

2024 5th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2024)

**Lalitpur, Nepal
18 – 19 January 2024**



**IEEE Catalog Number: CFP24US4-POD
ISBN: 979-8-3503-9524-2**

**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:	CFP24US4-POD
ISBN (Print-On-Demand):	979-8-3503-9524-2
ISBN (Online):	979-8-3503-9523-5

Additional Copies of This Publication Are Available From:

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

CURRAN ASSOCIATES INC.
proceedings
.com

2024 5th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI) **ICMCSI 2024**

Table of Contents

Message from Conference Chair xxii

2024 5th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI)

Parkinson's Disease Induced Gain Freezing Detection Using Gated Recurrent Units Optimized by Modified Crayfish Optimization Algorithm	1
<i>Nebojsa Bacanin (Singidunum University, Serbia), Aleksandar Petrovic (Singidunum University, Serbia), Luka Jovanovic (Singidunum University, Serbia), Miodrag Zivkovic (Singidunum University, Serbia), Tamara Zivkovic (Singidunum University, Serbia), and Marko Sarac (Singidunum University, Serbia)</i>	
Early Detection of Lung Tumors in CT Imaging Using Machine Learning	9
<i>P Jayapriya (Sri Eshwar College of Engineering, India), G Nagarjunan (Sri Eshwar College of Engineering, India), R Praveen (Sri Eshwar College of Engineering, India), G Kirthi Vignesh (Sri Eshwar College of Engineering, India.), and P Ramasubramanyam (Sri Eshwar College of Engineering, India)</i>	
Unmanned Aerial Systems in Search and Rescue: A Comprehensive Review and Future Directions	15
<i>Kowshika M (Sri Eshwar College of Engineering, India), Ooviya M (Sri Eshwar College of Engineering, India), Pavithradevi B (Sri Eshwar College of Engineering, India), Rashika K.V (Sri Eshwar College of Engineering, India), and Sampath Kumar S (Sri Eshwar College of Engineering, India)</i>	
Heart Disease Prediction Using XGBoost and Random Forest Models	19
<i>Hari Karthik S K (Sri Eshwar College of Engineering Coimbatore, India), Praveen A (Sri Eshwar College of Engineering Coimbatore, India), Kowshik G (Sri Eshwar College of Engineering Coimbatore, India), Lokeshwaran T (Sri Eshwar College of Engineering Coimbatore, India), and Prasanna K M (Sri Eshwar College of Engineering Coimbatore, India)</i>	
Intelligent Tutoring Systems Using Long Short-Term Memory Networks and Bayesian Knowledge Tracing	24
<i>Subha R (Sri Eshwar College of Engineering, India), Gayathri N (Sri Eshwar College of Engineering, India), Sasireka S (Sri Eshwar College of Engineering, India), Sathiyabanu R (Sri Eshwar College of Engineering, India), Santhiyaa B (Sri Eshwar College of Engineering, India), and Varshini B (Sri Eshwar College of Engineering, India)</i>	

A Survey of Cost-Efficient Technological Developments in the Field of Cardiovascular Diagnostics and Auscultation	30
<i>Gagana Gagana (RV College of Engineering, India), Manasvini G Padmasali (RV College of Engineering, India), Supriya S (RV College of Engineering, India), Vraddhi Shetty (RV College of Engineering, India), and Rekha B S (RV College of Engineering, India)</i>	
Unveiling Cholera Patterns Through Machine Learning Regression for Precise Forecasting	39
<i>Sheshang Degadwala (Sigma University, India), Dhairya Vyas (The Maharaja Sayajirao University of Baroda, India), and Mukesh Soni (Dr. D. Y. Patil Vidyapeeth; Dr. D. Y. Patil School of Science & Technology, India)</i>	
Early Prediction of Chronic Kidney Disease: A Comprehensive Survey	45
<i>M. S. Jayaprabha (VISTAS, India) and V. Vishwa Priya (VISTAS, India)</i>	
Improving Credit Card Fraud Detection with Class Imbalance Resilience and Dynamic Machine Learning Approaches	52
<i>Vyshnavi Pamidi (Koneru Lakshmaiah Education Foundation, India), Pachipala Yellamma (Koneru Lakshmaiah Education Foundation, India), Balisetty Prasanth (Koneru Lakshmaiah Education Foundation, India), and Charmi Padmaja T (Koneru Lakshmaiah Education Foundation, India)</i>	
Electroencephalography Reveals Distinct Brain Patterns During Second Language Acquisition in Arabic and Hindi Speakers	59
<i>Talal A. Aldhaheeri (Faculty of Administrative and Computers Sciences Albaydha University Albaydha, Yemen. Department of Computer Science and Information Technology Dr. Babasaheb Ambedkar Marathwada University Aurangabad, India), Sonali B. Kulkarni (Department of Computer Science and Information Technology Dr. Babasaheb Ambedkar Marathwada University Aurangabad, India), and Pratibha R. Bhise (Department of Computer Science and Information Technology Dr. Babasaheb Ambedkar Marathwada University Aurangabad, India)</i>	
Short Message Service (SMS) Mobile Spam Detection Using Naïve Bayes	67
<i>Samadhan M. Nagare (Dr. Babasaheb Ambedkar Marathwada University, India), Pratibha P. Dapke (Dr. Babasaheb Ambedkar Marathwada University, India), Syed Ahteshamuddin Quadri (Dr. Babasaheb Ambedkar Marathwada University, India), Sagar B. Bandal (Dr. Babasaheb Ambedkar Marathwada University, India), and Manasi R. Baheti (Dr. Babasaheb Ambedkar Marathwada University, India)</i>	
Bringing Them Home: The Role of Azure Face API in Finding Missing Person	71
<i>Yuvaraj Duraisamy (Cihan University-Duhok, Iraq), Shanmuga Priya. S (SRM Institute of Science and Technology, India), Saif Saad Alnuaimi (Cihan University-Duhok, Iraq), and Saranya .K.R (SRM Institute of Science and Technology, India)</i>	
Accurate Data Sampling Methods for Medical Data – Survey	77
<i>Ramya Shri G (M.Kumarasamy College of Engineering, India), Devasena T (M.Kumarasamy College of Engineering, India), Janani M (M.Kumarasamy College of Engineering, India), and Karthick R (M.Kumarasamy College of Engineering, India)</i>	
A Study on the Detection of Cyberbullying Using CNN with Ibi Logics Algorithm (ILA)	85
<i>Karthik K (M.Kumarasamy College of Engineering, India), Hema R (M.Kumarasamy College of Engineering, India), Jayashree S (M.Kumarasamy College of Engineering, India), and Lakshedha P (M.Kumarasamy College of Engineering, India)</i>	

Edge Segmentation Based on Illumination Invariant Feature Detector Phase Congruency	91
<i>Rajendra V. Patil (Sunrise University, India), Renu Aggarwal (Sunrise University, India), and Shailesh Shivaji Deore (SSVPS BSD College of Engineering, India)</i>	
Comprehensive Machine Learning-Based Approach for Intelligent Glaucoma Detection	97
<i>Aroind R (CMR Institute of Technology, India), Sahana D Gowda (BGS Institute of Technology, India), H C Sudheendramouli (GSSS Simha SubbaMahalakshmi First Grade College, India), Kruthi R (Maharaja Institute of Technology, India), Ankur Choudhary (Graphic Era Deemed to be University, India), and Raj A. Varma (Symbiosis International (Deemed University) (SIU), India)</i>	
Navigating Independence: The Smart Walking Stick for the Visually Impaired	103
<i>Rajanish Kumar Kaushal (Chandigarh University, India), T V V Pavan Kumar (KG Reddy College of Engineering and Technology, India), Sharath N (BGS Institute of Technology, India), Swapnil Parikh (Parul Institute of Engineering and Technology, India), Natrayan L (Saveetha School of Engineering, India), and Harshal Patil (Symbiosis Institute of Technology, India)</i>	
Efficient Optimization of Energy Consumption at Home Through Machine Learning	109
<i>Sharada Prasad N (RNS Institute of Technology, India), Lakshmi Shree M S (Cambridge Institute of Technology, India), Manjunatha S (Cambridge Institute of Technology, India), Vipul Vekariy (Parul University, India), Ganga D Benal (Cambridge Institute of Technology, India), and Harshal Patil (Symbiosis Institute of Technology, India)</i>	
AI Assisted Interactive Aanli Mirror	115
<i>Aaliya S Mohammed (Bishop Jerome Institute, India), Liya Virge (Bishop Jerome Institute, India), Anjali A (Bishop Jerome Institute, India), and Vidya G S (Bishop Jerome Institute, India)</i>	
AI Powered Self Checkout System	120
<i>Harsha Harrison (Bishop Jerome Institute, India), Christina C (Bishop Jerome Institute, India), Aaron Vincent Baiju (Bishop Jerome Institute, India), Sreeja V (Bishop Jerome Institute, India), and Vidya Hari G S (Bishop Jerome Institute, India)</i>	
A Study of Emotion Classification of Music Lyrics Using LSTM Networks	126
<i>Affreen Ara (Christ University, India) and Rekha V (Christ University, India)</i>	
A Survey on NIST 3rd Round Post Quantum Digital Signature Algorithms	132
<i>Rasha Shajahan (Amrita Vishwa Vidyapeetham Amritapuri-campus, India), Kurunandan Jain (Amrita Vishwa Vidyapeetham Amritapuri-campus, India), and Prabhakar Krishnan (Amrita Vishwa Vidyapeetham Amritapuri-campus, India)</i>	
A Survey of Post Quantum Key Encapsulation Mechanism	141
<i>Manjiri Harmalkar (Amrita Vishwa Vidyapeetham, India), Kurunandan Jain (Amrita Vishwa Vidyapeetham, India), and Prabhakar Krishnan (Amrita Vishwa Vidyapeetham, India)</i>	
Using AWS SageMaker to Deploy ML Credit Card Fraud Detection Model	150
<i>Nikhil S. Chougule (Shivaji University, India), Chetan J. Awati (Shivaji University, India), and Rashmi Deshmukh (Shivaji University, India)</i>	

A Comprehensive Analysis of Implementing Convolutional Neural Networks (CNN) and InceptionV3 for Early-Lung Cancer Detection	157
<i>Helen R (Saveetha Engineering College, India), Sridharan T (Saveetha Engineering College, India), and Vaitheswaran S (Saveetha Engineering College, India)</i>	
Enhancing Text Classification Performance Using Stacking Ensemble Method with TF-IDF Feature Extraction	166
<i>Mahesh Parmar (Madhav Institute of Technology & Science, India) and Akhilesh Tiwari (Madhav Institute of Technology & Science, India)</i>	
Comprehensive Analysis of Melanoma Detection Using CNN Methods	175
<i>Sayali Patinge (JSPM's Rajarshi Shahu College of Engineering, India), Kshitija Ponde (JSPM's Rajarshi Shahu College of Engineering, India), Jaykumar Pokar (JSPM's Rajarshi Shahu College of Engineering, India), Vaishnavi Gadgile (JSPM's Rajarshi Shahu College of Engineering, India), Maithili Raut (JSPM's Rajarshi Shahu College of Engineering, India), and Leena Sonar (JSPM's Rajarshi Shahu College of Engineering, India)</i>	
Cascading Based Hybrid Recommendation Model	181
<i>Raghavendra C K (B N M Institute of Technology, India), Mahantesha U (B N M Institute of Technology, India), and Prashanth J (Global Academy of Technology, India)</i>	
Proposal of a Python Streamlit APP for the MPSI-MARA Multicriteria Method	189
<i>Tullio Mozart Pires de Castro Araujo (Fluminense Federal University, Brazil), Marcos dos Santos (Military Institute of Engineering, Brazil), Carlos Francisco Simões Gomes (Federal Fluminense University, Brazil), Celio Manso Azevedo Junior (Fluminense Federal University, Brazil), Mateus Vanzetta (Federal University Niterói, Brazil), and Enderson Luiz Pereira Junior (Fluminense Federal University, Brazil)</i>	
Performance Evaluation of Movie-Based Recommendation Systems Using Hybrid Machine Learning Models	195
<i>A Padmaoathi (Amrita Vishwa Vidya Peetham, India), Rohit Kumar Sah (Amrita Vishwa Vidya Peetham, India), Gottumukkala Amrutha (Amrita Vishwa Vidya Peetham, India), Birat Chapagain (Amrita Vishwa Vidya Peetham, India), and ASL Manasa (Amrita Vishwa Vidya Peetham, India)</i>	
Early Detection of Pancreatic Cancer Using Machine Learning Algorithm	202
<i>Bhoomika B K (St.Joseph's Institute of Technology, India), Kanmani K (St.Joseph's Institute of Technology, India), and G Smilarubavathy (St.Joseph's Institute of Technology, India)</i>	
A Comparative Analysis on the Prediction of Heart Failure Using Machine Learning Algorithms	206
<i>Senthil Pandi S (Rajalakshmi Engineering College, India), Kumaragurubaran T (Rajalakshmi Engineering College, India), Jaeyalakshmi M (Rajalakshmi Engineering College, India), and Muqaddam Aaqil Sheriff (Rajalakshmi Engineering College, India)</i>	
A Guide Towards Implementing an Effective Forest Fire Detection System: Key Factors and Research Gaps	212
<i>Anshika Salaria (Lovely Professional University, India) and Amandeep Singh (Lovely Professional University, India)</i>	

Improved Occlusion Handling in Object Recognition by Enhancing Image Quality and Suitable Illumination Techniques	218
<i>Priya. L (Rajalakshmi Engineering College, India), Poornimathi. K (Rajalakshmi Engineering College, India), Ghadhadharan. V (Rajalakshmi Engineering College, India), and Kumar P (Rajalakshmi Engineering College, India)</i>	
Classification of Brain Tumor Images Using Segmentation and Transfer Learning	225
<i>J. Hima Bindu (Vignan's Foundation for Science, Technology & Research (Deemed to be University), India) and M. Uma Devi (Vignan's Foundation for Science, Technology & Research (Deemed to be University), India)</i>	
A Comprehensive Analysis on Forest Conservation Using Satellite Images	233
<i>Justindhas Y (Easwari Engineering College, India), Arthi V (Easwari Engineering College, India), Ganesh S (Easwari Engineering College, India), and Haripriya G (Easwari Engineering College, India)</i>	
A Heart Disease Prediction Model Using Merged XGBoost-SVM Classifier and Particle Swarm Optimization	241
<i>Annwesha Banerjee Majumder (JIS College of Engineering, India), Somsubhra Gupta (Swami Vivekananda University, India), Sourav Majumder (Capgemini, India), and Dharmpal Singh (JIS College of Engineering, India)</i>	
A New Multi-Criteria Approach to the Identification of the Best Companies to Work for, Using the PSI-SPOTIS Hybrid Method	249
<i>Anderson Gonçalves Portella (Fluminense University Niterói, Brazil), Marcos Paulo Rosa Lima da Silva (Dept of Data Science Datamar São Paulo, Brazil), Marcos dos Santos (Military Engineering Institute Rio de Janeiro, Brazil), and Carlos Francisco Simões Gomes (Federal Fluminense University Niterói, Brazil)</i>	
Application of the PSI-CoCoSo Method for the Selection of an Aircraft for Aeromedical Rescue in an Offshore Company	257
<i>Luana de Azevedo de Oliveira (Production Engineering Department Federal Fluminense University, Brazil), Enderson Luiz Pereira Júnior (Production Engineering Department Federal Fluminense University, Brazil), Carlos Francisco Simões Gomes (Production Engineering Department Federal Fluminense University, Brazil), Marcos dos Santos (Computer Engineering Department Military Engineering Institute, Brazil), Marcos Paulo Rosa Lima da Silva (Dept of Data Science Datamar, Brazil), and Anna Caroline de Azevêdo B. Moratelli (Production Engineering Department Federal Fluminense University, Brazil)</i>	
Predictive Parenting: An IoT-Enabled Cradle System with AI-Driven Sleep Pattern Analysis ...	264
<i>I. Sakthidevi (Adhiyamaan College of Engineering, India), S. Vijaya Shankar (Sona College of Technology, India), R. Santhana Krishnan (SCAD College of Engineering and Technology, India), Sincy Elezebeth Kuruvilla (RajaRajeswari College of Engineering, India), M. Bharath (SCAD College of Engineering and Technology, India), and S. Gopikumar (Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India)</i>	

Artificial Intelligence Oriented User Sentiment Evaluation System on Social Networks Using Modified Deep Learning Principles	272
<i>S. Thangamayan (Saveetha Institute of Medical and Technical Sciences, India), Sandip Nivorutti Jagdale (Bharati Vidyapeeth(Deemed to be university) Yashwantrao Mohite Institute of Management Karad), T R. Kalai Lakshmi (Sathyabama Institute of Science and Technology, Chennai), Jayendra Gopal Thatipudi (University of North Texas), Penyameen. K (Velammal College of Engineering and Technology), and Bhola Khan (MJP Rohilkhand University, India)</i>	
Survey on Hand Gestures Recognition for Sign Translation Using Artificial Intelligence	280
<i>Rajeshram V (M. Kumarasamy College of Engineering, India), Sanjay P (M. Kumarasamy College of Engineering, India), and Thulasimani VV (M. Kumarasamy College of Engineering, India)</i>	
Real-Time Tracking of Medical Histories During Accident	288
<i>Karthika I (M.Kumarasamy College of Engineering Karur, India), Meykeerthi S (M.Kumarasamy College of Engineering Karur, India), Supreetha B (M.Kumarasamy College of Engineering Karur, India), and Vaishnavi S (M.Kumarasamy College of Engineering Karur, India)</i>	
Criteria for Adopting Cloud Computing for Running Machine Learning Techniques	297
<i>Adriana Melges Quintanilha Weingart (Kyndryl, Brazil), Marcos dos Santos (Instituto Militar de Engenharia (IME), Brazil), and Thiago Bianchi (Mercado Livre, Brazil)</i>	
Magnetic Resonance Imaging-Based Prostate Cancer Detection and Classification Using Machine Learning and Deep Learning Techniques: A Survey	304
<i>Nasser M. Al-Zidi (College of Engineering Jawaharlal Nehru Technological University Hyderabad, India) and D. Vasumathi (College of Engineering Jawaharlal Nehru Technological University Hyderabad, India)</i>	
Assessment of Higher Education Institutions in the Rio de Janeiro Based on RUF Rankings: An Application of the Thor 2 Method	312
<i>Wagner dos Anjos Carvalho (Federal Fluminense University, Brazil), Nayara Tavares Cardoso (FPMRio, Brazil), Marcos Paulo Rosa Lima da Silva (Datamar, Brazil), Marcos dos Santos (Military Engineering Institute, Brazil), and Carlos Francisco Simões Gomes (Federal Fluminense University, Brazil)</i>	
A Novel Algorithm for Gait Recognition Using Spatio-Temporal Silhouette Analysis	323
<i>A. Rijuwana Begum (College of Engineering Guindy, Anna University, India), Kiran Mannem (Gokaraju Rangaraju Institute of Engineering and Technology, India), Likhitha R (Nitte Meenakshi Institute of Technology, India), Lavanya L (CMR Engineering College, India), B Siva Kumar Reddy (CMR Engineering College, India), and K Jamal (Gokaraju Rangaraju Institute of Engineering and Technology, India)</i>	
Enhancing Video Accessibility for Color Vision Deficiencies	329
<i>SK Khaleelullah (Vignan Institute of Technology and Science(A)), Hanish Kumar (Vignan Institute of Technology and Science(A)), Gantla Rahul (Vignan Institute of Technology and Science(A)), Rahul Naik (Vignan Institute of Technology and Science(A)), and Sai Teja (Vignan Institute of Technology and Science(A))</i>	

Enhancing Field Employee Productivity and Performance with Android Software Solution and Machine Learning-Based Predictive Analytic Model	336
<i>Vijayakumar Chilamkurthi (VNR Vignana Jyothi Institute of Engineering & Technology (JNTUH Hyderabad), India), Bhupesh Deka (VNR Vignana Jyothi Institute of Engineering & Technology (JNTUH Hyderabad), India), Jajala Nikitha (VNR Vignana Jyothi Institute of Engineering & Technology (JNTUH Hyderabad), India), Ajay Dilipkumar Marapatla (VNR Vignana Jyothi Institute of Engineering & Technology (JNTUH Hyderabad), India), and D Kishore Babu (Bapatla Engineering College (Autonomous), Acharya Nagarjuna University, India)</i>	
YOLOv8-Driven Integration of Advanced Detection Technologies for Enhanced Terrain Safety	344
<i>Shankar K (computer science and engineering easwari engineering college, India), Akash S (computer science and engineering easwari engineering college, India), Akash Sarvesh M (computer science and engineering easwari engineering college, india), and Gokulakrishnan K J (computer science and engineering easwari engineering college, India)</i>	
Digital Farming for Silkworms: A Technological Breakthrough	352
<i>D. Abitha Kumari (R.M.K Engineering College, India), G. Moneekha (R.M.K Engineering College, India), P.B. Nithya Sree (R.M.K Engineering College, India), P Jai Siva Ranjani (R.M.K Engineering College, India), and S. Neenasri (R.M.K Engineering College, India)</i>	
Application of the PSI-CoCoSo Hybrid Method in the Choice of Light Fleet Supplier for a Logistics Distribution Center	357
<i>Francisco de Assis de Sousa (Federal Fluminense University, Brazil), Anderson Luiz Pereira Júnior (Federal Fluminense University, Brazil), Carlos Francisco Simões Gomes (Federal Fluminense University, Brazil), Marcos dos Santos (Military Engineering Institute, Brazil), and Marcos Paulo Rosa Lima da Silva (Datamar, Brazil)</i>	
LabVIEW-Powered Integrated Diagnosis Tool for Precision Breast Cancer Detection: A Multifaceted Approach	366
<i>Madhura G (BGSCET, India) and Mallikarjun H M (RNSIT, India)</i>	
Systematic Review: Face Recognition Algorithms for Photos and Real-Time Applications	371
<i>Sumant Ranmale (Dr. Vishwanath Karad MIT World Peace University, India) and Balaso Jagdale (Dr. Vishwanath Karad MIT World Peace University, India)</i>	
Application of Artificial Intelligence Algorithms in Precision Marketing with Flow Data Analysis Models	378
<i>Xueqin Lu (NanNing University, China; Shinawatra University, Thailand)</i>	
Corpus Indexing Database Construction Based on Deep Learning Algorithm	384
<i>Yidan Piao (Liaodong University, China)</i>	
Efficient Speech Signal Accent Recognition Algorithm Based on Feature Fusion	390
<i>Rong Zeng (Wuhan Business University, China)</i>	
Software Quality Testing Framework Based on Machine Learning Analysis	396
<i>Rongrong Li (Nanyang Technological University, Singapore)</i>	
Deep Learning Model for Behavioral Image Data Annotation	402
<i>Wang Bo (Modern College Of Northwest University, China), He Wei (Modern College Of Northwest University, China), Jiang Chunfeng (Modern College Of Northwest University, China), Xue Ru (Modern College Of Northwest University, China), and Du Cuifang (Modern College Of Northwest University, China)</i>	

Design and Data Analysis of Online Certification System for English Courses based on Face Recognition Algorithm	409
<i>Yingying Wang (Department of tourism and foreign languages of Maanshan Normal College, China)</i>	
Smart Precision Feeding System for Dairy Cows Based on Amplitude Iterative Pruning Algorithm	415
<i>Dong Rongwei (Yancheng Polytechnic College, China)</i>	
Optimization of Logistics Information System Based on Multi-Agent Reinforcement Learning .	421
<i>Chunrong Lu (Tianjin Transportation Technical College, China) and Yue Wu (Tianjin Transportation Technical College; The Institute of State Governance Studies, Tianjin Normal University, China)</i>	
Intelligent Equipment Scenario for Aviation Maintenance VR System Based on Digital Twin Model	427
<i>Binbin Ren (Sanya Aviation and Tourism College, China), Yukun Gao (HNA Aviation Technology Co., Ltd, China), Zhenhua Gu (Sanya Aviation and Tourism College, China), Pengyuan Liu (HNA Aviation Technology Co., Ltd, China), and Jun Xiong (HNA Aviation Technology Co., Ltd, China)</i>	
Enhancing IoT Efficiency: The Role of Fuzzy Logic in Smart Decision Making	434
<i>Rahib Imamguluyev (Baku Business University, Azerbaijan), Jamala Nabiyeva (Baku Business University, Azerbaijan), Tunzala Imanova (Baku Business University, Azerbaijan), Rena Mikayilova (Azerbaijan State University of Economics, Azerbaijan), Niyar Umarova (Azerbaijan Academy of Labor and Social Relations, Azerbaijan), and Tarlan Abdullayev (Odlar Yurdu University, Azerbaijan)</i>	
Enhancing Arecanut Farming Profits Through Technological Advancements: A CNN-Based Approach for Efficient Grading and Sorting	441
<i>Dhanush Ghate D (NITTE (Deemed to be University), NMAM Institute of Technology, India), Pallavi K N (NITTE (Deemed to be University), NMAM Institute of Technology, India), and Asmita Poojari (NITTE (Deemed to be University), NMAM Institute of Technology, India)</i>	
Knowledge Discovery Approach Based on Knowledge Engineering and Ontology for Recommender Intelligent Expert System	446
<i>Sumanth Veluvolu (Computer Science and Engineering VNR Vignana Jyothi Institute of Engineering and Technology, India), Karnam Akhil (Computer Science and Engineering VNR Vignana Jyothi Institute of Engineering and Technology, India), and Siddamsetty Srinivas Midhun (Computer Science and Engineering VNR Vignana Jyothi Institute of Engineering and Technology, India)</i>	
Use of the PSI-CoCoSo Method in the Evaluation of Imagers for use in Helicopters of the Military Police of the State of Rio de Janeiro	451
<i>Gustavo Soares de Assis (Aeronautical Technology Institute, Brazil), Roberto Gil Annes da Silva (Aeronautical Technology Institute, Brazil), Enderson Luiz Pereira Júnior (Federal Fluminense University, Brazil), Marcos dos Santos (Military Engineering Institute, Brazil), Carlos Francisco Simões Gomes (Federal Fluminense University, Brazil), and Marcos Paulo Rosa Lima da Silva (Datamar, Brazil)</i>	
Hazardous Chemical Fire Detection Algorithm Based on Improved Image Multi-Feature Fusion ...	460
<i>Lu Zhang (Chongqing Medical and Pharmaceutical College, China)</i>	

Diabetic Patient Diagnosis Through the use of Machine Learning Techniques	466
<i>Parthasarathi Pattnayak (KIIT Deemed to be University, India), Sudhansu Shekhar Patra (KIIT Deemed to be University, India), and Sanghamitra Patnaik (KIIT Deemed to be University, India)</i>	
Exploring Weka and Python for Educational Data Mining: Naïve Bayes vs. J48	470
<i>Sheikh Tasfia (Northern University Bangladesh, Bangladesh), Saha Reno (Bangladesh Army International University of Science and Technology, Bangladesh), Nusrat Jahan (Australian Institute of Higher Education, Australia), and Abdullah Al Mamun (Bangladesh Army International University of Science and Technology, Bangladesh)</i>	
BiGRU-Attention Sentiment Analysis for Enhancing Task-Oriented Chatbots	476
<i>Nguyen Thi Mai Trang (Posts and Telecommunications Institute of Technology, Vietnam) and Nguyen Ngoc Hung (Vitech group joint stock company, Vietnam)</i>	
A Comprehensive Analysis of Artificial Intelligence Integration in Electrical Engineering	484
<i>Vijay J. Patil (SVERI college of Engg., India), Suhas B. Khadake (SVERI college of Engg., India), Dipti A. Tamboli (SVERI college of Engg., India), H.M. Mallad (SVERI college of Engg., India), Shantisagar M. Takpere (SVERI college of Engg., India), and Vijay A. Sawant (SVERI college of Engg., India)</i>	
Design and Development of a Novel Algorithm to Predict Fake Logo Using Learning Based Digital Image Analysis Methodology	492
<i>N. Nagajothi (Nandha Engineering college (Autonomous), India), Shabana Memon (Bharati Vidyapeeth (Deemed to be University), Institute of Management, India), G. Mohan (K.S.Rangasamy College of Technology, India), Parashuram Shankar Vadar (Shivaji University, India), Anita Soni (IES University, India), and S.Prince Sahaya Brighty (Sri Ramkrishna Engineering College, India)</i>	
Reconstruction of Medical Images from Sparse Data: A Deep Learning Approach	500
<i>Saravanan S (VIT School of Design Vellore Institute of technology, India), P. Malin Bruntha (Karunya Institute of Technology and Sciences, India), Iwin Thanakumar Joseph S (Koneru Lakshmaiah Education Foundation, India), Suresh Subramanian (Saveetha school of engineering, Saveetha Institute of medical and Technical Science, India), G. Naveen Sundar (Karunya Institute of Technology and Sciences, India), and D. Narmadha (Karunya Institute of Technology and Sciences, India)</i>	
Texture-Based Feature Extraction and Machine Learning Model for the Detection of Acute Lymphoblastic Leukemia	505
<i>Rangini M (R.M.D. Engineering College, India), Sumit Pundir (Graphic Era Deemed to be University, India), Manzoore Elahi M. Soudagar (Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, India), Daxa Vekariya (Parul institute of Engineering and Technology, Parul University, India), Harshal Patil (Symbiosis Institute of Technology, Symbiosis International (Deemed University), India), and S. Rajkumar (Institute of Technology, Hawassa University, Ethiopia)</i>	

AI-Based Object Detection for Assisting the Visually Impaired People	512
<i>Syed Sameer (Karnataka State Council for Science and Technology (KSCST), Indian Institute of Science (IISc) Campus, India), Parul Madan (Graphic Era Deemed to be University, India), Sathish Kannan (Saveetha Institute of Medical and Technical Sciences, India), Vijay Jagdish Upadhye (Parul Institute of Applied Sciences, Parul University, India), Harshal Patil (Symbiosis Institute of Technology, Symbiosis International (Deemed University), India), and S. Rajkumar (Institute of Technology, Hawassa University, Ethiopia)</i>	
Improving State of Charge Estimation for Lithium-Ion Batteries Through Optimized CNN Models	519
<i>Indradeep Kumar (Institute of Aeronautical Engineering, India), Madhavi Dasari (Sapthagiri College of Engineering, India), Chaitanya Danamaraju (RNS Institute of Technology, India), Bindu K V (R.M.K. College of Engineering and Technology, India), V. Mohanavel (Bharath Institute of Higher Education and Research, India), and Joshuva Arockia Dhanraj (University Centre for Research & Development (UCRD), Chandigarh University, India)</i>	
Gaze-Assisted Autism Spectrum Disorder Identification: A Fusion of Machine Learning and Deep Learning Approaches for Preemptive Identification	525
<i>Judy Simon (SRM Institute of Science and Technology, India), N Kapileswar (SRM Institute of Science and Technology, India), Datchinamoorthi M (SRM Institute of Science and Technology, India), Muthukumar S (SRM Institute of Science and Technology, India), and Keerthana Devi G (SRM Institute of Science and Technology, India)</i>	
A Comprehensive Study on Fast Charging in Smart Phones	530
<i>S. Manoharan (JCT College of Engineering and Technology, India), B. Mahalakshmi (Hindusthan College of Engineering and Technology, India), K. Ananthi (Sri Krishna College of Engineering and Technology, India), and A. Agalya (Rathinam Technical Campus, India)</i>	
Identification of Fish and Shrimp Species Using Computer Vision Techniques and Convolutional Neural Networks	536
<i>Levina Tukaram (K N S Institute of Technology, India), Swati Swati (Graphic Era Deemed to be University, India), Shalet Benvin (BGS Institute of Technology, Adichunchanagiri University, India), Swapnil Parikh (Parul Institute of Engineering and Technology, Parul University, India), Harshal Patil (Symbiosis Institute of Technology, Symbiosis International (Deemed University), India), and Ramya Maranan (Saveetha School of Engineering, SIMATS, India)</i>	
Air Quality Prediction and Analysis Using Machine Learning	543
<i>Asha Gururaj (BGS Health and Global City, SJB Institute of Technology, India), Vishishtta Nagaraj (SJCE, JSS Science and Technology University, India), Rajesh A S (JSS Science and Technology University, India), Achyuth K N (Maharaja Institute of Technology, India), Somesh M U (G. Madegowda Institute of Technology, India), and Ashish Dubay B (Maharaja Institute of Technology, India)</i>	
Multidetector CT in the Analysis of Pulmonary Thromboembolism	551
<i>Rohini M.S (Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, India), Balaji. V (Sri Sairam College of Engineering, India), Vijai. R (Sri Sairam College of Engineering, India), Rajesh. V (Sri Sairam College of Engineering, India), D.Chandra Mohan (St. Peter's Institute of Higher Education and Research, India), and Ajay Singh Yadav (SRM Institute of Science and Technology, India)</i>	

Design a New Approach to Calculate Calorie Count with Machine Learning (ML) and Augmented Reality (AR)	559
<i>Vaishali Latke (PCET's Pimpri Chinchwad College of Engineering & Research, India), Kavita Balivada (PCET's Pimpri Chinchwad College of Engineering & Research, India), Sumit Bhamare (PCET's Pimpri Chinchwad College of Engineering & Research, India), Neha Bhegade (PCET's Pimpri Chinchwad College of Engineering & Research, India), and Sayli Patil (PCET's Pimpri Chinchwad College of Engineering & Research, India)</i>	
Automatic and Multilingual Speech Recognition and Translation by Using Google Cloud API .	566
<i>Pachipala Yellamma (Koneru Lakshmaiah Education Foundation, India), Potla Raghu Varun (Koneru Lakshmaiah Education Foundation, India), Nunna Charan Naga Lakshmi Narayana (Koneru Lakshmaiah Education Foundation, India), Yogendra Chowdary (Koneru Lakshmaiah Education Foundation, India), Polisetty Manikanth (Koneru Lakshmaiah Education Foundation, India), and Kunderu Hemanth Ganesh Sai (Koneru Lakshmaiah Education Foundation, India)</i>	
Promoting Sustainable Engagement: Robotic Process Automation Driven Eco-Friendly Student Club Enrolment	572
<i>Harith Sai Saraf (Amrita School of Engineering, Amrita University, India)</i>	
Veterinary Medical Records Application Using AWS	578
<i>Deepika Soni (Sanam University), Awanit Kumar (Sanam University), Vikas Somani (Sanam University), and Sheshang Degadwala (Sigma University)</i>	
Node Deployment Strategies and Challenges in Underwater Wireless Sensor Network	585
<i>Layolin Benisto L C (SRM Institute of Science and Technology, India), Rajeev Sukumaran (SRM Institute of Science and Technology, India), and Agnel Shyam Kumar C (SRM Institute of Science and Technology, India)</i>	
A Secure and Smooth Data Delivery Platform with Block Chain in Cloud Computing	590
<i>Sudhir Ponnappalli (Cloud Architect, Walgreens, USA), Raghunadha Reddi Dornala (Senior Cloud Architect, Walgreens, USA), Kalakoti Thriveni Sai (Jr Data Engineer, CNA, USA), and Sreenu Bhukya (Raymond James, Senior Software Architect)</i>	
Implementation of Text Pre-Processing in Gujarati Text-to-Speech Conversion	597
<i>Vishal Narvani (GLS University, India) and Harshal Arolkar (GLS University, India)</i>	
Knowledge Engineering-Based Cognitive Science to Enhance the Cognitive Ability of the Student	603
<i>Shaik Afreen (VNR Vignana Jyothi Institute of Engineering and Technology), Uppala Reshmitha (VNR Vignana Jyothi Institute of Engineering and Technology), Karnam Akhil (VNR Vignana Jyothi Institute of Engineering and Technology), Varagani Divya (Vignana Jyothi Institute of Engineering and Technology), and Spurthi Yadagiri (VNR Vignana Jyothi Institute of Engineering and Technology)</i>	
UAV-Accelerometer Data Analysis for Cricket Player Performance Prediction	611
<i>Rameshwari Lokhande (VJTI, India), Rahul Ingle (VJTI, India), and R.N. Awale (VJTI, India)</i>	

Simple Digital Design to Optimize TDOA Algorithm Reducing Energy Consumption: WSN for Forest Fire Localization	617
<i>Monji M. Zaidi (King Khalid University; Monastir University-Tunisia, KSA), Ahmed Abdullah Asiri (King Khalid University; Technical College (Technical and Vocational Training Corporation TVTC), KSA), and Imen.R Bouazzi (King Khalid University; Monastir University-Tunisia, KSA)</i>	
Performance Analysis on Clustering Strategies for Construction Remodeling	624
<i>D. Neguja (Alagappa University, India) and A.Senthil Rajan (Alagappa University, India)</i>	
Multimodal Integration, Fine Tuning of Large Language Model for Autism Support	630
<i>Krishna Pai (Sardar Patel Institute of Technology, India), Vidhita Jagwani (Sardar Patel Institute of Technology, India), Shivalik Pandita (Sardar Patel Institute of Technology, India), and Dhananjay Kalbande (Sardar Patel Institute of Technology, India)</i>	
IoT Based Speed Sensing and Fault Monitoring of Induction Motor Using GSM Technique for Industrial Application	635
<i>Srinivasan S (K.S. Rangasamy College of Technology, India), Dhanasekar T (K.S. Rangasamy College of Technology, India), Sanjay J (K.S. Rangasamy College of Technology, India), and Vijaysivaprakash S (K.S. Rangasamy College of Technology, India)</i>	
Smart Transportation: A Comprehensive Survey on Personalized Path Planning Algorithms ...	639
<i>C. Saranya (SRM Institute of Science & Technology, India) and G. Janaki (SRM Institute of Science & Technology, India)</i>	
Multifunctional Health Monitoring System in IoT Using Cloud Environment	646
<i>Shashank Kumar (Koneru Lakshmaiah Education Foundation, India), Sanjay Kumar (Koneru Lakshmaiah Education Foundation, India), Harshita Sinha (Koneru Lakshmaiah Education Foundation, India), and P Yellamma (Koneru Lakshmaiah Education Foundation, India)</i>	
Efficient Data Storage Algorithm for IoT in Cloud-Distributed Environments	656
<i>Anurag Pal (Koneru Lakshmaiah Education Foundation, India), Prince Jay Shankar (Koneru Lakshmaiah Education Foundation, India), Ananya Das (Koneru Lakshmaiah Education Foundation, India), and P Yellamma (Koneru Lakshmaiah Education Foundation, India)</i>	
Energy Efficient Data Aggregation Protocol for Clustering in Wireless Sensor Networks	663
<i>J.Grace Hannah (Vels Institute of Science, Technology and Advanced Studies(VISTAS), India), M.S. Nidhya (Jain Deemed-to-be University), Syed Azahad (Methodist College of Engineering & Technology, India), and G.Sambasiva Rao (Nawab Shah Alam Khan College of Engineering & Technology, Osmania University, India)</i>	
Cybercrime on a Global Scale: Trends, Policies, and Cybersecurity Strategies	668
<i>Vishalkumar Ravindrakumar Gajjar (University Canada West, Canada) and Hamed Taherdoost (University Canada West, Canada)</i>	
Fortifying Blockchain: Streamlined Lattice Signatures Amid Quantum Threats to Blockchain ...	677
<i>Sindhu M P (Karunya Institute of Technology and Sciences Coimbatore, India) and V Ebenezer (Karunya Institute of Technology and Sciences, India)</i>	

Revolutionizing Home Connectivity with IoT-Enabled Smart Mirrors for Internet Browsing and Smart Home Integration	683
<i>M Manicka Prabha (SCAD College of Engineering and Technology, India), S. Jegadeesan (Velammal College of Engineering and Technology, India), S. D. Jayavathi (JP College of Engineering, India), G. Vinoth Rajkumar (JP College of Engineering, India), J. Nirmal Jothi (Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India), and R. Santhana Krishnan (SCAD College of Engineering and Technology, India)</i>	
IoT Based Voice Controlled Home Computerization Utilizing NodeMcu and Android Application	690
<i>Selvarathi C (Department of Computer Science and Engineering M.Kumarasamy College of Engineering, India), Nagul J G (Department of Computer Science and Engineering M.Kumarasamy College of Engineering, India), Naveen M (Department of Computer Science and Engineering M.Kumarasamy College of Engineering, India), and Sutharsan V (Department of Computer Science and Engineering M.Kumarasamy College of Engineering, India)</i>	
Down Link: Performance of Cognitive MC-IDMA Using Spatial Diversity and Polarization Diversity for Frequency Selective Channel	696
<i>K.S. Vishvakshan (Sri Sivasubramanian Nadar College of Engineering, India), G. Balasubramanian (SASTRA Deemed University, India), L Devasena (SASTRA Deemed University, India), and P. Vijayaraghavan (Sri Sivasubramanian Nadar College of Engineering, India)</i>	
Tokenization of Energy Assets: A Multichain Blockchain Approach	702
<i>Akiladevi R (Rajalakshmi Engineering College, India), Sardha S (Rajalakshmi Engineering College, India), and Shruthi R (Rajalakshmi Engineering College, India)</i>	
Food Chain Management Using Blockchain Technology	710
<i>Vidya Sagar P (Karpagam Academy of Higher Education, Coimbatore), Dhinesh K S (Karpagam Academy of Higher Education, Coimbatore), Jayakumar M (Karpagam Academy of Higher Education, Coimbatore), and Santhosh R (Karpagam Academy of Higher Education, Coimbatore)</i>	
Classification of Ciphers Using Only Cipher Text for Ciphers used in 4G & 5G Mobile Communication	720
<i>Venu Nalla (ANU, India), Chintha Pooja (C R Rao AIMSCS, India), G Padmavathi (C R Rao AIMSCS, India), and U Surya Kameswari (ANU, India)</i>	
Sustainable Energy Solutions: Avoa Algorithm for Precision Solar Farm Placement	729
<i>V. Mago Stalany (Noourl Islam Centre for Higher Education, India), S. Joe Patrick Gnanaraj (St.Mother Theresa Engineering College, India), R. Nafeena Abdul Munaf (Villa College, Maldives), N. Muthukumaran (Sri Eshwar College of Engineering, India), and Banda Hari (Villa College, Maldives)</i>	
Smart Greenhouse Illumination: Fuzzy Logic Control Through IoT Integration	735
<i>Rahib Imamguluyev (Baku Business University, Azerbaijan), Sevinj Maharramova (Odlar Yurdu University, Azerbaijan), and Tarlan Abdullayev (Odlar Yurdu University, Azerbaijan)</i>	

Mobile Phone Application and Intelligent Monitoring Assist Post-Stroke Extended Community and Home Rehabilitation Services	742
<i>Pei Haitao (Shanghai Posts and Telecommunications Hospital, China), Liang Zhenwen (College of Rehabilitation Sciences, China), Yu Xuewei (Shanghai Posts and Telecommunications Hospital, China), Wu Yuanyuan (Shanghai Posts and Telecommunications Hospital, China), and Tang Songjun (Shanghai Posts and Telecommunications Hospital, China)</i>	
UAV System Reliability Test Based on Random Interference Optimization	749
<i>Jingxiang Li (China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Guangzhou Bureau, China), Hao Lai (China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Guangzhou Bureau, China), Yanhui Shi (China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Guangzhou Bureau, China), Yang Yang (China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Guangzhou Bureau, China), and Fan Yang (China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Guangzhou Bureau, China)</i>	
An AI-Enhanced IoT Model for Three-Way Authentication and Location Tracking in Secured Jewellery Boxes	755
<i>S. Sundararajan (SCAD College of Engineering and Technology, India), P. Ebby Darney (RajaRajeswari College of Engineering, India), K. Palanivel Rajan (PSNA College of Engineering and Technology, India), A. Vegi Fernando (Dayananda Sagar University, India), J. Nirmal Jothi (Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India), and R. Santhana Krishnan (SCAD College of Engineering and Technology, India)</i>	
Real-Time Road Analysis System Using Mems Data with IoT Application	761
<i>Selvarathi C (Department of Computer Science and Engineering M.Kumarasamy College of Engineering, India), Chandru E (Department of Computer Science and Engineering M.Kumarasamy College of Engineering, India), Gokulraj V (Department of Computer Science and Engineering M.Kumarasamy College of Engineering, India), and Logasamraj S (Department of Computer Science and Engineering M.Kumarasamy College of Engineering, India)</i>	
Enhancing Access Control Mechanisms for Data Stored in Cloud Computing	766
<i>Jhansi Bharathi Madavarapu (University of the Cumberland's, USA), Radha Krishna Yalamanchili (Governor's State University, USA), and Rahul Charan Bose Madavarapu (University of Central Florida, USA)</i>	
Decentralized Parallel Blockchain Agricultural Product Traceability System Security Analysis	774
<i>Sun Fenglin (Guangxi Normal University, China)</i>	
Cross-Platform and Multi-Terminal Collaborative Software Information Security Strategy	781
<i>Fan Jinhong (Guangdong Nanhua Vocational College of Industry and Commerce, China)</i>	
An Enhanced Data Quality Management System in Cloud Computing	788
<i>Raghunadha Reddi Dornala (Walgreens, USA), Sudhir Ponnappalli (Walgreens, USA), Kalakoti Thriveni Sai (CAN, USA), and Sreenu Bhukya (Raymond James, Senior Software Architect)</i>	

Enhancing Security with Machine Learning-Based Finger-Vein Biometric Authentication System...
797

G. Prakash Babu (Acharya Institute of Technology, India), Upendra Singh Aswal (Graphic Era Deemed to be University, India), M. Sindhu (R.M.K. Engineering College, India), Vijay Jagdish Upadhye (Parul Institute of Applied Sciences, Parul University, India), Natrayan L (Saveetha School of Engineering, SIMATS, India), and Harshal Patil (Symbiosis Institute of Technology, Symbiosis International (Deemed University), India)

Strategies for Building and Maintaining Secure Web Applications 803

C. Sathiyapriyan (Aarupadai Veedu Institute of Technology, India), B. Manikandan (Aarupadai Veedu Institute of Technology, India), S. Gokul (Aarupadai Veedu Institute of Technology, India), Rewin Satheesh (Aarupadai Veedu Institute of Technology, India), S. Nivetha (Sathyabama Institute of Science and Technology, India), and S. Leelavathy (Aarupadai Veedu Institute of Technology, India)

Unveiling the Rising Demand of Electric Vehicles in India Following Standards and Guidelines 810

M. SivaramKrishnan (Karpagam College of Engineering), R. Vidyalakshmi (Karpagam College of Engineering), Jeevananthan P (Karpagam College of Engineering), Krishna Kumar R (Karpagam College of Engineering), M. Muthukumaran (Karpagam College of Engineering), and Kottaimalai Ramaraj (Kalasalingam Academy of Research and Education)

Exploring the Impact of Distinct Batteries on E-Bikes Performance 816

Siva Ramkumar M (Karpagam Academy of Higher Education, India), Bharathimuthu K (Karpagam Academy of Higher Education, India), Karthi Keyan (Karpagam Academy of Higher Education, India), Kumaravel S (Karpagam Academy of Higher Education, India), Mahendranathan M (Karpagam Academy of Higher Education, India), and Nagaveni P (Karpagam Academy of Higher Education, India)

Optimized Electric Vehicle Charging Station for Remote Location 822

Agash P (K.S.Rangasamy College of Technology, Tiruchengode), Kannan G (K.S.Rangasamy College of Technology, Tiruchengode), Sudhaharan M.S (K.S.Rangasamy College of Technology, Tiruchengode), and Balamurugan R (K.S.Rangasamy College of Technology, Tiruchengode)

Intelligent Flyback DC-DC Converter for Inductive Charging System 826

P. Lokesh Kannan (K.S.Rangasamy College of Technology), S. Parvesh Ahamed (K.S.Rangasamy College of Technology), M. Rahul (K.S.Rangasamy College of Technology), P. Karthik (K.S.Rangasamy College of Technology), and R. Balamurugan (K.S.Rangasamy College of Technology)

Electric Scooter Rideability: Initial Torque Optimization 829

Gopalakrishnan R (K.S. Rangasamy College of Technology, India), Sri Vidhya D (K.S. Rangasamy College of Technology, India), Chandrakumar E (K.S. Rangasamy College of Technology, India), Praveen A (K.S. Rangasamy College of Technology, India), Srinath E M (K.S. Rangasamy College of Technology, India), and Aravind M (K.S. Rangasamy College of Technology, India)

Survey and Analysis of Anomaly Detection for Smart Home Using Microcontroller 833

Ruchika Rami (Gujrat Law Society, India) and Zakiyabanu Malek (Gujrat Law Society, India)

Critical Review and Fine-Tuning Performance of Flutter Applications	838
<i>Jay Nanavati (Charotar University of Science and Technology (CHARUSAT), India), Sanskruti Patel (Charotar University of Science and Technology (CHARUSAT), India), Unnati Patel (Charotar University of Science and Technology (CHARUSAT), India), and Atul Patel (Charotar University of Science and Technology (CHARUSAT), India)</i>	
Reducing Energy Consumption by Stand-by Mode	842
<i>R. Gopalakrishnan (K S Rangasamy College of Technology, India), D. Sri Vidhya (K S Rangasamy College of Technology, India), S. Jaividhya (K S Rangasamy College of Technology, India), M. Jeevananthan (K S Rangasamy College of Technology, India), R. Priyadharshini (K S Rangasamy College of Technology, India), and P. Srikanth (K S Rangasamy College of Technology, India)</i>	
Thermo Electric Cooling System for E-Vehicle	846
<i>S. Gomathi (K S Rangasamy College of Technology, India), G. Janani (K S Rangasamy College of Technology, India), R. Jothishwaren (K S Rangasamy College of Technology, India), and A. Nalien (K S Rangasamy College of Technology, India)</i>	
Development and Evaluation of Sequential Batch Reactor with Natural Coagulants for Dairy Waste Water Treatment	851
<i>R. Sheela Daniel (SCAD College of Engineering and Technology, India), S. Sundararajan (SCAD College of Engineering and Technology, India), C. Antony Vasantha Kumar (SCAD College of Engineering and Technology, India), J. Nirmal Jothi (Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India), R. Santhana Krishnan (SCAD College of Engineering and Technology, India), and C. Ramasamy Sankar Ram (University College of Engineering, Anna University, India)</i>	
Fault Analysis and Debugging of Intelligent Connected Car Wire-Controlled Chassis System .	858
<i>Guo Shun (Univesiti Selangor, Malaysia; College of Automobile and Rail, China), Mohd Arif Mat Norman (Univesiti Selangor, Malaysia), and Nurudin Habeed Mohd Abd Settar (Univesiti Selangor, Malaysia)</i>	
Review of Performance of LDPC Codes for Various OFDM Systems	864
<i>M Selvi (Saveetha Engineering College), Jeeva S (Saveetha Engineering College), and Jaswanth J (Saveetha Engineering College)</i>	
Performance Analysis of Permanent Magnet Synchronous Generator with Wind Energy Converters.....	870
<i>S. Sri Ragavi (Karpagam Academy of Higher Education) and G. Emayavaramban (Karpagam Academy of Higher Education)</i>	
Auto Sorting and Placing of Objects Using Robotics Vision Module in MELFA Industrial Robot.....	877
<i>Kirti Mahajan (Bharati Vidyapeeth (Deemed to be University) Institute of Management and Entrepreneurship Development (IMED), India), Pallavi Mane (Bharati Vidyapeeth (Deemed to be University) Institute of Management and Entrepreneurship Development (IMED), India), Syed Mohammed Arif (Fr. C. Rodrigues Institute of Technology, India), Kamalakar Ravindra Desai (Bharati Vidyapeeth College of Engineering, India), Girish Madhaorao Lonare (Bharati Vidyapeeth College of Engineering, India), and V.V. Teresa (Sri Eshwar College of Engineering, India)</i>	

Design of Smart Lighting and Security System Using Intelligent Controller	881
<i>Deepak T. Patil (Bharati Vidyapeeth College of Architecture, India), Shivagond Teli (Bharati Vidyapeeth College of Engineering, India), Kaparathi Uday (CVR College of Engineering, India), Rajkumar S Sawant (Bharati Vidyapeeth Deemed University, India), A. Antony Fernandez (Christ the King Polytechnic College, India), and W. Rajan Babu (Sri Eshwar College of Engineering, India)</i>	
Deep Learning for Energy Demand Forecasting in Electric Vehicle Charging Stations	886
<i>Sudheer Hanumanthakari (ICFAI Foundation for Higher Education, India), Anita S (R.M.K. Engineering College, India), M.Beulah Viji Christiana (Panimalar Engineering College, India), Vellayan Srinivasan (S. A. Engineering College, India), Sathish Kannan (Saveetha Institute of Medical and Technical Sciences, India), and S.K.Nandha Kumar (PSNA College of Engineering & Technology, India)</i>	
Youtube Transcript Summarizer	891
<i>Vijaya Babu Panthagani (Vignan's Foundation for Science Technology and Research, India), Vijaya Deepika Reddy Duggempudi (Vignan's Foundation for Science Technology and Research, India), Naga Lakshmi Kommera (Vignan's Foundation for Science Technology and Research, India), and Nikhita Vakkalagadda (Vignan's Foundation for Science Technology and Research, India)</i>	
Author Index	899