

2024 4th International Conference on Intelligent Technologies (CONIT 2024)

**Bangalore, India
21-23 June 2024**

Pages 1-768



**IEEE Catalog Number: CFP24Z03-POD
ISBN: 979-8-3503-4991-7**

**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:	CFP24Z03-POD
ISBN (Print-On-Demand):	979-8-3503-4991-7
ISBN (Online):	979-8-3503-4990-0

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

TABLE OF CONTENTS

<p>Synergistic Genomic Profiling and Predictive Modeling for Health Outcome Anticipation: A Holistic Strategy Leveraging Gene Expression Analysis</p> <p style="padding-left: 20px;"><i>Nerella Venkata Anil Rama Krishna, Vicharapu Devendra, Dogiparthi Leela Krishna, Godavari Srikanth, D Haritha</i></p>	1
<p>Multimodal Fusion for Brain Medical Image Segmentation Using MMSegNet.....</p> <p style="padding-left: 20px;"><i>Shreeram Sankar, D V Santhosh Kumar, P Kumar, M Rakesh Kumar</i></p>	6
<p>GlucTeleAI: ML-Assisted Preliminary Diabetes Assessment Framework for Telemedicine Systems.....</p> <p style="padding-left: 20px;"><i>Jay Patel, Chinmay Trivedi, Krisha Darji, Rajesh Gupta, Sudeep Tanwar</i></p>	17
<p>TL-AGRO: Transfer Learning-based Perilous Insect Detection Framework for Smart Agriculture Underlying Edge Computing.....</p> <p style="padding-left: 20px;"><i>Fenil Ramoliya, Krisha Darji, Riya Kakkar, Rajesh Gupta, Sudeep Tanwar, Smita Agrawal</i></p>	23
<p>Simulation of EV Battery and Its Optimum Design Components.....</p> <p style="padding-left: 20px;"><i>Vishal Pandwar, Manjeet Singh, Md Asif Karim Bhuiyan, Surinder Chauhan</i></p>	29
<p>Neural Network Modelling, Testing, and Simulation Study of an Autonomous Vehicle Using the Udacity Simulator.....</p> <p style="padding-left: 20px;"><i>Vinit Sinha, Amal Barman</i></p>	35
<p>Optimizing Cargo Ship Operational Costs: A Comprehensive Algorithmic Approach</p> <p style="padding-left: 20px;"><i>Kuruva Divya Sree, Geethika Gunti, Nizampatnam Neelima, K. V. Nagaraja</i></p>	46
<p>A Novel Approach to Mitigating Traffic Issues Through Advanced Congest Detection and Adaptive Signal Control Using AI.....</p> <p style="padding-left: 20px;"><i>G. Vishnu Priya, B. Shyamala Gowri, B. Rajalakshmi, L Dilli Kumar, Us Janagan, Rv Sudhir</i></p>	52
<p>Deep Learning-Based Classification of Cervical Cancer Using Pap Smear Images</p> <p style="padding-left: 20px;"><i>Anushree Goswami, Neelankit Gautam Goswami, Niranjana Sampathila</i></p>	57
<p>Advancing Fake Profile Detection: A Machine Learning Perspective</p> <p style="padding-left: 20px;"><i>Bharti Goyal, Nasib Singh Gill, Preeti Gulia</i></p>	63
<p>From Pixels to Prognosis: Exploring from UNet to Segment Anything in Mammogram Image Processing for Tumor Segmentation.....</p> <p style="padding-left: 20px;"><i>M R Hithesh, Vishwanath Kadaba Puttanna</i></p>	71
<p>Autonomous Detection of Landing Pad in Challenging Terrains for Precise Areal Supply</p> <p style="padding-left: 20px;"><i>Jagadeesh Pradhani, Neha. D, N. M. Nandita, V. V. Hosallimath</i></p>	78
<p>Computational Approach for Halegannada to Hosagannada Poem Translation</p> <p style="padding-left: 20px;"><i>A C Harsha, Toukheer Baig, Laxmikant Bhujang Gurav, Mahesh Shripad Bhat, Surabhi Narayan</i></p>	84
<p>Yummy YOLO: A Deep Learning Approach Towards Indian Culinary Classification</p> <p style="padding-left: 20px;"><i>Maithili Abhijit Mandavkar, Harsha D Hattarki, Vishnu V Nadagoudar, Kaushik Mallibhat, Nalini C Iyer</i></p>	90
<p>Comprehensive Analysis of Machine and Deep Learning Models for Breast Cancer Diagnosis and Risk Assessment with Diverse Datasets</p> <p style="padding-left: 20px;"><i>Rajon Dash, Md Saidur Rahman Kohinoor, Promise Ghosh Chowdhury</i></p>	97

Enhancing Green Bean Anthracnose Severity Detection Via Integrated CNN-LSTM Models	104
<i>Nikhil Dhawan, Rishabh Sharma, Saumitra Chattopadhyay, Ankur Choudhary, Vishal Jain</i>	
Enhanced Traffic Sign Recognition Using Advanced YOLOv8 Model	108
<i>Nishant Choudhary, Rishabh Sharma, Deepak Upadhyay, Aditya Verma, Vishal Jain</i>	
Enhanced Classification of Intel Images Using Refined EfficientNet and MobileNetV2 Frameworks	112
<i>Raghav Jain, Rishabh Sharma, Devesh Tiwari, Kireet Joshi, Vishal Jain</i>	
Optimized VGG16 Model for Advanced Classification of Cotton Leaf Diseases	116
<i>Nikhil Walia, Rishabh Sharma, Mukesh Kumar, Ankur Choudhary, Vishal Jain</i>	
AI-Enhanced Lung Cancer Detection Using the ResNext50 Architecture	120
<i>Om Garg, Rishabh Sharma, Saumitra Chattopadhyay, Aditya Verma, Vishal Jain</i>	
A Machine Learning Based Auto-Grading Model for Question-Based Algebra Problems Using RoBERTa	124
<i>N. A Vidula, T. Anisha Reddy, Sodum Manogna, Roshni M Balakrishnan, Peeta Basa Pati</i>	
Behavioral Diversity and Individuality in Simulated Agents	130
<i>Nirmith Puneet, Rituparna Bali, P C. Nissimagoudar</i>	
Metagenomic Face: Applying Machine Learning to Facial Microbiome Data for Pattern Recognition and Disease Classification	137
<i>M S Guru Prasad, Raghavendra M Devadas, Vani Hiremani, Afsar Jahan, J Praveen Gujjar, Aryan Dahiya</i>	
Comparison of Machine Learning Models for Chronic Kidney Disease Prediction Using UCI Dataset	141
<i>Mrunali S. Sonwalkar, Sharvari C. Tamane</i>	
Statistical Perspectives in Machine Learning for Crop Recommendations	147
<i>P Sricharani, A Sai Sruthi, A Sai Lakshmi Sirisha, M Sravya, A Gowthami Satya Sree, D Nandini</i>	
Transcranial Acoustoelectric of Functional Brain Activity Extraction Based on Internet of Things	153
<i>Biresh Kumar, Rupali Sinha, Pallab Banerjee</i>	
Job Candidate Eligibility Prediction Using Convolutional Neural Network	159
<i>Mayank Kumar Shaw, Prianka Dey, Sagarika Chowdhury, Tanmoy Ghosh</i>	
User-Driven Relevant News Update System (U.R.A.N.U.S)	165
<i>Rhea Sharma, Ishaan Sharma, Siddharth Kumar, Shrinivas H, Aditi Bhardwaj</i>	
Approximate Binary Stacking Counters for Error Tolerant Computing Multipliers	172
<i>A Balamanikandan, N Ashokkumar, A Arunraja, L James Periyannayagam, Anston Peter Pereira, Jennifer Pearlina Lobo</i>	
Safeguarding Log Data Integrity: Employing DES Encryption Against Manipulation Attempts	177
<i>Sunitha Maddhi, Ratnam Dodda, T. Layaaraj, C. Raghavendra</i>	
Deep Learning in the Detection of Chronic Kidney Disease	181
<i>A Balamanikandan, M Saravanakumar, Sudharsan Gunasekaran, Vasiha Anjum, P Gurusamy, N Ashokkumar</i>	

Deep Learning for Enhanced Detection and Characterization of Pulmonary Nodules.....	187
<i>G Lavanya, M Muthulakshmi, Manohar Latha, A Keerthinathan, P Vishal Krishh, Sheba Sulthana, Meka Kavya Uma Meghana</i>	
LSTM Based Stock Price Prediction on Daily Charts	194
<i>Pravan Sikhakolli, Chalasani Manideep, Reminsetti Rajyalakshmi, Devineni Sri Sindhura, Anuj Deshpande</i>	
Real Time Monitoring of Engine Parameters for Enhanced Vehicle Performance	200
<i>Yogita Dubey, Khushal Damahe, Usha Ambule, Sanskruti Alone, Tanaya Deshpande, Prashant Sule</i>	
OpenCV-Enabled Gesture Control for Smart Devices: A User-Centric Approach	205
<i>Priyanka Devi, Shivani Chadha, Saumyamani Bhardwaz</i>	
Level Shifted Phase Disposition PWM Control for Quadra Boost Multi Level Inverter	209
<i>Geno Peter, Vijayakumar Arun, Albert Alexander Stonier, K Praghash, J Jency Rubia, Samat Iderus</i>	
Nine Level Quadra Boost Inverter with Modified Level Shifted Pulse Width Modulation Technique	214
<i>Geno Peter, Vijayakumar Arun, Albert Alexander Stonier, K Praghash, J Jency Rubia, Samat Iderus</i>	
A Standardized Method for Identifying and Categorizing Ladyfinger Diseases	220
<i>Vishesh Tanwar, Vatsala Anand, Rahul Chauhan, Mukesh Singh</i>	
Classification of Cauliflower Leaf Diseases Was Accomplished with a High Degree of Accuracy Using the CNN-SVM Approach.....	225
<i>Vishesh Tanwar, Vatsala Anand, Deepak Upadhyay, Mukesh Singh</i>	
Enhancing Electric Vehicle Efficiency Through an ANFIS Controller-Driven Energy Management System	230
<i>Sundeepp Siddula, Vallala Yashwanth, Bhavani Vadlakonda, Chaithanya Kumar Vungarala, Raju Pathi</i>	
U-NET Based Camouflaged Object Detection	236
<i>Sonal Karne, Sahana Jamkhandi, Renuka Ganiger, Apoorva Patil, V K Nidhi, Kavita Chachadi</i>	
Transforming Senior Care: Constructing a Mobile Chatbot-Based Personalized Healthcare System for Elderly Support.....	241
<i>D Kavitha, P Indumathy, N Nandhini, S Nandhitha, V S Radhika Devi</i>	
Wheat Disease Recognition: A Multi-Model Analysis with Customized CNN and Transfer Learning Enhanced by Explainable AI Techniques with LIME and Grad-CAM.....	247
<i>Sneha, H K Ruchitha, Ashwini Kodipalli, Trupthi Rao</i>	
Enhancing Alpha Thalassemia Screening: A Comparative Study of Multiple Machine Learning Classifiers and Interpretation Using Explainable AI	255
<i>M Bharath, S Gowtham, Ashwini Kodipalli, Trupthi Rao</i>	
Asteroid Hazard Assessment: Optimizing ExtraTrees with RandomizedSearch CV and SHAP Explainable AI.....	262
<i>Saroj S Patil, N Shaam, Ashwini Kodipalli, Trupthi Rao</i>	
Patient Risk Classification Based on Vital Signs Using Machine Learning Algorithm.....	267
<i>Savithri Prabhu, G. Muralidhar Bairy, Niranjana Sampathila, Krishnaraj Chadaga</i>	

Smart Shopping Cart	272
<i>Adhishree Dhawde, Pravesh Fating, Sameer Yadav, Kshitij Sawarkar, Mridula Korde</i>	
Advancing Named Entity Recognition with Gazetteer and Transformer-Based Language Model for Hindi.....	277
<i>Sumit Singh, Pankaj Kumar Goyal, Uma Shanker Tiwary</i>	
Transforming Sign Language Through Innovations in Machine Vision.....	282
<i>M Carmel Sobia, A Geetha, N Jeeva Krithika, A Briskilla Merlin, S Gunadevi</i>	
Implementation of Neural Network Using Posit Arithmetic Circuits.....	287
<i>Anwasha Borah, Lintile Lisa Saju, Augusta Sophy Beulet P</i>	
Automatic Detection and Analysis of Concrete Cracks Using YOLO	292
<i>C P Pavan Kumar Hota, Vvnls Sowjanya, G Ramya Sree, K Neeharika, G Supritha</i>	
Development of a Method for the Evaluation of Linear Time-Invariant Systems with Time-Varying Parameters Using Laplace Transform Techniques.....	298
<i>S. M. Razibur Rahman</i>	
Low Power and High-Speed ECG Compression Using Dynamic Threshold.....	305
<i>L. Naga Sai Gayathri Priya, P. Swetha, V. Venkata Kiran, Nagarjuna Malladhi, K. Narsimha Reddy</i>	
Caption Driven Video Event Detection	311
<i>Prathamesh Bhadane, Pratik Bhil, Atharv Dhup, Ankita K. Patel</i>	
Design of an Efficient Model for Enhanced Liver and Tumor Segmentation Using Advanced Deep Learning Techniques.....	317
<i>Shashi Rathore, Parul Sahare</i>	
Security Analysis of Two Authentication and Key Agreement Protocols Based on Multi-Server Architecture	323
<i>N V S S Prabhakar, Surendra Talari, Srinivas Jangirala, Prasad Vangapa</i>	
Body Weight Prediction of Goats: A Computer Vision Approach.....	330
<i>M Muthulakshmi, M Akashvarma, G Yashaswini, E Keerthana, S Siddharth, K Saipooja, P Selvaraj</i>	
Fruits Classification and Shelf-Life Prediction Using CNN.....	336
<i>Venkatesh Joshi, Mahesh More, Tanay Kolhe, Vaibhav B. Vaijapurkar</i>	
Deep Learning Based Chatbot Utility to Assist Employees in Identifying the Safety Risks Based on the Classification of the Industry Incidents	344
<i>M. Santhoshi, Chillakoori Sri Likhita, H L Shilpashree</i>	
Deep Convolutional Neural Network for Improving Intrusion Detection. a Spectrogram Based NIDS Framework.....	351
<i>Sameer Kumar Vepuri, Sanbeeth Chakraboorthy, S. Prabakeran, V. Sujatha</i>	
Effect of Filtering Techniques in Biomedical Hyperspectral Microscopic Images	358
<i>Shravan Sikhakolli, Pavan Banvath, Lakshmana Dhanekula, Bharadwaj Kadiyala, Pooja A Nair, Anuj Deshpande</i>	
Enhancing Road Safety in Diminished Vision Conditions: A Deep Learning Approach Using Faster MobileNet for Real-Time Object Detection	364
<i>D. Venkata Subbaiah, Byreddi Sricharan, Shaik Zeenath Aman, Kasarla Gopinath</i>	

Enhanced Medicinal Plant Identification: Leveraging Machine Learning and Image Processing for Accurate Raw Material Recognition	372
<i>G. Fayaz Hussain, Sayeeda Sameera Mahnaaz, Sheema Parveen, Shaik Shazia Tazeen, Arigela Sravika</i>	
Custom Design of 16 Bit RISC Processor Using Low Power Pipelining.....	378
<i>K G Gangandhar, D Indhushree, G Krishnakumar, M P Shwetha</i>	
Performance and Analysis of Approximate Multipliers Using Modified Dual-Stage 5:2 Compressors	384
<i>B. Srikanth, A. Siva Jahnvi, Shruti Tiwari, Beejarapu Vamshi</i>	
A Secured Online Voting System Using Visual Cryptography and Validation.....	390
<i>Sayali Sable, Tanuja Ghadage, Arpit Shelurkar, Sunil K. Moon</i>	
An Advanced Deep Learning Approach for Dietary Recommendations Using ROBERTA.....	399
<i>Bajjuri Usha Rani, Terli Joshnavalli, Betha Srikanth Reddy, Atluri Sreelaasya</i>	
Revolutionizing Jewellery Design Through Stable Diffusion Model: Bridging the Gap Between Consumer Preferences and Designer Creativity	405
<i>Shobha Gupta, Shubham Vishwakarma, Kriti Srivastava</i>	
Document Image Analysis for Text Extraction and Translation	413
<i>R. Thendral, G. Sudharsan, M. Subasri, M. K. Ragul</i>	
Optimization-Driven PID Parameter Tuning for Load Frequency Control in a Two-Area Power System	419
<i>Dipin Talekar, S Sridhar, Divya Tripathi</i>	
Investigation into Object Classification for Images	426
<i>R. Revathi</i>	
Prediction and Analysis of Fraud Detection in Finance: A Deep Learning and Machine Learning Based Approach.....	433
<i>Aayush Sheth, Arjun Nair, Aashutosh Rai, Rupali Sawant</i>	
Smart Soldier Jacket for Health Monitoring and Secured Data Transmission.....	439
<i>Puli Akash Chandra, Meka Hariraja Chandra, V. Aashritha Raj, T. Ramakrishnaiah</i>	
Canine Demodicosis Detection in Dogs Using Deep Learning.....	444
<i>Anuradha Chinta, Durga Sravanthi Thota, Aswini Durga Bypillla</i>	
Analysis of Workload in Google Cluster Trace Based on Job Termination Events.....	449
<i>Samah Jomah, S Aji</i>	
Migration of Idle Machines Via Parking Server – a New & Sophisticated Ant Colony Optimization Algorithm to Address Green Cloud Computing	455
<i>Md Kaviul Hossain</i>	
Clicking Fraud Detection for Online Advertising Using Machine Learning.....	460
<i>Vandavasi Baba Mahesh, Koneru Venkata Sai Chandra, Lammata Shiva Prasad Babu, Velagal Aarthi Sowjanya, Dr Moulana Mohammed</i>	
Enhancing CAN-FD Security with an Ensemble Learning Approach for Intrusion Detection	466
<i>M S Sreelekshmi, S Aji</i>	

Futuristic Trends Toward Connected Autonomous Vehicles in Hybrid Vehicular Networks	472
<i>Shilpi Mittal, Rasmeet S Bali</i>	
CNN Model for Handwritten Digit Recognition with Improved Accuracy and Performance Using MNIST Dataset.....	478
<i>Prince Raj, Ayita Dutta, Premanshu Sharma, Md. Hammad Zaya, Mouli Das, Tanmoy Ghosh, Pushpita Roy</i>	
Reinforcement Learning Based Hybrid Optimum Route Identification Scheme in WSN.....	487
<i>Basavaraj M. Angadi, Mahabaleshwar S. Kakkasageri</i>	
TrustCaller- Voice-based Fraud Prevention System	495
<i>Rushikesh Sonwane, Mansi Patil, Purva Chauhan, Anushka Jain, Bhushan Nandwalkar, Ashish Awate, Makarand Shahade</i>	
A Scalable Model for Text Mining Using Sentiment Analysis on PySpark.....	501
<i>K S Vishal, Srivageesh K Srinidhi, U Someswara Shashank, Sankepalli Sai Samhitha, Manju Venugopalan</i>	
Credit Card Fraud Detection Using Outlier Analysis and Detection	509
<i>Yaswanth Devavarapu, Raviteja Reddy Bedadhala, Shoaib Sohail Shaik, Charan Ram Kumar Pendela, K. Ashesh</i>	
Handwritten Text Recognition Using Machine Learning	516
<i>T. P. Kausalya Nandan, Gandla Ankitha, Karnee Narutham, Maduguri Bharadhwaz, M. Anusha, M. C. Chinnaiah</i>	
Mining Comments and Sentiments in YouTube Live Chat Data	521
<i>Shubhangi Tirpude, Yash Thakre, Shivam Sudan, Sujal Agrawal, Aveg Ganorkar</i>	
Effectiveness of GNN Based Approach for Topic Classification of Telugu Text	527
<i>Sai Sylesh Gupta Namburu, K. P. Soman, S Sachin Kumar, Neethu Mohan</i>	
Sentiment Analysis of Indian Tourist Place Reviews: A Machine Learning-Based Exploration.....	532
<i>B S Kiran Kumar, M L Prajwal, Nivedita</i>	
Author Identity Unveiled: Gender and Age Prediction from Textual Patterns Using BERT	537
<i>Balla Charishma Sulochana, Bhavya Sri Pragada, Boya Chaitanya Kiran, Gaddam Anvith Reddy, Manju Venugopalan</i>	
Network Intrusion Detection System Using Random Forest and Gradient Boosting Machines	543
<i>Indira Bharathi, Rohan Makhija</i>	
Analyzing the Effectiveness of Machine Learning Models for Next Day Cryptocurrency Price Prediction	548
<i>Gurpreet Singh, Ashok Kumar Sahoo, Gurdev Yadav, Ajay Krishan Gairola, Pradeepta Kumar Sarangi, Jyoti Gupta</i>	
Topic-Driven Contractual Language Understanding and Summarization: An Integrated Approach for Simplifying Legal Documents	553
<i>Karunya Harikrishnan, Malathi M, Sundharakumar K B</i>	
A Client-Server Based Educational Chatbot for Academic Institutions	559
<i>Rohan Paul Richard, Ebenezer Veemaraj, Juanith Mathew Thomas, Joel Mathew, Caleb Stephen, Richie Suresh Koshy</i>	

Full-Duplex Communication in NOMA Energy Harvesting Networks: Performance Assessment.....	564
<i>Van Khuong Ho</i>	
Credit Scoring for Loan Applicants Using Machine Learning Models	570
<i>Kaivaram Sivarama Krishna, Bommala Deepak Kumar, Morumpalli Deekshith Reddy, Ch Saketh, Manju Venugopalan</i>	
Student Attendance Tracking Management Using Face Biometric Smart System	575
<i>D. Balakrishnan, Umasree Mariappan, Satrasala Vinay Kumar, Murari Dinesh Kumar, Machupalli Ravi Sankar Reddy, Enja Mokshith Kumar Reddy</i>	
An Improved Recommendation System Based on Neural Matrix Factorization.....	582
<i>Soumadeep Maji, Souraja Maity, Joydeep Das, Subhashis Majumder</i>	
Forecasting India's Air Quality: A Machine Learning Approach for Comprehensive Analysis and Prediction	589
<i>Osho Kothari, Nabin Kumar Sah, Konda V S Harshith Kumar, Priyanka C Nair, Nalini Sampath</i>	
Rice Sheath Rot Disease Diagnosis Utilizing Deep Learning: A Wavelet-Filtered Method for Feature Extraction and Analysis	595
<i>Sreelakshmi Doma, Dhruva R. Rinku, V. Jyothi, Puli Vinay Kumar, Athiraja Atheeswaran, N Rajeswaran</i>	
Enhancing Health Monitoring in Academic Institutions of Bangladesh: Assessing Annual Checkups and the Role of Digital Health System	603
<i>Forhad Hossain, Md Jobayer Hossain Chowdhury, Nadia Binte Rahman Peeya</i>	
A Data-Driven Approach for CO2 Emission Prediction Using Dynamic Mode Decomposition	608
<i>Sahil Khandelwal, P Ishan, R Raveena, Hemavathi Yerchuru, Neethu Mohan, S Sachin Kumar, K P Soman</i>	
Harmonic Harmony: Advancing Musical Instrument Classification Through CNN-SVM	615
<i>Ankita Suryavanshi, Shiva Mehta, Preeti Chaudhary, Aditya Verma, Vishal Jain</i>	
Deep Learning Dermoscopy: Unveiling CNN-SVM Synergy in Skin Lesion Detection.....	620
<i>Ankita Suryavanshi, Shiva Mehta, Ayushi Jain, Siddhant Thapliyal, Shanmugasundaram Hariharan</i>	
Machine Learning Based Dynamic Resource Allocation in 6G Network	625
<i>Rajani S. Pujar, C. L. Chyalakshmi, Mahabaleshwar S. Kakkasageri</i>	
Crop Yield Prediction	633
<i>Potmuru Karthik, Bolloju Sanjith, Betha Charan Satya Raj, Gujjula Dhanush Reddy, Bhavani Vasantha</i>	
Machine Learning Techniques Based Gas Pipeline Leakage Detection.....	638
<i>V Yadukrishnan, Neethu Mohan, K. P. Soman, S Sachin Kumar</i>	
Plant Disease Detection Using Machine Learning	643
<i>Amit Kumar Parida, Albert Alexander Stonier</i>	
Demystifying Dementia: A Glimpse Through Univariate and Bivariate Analysis	647
<i>Anmol Rattan Singh, Gurjinder Singh, Nitin Saluja, Lokesh Garg</i>	

Automated Welding Defect Recognition Through Deep Learning Fusion: CNN and SVM Integration	653
<i>Vishal Yadav, Deepak Banerjee, Neha Sharma, Vijay Singh</i>	
Enhancing DNS Light Attack Detection Through RNN-RF Integration for Imbalanced Data	659
<i>Aadil Khan, Ishu Sharma</i>	
Channel Modeling for Free Space Optical Communication Using Generative Adversarial Network	665
<i>G. Yuvaraj, N. Anvesh, A. Vijaya Lakshmi, S. Siddhartha Reddy</i>	
Panoptic Segmentation Using Mask2Former with Swin Transformers	670
<i>Cheluka Aneasha Patel, D Stitha Pragna, K Muni Narendra Babu, Munugala Akshay Kumar, K Swaraja, N Arun Vignesh</i>	
Optimizing Renewable Energy Integration: A Hybrid Solar and Wind-Powered Smart Grid Enhanced with IoT Monitoring	676
<i>C. Milton, T. S. Sivarani, K. Ezhil Vignesh, Geno Peter</i>	
Prediction of Ayurveda Herbs and Its Benefits Using CNN and MobileNet Algorithms in Deep Learning	682
<i>Sambhram Ghosh, M Thenmozhi</i>	
Collaborative Filtering Based Module Recommendation to Boost Learners Achievement	686
<i>S J Shabnam Ara, R Tanuja, S H Manjula</i>	
Handwritten Digit Recognition of MNIST Dataset Using Residual Network and Visual Geometry Group Network	692
<i>D. Nagajyothi, G. Harish Reddy, B. Prashanth, N. Vivek Vardhan, M. Rajani Devi</i>	
A Framework for Realtime Multiview Yoga Pose Detection and Corrective Feedback Using MoveNet and Convolutional Neural Network	699
<i>M Suhas, Syed Azfar Rayan, Syed Sadath, Syedanwar Hanzahusen Mashalkar, Preet Kanwal</i>	
An Enhanced EfficientNet-Powered Wildlife Species Classification for Biodiversity Monitoring	705
<i>I. Bhargavi, A. Raghuvira Pratap, A. Sowmya Sri</i>	
GestureGuard: R-CNN for Sign Language	711
<i>T. Sethukarasi, Anshika Sundararajan, S Janavi</i>	
AI Lip Reader Detecting Speech Visual Data with Deep Learning	718
<i>Geetha C, Rohan Jai D, Sandheep Krishna A, Seelam Sai Vara Prasad Reddy</i>	
Data Enhancement Strategy Using Reinforcement Learning and Xgboost with Blockchain Security	724
<i>S Selvapriya, N Manvizhi, S Ajay, V K Kavya, Rosario Gilmery</i>	
AgriFusion: Crop Recommendation System Using Ensemble Learning Methods	729
<i>Dakey Bhavya Sree, Garnepudi Akanksha, Donthula Thanusri, Ch. Rajya Lakshmi, K. Chandana, Jukanti Shreeya</i>	
Design and Development of an IoT Enabled Low-Cost Smart Hand Glove System for Gait Detection in Stroke Patients	734
<i>Shaik Shafi, R Padma Priya, R Nithish Reddy, R Bhuvanesh, M Jennifer, Md Adhil</i>	
Optimization Accuracy of Secured Cloud Systems Using Deep Learning Model	739
<i>Mayank Hindka</i>	

Enhancing DDoS Attack Detection Deploying Machine Learning in Software Defined Networking Environment	744
<i>Anshika Sharma, Himanshi Babbar</i>	
Improving Clinical Decision-Making: Detection and Classification of Disease Like Kidney Stone from CT Kidney Images Using Deep Learning	750
<i>Shivani Verma, Pawan Kumar Singh, Bhanu Sharma, K. D Sharma</i>	
A Novel Interleaved Quadrature Boost Converter Based Analysis of Grid-Tied BLDC Motor in EV Application	756
<i>P. K. Dhal, Abinash Kumar Singh</i>	
Mehar Interval-Valued Intuitionistic Fuzzy Multi-Attribute Decision-Making Method Without Using the Concept of Connection Number.....	763
<i>Akanksha Singh</i>	
Fusion of Computer Vision and Natural Language Processing: Automated Image Caption Generation	769
<i>Chandra Prakash Akku, Srushith Cheemalwar, Vasanth Chamakura, Shiva Shankar Gogu, K Swaraja, N Arun Vignesh</i>	
Stage Wise Classification and Prediction of Alzheimer Disease Using Hybrid Approach	775
<i>A Prabakaran, Vinay Dwivedi, Neelam, Jyoti Rani, J Angelin Blessy, P Padmanabhan</i>	
Enhancing Cloud Computing Security Through Deep Learning and Attention Mechanism Intrusion Detection Systems	781
<i>Sunil Shukla, Jagendra Singh, T. Ramya, Satyakam Rahul, Arnab Kumar Mallick, Pawan Pandey</i>	
Navigating Water Scarcity with IoT: A Smart Management System Approach.....	786
<i>Ankita Suryavanshi, Shiva Mehta, Saumitra Chattopadhyay, Manisha Aeri</i>	
AI for Safer Streets: Deep Learning-Based Road Accident Detection from Video Footage	791
<i>Retinderdeep Singh, Neha Sharma, Kapil Rajput, Mukesh Kumar</i>	
EfficientNet-B0-Based Classification of Pneumonic Lungs Using Chest X-Ray Dataset	797
<i>Retinderdeep Singh, Neha Sharma, Kapil Rajput, Mukesh Kumar</i>	
A Weighted Privacy Mechanism Under Differential Privacy	803
<i>D Hemkumar, Pvn Prashanth</i>	
Transforming IoT with Federated Multimodal Learning: A Privacy-Centric Approach.....	809
<i>Ankita Suryavanshi, Shiva Mehta, Mukesh Kumar, Siddhant Thapliyal</i>	
Adaptive Investment Strategies: Deep Reinforcement Learning Approaches for Portfolio Optimization.....	814
<i>Rishabh Sharma, Ajay Sharma, Shanmugasundaram Hariharan, Vishal Jain</i>	
Machine Learning Based Smart Crop Recommendation System	819
<i>Shwetha A N, Prabodh P</i>	
Unlocking Insights: Autoencoder-Enhanced ECG Anomaly Detection Using RMSProp.....	825
<i>Tanishq Soni, Deepali Gupta, Mudita Uppal</i>	

Evaluating the Efficacy of Deep Learning Models in Personalizing Treatment for Anxiety Disorders	831
<i>M. Ravichand, Jagendra Singh, Nitin Arvind Shelke, Gopisetty Ramesh, Satyajee Srivastava, Muniyandy Elangovan</i>	
Enhanced Gunshot Sound Detection Using AlexNet and XGBoost from Fourier Spectrograms.....	837
<i>M. Yagnasri Priya, Sanjivani P. Shendre, Peeta Basa Pati</i>	
Towards Automated Lip Reading: Developing Marathi Lip Reading Datasets and Neural Network Frameworks	844
<i>Apurva Kulkarni, Dnyaneshwar Khemachandra Kirange</i>	
A Novel Approach for Lesion Detection in Colposcopy Images Using Masking	850
<i>Patcha Kirthi, Padira Anusha Chary, N Lohitha, Nekkanti Rama Subhash, Priyadarshini Chatterjee</i>	
Real Time Fake News Detection Web App Enhanced by Machine Learning Algorithms	856
<i>V Gunasekaran, D Karthikeyan</i>	
A Deep Learning Based Two Branch Model for Automated Recognition and Segmentation of Solar Panels In-Flight Imagery	863
<i>T G Manjunath, Ac Vikramathithan, Syed Mathin Pasha</i>	
Agricultural Informatics: Assessing CNN and Decision Tree Effectiveness in Indian French Bean Variety Classification.....	868
<i>Rishabh Sharma, Manvinder Brar</i>	
FPGA-Compatible Fog Rectification and Contrast Enhancement for Improved Vision Algorithms in Foggy Environments	873
<i>Khadim Moin Siddiqui, Anjali Chowdhary, Rani Yadav, Karandeep Yadav, Sejal Verma, Anurag Singh, Surabhi Kanaujia, Shiv Mani Tripathi, Beer Singh, Abhinav K. Gautam</i>	
From Field to Algorithm: A New Strategy for Pusa Gourd Classification Using Advanced CNN and RNN Models in India	879
<i>Rishabh Sharma, Manvinder Brar</i>	
A Comparative Study of Deep Learning Models for Brain Tumor Classification.....	884
<i>Tanmoy Das, Dinesh Kumar Vishwakarma, Virender Ranga</i>	
Utilizing Deep Learning for Textual Classification of Hate Speech in Online Social Networks	889
<i>Dhruv Verma, Gaurav Thakur, Hammad Ansari, Rahul Katarya</i>	
Investigating the Effectiveness of Deep Learning and Machine Learning for Bangla Poems Genre Classification	896
<i>Rayhanuzzaman, Tanjim Mahmud, Utpol Kanti Das, Sultana Rokeya Naher, Mohammad Shahadat Hossain, Karl Andersson</i>	
Low Grade Glioma Segmentation Using UNET with ResNext50 Backbone.....	902
<i>Priyanka Yadlapalli, Venkat Kotipalli, Devi Sri Prasad Gali, Ramu Kuntolla</i>	
Enhanced Credit Card Fraud Detection: A Machine Learning Approach.....	910
<i>Priti Meena, Mukul Raj, Rajni Jindal</i>	
Advancing Healthcare Accessibility: Development of an AI-Driven Multimodal Chatbot.....	916
<i>Bala Subrahmanyam Garimella, Hari Sharan Garlapati, Sriharini Choul, Rajesh Cherukuri, Pallavi Lanke</i>	

Breast Cancer Detection Using Nanoparticle Sensor with Machine Learning Algorithms	926
<i>J. N. V. R. Swarup Kumar, Charishma Karri, Naga Srihitha Vatsavayi, Harshitha Lekkala, Saaketh Choudarapu</i>	
Maximizing Privacy in Reinforcement Learning with Federated Approaches	931
<i>Shiva Mehta, Sumeet Singh Sarpal</i>	
Expanding the Horizons of Chinese Text Classification with Federated Learning Across Domains	936
<i>Shiva Mehta, Aseem Aneja</i>	
ECG Data Security and Privacy: Leveraging Federated Learning for Better Classification	941
<i>Shiva Mehta, Abhinav Rathour</i>	
Blockchain-Enhanced Federated Learning: A New Paradigm for Secure Distributed Machine Learning	947
<i>Shiva Mehta, Amanveer Singh</i>	
Improving Drone Operational Efficiency Through IoT-Blockchain Integration	952
<i>Shiva Mehta, Danish Kundra</i>	
Sign Language Recognition Using Transfer Learning	957
<i>Neha Rangu, Preetham Dathi, Pavan Kethavath, M Suneetha, K Jamal</i>	
MMSD-CAF: MultiModal Sarcasm Detection Using CoAttention and Fusion Mechanisms	963
<i>Jayant Miglani, H A Pavan Kashyap, Rahul Katarya, Madhav Maheshwari</i>	
WellBe: An Intelligent Elderly Care and Well-Being Monitoring System Using Deep Learning	970
<i>Atharv Raotole, Sailee Sanjay Shirodkar, Rahul Shukla, Jignesh Sisodia, Kailas Devadkar</i>	
Spam Comment Detection Using the Ensemble Technique	976
<i>Jhansi Yellapu, Kancharla Sunil Kumar Reddy, Gandham Vijaya Lakshmi, Kukkadapu Renu Vaibhavi, Chalamalasetty Vivek, Tella Subash Kishore</i>	
VGGAE-Net: A Two Stream Ensemble CNN for Diabetes Retinopathy Classification	983
<i>Shashank Girepunje, Pradeep Singh</i>	
MediBot: Revolutionizing Healthcare with IoT-Based Autonomous Medication Management and Smart Cart Facility	988
<i>Animesh Giri, Aditi Khasnis, Ananya Brahmavar</i>	
SAMS: Smart Agricultural Monitoring System Integrating Edge AI and IoT for Early Detection of Rice Crop Stress	994
<i>J. N. V. R. Swarup Kumar, P. Rashmita, Manne Sai Pushpitha, Kondapalli Deepika</i>	
Modelling and Analysis of Graphene Based OLED	999
<i>B M Chaya, K Prabha, R V Darshan, S V Lohith Raju, P Balaji, P Pavan Kumar</i>	
Synergistic Skin Cancer Classification: Vision Transformer Alongside MobileNetV2	1003
<i>M Ranjith Kumar, S Priyanga, Janani Srinivasan Anusha, Veda Chatiyode, Jerome Santiago, P Revathi</i>	
Development and Optimization of Simulation Model of Decision Aid System Implementation	1010
<i>Tatyana Panfilova, Alexey Gladkov, Vadim Tynchenko, Oksana Kukartseva, Mikhail Kvesko</i>	
Memcached's Redis Repository Benchmark for CRUD Operations	1015
<i>Glinscaya Anna, Volneikina Ekaterina, Kukartsev Vladislav, Rozhkova Alena, Podanyov Nikolay</i>	

Design and Development of IoT Enabled Health Monitoring System Using Node MCU	1019
<i>Shashank Dwivedi, Bansilal Bairwa, P Shriharinayaka</i>	
DeBERTaSSL: Enhancing Molecular Property Prediction with Self-Supervised Learning	1025
<i>K Ghaayathri Devi, Ravi Shankar Bedadhala, S Sachin Kumar, K P Soman, Jyotsana Devi Bodapatiq</i>	
Emotify: An AI-Powered Emotion-Based Music Recommendation System.....	1032
<i>Divya Srivastava, Sunidhi Puri, Shivanant Deo Bhagat, Madhushi Verma, Aditi Bhardwaj</i>	
Use of Machine Learning in Object Detection for Visually Impaired Person	1038
<i>Tahmina Haque Munia, Kazi Abu Taher</i>	
Summarizing News: Unleashing the Power of BART, GPT-2, T5, and Pegasus Models in Text Summarization.....	1044
<i>M Asmitha, C. R. Kavitha, D Radha</i>	
Sarcasm Detection in Newspaper Headlines	1050
<i>B Sreenivas Prasad, N Akash Babu, Harthikeswar Reddy Thappita, A Vishnu Vardhan Reddy, Susmitha Vekkot, Priyanka C. Nair</i>	
Design & Development of NOx Control Diagnostics for Piped Natural Gas Engines.....	1058
<i>Ajit Kate, Archana Thosar, Yogesh Aghav</i>	
Exploring Sarcasm Detection: Leveraging Neural Network Models with BERT Embeddings.....	1065
<i>N Rayvanth, Shreya Shree S, Venkatahemant Kumar Reddy Challa, Vishwash Sharma, Manju Venugopalan</i>	
SecureNet: A PySpark-Based Approach to Enhanced Network Intrusion Detection Using Machine Learning and Feature Engineering	1071
<i>B. Akhileswar Reddy, G. Someswara Reddy, K. Lokesh, Manju Venugopalan</i>	
Beyond Words: Adapting NLP Methodologies for Time Series Forecasting Challenges.....	1077
<i>Lakshya Dalal, Rohan Verma, Raman Chahar</i>	
Predictive Analysis of Autism Spectrum Disorder Using Machine Learning Techniques*.....	1085
<i>T S Arathi, Samyukths Sasikumar, A S Mahesh</i>	
Enhancing Software Test Effort Estimation Using Ensemble Learning Algorithms	1091
<i>K Venkatraman, M Akashvarma, S Siddharth</i>	
Feature-Based Stationary Wavelet Transform for Removal of EEG Ocular Artifacts.....	1096
<i>Vandana Akshath Raj, Subramanya G. Nayak, Ananthakrishna Thalengala</i>	
Offensive Language Identification in Dravidian Codemixed Dataset	1101
<i>Nandu Vasudevan, S Sachin Kumar</i>	
Predictive Modeling with Feature Engineering and Outlier Detection on Airbnb Dataset.....	1107
<i>Suraj Gajul, Madhuri Potey</i>	
Smart Helmet with Transparent Display.....	1113
<i>M Tamilarasi, S Chitra, N Barathkumar, S Bhuvanesh, C Dhineshwaran</i>	
Enhanced Drowsiness Prediction Through EEG Signal Analysis Using Hybrid Machine Learning Model	1120
<i>Neelesh Kumar Gupta, Pushpalata Verma, Richa Verma, Tikeshwar Gajpal, Jaideep Patel, Rovin Tiwari</i>	

Passive Cell Balancing Using PI Controller	1126
<i>Om S. Naik, Aditya S. Chinchwade, Shubhada N. Yetekar, Sayali Jawale</i>	
Novel Approach for Security Constrained Optimal Power Flow Solution of Utility Grid Power Network.....	1132
<i>Bhoori Singh, Avdhesh Sharma, Akhil Ranjan Garg, Om Prakash Mahela</i>	
Empirical Analysis of the Pre-Trained Models for Brain Tumor Diagnosis.....	1137
<i>J Meghna, Manisha Maharana, Ritu Rani, Nidhi Bisla, Arun Sharma, Amita Dev</i>	
An Optimized VGGViT Model for the Classification and Detection of Lung Diseases on Chest X-Rays Using an Optimized - Vision Transformer.....	1144
<i>S Vidyasri, S Saravanan</i>	
A VGG-CHNN Model for Identifying and Categorizing Diseases Through Transfer Learning on Mango Images	1150
<i>R Kalaivani, A Saravanan</i>	
Early Lung Cancer Detection Using CNN	1156
<i>Deepak Mane, Pranav Barapate, Pratik Khinde, Aaryan Chavan, Parshwa Hagare</i>	
Advancing Urban Evacuation Management: A Real-Time, Adaptive Model Leveraging Cloud-Enabled Big Data and IoT Surveillance	1163
<i>Soham Sarkar, Sarthak S Kumar, Animesh Giri, Annapurna Dammur</i>	
Neuro-Fuzzy Based Anaemia Diagnosis Using LabVIEW	1169
<i>M. Jagadeeswari, A Seema Aashikab, T Sonali, R Sujith Sivan</i>	
Economics Load Dispatch Strategies in Power System	1175
<i>Shivam Singh, Satyam Kumar Upadhyay</i>	
Load Frequency Control in 2 Area Interconnected Power System Using Ant Colony Optimization	1181
<i>Manoj Pal, Anurag Singh</i>	
Optimising Energy Management Strategies for Hybrid Electric Vehicles: To Improve Efficiency and Performance.....	1186
<i>Ratnesh Singh, Saurabh V Kumar</i>	
Performance Investigation for Sizing of PV Battery and Super Capacitor in Microgrid.....	1191
<i>Awadesh Kumar, Rajnish Bhasker</i>	
Chronic Kidney Disease Patients in Predicting Renal Function Decline Integration of Machine Learning Techniques.....	1197
<i>P. Srinivasa Rao, S. Sathish Kumar, Novera Habeeb, Himanshu Sharma, Amit Gupta</i>	
End-To-End SNR Capacity and Throughput Enhancement Using Non-Orthogonal Multiple Access and Massive MIMO in 5G.....	1203
<i>Deepak Upadhyay, Abhay Upadhyay, Mridul Gupta, Kunj Bihari Sharma</i>	
Understanding IoT-23 Dataset: A Benchmark for IoT Security Analysis	1208
<i>Anshika Sharma, Himanshi Babbar</i>	
ANALYZING and COMPARING Random Forest and K-Nearest Neighbours for Effective Heart Disease Prediction	1213
<i>Soumyadeep Maity, Md Abid Hossain, Kalyan Maji, Sudip Mishra, Soumen Nath, Subir Gupta</i>	

Enhanced Cyber Logic: A Robust Design of Identity Based Encryption Mechanism to Secure Data Using Blockchain Technology.....	1219
<i>U. Archana, M. Jeyalaxmi, A. Vijayaprabhu, K Dhanalakshmi, Yerramsetti Geetha, Y P Ragini</i>	
Ensuring Confidentiality: A Secure Deduplication Model to Prevent Healthcare Records Over Cloud Computing Environment with Advanced Crypto Logics.....	1224
<i>P Sathyabama, M. Shalini, R Dhivya Bharathi, G. Sathi, K. Thilagam, S Uma Maheswari</i>	
A Robust Development of Calorie Prediction Methodology Based on Artificial Intelligence Assisted Machine Learning Model.....	1231
<i>G Naga Venkata Ramakrishna, S Sreelakshmi, Meenakshi Diwakar, S. Ramkumar, T Vinithra Banu, T. Thilagam</i>	
Exploring the Experimental Possibilities of an Intelligent Blood Pressure Prediction Scheme Using IoT Enabled Machine Learning Principles	1237
<i>T. Thilagam, S. Rajarajeswari, D Shobana, S. Ramkumar, M. Bharathi, Balamurugan Annamalai</i>	
An Advanced Decentralized Architecture Enabled Logical Identity Based Encryption Logic Using Blockchain Assistance	1243
<i>R. Geetha, S Kalpana, R Roopa Chandrika, M. Preetha, P Santhoshini, Ezhil E Nithila</i>	
Breaking Boundaries: Harnessing the Power of Deep Learning Model Design to Predict Diabetes with Artificial Intelligence Assisted Prediction Strategy	1249
<i>N. K. Senthil Kumar, S Kalpana, K. Karthika, A. Anandh, Badepalli Anusha, P Santhoshini</i>	
Experimental Evaluation of Secured Forensic Evidence Handling Scheme Using Blockchain Technology	1255
<i>C. Anitha, R. Priyadarshini, E Sivajothi, G Kumaran, K. Sudha, Badepalli Sireesha</i>	
Artificial Intelligence Assisted Electric Vehicles Fast Charging Station Design Using Grid Distribution Network Model	1261
<i>C. Anitha, K. Chitra, G. Vijayalakshmi, G Kumaran, T. Vijetha, K. Ormila</i>	
On the Influence of Lightning Channel Inclination to the Current in Various Parts of the Steel Reinforced Building for a Direct Lightning Strike	1267
<i>S. Vinoda, Vishwanath Hegde, U. Sarita</i>	
Exploring Socioeconomic Influences on Life Expectancy Through Machine Learning Ensemble Regression Techniques	1273
<i>Sowjanya Dangety, Kasani Vaddi Kasulu, G. Swetha, Zareena Begum, Krishna Mohan Bhashyam, A. Lakshmanarao</i>	
Real World Deployment of Dual Branch MRC Enhanced by Adaptive Algorithms LMS and RLS in 5G Networks to Improve SNR and QoS.....	1278
<i>Deepak Upadhyay, Abhay Upadhyay, Mridul Gupta, Kunj Bihari Sharma, Meenakshi Maindola, Shobhit Garg</i>	
Smart Healthcare in Smart Cities: Leveraging Machine Learning for Disease Detection.....	1283
<i>Harsha Bhute, Rohit Wani, Neha Patil, Vaishnavi Naik</i>	
Improving the Prediction and Fine-Grained Approach for Predicting and Forecasting Cryptocurrency Price Using ARIMA	1290
<i>J. Juslin Sega, Shivam, Yash Gautam, Kshitij Devendra Yadav</i>	
Windows Forensic Analysis and Detection of Ransomware Attacks Using Event Logs and Tools	1297
<i>Yogeshwar Prajapati, Krupali Gosai</i>	

Swarm Intelligence Based Feature Selection and Machine Learning Methods for Future Railway Traffic Prediction.....	1303
<i>C Radhika, D. Kerana Hanirex</i>	
Understanding Training Behaviour During Transfer Learning by Drawing Parallels to Grokking	1309
<i>Kanishk Rath, Lydia J Gnanasigamani</i>	
Performance of Microstrip Notch Antenna in RF Energy Harvesting for 2.45 Ghz Wi-Fi Applications.....	1313
<i>Niketani Kumar Mishra, Sanjay Kumar Sharma</i>	
An Efficient Privacy-Preserving Machine Learning for Blockchain Network	1318
<i>Aakash Sonkar, Suyash Kumar Sahu, Ashu Nayak, Devbrat Sahu, Pushpalata Verma, Rovin Tiwari</i>	
Simulation-Based Evaluation of IDMT Characteristics for Overcurrent Relay Protection.....	1324
<i>Utkarsh Rishu, Anup Kumar Mandpura, Rohan Pillai</i>	
Chaotic Leader Particle Swarm Optimization (CL-PSO) for Efficient Data Storage in a Cloud-based Hadoop Distributed File System (HDFS).....	1329
<i>Martin Joel Rathnam, S. Lakshminarayanan, B Sunantha Sri, V Manickavasagan, M. Arulprakasam, S. M. Swetha</i>	
Supercapacitor Assisted PV Powered Dynamic Wireless Power Charging System for EV	1335
<i>Utkarsh Nayak, Akshaya K Pati</i>	
Implementation of Smart Solar Power System Monitoring and Automated Cleaning Mechanism with Python Based Embedded Technology	1340
<i>P. K. Dhal, C. Jaswanth Reddy, R S Aswin Kumar, S Sabareesh</i>	
Epilepsy Seizure Determination Combining Brain and Heart Signal Analysis and Training	1346
<i>N. Babu, B. Sarvesan, G. Vani, R. Uday Kumar Reddy, T. Venu Reddy, J. Sunayana Reddy</i>	
Analysis of QLED's Optical Performance for Variations in Wavelength and Quantum Dot Radius.....	1352
<i>K M Manjivani, B M Chaya, B Bhoomika, R Deepika, Gagana Shree</i>	
IoT Integration and XGBoost Modeling for Faster Gas Station Service	1357
<i>P. Solainayagi</i>	
Hybrid Deep Transfer Learning Framework for Humerus Fracture Detection and Classification from X-Ray Images	1363
<i>Puja Dey, Tanjim Mahmud, Khan Md. Foysol, Nahed Sharmen, Mohammad Shahadat Hossain, Karl Andersson</i>	
End-To-End Network Traffic Examination for Network Intrusion Detection Using Feature Embedding Learning	1369
<i>J Arthy, Siddharth D Variar, N Tharakeshwar, R Ashwatha Narayan</i>	
Dual Zone Air Conditioning and Crash Detection Helmet.....	1375
<i>M Aarthi Elaveini, Mutyala Naveen, Srinivas Tirumani, Sujith Cheruku</i>	
Video Summarization Using Transformer Model Assisted AC-SUM-GAN	1381
<i>Hema Krishnan, Joseph Gladwin, Navneeth M Nambiar, A Samanuai, T Vyshakh Madhu</i>	
Performance Analysis of Double-Sided LCC Compensation Topology.....	1389
<i>Shivam S. Andure, Archana G. Thosar, Dipak S. Yeole</i>	

Network Function Virtualisation in Software-Defined Networking Using Openstack Environment.....	1394
<i>Sonia H Singh, S Veena</i>	
Implementation of Load Balancing Algorithms in Software Defined Networks Using OpenDaylight.....	1400
<i>M Keerthi Prabhu, S Veena</i>	
Dynamic Modelling and PI Control Design for Bidirectional SEPIC/ZETA DC-DC Converter in Battery Applications	1406
<i>Prashant Singh, Alka Singh, Ankita Arora</i>	
Real-Time Ragging Notification Using Machine Learning Algorithms and MediaPipe	1412
<i>R Dhanesh, H J Shanthi</i>	
Analyzing the Performance of Various NOMA Systems Based on User Count and Minimum Rate Demand	1421
<i>K Ramesh Chandra, Anusha Basamsetti, Kankipati Swathi, N V Phani Sai Kumar, Vendra Bhavani Durga, B Elisha Raju</i>	
Effective Cluster Head Based Routing Using Neuro-Fuzzy Algorithm in Vehicular Ad Hoc Networks (VANETs).....	1426
<i>K Jyostna, N Dhana Lakshmi, Gondi Kavya Sree, N Siddartha, Thatikonda Sreeja</i>	
Detecting Car Speed Using Object Detection and Depth Estimation: A Deep Learning Framework	1434
<i>Subhasis Dasgupta, Arshi Naaz, Jayeeta Choudhury, Nancy Lahiri</i>	
Speaker Identification Using CNN-LSTM Model on RAVDESS Dataset: A Deep Learning Approach	1439
<i>M Suryamritha, Varshini Balaji, Srinidhi Kannan, K Murali</i>	
Tomato Leaf Disease Detection Using Federated Learning	1445
<i>Gagan Deep Lamani, T M Gagan, Shankaraling Halemani, K Fayaz, Meenaxi M Raikar</i>	
Implementation of Leading Zero Count (LZC) for Arithmetic and Logic Unit (ALU) Operations	1452
<i>J. L. V. Ramana Kumari, V. Kranthi Kumar, M. Abhignya, P. Shiva Rama Krishna</i>	
Modelling and Parameter Estimation of Super Capacitor Bank Under Balanced and Unbalanced Conditions	1458
<i>Vishnu Ajith, Shifa H Rahman, M P Shreelakshmi</i>	
Classification of Hateful Memes by Multimodal Analysis Using CLIP.....	1464
<i>Samarth Munzni, Shikhar Dixit, Aruna Bhat</i>	
Email Spam Monitoring System.....	1469
<i>Mayank Srivastava, Dhruv Khandelwal, Navya Swarup</i>	
Preprocessing of CT Scans for Lung Cancer Detection	1476
<i>Akanksha Singh, Surekha Kamath</i>	
Fractional Order Controller for Stability Analysis of Hybrid Industrial Microgrid.....	1480
<i>Harshad R. Akre, S. P. Nanigrani</i>	
Artificial Intelligence for Image Classification of Skin Diseases with Convolution Transformer	1485
<i>Rajat Vishwakarma, Deepika Sood</i>	

An Improved $24\mu\text{A} \pm 0.5148\%$ High-Precision Bandgap Current Reference Integrated with 24mV Voltage Reference.....	1491
<i>Abhinav Sushil Pawar, Sujata Kotabagi, Satwik Dayanand Bewoorkar, Pavitra Veerendra Shindhe, Vaishnavi Manjunath Chandavari, Sachin Dalabanjan</i>	
Domain Specific Embeddings in RNN Frameworks for Hate Span Detection and Classification	1497
<i>Rashmi Rachh, Sanjana Kavatagi, Shridhar Allagi</i>	
Design and Simulation of a Low Phase Noise Oscillator Using Substrate Integrated Waveguide Without Metallic Vias.....	1501
<i>M Anandan, P Rajeswari, N Suresh Kumar, M Divya, R V Ishwarya, A Gobinath</i>	
Design of Operational Transconductance Amplifier(OTA) for 1.2V Bandgap Reference(BGR).....	1505
<i>Samarth Nasabi, Sujata S Kotbagi, Sumati Javalagi, Madhura M, Rakshita R Patgar, Bharat A Gunhalkar</i>	
Design and Evaluation of a Planar Inverted F-Antenna (PIFA) Array for Microsatellite Communication	1511
<i>Kalyani Kandiraju, B P Vani, S. R Bhavana, P. K Bhavana, Shirin Rajiv</i>	
Violence Detection in Automated Surveillance Using CNN	1518
<i>Abishek Ghalley, Abdelrahman Abdelsalam, Wongani Dombola, M. S. Choudhary</i>	
Brain Tumor Detection with YOLOv8	1524
<i>Chetan Mahale, Sanchalee Meshram, Abhishek Pakhmode</i>	
Securing Cloud-Based Data Sharing with Accountable Proxy Re-Encryption	1529
<i>E. Mahalakshmi, A. Vaidhegi, D. Jayakumar, M. O. Ramkumar, R. Rajmohan</i>	
Alpha Node: Smart Data Retrieval System Using Network Simulator (NS)-3	1536
<i>Mustafa Husain, Abbas Jabalpurwala, Tamanna Vaikkath, Rajeshwar Balla, Sudhanshu Maurya, Nitin Rakesh</i>	
Development of QOS Aware Spectrum Access Algorithm for Different Radio Access Techniques (RATS)	1542
<i>M Monisha, S Vinoth Kanna, S Deepak</i>	
4-Way Ka-Band Power Combiner Using Rectangular Waveguide.....	1546
<i>R Vani, S Meenakshi, B Shree Sahitya</i>	
Personalized Skincare Product Recommendation System Using Content-Based Machine Learning	1550
<i>M Vinutha, R B Dayananda, Akshatha Kamath</i>	
Smart AI Voice Assistant Through Generative Text Transformer and NLP Implementation in Python.....	1556
<i>Devesh Bajpai, Mallela Uday Kiran, Busi Hemanth Reddy, Suresh Kumar Natarajan</i>	
Enhancing Radiologist's Performance in Breast Cancer Screening Using PSO Algorithm with CNN Classifier.....	1562
<i>C. Kumar, N. Devi Sree, R. Dhana Lakshmi, B. Bhavana</i>	

Author Index