyothi Shetty (Deemed to be University, NMAM Institute of Technology (NMAMIT), India)</i>	

Smart Irrigation System using ESP8266, NodeMCU & ThingSpeak	630
<i>Divya S Muthekar (Savitribai Phule Pune University, India), Kishor V Gadekar (Savitribai Phule Pune University, India), Deulkar A.M (Savitribai Phule Pune University, India), and Pardeshi D.B (Savitribai Phule Pune University, India)</i>	
Package Delivery Robot	635
<i>Kalpesh Joshi (Sciences and Humanities (DESH), Vishwakarma Institute of Technology, India), Rutuja Chaudhari (Sciences and Humanities (DESH), Vishwakarma Institute of Technology, India), Krishna Sadar (Sciences and Humanities (DESH), Vishwakarma Institute of Technology, India), Isha Sable (Sciences and Humanities (DESH), Vishwakarma Institute of Technology, India), Akshay Sabbenwad (Sciences and Humanities (DESH), Vishwakarma Institute of Technology, India), Anisha Sadanshive (Sciences and Humanities (DESH), Vishwakarma Institute of Technology, India), and Sai Vishwajit (Sciences and Humanities (DESH), Vishwakarma Institute of Technology, India)</i>	
Smart Dust Removal System for Solar Panel by using Programmable Logic Controller	642
<i>Ishwar Ashok Navle (Sanjivani College of Engineering, India), Maruti Ramdas Rokade (Sanjivani College of Engineering, India), Pardeshi D. B (Sanjivani College of Engineering, India), and Bhushan Kadam (Sanjivani College of Engineering, India)</i>	
Implementation of Intelligent Farm Guards: Utilizing Bidirectional Monitoring for Motor Efficiency	646
<i>Sujitha S (New Horizon College of Engineering, India), Amisha Athrey (New Horizon College of Engineering, India), Jhansi Priya KN (New Horizon College of Engineering, India), Lavanya N (New Horizon College of Engineering, India), and Janhavi G (New Horizon College of Engineering, India)</i>	
Industry Internet of Things (IIoT) Adoption Pressures in SME OEMs	650
<i>Prassana Despande (Christ University, India), Kumar Chandar S (Christ University, India), and Elangovan N (Christ University, India)</i>	
Enhancing Small and Medium OEMs' Adoption of IIoT Technologies	656
<i>Prassana Despande (Christ University, India), Kumar Chandar S (Christ University, India), and Elangovan N (Christ University, India)</i>	
Development of a Solar Powered Autonomous Multipurpose Agriculture Robot for Sustainable Farming Practices	662
<i>Srushti Arvind Gadekar (Sanjivani College of Engineering, India), Sumit Sitaram Khamkar (Sanjivani College of Engineering, India), and Prashant V. Thokal (Sanjivani College of Engineering, India)</i>	
Self-Charging Electrical Bike	665
<i>Samadhan N. Nyaharkar (Sanjivani College Of Engineering, India), Vinod G. Yeole (Sanjivani College Of Engineering, India), Vikas C. Wable (Sanjivani College Of Engineering, India), and Dipesh Pardeshi (Sanjivani College Of Engineering, India)</i>	
Performance-Security Tradeoff of Multi-Dimensional Chaotic Maps for Resource-Constrained Environments	670
<i>Kurunandan Jain (Center for Cybersecurity Systems and Networks, Amrita Vishwa Vidyapeetham, India), Vismaya Vijayan (Center for Cybersecurity Systems and Networks, Amrita Vishwa Vidyapeetham, India), and Anirudh Ajithkumar (Center for Cybersecurity Systems and Networks, Amrita Vishwa Vidyapeetham, India)</i>	

Design of Drowning Rescue Alert System	676
<i>Minal Ghute (Yeshwantrao Chavan College of Engineering, India), Tejswini Katole (Yeshwantrao Chavan College of Engineering, India), Ayush Hadge (Yeshwantrao Chavan College of Engineering, India), Abhilasha Walke (Yeshwantrao Chavan College of Engineering, India), and Gargi Gabhane (Yeshwantrao Chavan College of Engineering, India)</i>	
Creation of a Solar-Powered, Multifunctional, Autonomous Agricultural Robot for Sustainable Farming Methods	681
<i>Sayali Sukdev Barhate (Department of Electrical Engineering, Sanjivani College of Engineering, India), Shreyas Ravindra Lahange (Department of Electrical Engineering, Sanjivani College of Engineering, India), and Prashant V. Thokal (Department of Electrical Engineering, Sanjivani College of Engineering, India)</i>	
Intelligent Power Distribution System for Enhanced Renewable Energy Utilization	684
<i>Prasad C. Jadhav (Department of Electrical Engineering, Sanjivani College of Engineering, India), Akshay T. Hon (Department of Electrical Engineering, Sanjivani College of Engineering, India), and Dipesh B. Pardeshi (Department of Electrical Engineering, Sanjivani College of Engineering, India)</i>	
Interpretable Anomaly Detection in Industrial Control Systems using Federated Learning	687
<i>Laxmi Thodupunuri (Chaitanya Bharathi Institute of Technology, India), Nishanka Peesari (Chaitanya Bharathi Institute of Technology, India), and Sairam Utukuru (Chaitanya Bharathi Institute of Technology, India)</i>	
Ensemble Strategies for Predicting Walmart Sales using Regression Models	693
<i>Chinni Swarna Rekha (Deemed to be University Guntur, India), Kanyadara Bala Sathwika (Deemed to be University Guntur, India), Govapudi Siva Nandini (Deemed to be University Guntur, India), Rayankula Sumanth (Deemed to be University Guntur, India), and Syed Shareefunnisa (Deemed to be University Guntur, India)</i>	
Development of Helical Type Wind Turbine	700
<i>Harshad S Gadakh (Sanjivani College of Engineering, India), Rutwik P Jawale (Sanjivani College of Engineering, India), Vijaya Kumar (Sanjivani College of Engineering, India), and Pardeshi D. B. (Sanjivani College of Engineering, India)</i>	
Crop Prediction to Aid Farmers using Hybrid Model	705
<i>Jaladi Lahari (Vignan's Foundation for Science Technology and Research, India), Vadlamudi Lavanya (Vignan's Foundation for Science Technology and Research, India), and Manikandan K. B (Vignan's Foundation for Science Technology and Research, India)</i>	
An Integrated Mobile Application for Automated Detection of Plant Leaf Diseases and Pest Infestations	711
<i>Roja Ramani D (New Horizon College of Engineering, India), Ben Sujitha B (Department of CSE Noorul Islam Centre for Higher Education, India), Mary Synthia Regis Prabha D. M (Noorul Islam Centre for Higher Education, India), Sylaja Vallee Narayan S. R (GTAM University (Deemed to be University), India), Subha Darathy C (Arunachala College of Engineering for Women, India), and Jeya Kumar I (Mar Ephraem College of Engineering and Technology, India)</i>	
Author Index	717