

2024 International Conference on Electrical Electronics and Computing Technologies (ICEECT 2024)

**Greater Noida, India
29-31 August 2024**

Pages 1-751



**IEEE Catalog Number: CFP24UZ7-POD
ISBN: 979-8-3503-7810-8**

**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:	CFP24UZ7-POD
ISBN (Print-On-Demand):	979-8-3503-7810-8
ISBN (Online):	979-8-3503-7809-2

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

Light Electric Vehicle Battery Performance Analysis with Indian Drive Cycles	1
<i>Dhanraj Nayak, Padmavathi Lakshmanan</i>	
Development of the Condition Monitoring System for Battery in Automobiles	7
<i>Neeraj Khara, Sumit Sehrawat</i>	
A Planning Model for Battery-Operated Local Bus Transit System Considering Day Depot Charging Strategy	10
<i>Yogesh Pandey, Praveen Kumar Agrawal, Nikhil Gupta, K. R. Niazi, Anil Swarnkar</i>	
Exploring Cost Efficiency and Sustainability:Electrical Vehicles V/s Internal Combustion Engine Based Vehicles for Four Wheelers.....	16
<i>Duddu Nikhitha, Kritika Kamboj, Aditi Gupta, Kamaldeep Boora, Vikram Kumar</i>	
Optimising Electric Vehicle Selection in India: A Hybrid WASPAS and AHP Approach	21
<i>Neha Seth, C. Nanda Kartheek</i>	
Low Cost 3-Wheel Hybrid Electric Segway	26
<i>Abdul Rahman Khan, Abdus Samad Suhail</i>	
Conversion of Traditional Cycle into a Low-Cost E-Cycle with Battery Level Indicator.....	32
<i>Vikash Tiwari, Akash Kumar Bharti, Adarsh Mishra, Kashish Singh, Aayush Rawat</i>	
Design and Fabrication of Brake Fluid Monitoring System	37
<i>Vimallesh A, Nivendra Y, Sudharshan M, Thiagarajan. G, Ragavendhiran, S. Ramesh</i>	
Exploring the Predictors of Intention to Purchase Electric Vehicles	44
<i>Faiz Hasan, Neha Zaidi, Mohd Danish Kirmani, Ajay Kumar, Farah Zahidi, Asad Rehman</i>	
Speed Control of an In-Wheel Brushless DCmotor Using PID Controller for EV's.....	50
<i>Saravanan S, Mukeshkanna V, Kanagaraj Venusamy, Aniruth R, Santhanam V</i>	
Evaluating the Utilization of Unmanned Aerial Vehicles for Afforestation.....	55
<i>Satyam Sharma, Anil Kumar Dixit, Sagar Saxena</i>	
Autonomous Smart Agri UAV.....	61
<i>J Ponraj Krishna</i>	
DGA Based Transformer Fault Analysis Using Machine Learning.....	67
<i>Abhinn Kumar, Anmol Ratna Saxena, Vivek Shrivastava</i>	
Development of an SVM Based Intelligent Relay for Fault Identification with LVRT Capability	72
<i>Divya S Nair, T Rajeev</i>	
A Model for Multi-Criteria Ranking of Sub-Transmission Power Transformer Maintenance Strategies – an Application of Delphi Process.....	78
<i>Thabiso Seeta, Nhlanhla Mbuli</i>	
Design, Modelling, and Performance Comparison of Five-Phase PMSM Drive	84
<i>Sabna M, Anagha S, Mini V P</i>	
Modeling and Simulation of Prepaid GSM Based Smart Energy Meter with Load Management	90
<i>Gunjan Varshney, Utkarsh Anand, Sohil Gupta, Mohd Anas, Mohammad Areeb Husain</i>	

Application of Optimization Techniques for Frequency Stability Improvement in Microgrid.....	96
<i>Philemon Yegon, Mukhtiar Singh</i>	
Exploring the Potential of Residential Energy Sharing Communities: A Simulation Study on Load Profile Suitability and Profitability.....	101
<i>Dheerendra Panwar, Suresh Dodda, Rajesh Mahadeva</i>	
Solution of Economic Load Dispatch by ParticleSwarm Optimization in Renewable Integrated Environment	107
<i>Raju Kumar Maurya, Shubham Tiwari, Giraja Shanker Chaurasia, Amit Agarwal, Ankita Bhatt</i>	
Designing of an Active PFC Converter Using Boost Topology and Power Train Model for Electric Vehicle	113
<i>Max Agarwal, Diya Singh, Rajat Kumar</i>	
Design of High Gain Bidirectional DC-DC Converter with Improved Output Voltage	119
<i>Leelavathi E, Mahesh Kumar Mishra</i>	
Voltage Control in Low Voltage Distribution Systems Using Smart Power Converter	125
<i>Rampelli Manojkumar, P Aruna, Nabieha Nabieha, Memugadda Niteesha, Rapelly Chandana, Sai Nithya</i>	
Implementation of DC-DC Step-up Converter for Renewable Energy Applications	130
<i>G. Bharani, Suvetha Poyyamani Sunddararaj, N. Selvam, S. Devi, R. Venkatesh, Sumathi G</i>	
Dual Active Bridge as a High-Frequency Converter Link for Active Power Flow Control in Clustered DC Microgrids	135
<i>Minakshi Khushoo, Ashish Sharma, Gagandeep Kaur</i>	
Unveiling Enhanced Model Predictive Control for Power Regulation in Single Phase AC/DC Converter.....	141
<i>Philemon Yegon, Mukhtiar Singh</i>	
Performance Comparison of Three-Level Diode Clamped and T-type Multilevel Inverter	146
<i>Hari Prasad Bhupathi, Sree Lakshmi Gundebommu, Vinodh Kumar Pandraka</i>	
Harmonics and Voltage Flicker Investigation of Different Electric Arc Furnace Models on Power Systems.....	151
<i>K U Vinayaka, Sathish K R, Yoganand B S</i>	
Techno-Economic Assessment of Green Energy System for Remote Location in Rajasthan	158
<i>S. Vinoth John Prakash, Kaduluri Venkata Ramana, K. Karunanithi, S. Ramesh, P. Baburao, S. Amosedinakaran</i>	
Design and Analysis of Three-Axis Solar Panel.....	163
<i>K. S. Sujatha, C. N. Yadahalli, Prafull Aggarwal, Pulkit Jain, Rohit Anand, Aditya Srivastava</i>	
An In-Depth Analysis of Local Mechanic Support for Immediately Apparent Repairs and Scheduled Maintenance Services	169
<i>Manik Rakhra, Tiyas Sarkar, Vikrant Sharma, Prikshat Kumar Angra, Ashwani Kumar, Pritpal Singh</i>	
Adaptive Control-Based Grid Connected Solar PV System with BESS	176
<i>Subodh Kumar, Pawan Pandey</i>	

Two Loop Controlled Cuk - Buck Converter for Input Source Power Management	182
<i>Vijay Kumar Tewari, Deepak Verma, Atharv Sachan, Ayush Kumar Dubey</i>	
Design and Analysis of Second Generation Voltage Conveyor Using MVF	188
<i>Jyoti Singh, Shweta Kumari, Maneesha Gupta</i>	
Type-2 Fuzzy Logic Approach for Energy Management of Plug-in Hybrid Electric Vehicle	193
<i>Rahul Kumar, Ajay Singh</i>	
Banking Security and Customer Experience: Cloud Computing-Enabled KYC in the Digital Era Using ANN Model.....	199
<i>A. Nithya, D. Muthukumaran, Mageshkumar Naarayanansamy Varadarajan, K. Sangeethalakshmi, R. Mahalakshmi, C. Srinivasan</i>	
Enhanced Metal Sheet Quality Control Using CNN and SVM Integration.....	205
<i>Agampreet Singh, Kanwarpartap Singh Gill, Mukesh Kumar, Ruchira Rawat</i>	
Design and Analysis of 12/16 Pole Flux Reversal Motor with Different Permanent Magnets Using Ansys.....	210
<i>Sumit Kumar, Obbu Chandra Sekhar</i>	
Design and Analysis of 2-Pole Linear Induction Motor Using Ansys.....	216
<i>Masyood Ahmad, Obbu Chandra Sekhar</i>	
Type-2 Fuzzy Logic Control of HVAC System in Electric Vehicles	221
<i>Ajay Singh, Rahul Kumar</i>	
Optimizing Solar Energy Harvesting Unveiling the Efficiency Boost with Maximum Power Point Tracking in Battery Charging System	227
<i>Raghavendran C R, Kesavan T, Kaliappan E, Adhikesvaperumal S, Shanmuga Priya S</i>	
A Combination of the SMC Controller with the PI Controller for Brushless DC Motor Speed Control.....	231
<i>Samia Zehra, Aniket P Kansara</i>	
Empowering Sustainable Power Systems: Regression-Based Analysis of Building Energy Efficiency	236
<i>Surbhi Bharti, Arushi Garg, Preet Kanan, Prisha Sharma, Anya Shandilya, Ashwni Kumar</i>	
Energy Harvesting Technology for Microbial Fuel Cells	242
<i>Abdullahi Haruna Salisu, Soma Deb</i>	
Investigating Transient and Steady State Stability of IEEE-9 Bus System for Integrating Renewable Energy Using Real-Time Digital Simulator	249
<i>Altaf Alam, Faheem Ahmad, Ikbal Ali</i>	
A Protection of a Transmission Line by Distance Protection Technique in RTDS Environmental	255
<i>Faheem Ahmad, Altaf Alam, Sunil Kumar, Ikbal Ali</i>	
Solar PV and Wind Energy Fed 4 kW DC Nanogrid with Light Electric Vehicle Load.....	261
<i>Manish Raj, Anmol Ratna Saxena</i>	
AI Based Drive Cycle Prediction for HEV.....	267
<i>Ritul Gehlot, Shobha Kumari, Kuldeep Singh</i>	
Renewable Power Integrated Island Microgrid Based Frequency Controller	272
<i>Anish Kumar Pathak, Sheetla Prasad</i>	

A Resonance Based Inductive Wireless Power Transfer System for Charging Autonomous Underwater Vehicle (AUV) Batteries	278
<i>Dilruba Ferdous, Suman Saha, Ranjit Ray</i>	
Nonlinear Control of Soft Switching Technique Based DC Converters for Electric Vehicles.....	284
<i>Shovana Khan Yusufzai, Majid Jamil, Sheeraz Kirmani</i>	
Ant Lion Optimization Based PID Controller in DC Motor Speed Control.....	289
<i>Muhammad Abdullahi Musa, Jayachitra T</i>	
Path Planning for Satellite Formation Flight Using Non-Convex Model Predictive Control	295
<i>Megh Bhatnagar, Prasanna Kumar N</i>	
A Study of Operational Amplifiers in Low Power Nodes in Wireless Communication.....	301
<i>Shaina Suresh Kumar, Deeksha Sankrit, Puja Priya</i>	
FPGA-Based Automatic Pill Dispenser Using Decision Tree Classifier	307
<i>Shaina Suresh Kumar, Rahul Dev, Brajesh Kumar Singh, Nishi Agarwal, Sandeep Kumar</i>	
Mixed FSO/RF Based HAPS Relaying Communication Network for Ground Users	314
<i>Khushboo Panchal, Sujata Sengar, Shree Prakash Singh</i>	
Analysis of Fabrication Techniques for Thin Film Schottky Diode for 5G and Beyond.....	321
<i>Shilpa Srivastava, Usha Tiwari, Mohit Sahni, Manisha Rajoriya</i>	
Lowering Centre Frequency of Bandpass Filter Using VCII Based Capacitance Multiplier	325
<i>Khushboo Mehrotra</i>	
Power Quality Improvement Using Three Phase Three Wire Shunt Active Power Filter	332
<i>Nura Imam Yusuf, Sushma Kakkar, Divyansh Gautam, Pratima Walde</i>	
Design of CrossYagi Antenna with Azimuth Rotator for Tracking CubeSat in Low Earth Orbit.....	337
<i>Daya Singh, Asmit Aggarwal, Kunika Gandhi, Shuchismita Pani, Sudhir Nadda</i>	
Design and Analysis of a 3D-Printed ASA Substrate Based Antenna for Wi-Fi 6E Application.....	343
<i>Manju, Garima Saini, Balwinder S. Dhaliwal</i>	
High Isolation and High Gain Graphene Based THz MIMO Antenna	348
<i>Ruchi Agarwal, Gaurav Saxena, Ranjana Kumari, Harshit Srivastav, Dipanshu Yadav, Ishan Vishwakarma</i>	
Machine Learning Assisted Antenna Design for 5G Applications	354
<i>Karthika K, Arun Kumar S, Kishoreram K, Parameswaran R, Praaveen D</i>	
Design of 1×8 Circularly Polarized MIMO Antenna Array for N257 Frequency Bands for 5G Automotive Applications.....	358
<i>Ashish Kumar, Kinny Garg, Preeti Sharma, Isha Kansal, Anshum Srivastava, Kuldeep Sharma</i>	
Design of RF Energy Harvester for 3.5 GHz.....	362
<i>Kanchan Upadhyay, Manish Kumar, Abhay Chaturvedi</i>	
Design of Conformal Antenna for UAVs in 5G Midband for Reliable Coverage	366
<i>C. Manikandan, R Maheswari, R Karpaga Rakshitha, A Rajesh, S. Shreela, V Swetha</i>	

A 1-Bit Single Layer 16×16 Element Based High Gain Reflectarray Antenna for X Band Applications.....	371
<i>Ravi Mali, Rajkumar Jatav, Praveen Singh Rathore, Rupam Bharati, Urvashi Singh, Abhishek Kumar Saroj, Manoj Kumar Meshram</i>	
An X-Band Reflectarray Antenna with a Meander-Shaped Unit Cell Structure.....	375
<i>Urvashi Singh, Rupam Bharati, Ravi Mali, Ajitesh, Manoj Kumar Meshram</i>	
On the Use of Metal-Only Wideband Reflectarray for X/Ku Band Application	379
<i>Rupam Bharati, Ravi Mali, Ajitesh, Urvashi Singh, Arun Kumar Saurabh, Manoj Kumar Meshram</i>	
Optimized Leading Zero Count Structure for Arithmetic Computations	383
<i>M. Saahithya, N. Hemanth, M. Vinodhini</i>	
Exploring Diverse Logic Implementations and Full Adder Circuit Designs	388
<i>Charu Chaudhary, Uma Sharma</i>	
Parametric Comparison of Linear-Ion Drift and VTEAM Models.....	394
<i>Deneyaz Shaik, Satyajeet Sahoo</i>	
Chip Design Using OpenROAD.....	399
<i>Aryan Simul Udani, Suman Roy, Ujjwol Barman</i>	
ICU Monitoring Using Zynz Architecture.....	403
<i>Amrit Muskan, Yashaswini Sharma</i>	
Beamforming and Phased Arrays: Elevating MIMO-OFDM Systems for Next-Generation Wireless Networks	407
<i>Deepak Upadhyay, Kunj Bihari Sharma, Mridul Gupta, Abhay Upadhyay, Satya Prakash Yadav</i>	
Enhancing 5G Efficiency: Regression Analysis for Resource Allocation Optimization in Wireless Networks	412
<i>Padmageetha B. G, Pramod Kumar Naik, Mallanagouda Patil</i>	
Design and Implementation of Wireless Platooning for Railway Networks	418
<i>Anubhav Anand, Geetika Aswani, Vivek Verma, Amit Raghav, Neeraj Kumar, Nitin Chauhan</i>	
Energy Efficient k-Means Clustering Algorithm for WSN Using Virtual Grid and Sink Mobility	424
<i>Asif Khan, Mohd Amjad</i>	
Hermit Crab Optimization to Overcome Coverage Hole Issue for Efficient Hole Issue in WSN	430
<i>Sean Laurel Rex Bashyam, Renuga Devi S</i>	
Comparative Study of Millimeter-Wave-Over-Fiber Transmission Link with Different Photodiodes	438
<i>Ankush Singh, Sourabh Kumar Mishra, Choudhari Dinesh Achalaram, Mandeep Singh</i>	
Optimization of New Radio Physical Uplink Shared Channel Resources Allocation with Efficient Demodulated Referenced Signals and PT-RE Deployment.....	442
<i>Deepak Upadhyay, Mridul Gupta, Kunj Bihari Sharma, Abhay Upadhyay, Satya Prakash Yadav</i>	
Real-Time Health Monitoring and Telemetry Integration for CubeSat's Onboard Computer	448
<i>Kunica Kunica, Shuchismita Pani, Sudhir Nadda</i>	

Air Quality and Mango Ripening Monitoring System for Mango Units	453
<i>Sayali Patukale, Nirmal Patil, Milind Kamble</i>	
Seamless Subaquatic Connectivity: Harnessing Li-Fi for Underwater Communication	458
<i>S. Mahalakshmi, K. Valarmathi, P. A. Mathina, A. Selvam, T. Nithishkumar, T. Seenivasan, Sarathkumar D</i>	
Design of Slotted Substrate Integrated Waveguide Antenna for Ka-Band Automotive Wireless Communication	464
<i>Ashish Kumar, Gurprince Singh, Bikash Chandra Sahoo, Ashwini Kumar, Gurmeet Singh</i>	
Design of 4×4 Circularly Polarized Phased Array MIMO Antenna for Sub-6 GHz 5G Automotive Wireless Communications	469
<i>Ashish Kumar, Kinny Garg, Preeti Sharma, Isha Kansal, Mananpreet Kaur, Kuldeep Sharma</i>	
Enhancing VLSI Performance: An Innovative Approach to 3-Parallel Polyphase Odd-Length FIR Filtering with Kogge-Stone Adder and Booth Multiplier	474
<i>S. V. S Prasad, N Shyam Sunder Sagar, M V Nitya Pushkala, Siddartha Silveri, Baindla Harshitha, Sreeja Chenna</i>	
Wideband Band Pass Filter for High Band 5G Applications	479
<i>Vaibhav Kumar Ranjan, Amit Kumar, Dharmendra Jhariya</i>	
Verilog Based Architecture Computing Testability Measures for DFT Designers	483
<i>Mane Abhishek Sanjay, Sobhit Saxena, Suman Lata Tripathi</i>	
Subthreshold Biased Low Noise Amplifier for Low Power Medical Devices	488
<i>Mariam Jabali Laskar, Debaprasad Das</i>	
Design and Power Optimization of ALU Using Adiabatic Logic	494
<i>Ravi, Himanshu Kumar, Harshul Singh, Indu Banerjee, Himanshu Mishra</i>	
Improving Efficiency in Cs ₂ CuBiCl ₆ Solar Cells Through Minimizing Interface Defects	501
<i>Vishal Yadav, Jaya Madan, Nikhil Shrivastav</i>	
Impact of Temperature and Noise on Gallium Nitride Junctionless Accumulation Mode Nanowire FET (GaN-JAMNWFET)	504
<i>Anupama, Sonam Rewari, Neeta Pandey</i>	
An Optimized Low Power 10T SRAM Using FinFET Technology	509
<i>D. A. Ashiqvali, K. Jamal, D. Jayanthi</i>	
MXene: A 2-Dimensional Material for Wearable and Flexible Electronics	515
<i>Parthasarathy P, Manjunath V Gudur</i>	
Design and Implementation of Visual Cryptography Scheme	521
<i>Manisha Raj, Indu Bhardwaj, Dinesh Singh</i>	
Real-Time Fire Detection Using Image and Video Processing	525
<i>Rhythm Shah, Ruchi Gajjar</i>	
Front-End Designing and Implementation of Vedic Multiplier	530
<i>Aman Kumar Singh, Karan Gajanan Mali, Sapna Singh, Tripti Sharma</i>	
A Novel Hybrid CMOS Full Adder with Low Power and High Speed for Embedded Systems	534
<i>Charu Chaudhary, Uma Sharma</i>	

Substrate-Dependent Characteristics of AlGa _N /Al _N /Ga _N DH-HEMT: A Comprehensive Study	539
<i>Eshaan Namdeo, Sukwinder Singh</i>	
Plasmonic-Mode Driven Graphene Metasurface Perfect Absorber with Wide Frequency Agility	545
<i>Naveen Kumar Maurya, K. Siva Prasad, K. S. V. S. V. Phaneeth, N. Vasavi, N. Meghana, K. Prasanna Raju</i>	
Solar Wireless Electric Vehicle Charger with Cooling Fan Integration.....	550
<i>Aditi Ranjan Singh, Anuj Chauhan, Karunesh Srivastava, Akash Gupta</i>	
Enhancing Drain Current Characteristic in Sub-10 Nm Technology Through P+ Pocket Negative Capacitance Double-Gate MOSFET	555
<i>Neeraj Nayan Prakash, Suman Lata Tripathi, Sobhit Saxena, Balwinder Raj</i>	
PAPR Reduction Techniques for RIS-NOMA and STAR-RIS-NOMA Systems	561
<i>Podugu Monika Reethi, Anuradha Sundru</i>	
Improving the Efficiency of CIGS Thin-Film Solar Cells Via SCAPs-1D.....	566
<i>Vishal Yadav, Nikhil Shrivastav, Jaya Madan</i>	
Design of CMOS Voltage Reference Circuit Using LDD MOSFETs in BCD 110nm Technology	571
<i>Bindu Bhardwaj, Anjali Bharti, Komal Duggal, Vandana Niranjana, Richa Yadav, Shubham Jain</i>	
Optimizing Spacer Width in N-Type Lateral Hetero-Structure Junctionless TFETs	574
<i>Kaushal Kumar, Challa Harshavardhan Reddy, Mridul Gupta, Vinay Kumar, Ajay Kumar, Aditya Jain</i>	
Image Processing Based Texture Transfer Between Images	579
<i>Devanshi Jariwala, Ruchi Gajjar</i>	
Feature Map Guided Strategy for Robust Multi-Resolution Image Dehazing	585
<i>Avishek Kumar, Nagendra Kumar, Akhilesh Kumar Mishra, Gouransh Pathak, Amit Chatterjee</i>	
Real-Time Monitoring of Atmospheric Air Pollutants Using Sensor Integrated UAV	589
<i>Salam Surjit Singh, A S Themvinah, Takhelchangbam Sachi Sharma, Dairilshing Katrimsha Tarao, Biraj Shougaijam, Thokchom Chittaranjan Singh, R. K. Bigensana Singh</i>	
Analysis and Performance Evaluation of a 14 Nm Junctionless 1-FinFET Biosensor for Biological Species Detection	595
<i>Shekhar Verma, Vishal Narula, Gaganpreet Kaur Marwaha</i>	
Augmented Speech Emotion Recognition Using Machine Learning	601
<i>Suba Renjani N, Supriya. P</i>	
U-Net-Driven Advancements in Breast Cancer Detection and Segmentation.....	606
<i>Agnesh Chandra Yadav, Zawed Alam, Mohd Mufeed</i>	
Enhancing Lung Disease Classification Through Deep Learning: A Comprehensive Study and Model Evaluation	612
<i>Pratik Parihar, Sandeep Kumar, Manisha Bharati, Utsav Kumar</i>	
Implementation of Adaptive Tunicate Swarm Algorithm for Congestion Control and Link Failure Avoidance in Mobile Ad Hoc Networks.....	618
<i>Anil Kumar Bandani, Makam Venkata Subramanyam, Kodati Satya Prasad</i>	

Integrating Radar and Communication System: A Two-Stage Detection System with Ambient Backscatter for Enhanced Security	626
<i>Priti Mandal, Lakshi Prosad Roy, Santos Kumar Das</i>	
Evaluation of the Hybrid FSO/RF DF Relayed Satellite Communication Network Operation.....	631
<i>Snigdha Jain, Sujata Sengar, Shree Prakash Singh</i>	
Metal-Gate/High-k CGAA FET with Strain-engineering for Both High Speed Switching and Low-power Applications	636
<i>Rasmita Barik, Rudra Sankar Dhar</i>	
3D Printed Varying Infill Density Thermoplastic Polyurethane Substrate Based Flexible Antennas for IoT Applications	641
<i>Kamal Gurgar, Garima Saini, Balwinder S. Dhaliwal</i>	
Effect of Thickness on Dielectric Properties of 3D Printed TPU Substrate for Patch Antenna Design.....	646
<i>Manish Bijaraniya, Balwinder S. Dhaliwal, Garima Saini</i>	
Investigating EEG Biomarker Profiles Across Neurodegenerative Disease States	650
<i>Arathy Rajeev, Sandeep Kumar</i>	
Oorja: Real-Time Sustainable Power Monitoring System.....	656
<i>Neeraj Joshi, Tukur Gupta</i>	
A CPW Based Elliptical Patch Antenna for Biomedical Applications	662
<i>Lily Kumari, Munna Khan, Zaheeruddin</i>	
Design of Novel Two Port Square Spiral Hexa-Band MIMO Antenna for Wireless Applications.....	666
<i>Mayank Tripathi, Swati Chaudhary, Pratham Rustagi, Usha Sharma, Monika Kaushik, Megha Agarwal</i>	
Comparative Analysis of Channel Capacities in 6G Networks: Massive MIMO, Millimeter-Wave and Terahertz Channels	671
<i>Suyash Raj, Visakshi Rajput, Abhay Tripathi, Shilpa Choudhary</i>	
Design and Implementation of 2×2 Array Antenna for 5G and Ground-Based Navigation Applications.....	677
<i>Aditi Das, Arun Raj, Durbadal Mandal</i>	
Machine Learning Driven Personality Prediction System Using the Concept of CV Analysis	683
<i>Nandani Agarwal, Justina, M. J. Akshaya, Nihar Shetty, Siddharth Kumar</i>	
Precision Agriculture: Deep and Machine Learning Approaches for Crop Disease Predictions	689
<i>Varun M, D. Angeline Benitta, Sushama Tanwar</i>	
Smart Commerce: Unleashing Machine Learning for Optimal Customer Experiences	695
<i>Rachna Agarwal, Shipra Agarwal, Varsha Mittal</i>	
Classification of Non-Speech Sound Signals: An Approach of Machine Learning with MFCC Feature Extraction	701
<i>Rakesh Ahuja, Vikas Solanki, Vikas Khullar, Love Kumar</i>	
Automatic Number Plate Recognition System Using Machine Learning Techniques	706
<i>Avnish Dayal, Aryan Porwal, Avinash Gupta, Aditya Kumar Srivastava, Mansi Mahendru</i>	
An Analytical Comparison of Crime Prediction Using Machine Learning Techniques	710
<i>Akshat Gangwar, Deepak Bisht, Satyam Choudhary, Vivek Chauhan, Vivek Tomar</i>	

Future for Cleaner Environment: A Hybrid Machine Learning Approach for Intelligent Waste Management	716
<i>Anupriya Anupriya, Ratish Kumar</i>	
DDoS Landscape: Insight into Attacks and Tools	721
<i>Sushant Chamoli, Varsha Mittal</i>	
Gamification: The Effective Way for Better Learning.....	727
<i>Adharsh C, D. Angeline Benitta, Sherin Eliyas, Balamurugan</i>	
AI Based Attendance System Using Machine Learning.....	732
<i>S P Balakannan, Kothuri Sravani, Jeyapriya Jeyapriya, Sara Fathima, Rosini Rosini</i>	
Using Image Processing and Machine Learning to Identify Plant Diseases.....	736
<i>Baljinder Kaur, Manik Rakhra, Amitabh Chaurasia</i>	
Examining Driver Sleepiness Based on His Visual Actions with ML Techniques	742
<i>Vandana Rawat, Kaushal Patwa, Harendra Singh Negi, Anupriya Sharma Ghai</i>	
Role of Machine Learning in the Prediction of Thyroid Disease	747
<i>Priyanka Kumari, Baljinder Kaur, Anil Kumar Rawat, Manik Rakhra</i>	
Machine Learning-Based Imputation Techniques Analysis and Study.....	752
<i>Agnal Varghese Pindiyan, Pramila R. M</i>	
Predicting Heart Disease Holistically: A Machine Learning Approach.....	758
<i>Aakash Kumar, Prakhar Tripathi, Shubham Tripathi, Manik Rakhra, Baljinder Kaur, Gagandeep Singh Cheema, Vishal Pramanik, Prince Kumar, Anuj</i>	
Comparative Evaluation of Machine Learning Techniques for Breast Cancer Detection	764
<i>Atul Sharma, Natasha Pati, Mahendra Kumar Gourisaria, Amiya Ranjan Panda, Sudhansu Shekhar Patra, Parthasarathi Pattnayak</i>	
A Smart Forest Fire Detection and Notification System Using IOT and Machine Learning	770
<i>Bharati Masram, Anish Mendhe, Ayush Mishra, Aniket Pathade, Nakshatra Shindekar, Yash Kangale</i>	
Optimizing Concrete Compressive Strength Prediction: A Comparative Study of Machine Learning Algorithms.....	776
<i>H. P. Khandagale, Mahesh S. Salunkhe, Vaibhav K. Kamble, Amrita A. Manjarekar, P. P. Halkarnikar, Suraj S. Redekar</i>	
Comparative Analysis of Deep Learning and Machine Learning Models for Alzheimer's and Parkinson's Disease Classification from Medical Images	782
<i>Muskan Dixit, Aman Kumar Mishra, Isha Kansal, Vikas Khullar, Ashish Kumar</i>	
Analysis of Comparative Methods for Machine Learning-Based Lung Cancer Prediction.....	787
<i>Harendra Singh Negi, Bhawnesh Kuamr, Neelam Singh, Jaishankar Bhatt, Upendra Singh Aswal, Atika Gupta</i>	
Machine Learning Model for Heart Disease Detection: A Comparative Analysis of SVM Vs KNN.....	792
<i>Uttam Kumar Giri, Merry Saxena, Dibyahash Bordoloi, Ramamani Tripathy, Srikanta Kumar Mohapatra, Pradeepta Kumar Sarangi</i>	
Unlocking Talent: Exploring the Potential of AI and ML Algorithms in Recruitment Process	797
<i>Sankhadip Kundu, Saravanan Palani</i>	

5G User Equipment (UE) Positioning and Localization Estimation Using Machine Learning.....	803
<i>Sanket Survase, Raman Diwan, Kumari Nidhi Lal, Shishupal Kumar</i>	
Performance Evaluation on Detection of Phishing Websites Using Machine Learning Techniques	808
<i>Aejaz Nazir Lone, Mahfooz Alam, Suhel Mustajab, Mohd Mustaqeem, Mohammad Shahid, Faisal Ahmad</i>	
Enhancing Street Light Fault Detection in Smart Cities Using Machine Learning and Deep Neural Network Approaches	814
<i>Mahmood Hussain Mir, Judeson Antony Kovilpillai J, Sulaiman Syed Mohamed, Pragya, Golda Brunet R, Tawseef Ahmad Mir</i>	
A Comparative Analysis for Loan Approval Prediction Using Machine Learning.....	821
<i>Akash Badhan, Abhishek Rana, Simarjit Singh Malhi, Parampreet Kaur, Bishal Saha</i>	
A Comparative Study of ML and DL Approaches for Twitter Sentiment Classification	826
<i>Md Amir, Lekha J, Sweety</i>	
Exploring Machine Learning Applications in Cyber Attacks Detection.....	831
<i>Rina Rai, Aditi Mishra, Divya Singh, Gaurav Kumar, Anuj Kumar, Bhupal Arya</i>	
Employing Machine Learning to Detect Cross-Site Scribing Attacks with Understandable Artificial Intelligence Insights.....	839
<i>S. Amutha, Haneesh P, Manikandan V, Gawtham M N</i>	
From Algorithms to Alpha: Exploring the Role of Machine Learning in Financial Markets	845
<i>Deekshitha Chirumamilla, V. M. Manikandan</i>	
Psychological Mental Health Analysis Using NLP and Machine Learning	851
<i>Kumari Anjali, Hritik Negi, Rishabh Nautiyal, Saksham Bijalwan</i>	
A Hybrid Approach for Prediction of Autism Spectrum Disorder Using Machine Learning Algorithms.....	857
<i>Shahad Shakir, Farheen Siddiqui, Samia Khan</i>	
Parkinsons Disease Progression Prediction Using Advanced Machine Learning Techniques.....	863
<i>Tania Bhattacharya, K. T. Thomas, Lian Mathew</i>	
Machine Learning Enabled System Architecture for Automatic Grading and Sorting of Walnut Fruits: A Review	868
<i>Khalil Ahmed, Kajal, Mithilesh Kumar Dubey, Devendra Kumar Pandey</i>	
Machine Learning Techniques for Potato (Solanum Tuberosum) Leaf Diseases Detection and Classification	874
<i>Kajal Kajal, Khalil Ahmed, Mithilesh Kumar Dubey, Devendra Kumar Pandey</i>	
Machine Learning Algorithms for Stroke Risk Prediction Leveraging on Explainable Artificial Intelligence Techniques (XAI)	880
<i>Ogochukwu Ugbokeh, Versse Yiye, Ebuka Ibeke, Chinedu Pascal Ezenkwu, Vandana Sharma, Ahmed Alkhayyat</i>	
Low Cost IoT and ML Based Pesticide Level Detection in Fruits and Vegetables	886
<i>Neelima K, Fathima Nusrath Shaik, Jaffar Ali Shaik, Peddapujarla Anand, Paulraj Abhishek</i>	
A Review of Machine Learning Approaches for Cardiovascular Disease Diagnosis	891
<i>Priyasha Gupta, Prateeti Mehta Jain, Arpit Deo, Kailash Chandra Bandhu, Ratnesh Litoriya</i>	

Enhancing Cybersecurity: Machine Learning Techniques for Phishing URL Detection.....	897
<i>Subham Garnayak, Asit Kumar, Soumya Sahoo, Bholasankar Gouda, Vandana Sharma</i>	
Cyberbullying Detection in Hinglish Language	903
<i>Rajiv Kumar, Vipin Rai, Shivani Joshi, Daksh Raj, Amrita Amrita</i>	
A System of IoT Devices to Prevent Overloading and Underloading of Railway Wagons	909
<i>Deepesh Gorai, Himanshu Himanshu, Princy Maurya, Rajat Sharma, Navjot Rathour</i>	
Design and Implementation of IoT Based Vehicle Emergency Relieve System	913
<i>Mudit Sharma, Indu Bhardwaj, Saravanan D, Himanshu Parashar, Meenakshi Awasthi</i>	
IoT-Enabled Monitoring and Forecasting for Sustainable Adaptive Irrigation System Using CatBoost Algorithm.....	918
<i>Divyangini Gyani, Debomita Ghosh, Sonal, Tirthadip Ghose</i>	
The Impact of 5G on Real-Time IoT Data Processing: Exploring Challenges and Innovative Solutions.....	924
<i>S Pradeep, K Venkatesh, Sritika Bhagavatula, Rincy Roy, Polampally Bhargavi, Ankur Gupta</i>	
Enhancing IoT Security: The Role of Big Data in Building Resilient Networks	930
<i>Sateesh Nagavarapu, G. Sreeram, Sri Harini Inturi, R Venkata Vyshnavi, A. Madhu Sri, Ankur Gupta</i>	
Smart Agriculture: IoT-Enabled Precision Environmental Monitoring and Management.....	936
<i>Prashant, Nikita Singh, Ujjawal Saxena, Manvi Chaudhary, Pravartan</i>	
IoT Based Smart Wheelchair for Disabled Person	942
<i>Lalit Kumar, Ajay Shriram Kushwaha, Kartikeya Sherawat, Zishan Siddique</i>	
Real-Time Monitoring and Control of Drones Using IoT-Blockchain Integration.....	948
<i>Shiva Mehta, Aseem Aneja, Vishal Jain</i>	
Evolutional Study on KNN and K-Means Algorithms	953
<i>Hritika Vaishnav, Aanamika Choudhary</i>	
Dynamic Fire Detection and Alerting Using Image Processing for Drone Applications.....	957
<i>Abdoul Moumouni Sawadogo, C. Mohan, Dina Din Danielle Nelly, Suman Lata</i>	
Deep Transfer Learning Based Speech Recognition for Low Resource Hindi Language	963
<i>Shivangi Singh, Shobha Bhatt</i>	
Image Dehazing in Low-Quality Surveillance Footage with Deep Learning.....	969
<i>Vikas Sharma, Shyna Babbar</i>	
Empowering Skin Cancer Diagnosis: Integrating Advanced Deep Learning Models with Explainable AI for Lesion Classification.....	976
<i>Puneet Thapar, Shubham Tiwari</i>	
Enhancing Driver Safety with Transfer Learning Based Deep Learning Models for Drowsiness Detection	982
<i>Stuti Dutta, Deepak Arora, Shivam Tiwari</i>	
Enhancing Deepfake Video Detection Performance with a Hybrid CNN Deep Learning Model	987
<i>Tiyas Sarkar, Abha Singh, Rajan Kakkar</i>	

Lane Detection Using the Concept of Deep Learning and Digital Image Processing	994
<i>Shashi Kant Ojha, Abhishek Kumar, Sandeep Kumar</i>	
ContactLensIris: A Robust Iris Recognition System Based on Integrated Deep Learning Approach	1000
<i>Bhupinder Kaur, Surender Singh Saini</i>	
Comparative Analysis of Advancements in Patient Pain Detection Using Deep Learning	1005
<i>Arhina Ghosh, Nancy Gulati</i>	
Acoustic Based Drone Identification and Classification	1010
<i>Anchal Agarwal, Praveen Dhoundiyal, Vikrant Sharma, Satvik Vats</i>	
Analysis of Face Spoof Detection Methods by Using Deep Learning Techniques	1015
<i>T. V. Ramana, Vikram Neerugatti, G. S. Pradeep Ghantasala, Rajesh Sharma, Meghana Pyla, Gaurav Gupta, Pellakuri Vidyullatha</i>	
Deep Learning Technology Used High Dynamic Range Image Reconstruction and Detection.....	1021
<i>M. Bheemalingaiah, R. Srinivasan, V. Vijey Nathan, Raju Kolluri, Amit Gupta</i>	
Deep Learning Approaches for Effective Hate Speech Classification.....	1027
<i>Prachi Juyal</i>	
An Automated Deep Learning Model for Detecting Image Forgeries.....	1032
<i>Shishir Kumar Raj, Bhabani Shankar Mohanty, Jayanti Rout, Ashutosh Soni, Surendra Kumar Nanda</i>	
Spoken Language Identification Using Deep Learning.....	1038
<i>Christian Anthony Julius, S Vijayalakshmi, Tiny S Palathara</i>	
Revolutionizing Autonomous Navigation with Cutting-Edge Deep Learning Image Guidance	1045
<i>Himanshu Himanshu, Aditi Moudgil, Bhavna Sareen</i>	
Advancements in Cybersecurity Using Deep Learning Techniques Attack Detection for Trojan Horses.....	1052
<i>Hosanna Princye P, Ahila A, A. Anna Lakshmi, N. Ragavendran, K. E. Purushothaman, G. Uma Maheswari, R. Saravanakumar</i>	
Redefining ECG Detection Using CNN Autoencoder Approach Through Deep Learning	1058
<i>Bhanupartap Singh, Kanwarpartap Singh Gill, Mukesh Kumar, Ruchira Rawat</i>	
Comprehensive Analysis of Deep Learning for Accurate Knee Joint Segmentation and Classification	1062
<i>Bhagyashree Maharana, Avinash Kumar Sharma, Khushi Samridhi, Yojna Arora</i>	
Automated AI System for Online Phishing Detection and Mitigation	1069
<i>Daksh Raj, Rajiv Kumar, Shivani Joshi, Amrita</i>	
AI Bots: Navigating the Next Wave of Innovation.....	1075
<i>Md Samir Akhtar, Gauri Mathur, Manik Rakhra, Chirag Sharma</i>	
The Role of AI Counselling in Journaling for Mental Health Improvement	1082
<i>Ankit Jain, Ramandeep Sandhu, Gagandeep Singh, Manik Rakhra</i>	
Empowering E-Commerce: Leveraging Open AI and Sentiment Analysis for Smarter Recommendations	1088
<i>Yuvraj Giri, Vandana Bhagat, Ashaq Hussain Ganie</i>	

Software Vulnerabilities Using Artificial Intelligence.....	1093
<i>Harshita Durgapal, Deepak Kumar</i>	
Synthesizing Visual Narratives: Exploring AI- Driven Text-to-Video Generation.....	1099
<i>Swati Shilaskar, Sharayu Chakole, Shalmali Bhalariao, Sumeet Sapkal</i>	
Artificial Intelligence-Based Biometric Authentication Systems for Facial Recognition and Identification	1105
<i>Pranav Khare, Sahil Arora, Sandeep Gupta</i>	
Artificial Intelligence in System and Software Engineering for Auto Code Generation	1112
<i>Anupriya Sharma Ghai, Vandna Rawat, Vishan Kumar Gupta, Kapil Ghai</i>	
Generative AI Based Interior Designing.....	1117
<i>Karan Thakkar, Kunaal Vadgama, Krish Ranawat, Richa Sharma, Monika Mangla</i>	
Generative AI and Deep Fakes in Media Industry - an Innovation Resistance Theory Perspective.....	1124
<i>Dhanya Pramod, Kanchan Pranay Patil, Deepak Kumar, Dev Ratna Singh, Chandragupt Singh Dodiya, Daral Noble</i>	
Sentiment Analysis on Twitter Dataset Using Voting Classifier.....	1129
<i>Himanshu Pal, Bharat Bhushan</i>	
LEGAL AI: A Tool to Help Lawyers Optimize Their Performance	1135
<i>Allan Almeida, Shubh Shah, Neer Bhavesh Khandor, Neha Agarwal</i>	
Next-Generation Content Development: The Impact of AI Augmentation Technologies	1143
<i>Sajal Gupta, Akash Yadav, Lavesk Kashyap, Anant Gupta, Manisha Aeri, Shiv Ashish Dhondiyal</i>	
Enhancing Cardiovascular Health Through AI-Driven Heart Disease Detection.....	1149
<i>Warsha Prashant Siraskar, Parul Dubey, Niharika Das, Pushpa Chutel, Prachi Jain, Rahul Vinayak Bambodkar</i>	
A Decision Support System for Extracting Artificial Intelligence Driven Insights on Natural Disasters	1155
<i>Anushka Sinha, Kalika Pokhriyal, Siddharth Kumar</i>	
Integrating Artificial Intelligence and Multiple Intelligences for Advanced Educational Models	1161
<i>Suresh Palarimath, Pyingodi Maran, R. Venkateswaran, Wilfred Blessing N. R, K. V Shiny, S. Renuga</i>	
Privacy-Preserving AI: Leveraging Federated Reinforcement Learning in Distributed Systems.....	1167
<i>Shiva Mehta, Aseem Aneja</i>	
Investigating Key Contributors to Hospital Appointment No-Shows Using Explainable AI	1171
<i>Versse Yiye, Ogochukwu Ugboemeh, Chinedu Pascal Ezenkwu, Ebuka Ibeke, Vandana Sharma, Ahmed Alkhayyat</i>	
Artificial Intelligence for Realtime Face Recognition Attendance Using College Classrooms and Buses	1177
<i>Ahila A, Hosanna Princye P, Poonguzhali A, Kavivendhan, M. Deepa, A. Arthy, R. Saravanakumar</i>	
Leveraging Generative AI in Creating Innovative and Functional Room Designs.....	1183
<i>Harsh Ranjan, Rishikesh Kumar, Aryan, Sujal Goyal, Atri Bandyopadhyay, Prasun Chakraborty</i>	

Minimizing Air Pollution Using Artificial Intelligence	1189
<i>Rohan Gupta, Ambarish Manna, Himanshu Sharma, Priyansh Pandit, Sandip Pan</i>	
Air Pollution Prediction Systems in City Highways Using Artificial Intelligence	1195
<i>Rohan Gupta, Ambarish Manna, Himanshu Sharma, Priyansh Pandit, Sandip Pan, Yuvraj Singh</i>	
Advances in Medical Image Processing: Enhancing Diagnostics and Treatment Planning	1201
<i>Manik Rakhra, Prikshat Kumar Angra, Pritpal Singh, Anuj Sharma, Gagandeep Singh Cheema, Bhanu Sharma</i>	
Exploring Generative Adversarial Network for Image Synthesis: A Comprehensive Approach.....	1208
<i>Natasha Pati, Atul Sharma, Mahendra Kumar Gourisaria, Saurabh Bilgaiyan, Sudhansu Shekhar Patra, Parthasarathi Pattnayak</i>	
Utilizing Various Filtering Methodologies in Digital Image Processing	1214
<i>Harshdeep Singh, Sarabpreet Kaur, Preeti Sharma</i>	
Enhancing Image Generation by Fusing Auto Encoder & Transformative Generation Approach	1220
<i>Eliza Femi Sherley S, Sanjay T, Shri Kaanth P, Jeffrey Samuel S</i>	
Convolutional Neural Networks for Non-Invasive Diagnosis of Androgenetic Alopecia Using Dermoscopic Hair Images	1226
<i>Vaibhav Chhillar, Anupriya, Ansh Kant, Virat Samdarshi</i>	
Hiding Information Using Image Steganography.....	1232
<i>Harshita Rathi</i>	
Real Fake Image Classification Using Explainable EfficientNetV2S: A Comparative Analysis	1237
<i>Vikas Khullar, Rakesh Ahuja, Vikas Solanki, Amit Chaudhary</i>	
Case Study on Concentrated Solar Thermal System in Dairy Industry	1242
<i>Jane Joshita K, Divya Navamani J, Lavanya A</i>	
FDI in Developing Nations: Unveiling Trends, Determinants and Best Practices for India.....	1247
<i>Gauthami Pullipati, Ashaq Hussain, Gunavathi R</i>	
Image Recognition and Classification Using CNN: A Review	1256
<i>Maroofa Yaseen, Shailendra Narayan Singh</i>	
Comparative Analysis for Speech Recognition Using DeepSpeech	1266
<i>Chanpreet Singh, Aryan Singh, Himanshu Upreti, Shobha Bhatt, Kirti Sharma</i>	
Speaker Recognition for Hindi Language Using Convolution-ResNet Neural Network	1274
<i>Mohit Ghai, Shobha Bhatt, Divya Taneja</i>	
Continuous Health Monitoring for Early Stroke Prediction at Home	1279
<i>Aryan Kumar Singh, Ramandeep Sandhu, Anisha Joshi, Kanupriya, Aditya Partap Singh, Mona Rai</i>	
Optimizing Window Overlapping Size for Unsupervised Voice Activity Detection: A Comprehensive Review and Analysis	1285
<i>Parshotam Pal, Shilpa Sharma</i>	
Identification of Plant Disease Stage Through Leaf Analysis Using Potato Plant.....	1293
<i>Saumya, Khushi Bhatnagar, Navya Ray, Sanjay Kumar Dubey</i>	

Mern (Mongodb, Express-Js, React-Js, Node-Js) Stack Web-Based Streaming and Broadcasting Application	1299
<i>Vineet Kumar Singh, Priyank Awasthi, Lakshman Tripathi, Sahil Thakur, Priyanka Singh</i>	
Exploring Diabetic Retinopathy Diagnosis: Insights from a Comprehensive Literature Review and Initial Fundus Image Analysis	1305
<i>K Uday Kumar Reddy, M Malleswari, P Phanindra Kumar Reddy, Shaik Karimullah, Fahimuddin Shaik, Peddapullaiahgari Hariobulesu</i>	
Comprehensive Non-Pharmacological Pain Management: Integrating Mobile Applications and Wearable Devices for Chronic Pain Relief Using Artificial Intelligence.....	1310
<i>Prameet Keshore Sinha, Pranav Bhandari, Avinash Kumar Sharma, Yojna Arora, Aditya Kumar</i>	
Conversion of Text-To-Image Generation.....	1316
<i>Rishabh Chandila, Deepak Kumar</i>	
Serverless Web Application.....	1321
<i>Abdul Rahman, Deepak Kumar</i>	
Classification of Skin Cancer Detection Using CNN.....	1326
<i>Daarab Firozi, Deepak Kumar</i>	
Analysis of Glycyrrhiza Glabra Phytocompounds Using Network Pharmacology for Anti-Alzheimer Therapy	1333
<i>Nishtha Jain, Kunal Dugar, Aadya Suri, Navneeta Bharadvaja</i>	
Bayesian Filtering-Based Internet of Drone Things for Precision Drone Delivery: Challenges, Unravelling, and Future Research Scope.....	1337
<i>Amit Kumar, Bhavya Alankar, Jawed Ahmed, Harleen Kaur</i>	
Plant Disease Detection Through External Camera Sensors Using Deep Learning Techniques	1343
<i>Uttkarsh Thakur, Prabhat Kumar Srivastava, Dipak Kumar Ghosh, Amit Arora</i>	
Revolutionizing Emergency Medical Services: A Review of Ambulance Technology Advancements and Service Enhancement Strategies	1349
<i>Anshu Geetanjali, Tarun Sirohi, Ekta Singh, Aditya Kumar</i>	
SiRNA: A Distinctive Approach Towards Cancer Therapy	1356
<i>ND Yash, Jayachitra T</i>	
Evaluating the Performance of Different Machine Learning Algorithms for Crop Recommendation	1362
<i>Mudit Kumar, Parth Sharma, Radhika Pal, Preeti Saini, Supriya Shukla</i>	
Multimodal Sentiment Analysis: A GRU Approach for Improved Accuracy	1368
<i>Nalini Manogaran, Suresh Annamalai, Anbarasu V, Resmi R Nair, Balamurugan Balusamy, Parimala Vehival, Sushamass Sushamass, Arunprasath S</i>	
A Comparative Study of Deep Image Retrieval Models Leveraging Deep Features.....	1374
<i>Ashish Jain, Sudeep Varshney</i>	
Enhanced Artificial Neural Network Algorithm for Predicting Lung Cancer	1382
<i>Narravula Bharathvaz Reddy, Settippalle Sai Ganesh Reddy, Karthik Chidurala, K Krishna Rani Samal</i>	
Smart Monitoring System for Patient Illness.....	1389
<i>Roshan Pandey, Geetika Aswani, Pushkar Kumar Jha, Ravi Roshan, Ritik Kumar</i>	

A Review of Blockchain Technology: Its Benefits, Challenges, and Functionalities	1394
<i>Rajneesh Yadav, Utkarsh Mishra, Ruchin Gupta</i>	
Netrasparsh- an Innovative Ardino Based Smart Shoe for Visually Impaired.....	1400
<i>Anas Ahmed Ather, Shivam Kumar, M Anand</i>	
Testing Strategies for Software Systems Using Cognitive Computing	1406
<i>Isha Verma, Deepak Kumar, Rajni Goel</i>	
Medical Diagnostic System Using Embedding JADE in jCOLIBRI	1415
<i>Jagjit Singh Dhatteval, Kiran Malik, Purushottam Das, Kuldeep Singh Kaswan</i>	
Identification of Allium Cepa L.-Derived Flavonoids as Potential Inhibitors of Human Serum Albumin Glycation in Diabetic Nephropathy: An In-Silico Analysis.....	1420
<i>Kanjam Manocha, Shivam Bilandi, Navneeta Bharadvaja</i>	
Optimizing Network Intrusion Detection with Hybrid DTRJ Model: A Data Mining Approach	1427
<i>Anshul Aneja, Shilpa Sharma, Puneet Thapar, Shubham Tiwari</i>	
Developing a Blockchain Framework for Enhancing Security in Food Supply Chains.....	1432
<i>Manik Rakhra, Pritpal Singh, Aseem Khanna, Prikshat Kumar Angra, Ashwani Kumar, Navneet Katoch</i>	
MAS for Autonomous Vehicle Coordination in Engineering	1438
<i>Arvind Kumar, Jagjit Singh Dhatteval, Santosh Kumar</i>	
Quantitative Analysis for Stocks and Cryptocurrencies Using Python.....	1444
<i>Akshat Sharma, Ashtha Goyal, Durgaprasad Gangodkar, Yogesh Lohumi</i>	
Ensembled PreTrained Convolutional Neural Network Techniques for Human Activity Detection and Recognition.....	1451
<i>Twinkle Twinkle, Bhavneet Kaur, Paurav Goel</i>	
Fogoptimize: Advancing Job Scheduling Efficiency in Fog Computing Through Optimization	1457
<i>Nayan Chakrabarty, Arun Singh</i>	
Economic Growth, Automation and Environmental Degradation: An Empirical Evidence from Asian Countries	1462
<i>Sourajit Ghosh, Ashaq Hassin Gaine, Savithri M</i>	
Animal Classification Using Cnn Architectures.....	1469
<i>Dev Sharma, Jayesh Singh, Isha, Vipin, Divyanshi Panwar, Akanksha D, Anuj</i>	
Enhancing Book Recommendation Systems Using Collaborative Approach: A Comprehensive Study.....	1475
<i>Isha, Ahmad Afaq, Adarsh Pratyay, Kumari Priti Ranjan, Ankit Kumar, Prem Prakash Jena</i>	
Blockchain Technology's Potential in Supply Chain Management	1483
<i>Manik Rakhra, Rakhi Nagpal, Pritpal Singh, Prikshat Kumar Angra, Gagandeep Singh Cheema, Ashwani Kumar</i>	
Classification of Obstructive and Restrictive Respiratory Diseases Based on Cough Sounds	1490
<i>Gayathri Manchala, Naveenkumar Vodnala, Sagar Vumanthala, Padma Sai Yarlagadda</i>	
Exploring the Techniques for Option Pricing: An Empirical Study and Performance Assessment.....	1494
<i>Anand R N, Supriya M</i>	

DocBot Connect: A Conversational Search System Powered by Large Language Models.....	1500
<i>Ratna Patil, Sandesh Ashok Buchkul, Ritesh Sanjay Mohite, Jayesh Samadhan Borase, Anuj Khandelwal, Shitalkumar Rawandale</i>	
Pattern Recognition and Prediction in Time Series Data Through Retrieval-Augmented Techniques.....	1505
<i>Nitya Singh, Aleena Swetapadma</i>	
Ransomware Detection and Data Recovery	1511
<i>Amit Kumar Upadhyay, Preeti Dubey, Sahil Gandhi, Shreya Jain</i>	
Predictive Modeling for Diabetes Disease in Healthcare Systems	1517
<i>Somay Verma, Deepak Kumar</i>	
Evaluating Domain Coverage in Low-Resource Generative Chatbots: A Comparative Study of Open-Domain and Closed-Domain Approaches Using BLEU Scores	1521
<i>Arpita Soni, Rajeev Arora, Anoop Kumar, Dheerendra Panwar</i>	
Toxicity Unveiled: Understanding Online Conversations	1527
<i>Ratna Patil, Swapneel Kulkarni, Prajwal Ingole, Pratiyush Kumar, Sandesh Pawar, Shitalkumar Rawandale</i>	
Anxiety Monitoring and Digital Meditation Aids.....	1532
<i>Kanniga Devi R, Poorvesh Muthuraman</i>	
Empowering Learning: An Integrated Approach to Enhance Education	1538
<i>Kunal Sharma, Puneet, Deepika, Pardeep Kumar Jindal, Preeti Sharma</i>	
Block-Chain Enhanced Patient Triage System	1544
<i>Arjun P, Daniel Anandha Geethan, Kanniga Devi R, Sanjay K S</i>	
Optimizing Rose Leaf Disease Detection Performance Via Explainable Transfer Learning: A Comparative Analysis.....	1551
<i>Vikas Solanki, Rakesh Ahuja, Vikas Khullar, Somesh Thapliyal</i>	
KIA: Know it All - An All-Inclusive OSINT Tool.....	1557
<i>Gagandeep Singh Nagra, Nand Shukla, Irtika Khan, Dipti Jadhav, Anita Patil</i>	
Overconfidence Bias and Trading Volume from Indian Stock Market by Vector Autoregression Testing	1563
<i>Pooja Gupta</i>	
Exploring Advanced Methods for Tomato Leaf Disease Detection: A Convolutional Neural.....	1568
<i>Aman Gupta, Shashank Tiwari, Yojna Arora, Avinash Kumar Sharma</i>	
An Embedded-Based Feature Selection Deep Learning Architecture for Alzheimer's Disease Detection	1574
<i>Tulip Das, Chinmaya Kumar Nayak, Parthasarathi Pattanayak</i>	
Automated Safety Compliance Monitoring in Industrial Environments with Autonomous Rover	1580
<i>Sanjay K S, Kanniga Devi R, Arjun P, Daniel Anandha Geethan</i>	
Design and Implementation of a Voice-Enabled Web Application for Customer Interaction Using Natural Language Processing.....	1587
<i>Mangala Shetty, K N Ganesh, Spoorthi B Shetty</i>	
SLRMPCMC: Sign Language Recognition Using Mediapipe and Cross-Model Comparison	1591
<i>Ambuj Tripathi, Suryansh Makhloga, Sandeep Singh, Saatwik Semwal, Vivek Tomar</i>	

Campus Ease: Elevating Student Placements and Career Success	1597
<i>Mansi Mahendru, Shruti Nigam, Rishabh Bajpai, Zubain Ahmad</i>	
Individualized Guidance in Yoga Practice: A Comparative Analysis of Technology Solutions	1603
<i>Miti Gosalia, Ronik Dedhia, Sakshi Doshi, Richa Sharma, Monika Mangla</i>	
A Comparative Analysis of GCN and GAT for Predicting Protein-Protein Interactions	1609
<i>Prayuj Sachdev, Sragvi Varanasi, S. Dhanalakshmi</i>	
Brain Tumor Detection Using Optimized Stochastic Gradient Descent Function.....	1615
<i>Annu Mishra, Ravi Prakash Chaturvedi, Hirdesh Sharma, Prashant Kumar, Sameer Asthana, Mayank Parashar</i>	
Optimizing Cloud Resources with Elephant Herding Optimization: A Novel Approach for Efficiency and Scalability.....	1621
<i>Afsar Jahan, Varsha Mittal, Neelam Singh, Vandana Rawat, Jai Shankar Bhatt</i>	
Securing Patient Health Records Using Blockchain.....	1626
<i>Daniel Anandha Geethan, Arjun P, Sanjay K S, Kanniga Devi R</i>	
Smart Dining Room Ordering with Sentiment Analysis for Customer Satisfaction: The Intelligent Restaurant Concept.....	1632
<i>Nilakshee Rajule, Sheetal Pawar, Mithra Venkatesan, Akash Fasate, Ganeshwari Patil, Arti Madawan</i>	
Deploying and Assessing the Efficiency of Ethereum Blockchain for Ensuring the Security of Web of Things.....	1637
<i>Gagandeep Singh Cheema, Babli Dhiman, Manik Rakhra, Rajinder Singh Kaundal, Pritpal Singh, Jaspreet Singh</i>	
Unveiling Prognostic Pattern: A Hybrid Approach for Predictive Analytics in Medical Image Data	1644
<i>Uttkarsh Parmar, Anil Kumar Dubey</i>	
Challenges and Opportunities to Enhance Buffer Management for Disaster Area in Delay Tolerant Network: A Review with Performance Analysis	1650
<i>Ajay Prasad, Sandeep Gurung, Kalpana Sharma</i>	
Deciphering How Country of Origin and Brand Trust Impact Generation Z's Purchasing Choices: A Comprehensive Analysis	1659
<i>Tanya Rawal, Shipra Agarwal</i>	
Automated Landslide Detection Using Ensemble Learning.....	1665
<i>Tanishka Jain, Subhash Agrawal</i>	
Existing Techniques for Fundamental, Technical and Sentimental Analysis for Stock Investment.....	1671
<i>Mohammad Shaazan Muzaffar, Shivam Niranjana, Kadugula Joel, Anuj Kumar, Pashupati Baniya, Atul Agrawal</i>	
A Web Traffic Data Analysis System Based on Statistical-Analytical Report Generation	1678
<i>Paramjot Kaur Sarao, Anupriya</i>	
Stochastic Sentiment Analysis for Trading Signals Based on Financial News Headlines	1684
<i>Anurag Singh, Mahalakshmi P.</i>	
An Effective Hybrid Approach for Housing Recommendation System	1689
<i>Deepak Upadhyay, Ajay Kumar Mishra, Ketki Goel, Sparsh Nagpal, Jaskeerat Singh Chhabra, Saksham Mittal, Yogesh Lohumi</i>	

Machine Learning in Action: Supervised Learning Models for Classifying Credit Card Fraud	1693
<i>Rishab Pendalwar, Aditya Verma, Ratna Patil</i>	
Segmenting Image and Removing Obtrusive Elements	1698
<i>Anirudh Singh, Vishank Gupta, Yash Gupta, Dikshant Kamboj, Ashwini Kumar Singh, Preeti Malik</i>	
Smart Fashion Recommendation System Using Random Forest Algorithm	1705
<i>Shivangi Patel, Arneet Kaur, Theertha Sudheer Babu Nair, Shamneesh Sharma, Vikas Verma, Nishant Agnihotri</i>	
ESports on the Rise: A Statistical Odyssey Unveiling the Probability of Growth	1710
<i>Mayank Kumar Yadav, Kiran Utreja</i>	
Enhancing Text-Independent Speaker Verification Through Advanced Deep Representation Feature Analysis with Neural Networks	1715
<i>Kushagra Agrawal, Esha Tripathi, Himanshu Kumar Diwedi, Ayush Tripathi, Aniket Singh</i>	
Classification of Melanoma Skin Cancer Using Convolutional Neural Network	1720
<i>Lokesh S, France K, Sherine Eliyas</i>	
Hybrid Approaches for Stocks Price Prediction: A New Institutive Way of Neural Architecture Design	1728
<i>Vikram Sharma, Manik Rakhra, Vikrant Sharma, Tiyas Sarkar, Amanpreet Singh, Kapil Jairath</i>	
An Effective Approaches for Auto Bill Generator System	1734
<i>Ramandeep Sandhu, Harpreet Kaur, Seema Gabba, Aryan Kumar Singh</i>	
Optimizing Customer Experience in Online Shopping: A Hyperparameter Tuning Approach	1739
<i>Arti Ranjan, Arvind Kumar, Satyajee Srivastava</i>	
Deep Learning Solution for Crop Health Monitoring Using CNN in Smart Agriculture	1744
<i>Ayush Dhyan, Harjot Singh, Purvi Rawat, Manisha Aeri, Avendra Singh Chauhan, Shiv Ashish Dhondiyal</i>	
Comparative Analysis of Methods of Yoga Pose Classification	1750
<i>Saakaar Barthwal, Sahil Negi, Manika Manwal</i>	
Federated Learning Approaches for Enhanced Chinese Text Classification Across Diverse Domains	1755
<i>Shiva Mehta, Manpreet Singh, Vishal Jain</i>	
Scaling Up the Transformers: A Survey of Training and Inference Optimization Techniques	1760
<i>Hadya Jahangir, Shobhit Kumar Goel, Shiraz Khurana</i>	
An Innovative Approach: Hybrid Firefly Algorithm for Optimal Feature Selection	1766
<i>Pooja Rana, Isha Batra, Arun Malik</i>	
Improving Table Tennis Serve Tactics with Convolutional Neural Networks and Random Forests	1770
<i>Shiva Mehta, Sunila Choudhary</i>	
Innovative Serve Shot Analytics in Table Tennis Using CNN-LSTM Framework	1776
<i>Shiva Mehta, Danish Kundra</i>	
Hybrid Approaches to Device-Directed Speech Detection Using Multimodal Data	1782
<i>Shiva Mehta, Savinder Kaur</i>	

Enhancing Liver Cancer Diagnosis with Hybrid CNN-Transformer Architectures	1786
<i>Shiva Mehta, Abhinav Rathour</i>	
Blockchain-Powered Solutions for Ensuring IoVT Data Confidentiality and Integrity	1791
<i>Shiva Mehta, Ravi Kumar</i>	
Towards Smarter Cities: Federated Learning and CNN for Pothole Detection	1795
<i>Shiva Mehta, Pooja Sharma, Vishal Jain</i>	
CNN-Driven Innovations in Dysarthria Classification and Speech Disorder Management	1800
<i>Aakriti Kheterpal, Kanwarpartap Singh Gill, Deepak Upadhyay, Swati Devliyal</i>	
Pioneering Enzyme Classification by Combining EDA with Sequential Neural Networks	1805
<i>Aditya Kumar, Kanwarpartap Singh Gill, Deepak Upadhyay, Swati Devliyal</i>	
Data Protection Strategies: Employing IBBE and Attribute-Based CPRE for Secure Data Distribution.....	1810
<i>Erasappa Murali, J. Jerinjose, L. Lakshmi Sharanya, K. Lokeswari, K. Roshini, D. Kalpana</i>	
Automated Generation and Evaluation of MultipleChoice Quizzes Using Langchain and Gemini LLM	1815
<i>Pratik Pawar, Raghav Dube, Amogh Joshi, Zinee Gulhane, Ratna Patil</i>	
A Novel Shuffle Encode Distil Model for Suicide Risk Detection in Social Media.....	1822
<i>Nitanshi Chandil, Ankita Sengar, Sapna Kushwah</i>	
Human Action Recognition Using Pose-Guided Graph Convolutional Networks and Long Short- Term Memory.....	1828
<i>Parimi Enosh, Jandhyam Lakshmi Alekhya, Palli Sai Nithin, Yenuga Devika</i>	
Mango Fruit Disease Detection by Integrating MobileNetV2 and Long Short-Term Memory	1835
<i>Jandhyam Lakshmi Alekhya, Palli Sai Nithin, Parimi Enosh, Yenuga Devika</i>	
Lazy Merge Sort: An Improvement Over Merge Sort	1841
<i>Sachin Pandey, Anika Gupta</i>	
Genetic Algorithm-Based Time-Table Creation System.....	1847
<i>Richa Gupta, Pankaj Chadda, Yogesh Kumar Bhatt, Arti Rawat, Gaurab Singh</i>	
Automated Detection and Classification of Motorcycle Number Plate Formats to Improve Road Safety.....	1853
<i>S. Sowmyayani, S. Maheswari, S. K. B. Sangeetha, Sandeep Kumar Mathivanan, Balamurugan Balusamy, Shilpa Gite, Nilkanth Deshpande</i>	
AR and VR Are Transforming Video Game World: A Comprehensive Review.....	1860
<i>Amayvikram Sorot, Aditya Kalia, Ashish Kumar, Anshu Singla, Ajay Kumar, Kuldeep Sharma</i>	
Next Word Prediction System Using NLP.....	1866
<i>Hiya Shivnani, Rashmi Sontakke, Bhushan Sisode, Pranesh Puri, Ratna Patil</i>	
Estimation of Respiratory Rate Using Facial Video Analysis	1871
<i>Munna Khan, Gaytri Gupta, Manaullah Manaullah, Kashif Ik Shervani</i>	
A Progressive Approach of an Augmented Steganography for Network Peers	1876
<i>B. Pavan Kumar, N. Monika, T. C. Sravani, C. Sasi Preetham, V. Varuntej Reddy, Manish Kumar Gupta</i>	

Robust Cattle Disease Classification Using Convolutional Neural Networks and Support Vector Machines	1882
<i>Shiva Mehta, Rajat Saini</i>	
Brain Tumor Detection Using Modified VGG-19 Model.....	1887
<i>Sai Shanmukh Ulli, Hanish Akkineni, Uma Santhosh Vuyyuru, Sai Ram Pathyala, Uttej Kumar Nannapaneni, B. Suvarna</i>	
Brain Tumor Segmentation Using UNet with VGG19	1892
<i>B. D. K. Patro, Utkarsh Yadav, Naveen Yadav</i>	
Effectiveness of Telemedicine in Disaster Relief Response Management	1898
<i>Prashant Verma, Ahmed Alkhayyat, Sushruta Mishra, Vandana Sharma</i>	
Mental Health Stigma: Strategies for Destigmatization in Healthcare Settings	1905
<i>Aishwarya Verma, Krishna Tanaya Panda, Vandana Sharma, Hrudaya Kumar Tripathy, Mahmoud Ahmad Al-Khasawneh, Ahmed Alkhayyat</i>	
Understanding Sign Language Recognition: An Overview.....	1911
<i>Shivani Saini, Meenu Prjapati, Bhupal Arya, Ravinder Kumar Sharma, Manoj Kumar</i>	
Attention-Based Improved YOLOv5 for Effective Waste Detection and Classification System	1919
<i>Anupriya, Ratish Kumar</i>	
Dynamic Container Optimization for Efficient Microservices Deployment	1925
<i>Utkarsh Tiwari, Srishti Rai, Ishu Gaur, Shiraz Khurana</i>	
Integrating AES-GCM, ECC, and Steganography for Enhanced Confidential Communication.....	1931
<i>Shrinivas S, Varun G K, Priya Thiagarajan</i>	
Rating-Based Cyberbullying Detection with Text, Emojis on Social Media.....	1936
<i>Arjun Krishna K, Divya Jadhav, S. Vijayalakshmi, Tiny S Palathara</i>	
Real Time Hand Gesture Recognition and Human Computer Interaction System.....	1942
<i>Harsh Solanki, Deepak Kumar</i>	
Real-Time Threat Detection and Mitigation in Web API Development.....	1947
<i>Subhadeep Chell, Sainath Chakare, Pinnarwar Sohan, S. Sandosh</i>	
Analytical Study of Pre-Trained Transformers in Natural Language Generation.....	1956
<i>Varun Goyal, Mukul Gaur, Anuj Rawat, Shivam Garg, Sapna Jain</i>	
Childhood Asthma Prediction Using Combined CNN and Linear Regression Integration	1960
<i>Sampan Basu, Vandana Sharma, Sushnita Mishra, Mahmoud Ahmad Al-Khasawneh, Ahmed Alkhayyat</i>	
Recognition of Facial Emotions Using CNN Architecture and FER2013	1966
<i>Bernard Thomas, Adityavikram Bhatt, Shailendra Narayan Singh</i>	
Contextual Recommendation System: A Revolutionary Approach Using Hadoop, Spark, NLP and LLMs.....	1972
<i>Balagangadhar Reddy Kandula, Lija Jacob</i>	
BlockFin: AI and Blockchain Synergy for Secure Digital Financial Systems.....	1976
<i>Khush Shah, Lakshit Pathak, Khushi Shah, Nilesh Kumar Jadav, Sudeep Tanwar, Nagendar Yamsani</i>	

Privacy Preserving and Federated Learning-Based Drowsy Driving Detection for ITS	1982
<i>Atir Sakhrelia, Ali Asgar Padaria, Nilesh Kumar Jadav, Rajesh Gupta, Sudeep Tanwar, Nagendar Yamsani</i>	
A Study on Multifactor Biometrics Based on Convolutional Neural Network	1988
<i>Kunjrani Sorathia, Vimi Patel, Vidhi Patel, Jignesh Thaker, Ashlesha Bhise</i>	
Techniques for Protecting Privacy in Big Data Security: A Comprehensive Review	1994
<i>Divya Joshi, Akash Sanghi, Gaurav Agarwal, Bhuvan Joshi</i>	
Reinforcement Learning-Based Optimized Driving Behaviour Framework for Autonomous Vehicles in Intelligent Transportation System	2001
<i>Kahan Gokul Jash, Jugal Patel, Rajesh Gupta, Nilesh Kumar Jadav, Sudeep Tanwar, Shivani Desai</i>	
Enhancing Data Privacy and Accountability in Smart Grids with Blockchain Technology	2007
<i>G. Indiravathi, M. P. Kumar, Anumulgundam Usha, Roshan Kumar, T. Lohith, Shaik Shahid</i>	
IPL Player Valuation: A Data-Driven Approach for Efficient Auctions Using K-Means Clustering.....	2013
<i>Karan Punjabi, Lekha J, Sweety</i>	
Analyzing Awareness and Adoption of E-Commerce and Online Transactions in Rural India: Bridging the Digital Divide for Rural India	2018
<i>Ayush Gupta, Abhinav Prajapati, Avinash Kumar Sharma, Aditya Kumar, Yojna Arora</i>	
Performance Analysis of a Queuing Dynamics Model in a Supermarket to Optimize the Efficiency: Case of Monte Carlo Simulation	2024
<i>Chandan Singh Ujarari, Rakesh Chandra Bhadula, Shshank Chaube, Rajesh Kumar Mishra</i>	
Third Eye – a Compact Wearable Device and Dedicated Android App for Disabled Senior Citizens and Patients.....	2030
<i>P. Dhakshak, Alastair Bill Veigas, K. Anudeep, G. R. Pradyumna, Roopa B. Hegde</i>	
Enhanced Hepatitis B Diagnosis: Analysis of Intelligent Systems Utilizing Fuzzy Logic.....	2036
<i>Shankar Yadav, Janpreet Singh</i>	
Exploring Strategies and Motivational Tools for Female Employee Job Satisfaction and Longevity.....	2042
<i>Yogita Pant, Jai Jayant</i>	
Ranking Schools with Multiple Features: An Integrated Approach Using Data Analytics and Algorithm	2048
<i>Kunal Singh, Divyanshu Srivastava, Nidhi Mishra</i>	
English-To-Hindi Speech-To-Speech Translation of Interviews with Automatic Voice Switching.....	2055
<i>Mahendra Gupta, Maitreyee Dutta</i>	
The Impact of Cloud Computing on Data Science and Engineering: Opportunities and Challenges.....	2061
<i>Ankush Joshi, Vikash Kumar, Gesu Thakur, Harsh Vardhan Pant, Bhanu Pratap Singh</i>	
Revolutionizing Bone Injury Diagnosis with Advanced Deep Learning Approaches	2065
<i>Bhavik Kumar, Kanwarpartap Singh Gill, Deepak Upadhyay, Swati Devliyal</i>	
Exploring Technological Interventions for Dyslexia Across Multilingual Contexts	2070
<i>Manasvi Singh Chauhan, Isha Raghav, Vivekanand Jha, Khushi Singh, Ankita Kumari</i>	

A Comprehensive Framework for Unmanned Aerial Vehicle (UAV)-Enabled Real-Time Human Detection System for Disaster Management	2076
<i>Govind Murari Upadhyay, Mukesh Joshi, Preeti Rathi, Prashant Vats, Meenakshi Narula, Shashi Kant Gupta</i>	
Multiple Sequence Alignment in DNA Using Recurrent Neural Networks	2082
<i>Dineshdarsi, Rajesh Singama Neni, Krishna P. J. S, Sushma S</i>	
Enhancing UAV Detection and Tracking Range Utilizing KNN and Canny Edge Detection	2089
<i>Hersh Pathak, Nayanjit Pattanaik, Niharika, Akhil Pandey, Sanjay Singh</i>	
Improving Heart Disease Monitoring Through Intelligent Hybrid Inference Systems.....	2094
<i>Janpreet Singh, Dalwinder Singh</i>	
Optimization of YOLOv8 for Defect Detection and Inspection in Aircraft Surface Maintenance Using Enhanced Hyper Parameter Tuning	2100
<i>Shailaja Pasupuleti, Ramalakshmi K, Varaha Madhavi Pattisapu</i>	
Categorization of Textual Data: Harnessing Recurrent Neural Networks and Concept Net for Extensive Topic Mining.....	2106
<i>Bhavneet Singh, Amita Jain, Ashpreet Kaur, Devendra Kumar Tayal, Basant Pal Nandi</i>	
Crypto Currency-Bitcoin Price Predictor Using Linear Regression and Random Forest.....	2112
<i>Tarundeep Singh, Sarthak Mishra, Deepak Pandey, Chandani Sharma, Sakshi Koli, Kapil Joshi</i>	
Enhancing User Revocation Mechanisms for Shared Resources to Strengthen Data Security in Public Clouds	2117
<i>P. Vamsipriya Darshini, D. Sangeetha, S. Dinesh Krishnan, V. Sathya Priya</i>	
Navigating the Landscape: A Comprehensive Review of State-Of-the-Art Traffic Detection Approaches and Unveiling Open Research Challenges	2123
<i>Manisha Aeri, Kamlesh C. Purohit</i>	
AI-Based Methods to Detect and Counter Cyber Threats in Cloud Environments to Strengthen Cloud Security	2129
<i>Diwakar Chaudhary, S K Verma, Vijay Mohan Shrimal, Ravikiran Madala, Rashi Baliyan, Sathish M</i>	
Strengthening Cloud Security for Unauthorized Access Prevention	2135
<i>V. Balaji, B. Pavan Kumar, G. Lokamanya, B. Rammohan, S. Rakesh, M. Nethaji</i>	
Individualized Mastery Quest: Crafting Customized Question Papers and Dynamic Hint Generation for Personalized Learning Journeys Using Cutting-Edge Rank-Based Algorithm.....	2140
<i>Nithin. P, Sherin Eliyas, Sathish Kumar M, Balamurugan Balusamy</i>	
Smart Crop Recommendation System with Plant Disease Identification.....	2146
<i>Ravikant Diwakar, Amit Kumar, Gaurav Kumar, Aditya Choudhary, Jaya Vashistha, Abhaya Kumar Sahoo</i>	
Classification of Lesions in Brain MR Images Using Probabilistic Neural Network Classifier	2152
<i>C D Merlin, V C Subash Bala, G Ranjith Kumar, R Surya</i>	
A Novel CNN-Based Approach for Pneumonia Detection Using Keras and TensorFlow.....	2158
<i>Vikas Sharma, Ramandeep Sandhu, Jatinder Kaur, Harpreet Kaur, Sandeep Chouhan, Manik Rakhra</i>	

Dual-Model Approach for Diabetic Retinopathy and Macular Edema Detection	2163
<i>A. Ancy Micheal, Ladi Jeevan Sai</i>	
Real-Time Sign Language Recognition.....	2168
<i>Rohan Gupta, Chirag Pandit, Krishnam Gupta, Prabhjot Singh</i>	
Navigating the Cyber Battlefield: Understanding Threats and Safeguarding Digital Frontiers	2173
<i>Suyash Satish Shinde, Ganesh M. Kale, S. L. Nalbalwar, S. B. Deosarkar</i>	
Study of Failures in Continuous Integration Environment	2179
<i>Prameet Keshore Sinha, Parma Nand, Sanjay Singh Chauhan, Smita Tiwari</i>	
Deep Learning Application in PQRS Segment Detection in ECG Data.....	2185
<i>Amit Kumar Pandey, C. L. P. Gupta</i>	
Integrated Methodology for Early Glaucoma Diagnosis Using Retinal Fundus Images	2190
<i>S Ashok Kumar, Pandurangaraju B, Balaraju Vijayalakshmi, P Phanindra Kumar Reddy, Shaik Karimullah, Fahimuddin Shaik</i>	
Aqua Foresight Logistics Regression Based Rainfall Prediction	2196
<i>Saraswathi P, Prabha M, Nega P R, Santhoshini T S</i>	
Anomalous Behavioral Pattern Analysis for IoT Application Using Firewall	2201
<i>Mayank Agrawal, Preeti Badhani, Neha Tripathi, Neeraj Kumar Pandey, Amit Kumar Mishra, Ankur Dumka</i>	
IoT-Enabled Smart Cities: A Systematic Review on Emerging Technologies	2206
<i>Rahul Joshi, Krishna Pandey, Suman Kumari</i>	
Metaheuristics Approaches Towards Secure and Optimized Routing in IoT: A Systematic Literature Review	2212
<i>Rohit Beniwal, Vinod Kumar, Vishal Sharma</i>	
Blockchain Empowerment: Revolutionizing IoT Device Security with Ethereum	2218
<i>Ruchika Devi, Amanjot Kaur</i>	
IoT-Based Transportation System: An Enabler for the Sustainable Environment	2224
<i>Chandra Prakash Gupta, V. V. Ravi Kumar, Anil Khurana</i>	
IoT Based Smart Fall Detection Device for Elderly People	2229
<i>Shiv Narain Gupta, Asif Hussain, Abhishek Kumar, Indradev Pramanik</i>	
Design and Development of IoT Based Agricultural Vehicle for Crop and Weed Management	2234
<i>B. Apoorvavijay, Sailaja Sapidi</i>	
Revolutionizing Agriculture Through Cyber Physical Systems: The Role of Robotics in Smart Farming	2240
<i>T. Chithrakumar, Sandeep Kumar Mathivanan, M. Thangamani, Rajasekhara Babu L, Balamurugan Balusamy, Shilpa Gite, Nilkanth Deshpande</i>	
Reliability Modeling of Network Structures in a Fuzzy Environment	2246
<i>Vidisha Sharma, Aditi Bisht, Akshay Kumar, Shristi Kharola, Mangey Ram</i>	
Intelligent Traffic Management System: An Advanced Solution for Helmet Compliance, Traffic Signal Violation Detection, Number Plate Identification	2250
<i>Surekha, Gudla Jaya Krishna, Damojipurapu Venkata Karthikeya</i>	

Design and Development of an IoT Based Real-Time Virtual Smart Energy Meter Using Labview.....	2255
<i>Ilboudo Mouniratou, T Jayachitra, Suman Lata</i>	

Author Index