

2024 International Conference on Social and Sustainable Innovations in Technology and Engineering (SASI-ITE 2024)

**Tadepalligudem, India
23-25 February 2024**



**IEEE Catalog Number: CFP24DZ2-POD
ISBN: 979-8-3503-6080-6**

**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:	CFP24DZ2-POD
ISBN (Print-On-Demand):	979-8-3503-6080-6
ISBN (Online):	979-8-3503-6079-0

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 International Conference on Social and Sustainable Innovations in Technology and Engineering (SASI-ITE) **SASI-ITE 2024**

Table of Contents

SASI-ITE 2024

Classification of Maternal Health Risk Factors Using Machine Learning Approach	1
<i>Md. Abdulla-Hil-Kafi (Daffodil International University, Bangladesh), Md. Alif Sheakh (Daffodil International University, Bangladesh), Marufa Akter Oishe (Daffodil International University, Bangladesh), Md Moynul Islam (Daffodil International University, Bangladesh), Md. Musfiqur Rahman Foysal (Daffodil International University, Bangladesh), and Tausif Sarwar (Daffodil International University, Bangladesh)</i>	
Return Loss Prediction of Square Patch Antenna with Defective Ground Structure for RF Energy Harvesting in Smart Cities using ANN	8
<i>Bujjibabu Nannepaga (Sri Venkateswara University, India) and Varadarajan S. (Sri Venkateswara University, India)</i>	
Supervised Machine Learning Approaches to Identify the False and True News from Social Media Data	15
<i>Md Rezwane Sadik (University of South Dakota, United States), Md Masum Rana (University of South Dakota, United States), Lima Akter (Atish Dipankar University of Science & Technology, Bangladesh), Rafiul Islam (Daffodil International University, Bangladesh), Md. Hasanur Rahman (Daffodil International University, Bangladesh), and Md. Musfiqur Rahman Foysal (Daffodil International University, Bangladesh)</i>	

Utilization of Copper Slag in Developing Slag-Based Ultra-High-Performance Concrete	22
<i>Sathyannarayanan M (Thiagarajar College of Engineering, India) and Brindha D (Thiagarajar College of Engineering, India)</i>	
Prediction of Performance-Emission Profile with Varying Nozzle Injection Pressures of a Diesel-Biodiesel Fueled Diesel Engine by Adopting Artificial Neural Networks	29
<i>Kiran Kumar Billa (Sasi Institute of Technology and Engineering, India) and Krishna Murthy B (Sasi Institute of Technology and Engineering, India)</i>	
Securing Smart Cities: AI-Driven Video Injection Attack Detection for Enhanced Urban Surveillance	36
<i>Aditya Bhardwaj (Chitkara University, India), Sharad Shyam Ojha (Software Development Manager, United States), and Rajat Dubey (Cybersecurity Expert, Allianz Commercial, United States)</i>	
GSE and GWE Techniques to Improve ON (ION) Current and Ambipolar Conduction of Tunnel FET (TFET) Device	43
<i>Nagendra Reddy Nelaturi (SASTRA University, India), Deepak Kumar Panda (Amrita Vishwa Vidyapeetham, Amaravati Campus, India), Rajesh Kommalapati (Bapatla Engineering College, India), Jayalakshmi Bitra (VIT-AP University, India), Srinivasa Rao Goli (VFSTR Deemed to be University, India), and Sarankumar Ramasamy (Karpagam College of Engineering, India)</i>	
A Review on Facial Emotion Recognition of Subjects using Deep Learning Techniques	48
<i>P. Siva Kumar (Sasi Institute of Technology & Engineering, India), M. Nikhil (Sasi Institute of Technology & Engineering, India), P.H.S. Rudresh (Sasi Institute of Technology & Engineering, India), K. Sai Kiran (Sasi Institute of Technology & Engineering, India), K. Charan (Sasi Institute of Technology & Engineering, India), and Prasad K.S.N (Sasi Institute of Technology & Engineering, India)</i>	
Classifying and Predicting Covid-19 During Pregnancy using RNN and ML Techniques	54
<i>S.V. Divya (V.S.B College of Engineering Technical Campus, India), P. Venkadesh (V.S.B College of Engineering Technical Campus, India), K.V. Shiny (Bharath Institute of Higher Education and Research, India), S. Ninisha Nels (Noorul Islam Centre for Higher Education, India), and A. Prasanth (Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, India)</i>	
Optimizing Vehicle-to-Vehicle (V2V) Communication Efficiency with KNN-Based Dynamic Time Slot Allocation	60
<i>N Devakirubai (R P Sarathy Institute of Technology, India), Anitha Velu (Sri Sairam College of Engineering, India), D Sumathi (Alliance University, India), and A Prasanth (Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India)</i>	

The Impact of the Mixed Load Model on the Placement and Sizing of Distributed Generation (DG) in a Radial Distribution Network	66
<i>G. Manikanta (Dayananda Sagar College of Engineering, Bengaluru), Ashish Mani (Amity University, India), Madhu Valavala (Swarnandhra College of Engineering & Technology, Narsapur), Shruti Gunaga (Dayananda Sagar College of Engineering, Bengaluru), Sujith Kumar (Dayananda Sagar College of Engineering, Bengaluru), N. Kiran Kumar (M S Ramaiah Institute of Technology, Bengaluru), Suchana Misra (Dayananda Sagar College of Engineering, Bengaluru), and K Durga Rao (Avanathi Institute of Engineering and Technology, Visakhapatnam)</i>	
Human Activity Recognition with CNN in FastAI	72
<i>Naga Srinivasu Paroathaneni (Prasad V Potluri Siddhartha Institute of Technology, India), Rahul Karthik Bonu (Prasad V Potluri Siddhartha Institute of Technology, India), Naga Chaitanya A J K (Prasad V Potluri Siddhartha Institute of Technology, India), Sivaraju Bolliboynna (Prasad V Potluri Siddhartha Institute of Technology, India), Deepak Galinki (Prasad V Potluri Siddhartha Institute of Technology, India), and Venkata Sivamani Kumar Abbineni (Prasad V Potluri Siddhartha Institute of Technology, India)</i>	
A Comprehensive Survey on IPv6 Over Low Power Wireless Personal Area Networks (6LoWPAN)	78
<i>Lakshmi Veenadhari Ch (Puducherry Technological University, India) and Selvaradjou Kandasamy (Puducherry Technological University, India)</i>	
Audio Feedback through Realtime Object Detection using Yolov5	84
<i>P. Nagamani (Godavari Institute of Engineering & Technology(A)), V. Venkata Anusha (Godavari Institute of Engineering & Technology(A)), Md. Shabeena (Godavari Institute of Engineering & Technology(A)), B. Srinivas Raja (Godavari Institute of Engineering & Technology(A)), T. Niteesh Kumar (Godavari Institute of Engineering & Technology(A)), and G. Durga Prasad (Godavari Institute of Engineering & Technology(A))</i>	
Review on Charging Methods and Electric Drive Solutions for Electric Vehicles in India	90
<i>Chakravarthy B K (CVR College of Engineering, India), G. Sree Lakshmi (CVR College of Engineering, India), and Vinodh Kumar P (CVR College of Engineering, India)</i>	
Augmented Insights: A Qualified Evaluation of Deep Learning Representations for Enhancing Banana Leaf Spot Disease Detection	96
<i>Kanaga Priya P (KPR Institute of Engineering and Technology, India), Vinu M.S (Nehru Institute of Engineering and Technology, India), Jeevitha S.V (Bannari Amman Institute of Technology, India), Rathina Kumar N (Nehru Institute of Engineering and Technology, India), Kanimozhi N (Kongu Engineering College, India), and Jayachitra S (PSNA College of Engineering and Technology, India)</i>	
DeepRiceTransfer: Exploiting CNN Transfer Learning for Effective Rice Variety Classification	102
<i>Kanaga Priya P (KPR Institute of Engineering and Technology, India), Kirupa P (SNS College of Engineering, India), Thilakaveni P (PSG Polytechnic College, India), Nisha Devi K (Bannari Amman Institute of Technology, India), Mahabooba M (Nehru Institute of Engineering and Technology, India), and Jayachitra S (PSNA College of Engineering and Technology, India)</i>	

Gain Enhancement of Circularly Polarized MIMO Antenna for WLAN/ZigBee/Bluetooth Applications	108
<i>Surendrakumar Painam (Acharya Nagarjuna University, India), Kommalapati Rajesh (Acharya Nagarjuna University, India), Karuna Medikonda (Acharya Nagarjuna University, India), Ppm Prasad (Acharya Nagarjuna University, India), T. Krishna Chaitanya (Acharya Nagarjuna University, India), and Dasari Swetha (Acharya Nagarjuna University, India; GITAM University, India)</i>	
Power Enhancement of Renewable Energy- Based Generation System Using UPQC	113
<i>Shravani Chapala (CVR College of Engineering, India), Sree Lakshmi G (CVR College of Engineering, India), and M. Lakshmi Swarupa (CVR College of Engineering, India)</i>	
Cognitive Grasp: A Robotic Arm Responding to Human Muscle Intent	119
<i>Selvakumar N (SNS College of Technology, India), Kanaga Priya P (KPR Institute of Engineering and Technology, India), Ranjani C T (SNS College of Technology, India), Ramani LakshmiPriya J (SNS College of Technology, India), Priya S (Nehru Institute of Engineering and Technology, India), and Jayachitra S (PSNA College of Engineering and Technology, India)</i>	
Building Tomorrow: Navigating Sustainable Construction with Artificial Intelligence	125
<i>Revathi Pasupuleti (Mohan Babu University, India), Eswara Reddy Orekanti (Mohan Babu University, India), and B Narendra Kumar Rao (Mohan Babu University, India)</i>	
Integrated Machine Learning Paradigms with Simulation Based Mathematical Modeling for Dengue Fever	131
<i>Dheva Rajan S (University of Technology and Applied Sciences Al Musannah, Oman)</i>	
A Review on Classification and Performance Analysis of Wideband Low Noise Amplifier	137
<i>Snehalatha J. (Anurag University, India) and Ashish Singh (Anurag university, India)</i>	
Chromatic Logical Fusion for Road Feature Extraction in VHR-RGB Satellite Images	141
<i>M. K. Linga Murthy (Sri Venkateswara University College of Engineering, Sri Venkateswara University, India) and G. Umamaheswara Reddy (Sri Venkateswara University College of Engineering, Sri Venkateswara University, India)</i>	
Automated Hypertensive Retinopathy Detection Method Using Deep Learning	147
<i>Nampalli Sai Yashwanth (Vardhaman College of Engineering, India), Kachi Anvesh (Vardhaman College of Engineering, India), Puttapaka Varshitha (Vardhaman College of Engineering, India), and Y Varun Prasad (Vardhaman College of Engineering, India)</i>	
Design of Novel Cross-Tied Trinary Sequence Multilevel Inverter	152
<i>Hemanth Kumar Raju Alluri (National Institute of Technology, India; SRKR Engineering College Bhimavaram), Venugopal Reddy Barry (National Institute of Technology Goa, India), and Harish Kumar Varma Gadiraju (SRKR Engineering College, India; SRKR Engineering College Bhimavaram)</i>	

Simulation of V2G to Home Power Interface using ANN Voltage Control Technology	157
<i>G. Sree Lakshmi (CVR College of Engineering, India), Vinodh Kumar P (CVR College of Engineering, India), and Nameera Khatoon (CVR College of Engineering, India)</i>	
An Improved Electrocardiogram Classification using Pre Trained Convolutional Neural Networks	163
<i>Pinjala N Malleswari (Sasi Institute of Technology and Engineering, India), Rajeswara Mahidar P (Sasi Institute of Technology and Engineering, India), Tulasi Routula (Sasi Institute of Technology and Engineering, India), Seelam Kalyani (Sasi Institute of Technology and Engineering, India), and Madipalli Gowri Shankar (Sasi Institute of Technology and Engineering, India)</i>	
DC Microgrid Technology: Study on DC Microgrid Bus Configurations and Architectures for Rural Electrification and a Proposed DC Microgrid Architecture	168
<i>M. Rajitha (CVR College of Engineering, India) and Raghu Ram A. (JNTUH University College of Engineering, Science & Technology, India)</i>	
Fault Tolerant Control for UPQC using ANN	174
<i>Naveena Bhargavi Repalle (CVR College of Engineering, India), G. Yesuratnam (Osmania University, India), and E. Vidyasagar (Osmania University, India)</i>	
Comparative Analysis of Deep Learning Frameworks for the Classification of Brain Tumors	180
<i>Pinjala N Malleswari (Sasi Institute of Technology and Engineering, India), Sivadurga Rao Parasa (Sasi Institute of Technology and Engineering, India), Matta Venkata Pullarao (Sasi Institute of Technology and Engineering, India), Velagala Dhanalakshmi (Sasi Institute of Technology and Engineering, India), and Thota Sravani (Sasi Institute of Technology and Engineering, India)</i>	
A Global Perspective on Tourism and Hospitality Education and SDG 4: A Bibliometric Exploration	186
<i>Dilip Kumar (Welcomgroup Graduate School of Hotel Administration, Manipal Academy of Higher Education, India), Abhinav Kumar Shandilya (Birla Institute of Technology, India), and Vaibhav Bhardwaj (Welcomgroup Graduate School of Hotel Administration, Manipal Academy of Higher Education, India)</i>	
A Bibliometric Analysis of Digitalisation in the Tourism & Hospitality Industry	192
<i>Dilip Kumar (Welcomgroup Graduate School of Hotel Administration, Manipal Academy of Higher Education, India), Abhinav Kumar Shandilya (Birla Institute of Technology, India), Ashish Kumar Kestwal (Welcomgroup Graduate School of Hotel Administration, Manipal Academy of Higher Education, India), Rohit Singh (Centre of Management Education, All India Management Association, India), Sajjan Choudhuri (SRM University, India), and Deepak Kumar (SRM Institute of Science and Technology NCR Campus, India)</i>	
Artificial Intelligence Based Wheeled Fire Fighting Robot with A Fire Extinguishing, Ball-Shooting Turret for Forest Areas	198
<i>Bhavana Ch (Siddhartha Institute of Technology & Sciences, India), Venkatesh Thota (Siddhartha Institute of Technology & Sciences, India), and Srinivas Bachu (Siddhartha Institute of Technology & Sciences, India)</i>	

Design and Analysis of Approximate Compressors for Balanced Error Accumulation in MAC Operator	204
<i>Anil Kumar Alugoju (Siddhartha Institute of Technology & Sciences, India) and Sumalatha Madipalli (Siddhartha Institute of Technology & Sciences, India)</i>	
Low-Power Ternary Multiplication using Approximate Computing	208
<i>Nagesh Gode (Siddhartha Institute of Technology & Sciences, India) and Sumalatha Madipalli (Siddhartha Institute of Technology & Sciences, India)</i>	
An Advanced Integration Strategy for a DSWIG Based WES and DSPVS in a Typical Microgrid Network	213
<i>N S D Prakash Korlepara (Annamalai University, India), Elenchezian E. B. (Annamalai University Chidambaram, India), and S. Pragaspathy (Vishnu Institute of Technology Bhimavaram, India)</i>	
Revealing Image Deepfakes: A Convolutional Neural Network Approach Leveraging Vgg-16 Mode ...	219
<i>Ajay Kumar V (Godavari Institute of Engineering & Technology(A), India), Sujatha Birudu (Godavari Institute of Engineering & Technology(A), India), Sirisha K (Godavari Institute of Engineering & Technology(A), India), Chaitanya Mouli B (Godavari Institute of Engineering & Technology(A), India), Hemanth K (Godavari Institute of Engineering & Technology(A), India), and Adesh P (Godavari Institute of Engineering & Technology(A), India)</i>	
Comparative Performance Analysis of Buck-Boost, SEPIC and Zeta Converters for Active Cell Balancing in EV Batteries	224
<i>Palle Bhanu (National Institute of Technology Andhra Pradesh, India), Kuchipudi Deekshitha (National Institute of Technology Andhra Pradesh, India), Velumuri Jayanth (National Institute of Technology Andhra Pradesh, India), and V. Sandeep (National Institute of Technology Andhra Pradesh, India)</i>	
Vector Control of Vienna Rectifier for DC Fast Electric Vehicle Supply Equipment	230
<i>Mayank Kumar Sain (National Institute of Technology Andhra Pradesh, India), Sanchit Singh (National Institute of Technology Andhra Pradesh, India), Harshita Gupta (National Institute of Technology Andhra Pradesh, India), Nirnimesh Bhati (National Institute of Technology Andhra Pradesh, India), and V. Sandeep (National Institute of Technology Andhra Pradesh, India)</i>	
A Hybrid Segmentation Method BCOT for Skin Lesion Detection	236
<i>P. Harish (Annamacharya Institute of Technology & Sciences, India), N. Vaishnavi (Annamacharya Institute of Technology & Sciences, India), P. Shashanka (Annamacharya Institute of Technology & Sciences, India), P. Vijitha (Annamacharya Institute of Technology & Sciences, India), and V. Yaswitha (Annamacharya Institute of Technology & Sciences, India)</i>	
Enhancing MR Perfusion Analysis: Advanced Multi-Echo Time Tuning and Contrast-to-Noise Ratio	242
<i>B. Rajeswari (Jawaharlal Nehru Technological University, India; Lakireddy Bali Reddy College of Engineering, India) and P. Abdul Khayum (Jawaharlal Nehru Technological University, India)</i>	

IoT Based Coal Mine Safety Monitoring and Alerting System	248
<i>Harivardhagini Subhadra (CVR College of Engineering(JNTUH), India) and Sreelatha Reddy Vakiti (CVR College of Engineering(JNTUH), India)</i>	
Recognition of Ancient Tamil Brahmi Symbols and Notations Using ELM-ISMO Algorithm	254
<i>Naresh Kumar A (Sri Sairam Engineering College, India) and Geetha G. (Anna University, India)</i>	
Analyzing the Effect of Contrast Enhancement Techniques on Chest X-Ray Classification using Deep Learners	260
<i>Ananya Mallick (Jadavpur University, India), Nilotpal Das (Jadavpur University, India), and Monisha Chakraborty (Jadavpur University, India)</i>	
Novel Approach for the Extraction of Keywords from Text Document	266
<i>R.N. Kulkarni (Ballari Institute of Technology & Management, Ballari) and Swetha Koduri (VTU Belagavi, Malla Reddy College of Engineering and Technology, India)</i>	
Review of Semantic Segmentation by Using Deep Learning Methods	272
<i>B. Rajeswari (Lakireddy Bali Reddy College of Engineering, India), J. Mani Ram (Lakireddy Bali Reddy College of Engineering, India), D. V. T. Praveen Kumar (Lakireddy Bali Reddy College of Engineering, India), and Kl. V. V. Harshith (Lakireddy Bali Reddy College of Engineering, India)</i>	
A Critical Review on Charging Infrastructure and Standards Intended for Wireless Charging of EVs	278
<i>Kavitha Merugu (QIS College of Engineering and Technology, India), Mohan Reddy D. (BEST Innovation University, India), P. Hemachandu (Sasi Institute of Technology & Engineering, India), and Kalyan Chakravarthy N.S. (QIS College of Engineering and Technology, India)</i>	
A Review on the Various Methods for Classifying Skin Cancer	284
<i>Suresh Annepu (Sasi Institute of Technology and Engineering, India), Sampada Saidhu (Sasi Institute of Technology and Engineering, India), Jyothsna Vurla (Sasi Institute of Technology and Engineering, India), Rakesh Kare (Sasi Institute of Technology and Engineering, India), Suresh Koyye (Sasi Institute of Technology and Engineering, India), and Siva Kumar P (Sasi Institute of Technology and Engineering, India)</i>	
A Review of Advancements in Facial Emotion Recognition and Detection Using Deep Learning ...	290
<i>Harika Rajana (Sasi Institute of Technology and Engineering, India), Uday T. (Sasi Institute of Technology and Engineering, India), Lalitha Sirisha M. (Sasi Institute of Technology and Engineering, India), Sri Lakshmi Sahitya M. (Sasi Institute of Technology and Engineering, India), Druganjali K (Sasi Institute of Technology and Engineering, India), and Satya Srinivas M. (Sasi Institute of Technology and Engineering, India)</i>	
Robust Deep Learning Models for Wildlife Detection: Adapting to Varying Environmental Conditions	296
<i>Johnwesily Chappidi (VIT-AP University, India) and Divya Meena Sundaram (VIT-AP University, India)</i>	

Frequency Reconfigurable Two-Port Antenna for Multi-Band Wireless Applications	301
<i>D Ramesh Varma (Shri Vishnu Engineering College for Women, India), M. Venkata Subbarao (Shri Vishnu Engineering College for Women, India), G. Challa Ram (Shri Vishnu Engineering College for Women, India), T Naga Sharmila (Shri Vishnu Engineering College for Women, India), Madhu N (Shri Vishnu Engineering College for Women, India), and Sudheer Kumar T. (Shri Vishnu Engineering College for Women, India)</i>	
A Review on Student Performance Prediction Based on Machine Learning Techniques	307
<i>Narendra Krishna Meka (VFSTR Deemed to be University, India) and Veeranjaneyulu N. (VFSTR Deemed to be University, India)</i>	
Study on the Webpage Properties and Prediction using Google	311
<i>S. Sudha Tushara (Georgia State University, USA) and Sudaran Sadasivuni (Intel Corporation, USA)</i>	
A Review on Helmet Detection of Motorcyclists in Different Atmospheric Conditions	315
<i>Yasoda K. (Sasi Institute of Technology & Engineering, India), Revaleshan Saidu (Sasi Institute of Technology & Engineering, India), Naveen Balusu (Sasi Institute of Technology & Engineering, India), Sai Venkat Varanasi (Sasi Institute of Technology & Engineering, India), S.R.J. Adithya P. (Sasi Institute of Technology & Engineering, India), and Siva Kumar P. (Sasi Institute of Technology & Engineering, India)</i>	
An Ensemble Method for Encountering Bogus News in Social Media: A Review	321
<i>Ganga Veera Bhargavi Sanku (Sasi Institute of Technology and Engineering, India), Siva Kumar P. (Sasi Institute of Technology and Engineering, India), Mounika N. (Sasi Institute of Technology and Engineering, India), Govardhan Annammedi (Sasi Institute of Technology and Engineering, India), Suvarna Barre (Sasi Institute of Technology and Engineering, India), and Likhita Pampana (Sasi Institute of Technology and Engineering, India)</i>	
Comparative Analysis of Feature Ranking Algorithms for Erythematous-Squamous Disease Classification	327
<i>Venkata Subbarao M. (Shri Vishnu Engineering College for Women, India), Sudheer Kumar T. (Shri Vishnu Engineering College for Women, India), Naga Sharmila T. (Shri Vishnu Engineering College for Women, India), Lakshmi Praveena S. (Shri Vishnu Engineering College for Women, India), Kavitha D. N. S. B. (SRKR Engineering College, India), and Archana Pottam (Vishnu Institute of Technology, Bhimavaram, India)</i>	
Enhanced Skin Cancer Detection and Classification using Convolutional Neural Networks	333
<i>Nagavalli Vegesna (Sagi Rama Krishnam Raju Engineering College, India), Sudheer Kumar Terlapu (Shri Vishnu Engineering College for Women, India), Sri Phanindra Varma D. (Sagi Rama Krishnam Raju Engineering College, India), and Venkata Subbarao M. (Shri Vishnu Engineering College for Women, India)</i>	
Spatial-Economic Analysis for Optimal Electric Vehicle Charging Station Placement	339
<i>Akansh Maurya (n/a), Cicy Kuriakose Agnes (n/a), Bahram Khan Baloch (n/a), Saira Sohail Anwari (n/a), and Umer Butt (n/a)</i>	

A Survey on Twitter Spam Drift Detection using Machine Learning	345
<i>Venkata Durga Bhavani G. (Sasi Institute of Technology and Engineering, India), Jayasri Rama Lakshmi K. (Sasi Institute of Technology and Engineering, India), Sirisha K. (Sasi Institute of Technology and Engineering, India), Satya Jyothi K. (Sasi Institute of Technology and Engineering, India), Anantha Lakshmi M (Sasi Institute of Technology and Engineering, India), and Parthiban M (Sasi Institute of Technology and Engineering, India)</i>	
Automatic Building Detection and Recognition of Rooftops using Convolutional Neural Networks	350
<i>Sudheer Mangalampalli (VIT-AP University), Ganesh Reddy Karri (VIT-AP University), Chaithanya Kadiyala (VIT-AP University), Farhan Shaik (VIT-AP University), and Vikas D M S (VIT-AP University)</i>	
Design and Optimization of a Bandgap Voltage Reference Circuit	356
<i>Ranjani Aruna A (Anna University, India), Tamil Selvan H (Anna University, India), Kamala J (Anna University, India), and Hanuman C R S (Sasi Institute of Technology & Engineering, India)</i>	
Advanced Energy Management through FLC- Optimized Electric Vehicle Hybrid Storage Employing Batteries and Super Capacitors	361
<i>Sudhakar Poli (Mohanbabu University, India) and I Kumaraswamy (Mohanbabu University, India)</i>	
Designing Advanced Motor Bearing of Electric Vehicles (EVs) Through Applying Circular Surface Texturing and Surface Engineering Methods of Cluster Magnetorheological Finishing (CMRF) and Laser Surface Hardening (LSH)	366
<i>Abdullah Alsaqer (University of Leeds, United Kingdom), Caiqi Xu (University of Leeds, United Kingdom), Jianguo Luo (University of Leeds, United Kingdom), Pratik Hore (University of Leeds, United Kingdom), and Xuanfei Su (University of Leeds, United Kingdom)</i>	
Integrating IQ and Emotional Intelligence for Students Career Decision Making Using Machine Learning: A Review	372
<i>Sandeep Kone (Sasi Institute of Technology & Engineering, India), Haseena Mohammad (Sasi Institute of Technology & Engineering), Harsha Vardhan Yalamarthi (Sasi Institute of Technology & Engineering, India), Giri Naveen Pachipulusu (Sasi Institute of Technology & Engineering, India), and Satya Kiran Devireddy (Sasi Institute of Technology & Engineering, India)</i>	
Real-Time Accident Detection and Reporting Using the Internet of Things	378
<i>Manga Jangidi (Vignana bharathi institute of technology, India), Kiran Babu Sangeetha (Vignana bharathi institute of technology, India), Ramesh Kumar Yadav Urumundari (Vignana bharathi institute of technology, India), Sai Deepak Reddy Sammidi (Vignana bharathi institute of technology, India), and Sai Balu Vemula (Vignana bharathi institute of technology, India)</i>	
MIMO - OFDM System Performance Analysis with Systemvue	383
<i>Chandralekha R (Ramco Institute of Technology, India), SrirengaNachiyar V (Ramco Institute of Technology, India), Sivakumar G (Ramco Institute of Technology, India), Harini Shriram S (Ramco Institute of Technology, India), Pondurai M (Ramco Institute of Technology, India), and Monica S (Ramco Institute of Technolog, India)</i>	

Assessment of Sustainability of Proposed East Bypass Road of Vijayawada using Rapid Impact Assessment Matrix	389
<i>Kusuma Sundara Kumar (Bonam Venkata Chalamayya Engineering College-Odalarevu, India), Kameswari B (Bonam Venkata Chalamayya Engineering College-Odalarevu, India), Ramakoteswara Rao P (PVP siddhartha institute of technology, India), Jagadeeswara Rao Annam (CVR College of Engineering, India), Subba Rao Nv (DVR & Dr H S MIC College of Technology, India), and Saroja P.L.N. (Seshadri Rao Gudlavelleru Engineering College Gudlavelleru, India)</i>	
Multi-Objective Placement and Sizing of Multiple DGs and DSTATCOMs in Unbalanced Distribution Network using CPSOS Approach	395
<i>Rajesh Murari (Aditya College of Engineering & Technology, India) and Srinivasa Rao Rayapudi (Jawaharlal Nehru Technological University Kakinada, India)</i>	
Risk Factors Associated with Cardiovascular Disease: A Case-Control Study Based on Machine Learning	401
<i>Nagendra Setty P C S (Computer Science & Engineering Sasi Institute of Tech.& Engg., India), Vishnu Gorla (Computer Science & Engineering Sasi Institute of Tech.& Engg., India), Salma Sheik (Computer Science & Engineering Sasi Institute of Tech.& Engg., India), Sindhuja Kakarla (Computer Science & Engineering Sasi Institute of Tech.& Engg., India), Sai Anusha M B N (Computer Science & Engineering Sasi Institute of Tech.& Engg., India), and Siva Kumar Smieeee P (Computer Science & Engineering Sasi Institute of Tech.& Engg., India)</i>	
Enhancing Power System Security: Neural Network Approaches for Quick and Robust Static Evaluation	407
<i>P. Venkatesh (Mohan Babu University, India), D. Naga Praharshini (Sree Vidyanikethan Engineering College, India), S. Bhanu Prakash (Sree Vidyanikethan Engineering College, India), V. Ramananda Achari (Sree Vidyanikethan Engineering College, India), C. Giridhar (Sree Vidyanikethan Engineering College, India), and P. Venu Gopal Reddy (Sree Vidyanikethan Engineering College, India)</i>	
Secondary Batteries for Sustainable Energy: A Comprehensive Review of the Indian Landscape.....	413
<i>Ditipriya Bose (National Institute of Solar Energy, India), Aman Gupta (Aligarh Muslim University, India), Sandeep Tiwari (National Institute of Solar Energy, India), Deepak Yadav (National Institute of Solar Energy, India), and Vikrant Sharma (National Institute of Solar Energy, India)</i>	
Offline Signature Verification with Autoencoder-CNN Hybrid Feature Extraction for Improved Fake Signature Detection	418
<i>Narasimha Swamy Biyyapu (Prasad V Potluri Siddhartha Institute of Technology, India), Lokesh Sai Kumar D (Prasad V Potluri Siddhartha Institute of Technology, India), Lalitha Shiva Jyothi Ketha (Prasad V Potluri Siddhartha Institute of Technology, India), Vijaya Harika Maddipati (Prasad V Potluri Siddhartha Institute of Technology, India), Gowthami Kancharla (Prasad V Potluri Siddhartha Institute of Technology, India), and Rahul Karthik B (Prasad V Potluri Siddhartha Institute of Technology, India)</i>	

Design of Wearable Patch Antenna Using Wireless Body Area Networks – Review	424
<i>Siva Sankara Rao Mudraboyina (lakireddy bali reddy college of engineering, India), Sandeep Maturi (lakireddy bali reddy college of engineering, India), Vanaja Dunaka (lakireddy bali reddy college of engineering, India), and Goddalla RamCharan (lakireddy bali reddy college of engineering, India)</i>	
Implementation of Artificial Intelligence and Line Optimization Algorithm Based Multi-Level Inverter for Grid Tied PV System	427
<i>Shiva Kumar Pulluri (Kalingaa Institute of Industrial Technology), Subrat Kumar Barik (Kalingaa Institute of Industrial Technology), and Shiva Kuma Pulluri (Institute of Aeronautical Engineering)</i>	
AGRIFOG: Fog-Assisted IOT Enabled Agriculture Monitoring System	433
<i>Prashanth Ragam (Vellore Institute Of Technology, India), Hemanth Katikala Muniraj (Vellore Institute Of Technology, India), Parvathi Primilla (Vellore Institute Of Technology, India), Lakshmi Pranathi Chunchu (Vellore Institute Of Technology, India), Kavinesh K (Vellore Institute Of Technology, India), and Ajith Jubilson E (Vellore Institute Of Technology, India)</i>	
An Optimized Path Planning Technique in a Static Environment for Computer Vision Applications	438
<i>Gurram Thirumalaiah (AITS: Rajampet, India), Omkaram Subbaraju (AITS: Rajampet, India), Gundam Swarnalatha (AITS: Rajampet, India), Manchanuru Sree Teja (AITS: Rajampet, India), and Vemireddy Prudhvi Narayana Reddy (AITS: Rajampet, India)</i>	
Author Index	445