

2025 International Conference on Cognitive Computing in Engineering, Communications, Sciences and Biomedical Health Informatics (IC3ECSBHI 2025)

**Greater Noida, India
16-18 January 2025**

Pages 1-758



**IEEE Catalog Number: CFP25ZZ4-POD
ISBN: 979-8-3315-1853-0**

**Copyright © 2025 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:	CFP25ZZ4-POD
ISBN (Print-On-Demand):	979-8-3315-1853-0
ISBN (Online):	979-8-3315-1852-3

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 Content

Sr. No.	Content	Page No.
1	"AI-Based Cancer Risk Assessment Models: Current Trends Overview" Surbhi Jha, Neeta Singh, M.A. Ansari	1
2	"Role of AI in Breast Cancer Detection through Medical Image Analysis: Overview, Methods, and Unresolved Problems" Surbhi Jha, Neeta Singh, M.A. Ansari	9
3	"Enhancing Drug Sensitivity Prediction in Cancer Cell Lines Using Multi-Omics Data and Machine Learning" Sara Amjad, M. Azhar Aziz, M. M. Sufyan Beg	19
4	"AI-Enhanced Multi-Dimensional Stochastic Process Modeling for QoS Analysis in 6G Networks Under Joint Fading and Dynamic Interference Constraints in α - η - μ Environments" Deepak Upadhyay, Alankrita Aggarwal, Pardeep Singh, Deepak Suresh Asudani, Nookala Venu, Aakash Singh Ranswal	25
5	"Digital Twins for Predictive Maintenance in Renewable Energy Grids with Tokenized Transactions: A Review" Mukul Singh, Vishvajeet Yadav, Devesh Singh Pal, M.A.Ansari, Omveer Singh, Vikash Patel	31
6	"Improved Regression Models for Solar Photovoltaic Power Output Prediction" Nitin Singh, Prem Prakash Vuppuluri, Rajeev Kumar Chauhan	37
7	"Analysis of Detailed-Phasor and Phasor-Phasor Model of Phase Shifting Transformer using On-Load Tap Changer" Mukul Singh, M.A.Ansari, Omveer Singh, Vishwamitra Singh, Vikas Beniwal, Vaibhav Porwal	42
8	"Enhanced Network Experimentation with Machine Learning-Driven Analysis of Beaulieu-Xie Fading and κ - μ Co-Channel Interference Effects" Raj Ranjan, Anil Kumar, Pardeep Singh, Deepak Suresh Asudani, Deepak Upadhyay, Nookala Venu	48
9	"Virtual Reality for Sustainable Energy" Wai Yie Leong, Yuan Zhi Leong, R. Kumar	54
10	"Digital Twins for Scaling Electrical Startups through AI-Driven Recommender Systems and Tokenized Energy Markets: A Vision for Future" Mukul Singh, Sangeeta, M.A.Ansari, Omveer Singh, Vikash Patel, Vishvajeet Yadav	59
11	"Machine Learning Models for Early Detection of Cardiac Arrest Risk Factors" Shantanu Bindewari, Kanhaiya Sharma, Sesha Saisrikar Gaddam, Ananta Verma, Deepak Parashar, Mahesh Arse	65
12	"Threat Detection in IoT Systems Using Deep Learning Mechanism" Shashank Prasad, Neha Tyagi	70
13	"Machine Learning Algorithms for Depression Detection and Their Comparison" Furqan Yaqub Khan, Danish Muzafar Khanday, Abrar Qadir Mir, Tawseef Ayoub Shaikh	76
14	"An Overview of Quantum Cryptography Evolution from Classical Cryptography" Pankaj Singh, Ashutosh Srivastava, Divya Srivastava, Shivam, Madhushi Verma, Vaishnavi Srivastava	81
15	"When Human meets AI: The Study of Association between AI and Humans" Pooja Devi, Dr. Preeti Tyagi, Amber Tiwari, Rakesh Kumar, Shashank Awasthi, Sansar Singh Chauhan	87
16	"Transforming the Solid Waste Management Systems through Artificial Intelligence: A Comprehensive Study" Dr. Pooja Devi, Sushil Kalyani, Dr. Ankita Chaturvedi, Rakesh Kumar, Shashank Awasthi, Manas Kumar Mishra	92

17	"A Pathway to efficiency and transparency of Indian Taxation system through AI technologies: NLP and Big data analytics" Pooja Devi, Dr. Gaurav Bagra, Dr Renu Pandey, Gurleen Kaur Anand, Dr. Ankita Chaturvedi	98
18	"A Comprehensive Review of Privacy-Preserving Techniques in Health Data Analysis" Safikur Rahman Khan, Mohd Waris Khan	104
19	"Revealing Confidential Information: The Function of Data Analytics for Participants in Contemporary Energy Internet" Dr. Subhash Bhagavan Kommina, Dr. Shahnaz K V, Gaddam Ashok, Sruthi Yenninti, G. Deepa, Regonda Nagaraju	110
20	"Detection of Brain Haemorrhage using Convolutional Neural Network" Dr. Mahesh Prasanna K, Gadidala Venkatesh, Kandle Navaneetha, N. Naveena, F. Sheeja Mary, Dr. Balambigai Subramanian	116
21	"Eavesdropper-Aware Optimization of Cooperative Relaying Networks in the Presence of Heterogeneous Interference" Deepak Upadhyay, Anil Kumar, Sonia Rani, Deepak Suresh Asudani, Aakash Singh Ranswal, Nookala Venu	120
22	"Enhancing GPT-2 Text Generation through Reinforcement Learning and Token-Based Environments" Kanika Debbarma, Koj Sambyo	126
23	"Evaluation of Software Development Effort Estimation via Computational Intelligence" Mahesh Bahadur Singh, Dr. Asif Khan	132
24	"Optimal Treatment Planning in Real-Time Using AI and Multi-Objective Optimization for Chronic Disease Management" Ashish Sharma, Neetu Dixit, Vishal Mittal, J ai Narayan Shukla, Abhishek Kumar gupta, Sujeet Kumar	137
25	"Functional brain dynamics of medial anteroposterior network for EEG-based depression detection" Nausheen Ansari, Yusuf Khan, Omar Farooq	143
26	"COMPARATIVE ANALYSIS OF MACHINE LEARNING ALGORITHMS ON CREDIT CARD FRAUD DETECTION" Dev Sharma, Esha Kaur, Nikunj Sharma, Daksh Rawat, Satya Prakash Yadav, Manika Manwal	147
27	"Unveiling Deception: Machine Learning Strategies for Fake News Detection and Classification" Aayush Kunwar, Mayank Aggarwal, Neha Sharma, Daksh Rawat, Satya Prakash Yadav, Manisha Aeri	151
28	"Optimizing Drug Discovery using Computational Databases and Bioinformatics for Terminalia arjuna Plant" Neema Bisht, Amrita Verma Pargaien, Sonia Pandey, Kanak Pandey, Anushka Rawat	156
29	"Impact Analysis of Nasdaq-100 using Machine Learning Algorithms" Mohd. Tushif Akhtar, Shreshth Goyanka, Alka Chaudhary	161
30	"Applications of Gaming in Security Division for Training and Simulation" Tanishq Narula, Shreshth Goyanka, Alka Chaudhary, Shuchi Sethi	167
31	"Simplified Implementation of Histogram Equalization using Approximation Offset" Chetan Singh Rajput, Sandeep Sharma, Rajesh Mishra	170
32	"The smart optimization of anomaly detection in video image processing using Swin-Transformer" Anil Kumar Gupta, Rupak Sharma, Rudra Pratap Ojha	178
33	"A Contemporary Approach to Acknowledge Vehicle Registration Numbers Using Deep Learning-Based Edge Detection Methods" Savita Gaina, Krishan Kumar	183
34	"Advances in Crop Yield Prediction: From Traditional to Machine Learning Models" Priyanka Agiwal, Dr. Rajendra Gupta	189
35	"System Reliability Modelling under UGF and Intuitionistic Fuzzy Application" Aditi Bisht, Vidisha Sharma, Shruti Kharola, Akshay Kumar, Mangey Ram	195

36	"AI in Telecommunication: Revolutionizing Signal Processing and Communication Networks in Smart Grid" Shweta Dewangan, Geetha Manoharan, Srishti Shaifali Minz, Sanjeev Kumar, Dr Mohammad Badruddoza Talukder, Krishan Arora	199
37	"Clustering Targets in Wireless Sensor Networks" Nikita Gupta, Dr. Usha Tiwari	205
38	"Comparative Analysis of Machine Learning Models for Breast Cancer Diagnosis" Aasiya Fatima, Mohd Yusuf Ansari, Azra Malik	210
39	"Artificial Intelligence (AI) in Systems of Renewable Energy: A Concise Overview of its uses and Approaches" Aneep Kumar, Rajnandani Yadav, Shalu	216
40	"Comprehensive Examination of Depression Detection Through Multimedia Content on Social Media platforms" Chayan Preet Walia, Priti Maheshwary	221
41	"Microgrid System for Rural Electrification using Standalone Solar PV and Batteries to Promote Green Energy" Mohd Bilal, Shaista Praveen, Imdadullah, Salman Hameed, M.S. Jamil Asghar	227
42	"CSRR Based Decoupled Dual Port MIMO Antenna for 5G Applications" Preeti Sharma, Rakesh N. Tiwari, Prabhakar Singh	233
43	"Advanced Predictive Modeling Techniques for Early Detection of Diabetes Mellitus" Ishika Baliyan, Nitika, Suhasini Monga	238
44	"Evaluating the Severity of Parkinson's Disease Using Machine Learning Classifiers" Rinki Singh, Deepti Goyal, Shikha Arora, Jagrati Malviya, Deepak Garg	243
45	"5G RAN Management- The Potential of Smart Contract Blockchain" Ranjan Kumar Srivastava, Neeta Singh, Anurag Singh Baghel	249
46	"From Sensor to Insight: A Comprehensive Overview of Data Acquisition Methods in IoT" Qudsia Shahab, Mohd. Faizan Farooqui	254
47	"Blockchain-Enabled Sustainable Water Management: Empowering Communities for Clean Future" Anjali Arora, Mayank Aggarwal	259
48	"A study on Challenges and Solutions on Power Optimization Techniques in 5G NR communication for the Smartphone" Manu Srivastava, Dr. Vimlesh Kumar Ray	263
49	"Non Dominated Sorting Genetic Algorithm (NSGA-II) Modelling for AZ 31 Magnesium Alloy Composite" Amit Tiwari, Payal Bansal, Himanshu Vasnani, Neny Pandel	268
50	"An approach to control safety message congestion in IoV using metaheuristic clustering algorithm" Perna Ajmani, Neeta Singh, Poonam Verma	273
51	"A Framework for Security Enhancement and Anomaly Detection in IoT Based Smart Networks" Nidhi Gupta, Neeta Singh	279
52	"Machine Learning Based Comparative Analysis of One, Four, and Fourteen Channel EEG Vowel Datasets" Asif Iqbal, Ashok K Suhag, Arpit Bhardwaj	285
53	"Firefly Optimized Battery Energy Storage for Microgrid Operation Management" Jayashree S, B.Anuradha, K.Sangeetha, M.Poornima, D.Kavitha, Ranjani K	291
54	"From Rumors to Reality: Exploring Machine Learning Approaches for Fake News Detection" Deepak Singla, Shrikant Mapari, Deepali Gupta, Shilpa Saini	297
55	"Enhancing Accuracy of Financial Fraud Detection in Mobile Transactions Using XGBoost Algorithm" Yashika Chauhan, Mudita Uppal, Deepali Gupta, Shrikant Mapari, Shilpa Saini	302
56	"Performance Evaluation of Median Filter Hardware Chip for Image and Signal Processing" Sreesh Gaur, Akash Goel, Pawan Kumar Pal, Amit Kumar Singh Sanger	308
57	"Eye Disease Detection and Classification Using Deep Learning: A Review" Nzanzu Katasohire Romeo, Megha Chhabra, Saumya Chaturvedi	313

58	"Unlocking the Potential of Time Series IoT Data: The Transformative Role of AI and Machine Learning in Smart Cities" Dheeraj Singh, Vikramaditya Singh, Shivam Aditya Singh	319
59	"Frontal brain hyperconnectivity: An effective neural marker for schizophrenia detection" Ayan Fareed Siddiqui, Nausheen Ansari, Saad Zaheer Ansari, Syed Ali Kazim, Shah Nawaz Shahid, Aas Mohammed, Yusuf Uzzaman Khan	327
60	"Insight on Ge-Si0.4Ge0.6 Hetero Structured Tunnel field Effect Transistor for Energy Efficient IOT Applications" Sushroot, Syed Hasan Saeed, Vedvrat, Shrish Bajpai, Rahul Kumar Singh	332
61	"A Comparative Evaluation of Machine Learning and Deep Learning Approaches for Abdominal Disease Detection via Wrist Pulse Data" Mudassir Hasan Khan, Emad Ahmad, Mohd Mutaiyab Alam, Omar Farooq, Yusuf Uzzaman Khan, Mohammad Sarfraz	337
62	"Finding the Shortest Distance between Villages Located in Mountainous Terrain" Somya Agarwal, Himani Singh, Kartik Lal, Subho Upadhyay, Sanjay Sharma, Rajeev Kumar Chauhan, Anju Saini	342
63	"Unified Safety Assurance Approach for Modern Railway Systems" Dr. Ajeet Kumar, Saurabh Manglik, Dr. Heeralal Gargama	347
64	"Analysis of Component Reliability through Fussell-Vesely Measurement" Ruchi Parashar, Ambika Chauhan, Chetan Kumar Sharma	352
65	"Hybrid approach of Deep Convolution Neural Network and Transfer Learning for Tuberculosis Prediction" Rinki Singh, Jagrati Malviya, Sabita, Ram Bhawan Singh, Deepak Garg	357
66	"Enhancing multimodal biometric authentication using Bi-LSTM deep learning network" Laxman Singh, Ashish Kumar, Richa Golash	363
67	"IoT-Web Smart Waste Management System for Environmental Sustainability in Smart Cities: An Integrated Approach under Swachh Bharat Mission" Shwetank, Aakash Vishwakarma, Shivam Prajapati, Amrisha, Sheetal Kumar	369
68	"Design of Square Ring Triple Band Planner Antenna with Defective Ground Plane for WLAN/WiMAX Applications" Lalit Kumar, Anil Kumar Gautam	374
69	"Text Categorization into Emotional States using Enhanced Deep Learning Model" P. Sasanka, C. Bharath, D. Hemateja, Saravanan Chandrasekaran	378
70	"EfficientNetB4 to EfficientNetB7 for Pepper Bell Plant Leaf Disease Detection: A Comparative Study" Suraj Ranga, Savita Kumari Sheoran, Ghanapriya Singh, Megha Yadav	384
71	"Large Language Model based system for Clinical Decision Support" Rajendra Kumar, Piyachat Lomchavakarn, Chatwarun Angasinha, Kamolrat Intaratat, Panicha Boonsawad, Suporn Sridee	389
72	"Self-Healing and Auto-Responsive Coordinated Control Systems: Leveraging AI and Real-Time Data for Optimal Asset Operations" Dheeraj Singh, Vikramaditya Singh, Shivam Aditya Singh	395
73	"Predicting Optimal TAF doses for severe renal impaired patients: An Integrated Pharmacokinetic and ML Based Model" Muhammed Tufael, Muskan Syed, Uzaira Sartaj, Priya Sharma, Tanish Tickoo, Alakto Choudhury, Priyanka Narad, Abhishek Sengupta	398
74	"Revolutionizing Patient Care: AI-Driven Wearable Technology for Continuous Remote Health Monitoring" Khushi Bhatia, Yasha Hasija	404
75	"Innovations in Virtual Reality for Treating Acrophobia: Design and Implementation" Wai Yie Leong, Yuan Zhi Leong, Rajendra Kumar	410
76	"Modularity and Lazy Evaluation in NixOS: A Functional Approach to Operating System Configuration" Nikhil Singh, Dr. Anurag Singh Baghel, Priyanka Mishra	415
77	"Fuel Cell Vehicles: Technology, Challenges & Future Prospects" Avaneesh Pal, Manish Gupta, Sansar Singh Chauhan, Sanjeev Kumar Pippal, Aashna Sinha, Shivam Kumar	420

78	"Integrity in the Age of AI: Detecting Synthetic Text Across Platforms and Purposes" Rohan Shah, Dr. Manimala Mahato	426
79	"Selection of Key Muscles and Gestures for Reliable Control in EMG-Based Wrist Prosthetics" Akshay Kumar Yadav, Musab Bin Khaleeq, Abid Ali Khan, Mohammad Sarfraz	432
80	"Investigation of diverse ML and DL Algorithms Toward the Segmentation and classification of Mammographic Breast Density" Vishwayogita A. Savalkar, Gurpreet Singh Saini, Shivaji D. Pawar	438
81	"Users' Acceptance, Behavioural Intention, and Adoption of Reward Points in India - A systematic literature review approach" Shilpi Bhowmik, Dr Satinder Singh	444
82	"Machine learning algorithms and NLP for anxiety and depression detection using Twitter data" Tanya Sood, Punya Garg, Dr. Husanbir Pannu, Dr. Sonam Dullat	450
83	"AI-Powered Approaches for Identifying Misinformation in Social Media Platforms" Ashish Kumar, Bhuvan Chandra Joshi, Narendra Pal Singh, Kamini Tanwar, Divya Joshi	456
84	"Inception V3 and GRU Fusion: A Deep Learning Approach for Detecting Deepfake Videos" Vaishnavi, Ananya Trivedi, Pranjal, Kanika Singla	462
85	"Artificial Intelligence Enabled Brinjal (Solanum Melongena) Leaf Diseases Detection and Classification: A Review" Kajal, Mithilesh Kumar Dubey, Devendra Kumar Pandey, Khalil Ahmed	468
86	"Generative AI applications for robust shopfloor" Wai Yie Leong, Yuan Zhi Leong, Kumar R.	474
87	"Decoding Depression: An In-depth Review of Multimedia-Based Detection on Social Media" Chayan Preet Walia, Priti Maheshwary	480
88	"Microbial safety aspects of street food and rapid detection of foodborne pathogens using biosensors" Harpreet Kaur Walia, Komal Choudhary, Navin Kumar, Siya Ram	485
89	"Exploring the Knowledge Structure of the Information Domain (2014-2023) in Five Selected Journals Using Topic Modeling" Sourav Mazumder, Tapan Barui	491
90	"Sink Vulnerability Type Prediction Using Small Language Model (SLM)" Rupesh Prasad, Lokesh B, Swathika Nivedini D, Piyush Pratap Singh, Arvind Maurya, Atul Singh	496
91	"Automating the Future: User Insights on Smart Coworking Spaces" Dr. Surbhi Mathur, Ms. Saloni Saraswat, Dr. Aditi Kaushik, Dr. Mehak Gulati	502
92	"Lumbar Spine Segmentation Based on Sagittal View Using Convolutional Neural Network" Smita Singh, Neeta Singh, Naresh Kumar	507
93	"Voltage sag ride analysis for grid connected PV system" Aakriti Khanna, Anjali Garg	512
94	"AI-Enhanced Disaster Recovery Strategies for SAP S/4HANA in the Cloud" Harikrishna Madathala	517
95	"Link Facilitation Model for Better Connectivity in Vehicular Ad-Hoc Network" Eram Fatima Siddiqui, Naushad Varish, Priyanka	526
96	"Visual Understanding and Navigation for the Visually Impaired using Image Captioning" Jitesh Uikey, Ishan Undre, Urvish Vasani, Aman Shaikh, Riddhi Mirajkar, Jayashree Bagade	531
97	"Innovative Solutions for COVID-19 Prevention: Automated Multi-Functional Sanitization Chamber" Satendra Pal Singh, Tooba Imran, Praveen Kumar, Mohammad Sarfraz	537
98	"Review on Error Dynamics in Predicting Modes of Oscillation Indian Monsoon and/or Allied Phenomena" Anuradha M. Dhumale, Veerendra Yadav, K. C.Tripathi	543

99	"Alzheimer's Disease Detection using Brain MRI scans" Aryan Singh Chauhan, Manikanta Kancharla, Dr. Charu Pathak, Bhargavi Devapatla	548
100	"Metamaterial Based Pattern Reconfigurable Microstrip Antennas: A Review" Reena Pant	554
101	"Enhancing Medical Images with Generative Adversarial Networks (GANs): A Review of Techniques and Applications" Harsh Shukla, Dr. Saurabh Sharma, Er. Deepika	559
102	"Predictive Modelling in Forecasting Water Levels for Sustainable Resources Management" Aditya Bhardwaj, Vansh Dhiman	565
103	"An Equivalent Single Spiking Neuron Model of the Working Memory" Navya Ajith, Arathi Rajendran, Giovanni Naldi, Egidio D'Angelo, Shyam Diwakar	570
104	"Predicting Customer Quits in Bottled Water Subscription Models: A Data-Driven with AI Methods" Ankit Bansal, Ruchi Bansal, Rajendra Kumar	575
105	"Towards Safer Networks: An HPLC Inspired Wormhole Detection Mechanism for Wireless Sensor Networks" Niharika Sharma, Sumit Goswami	581
106	"Artificial Intelligence based Expert System and Higher Order Thinking Skills: A Brief Review" Shiwani, D. K. Chaturvedi, Meenu Singh	587
107	"Condition Monitoring of Rotor Bars Using Vibration and Current Signals via Artificial Intelligence: A Novel Approach" Shilpi Yadav, Raj Kumar Patel, Vijay Pratap Singh	592
108	"Hybrid Explainable DL Framework for Securing Smart Critical Infrastructure Using CNN-LSTM" Pranshav Patel, Drishya Shah, Diya Shah, Fenil Ramoliya, Rajesh Gupta, Sudeep Tanwar	598
109	"RPL Protocol Performance Analysis Across Multiple IoT Topologies" Suneeta Mishra, Vidushi Sharma, Vimlesh Kr.	605
110	"Analyzing Traffic Behavior Across Hybrid Topologies" Kartikya Tripathi, Himanshu Gautam, Khushi Singh, Gaurav Vats, Pankaj Kr Sharma	610
111	"Design and Development of a Smart Home Energy Management System: A Review" Damale Prasad Rajendra, Aher Atul Dattatray, Borse Hrutuja Rajendra, Surashe Vaibhavi Krushna, Fareed Ahmad	615
112	"Wireless Power Transfer Technologies for Electric Vehicle Charging Application: A Review" Tejas Bharat Khatal, Yogesh Minanath Wani, Vaishnavi Kacheshwar Deokar, Kunal Vijay Borse, Fareed Ahmad	621
113	"Evaluating the performance of ERA5 reanalysis datasets in analysing ESCS 'Mocha' over the Bay of Bengal" Arun Kumar, Reena Nupur, Sushil Kumar, Nagendra Kumar	626
114	"Exploring Machine Learning Approaches for Future Disease Prediction in Gynecology: An Experimental Study" Enes Bajrami	631
115	"Enhancing Return Loss and Insertion Loss of RF MEMS Shunt Switches with Innovative HfO2 and SiO2 Materials for Ka-Band Applications" Anitha Gopalan, Kompala Monesh Babu	637
116	"Area and Power Modeling of FPGA Based Binary-to-Gray Code Converter Circuit for Rotary Encoder" Radhika Gupta, Priti Kumari, Rashi Jaiswal, Tukur Gupta	642
117	"Review of Artificial Intelligence Methods in Handwriting Identification Using CNN-RNN for Textural Features" Chandan Kumar Sonkar, Dr. Vinod Kumar	648
118	"Advanced Temperature & Ratio Control System For Small Scale Dyeing Industries" Dr.N.Priyadharshini, Dr.M.Sabarimuthu, Radha J, Mr.R.Ranjith Kumar, Sunfiya M, Tamilarasi K	655

119	"Hybrid Multi-task CNN Framework with Expert Labels for Advanced Document Forgery Detection." Sudhanshu Lacca, Piyush Nikam, Mayur Joshi, Ratnmala N. Bhimanpallewar	659
120	"Intelligent PDF Query System for Document Analysis" Dr. Ratna Patil, Ajinkya Nikam, Tanush Lichade, Rajat Patel, Deep Maheshwari, Aryan Rajguru	665
121	"A Comparative analysis of 3PL logistics for deteriorating products: A CNN approach to demand and carbon emission prediction" Pratibha Rajawat, Mandeep Mittal, Saurabh Rana	670
122	"Impact of Charging Infrastructure on Cost-benefit Analysis of Electric Truck Fleets" Arpita Bharti, Rajeev Kumar Chauhan	676
123	"Implementation of Flyback DC-DC Converter Topology for DC Power Supply Application" Md Tasnim, Adil Sarwar, Farhad Ilahi Bakhsh	681
124	"Dissolved Gas Analysis of Mineral Oil - Based ZrO ₂ Nanofluids Under Thermal Fault" Neha Ahmad, Aejaz Masood, Obaidur Rahman, Farhad Ilahi Bakhsh	687
125	"Design and Construction of Portable Electric Bicycle" Mr. Md Firuz Mia, Mr. Md Mostafijur Rahman, Mr. Mohammad Arfatul Islam, Mr. Faysal Hasan Sifat, Mr. Tanvir Ahamed, Mr. Mohammad Sharuf	693
126	"Exploring the role of Hurst exponents in the Multifractal Detrended Fluctuation Analysis (MFDFA) of ASD patients' EEG Data" Waribam Pratibha Chanum, Saurav Mandal, Mausumi Pohit, R.K. Brojen Singh	698
127	"Predicting Lung Cancer with Artificial Neural Network: Analyzing Performance and Feature Importance" Vatsal Mehta, Varun M, Ashwini Kodipalli, Roshan Joy Martis, Shridhar B.Devamane, Ushasree. A	702
128	"A Comparative Study of Detection Techniques for Defective Fasteners in Railway Track" Zainul Abidin Jaffery, Azhar Uddin	708
129	"ML-Enhanced Predictive Maintenance for Motor Drives: A Time Series Forecasting Approach" Rakesh Chandrashekar, Yagateela Pandu Rangaiah, Ginni Nijhawan, Bhaskar Mekala, Mustafa Abdulhussein Al-Allak, Monica Garg, Ankita Awasthi	712
130	"Geospatial Analysis and Machine Learning for Site Suitability of Geothermal Energy Plants" Anandhi R J, Vanya Arun, Navdeep Singh, P Sai Kumar, Yagateela Pandu Rangaiah, Saurabh Sharma, Fatimah Dhari Jabbar	718
131	"Adaptive Demand Response Optimization Using Reinforcement Learning for Enhanced Grid Stability and Renewable Integration" Vanya Arun, Yagateela Pandu Rangaiah, Amit Dutt, Manjunatha, Mustafa Abdulhussein Al-Allak, Monica Garg, Ravi Gangadharolla	724
132	"AI-Assisted Fine-Grained Plant Disease Diagnosis from Smartphone Images" Anandhi R J, D Sreenivasulu, Alok Jain, V Arun, Fatimah Dhari Jabbar, Bhasker Boddu, Kanan Divetia	730
133	"Advanced AI Techniques for Restoring Historical Documents and Photographs with Generative Adversarial and Diffusion Models for Cultural Heritage Preservation" Manjunatha, Pendyala Shamili Srimani, Manish Gupta, Bashetty Suman, Mohammed Wael Mohammed, Kanan Divetia, V Arun	735
134	"Short-Term Load Forecasting for Virtual Power Plants Using Time Series Analysis and Open Energy Data" Revathi V, Kumar Prashant, Atul Singla, Bhasker Boddu, Ali Abdulhussein Hameed, Susmita Kalyani, Kshama Pandey	741
135	"Real-Time Load Forecasting and Demand Response Optimization Using Deep Learning" B Rajalakshmi, S Sreekanth, Ginni Nijhawan, K. Anusha, Baydaa Fathil Mohammed, Saurabh Sharma, Priyanka Agrawal	747
136	"Adaptive Machine Learning Models for Enhanced Renewable Energy Forecasting and Grid Stability"	753

	Vijilius Helena Raj, Kshama Pandey, Rusul Najm, P Lokesh Kumar, Kumar Prashant, Gini Nijhawan, Susmita Kalyani	
137	"Federated Learning for Secure and Collaborative Power System Data ANALYSIS: Balancing Accuracy and Privacy in Decentralized Environments" Priyanka Agrawal, Yagateela Pandu Rangaiah, Amandeep Nagpal, Asha V, P laxmaiah, Saurabh Sharma, Baydaa Fathil Mohammed	759
138	"Revolutionizing Indian Agriculture: A Direct Marketplace with AI-Based Crop and Disease Management Solutions" Aryan Mehra, Aruna M, Arthi B, Siddharth Shankar Singh	765
139	"Transfer Learning-Driven CNN Architectures for Automated Defect Detection in Printed Circuit Boards" Rajesh Gundlapalle, Amandeep Nagpal, Yagateela Pandu Rangaiah, P Chandini, Ali Albawi, Susmita Kalyani, Priyanka Agrawal	770
140	"Comprehensive Analysis of Machine Learning Approaches for Phishing Website Detection" Pragna K P, Suhani Shetty, Ashwini Kodipalli, Ushasree. A, Shridhar B.Devamane, Roshan Joy Martis	776
141	"Lossless Compression Based Optimization of DICOM Images using Machine Learning" Shruti Agarwal, Anshika Agarwal, Preeti Garg, Shailesh Saxena	782
142	"Designing Procedure to Develop a Helical Antenna for SAW Devices" Prateek Kumar, Priyanka Goyal	786
143	"Design and Investigation of Transparent High Datarate Antenna for Vehicular Applications" Sreedevi. B, Shabareesh. I, Vaishnav Raaj. S, Mohan. C	792
144	"Identification of Acute Preictal Signatures in EEG Using Univariate Linear Analysis and Unsupervised Clustering" Deepti Mathur, Kunjulakshmi Roffin, Shivani Agarwal, Suman Das	796
145	"Education loan approval automation using Logistic regression algorithm" Rajender Nagpal, Anand Shankar Raja M	802
146	"IoT's applications in Supply Chain Management" Wai Yie Leong, Yuan Zhi Leong, Kumar Rajendra	808
147	"Artificial Intelligence In Cyber Defense: A Study Of Modern Security Solutions" Shweta Dwivedi, Naushad Varish, Priyanka	813
148	"Vita Prediction: Leveraging Machine Learning for Life Preservation and Suicide Prevention" Shivani Trivedi, Himanshu Singh, Jahanvi Gupta	819
149	"Adaptive Load Frequency Control using Artificial Neural Networks for Enhancing Grid Stability in Power Systems" G. Anusha, Dr.Krishan Arora, Dr.Himanshu Sharma, Dr.Surya Prakash Thota	825
150	"Plant Leaf Disease Detection using IoT and Deep learning Approach" N. Senthamarai, R.Srinivasan, M.Kavitha, R.Kavitha	830
151	"Using ML to identify Fraudulent Activities in Healthcare Industry" Sonam Juneja, Chanchal Kumar, Bhoopesh Singh Bhati, Reema Goyal, Rajat Dubey, Souvik Maiti	834
152	"Leveraging Transfer Learning for Potato Crop Disease Classification: A Comparative Study of AI Techniques" Lakshita Gulati, Dhruv Kundu, Satyam, Yash Bindra, Dr. Satya Prakash Yadav	839
153	"A Review on State of Charge (SoC) Estimation Methods of Li –ion Batteries used in Electrified Transportation" Jitendra Singh, Majid Jamil	845
154	"Comparative Analysis of Loss Functions in BigGAN for Medical Image Synthesis: A Case Study on Brain MRI Scans" Aakriti Pandey, Jatin Trehan, Pintu Kumar Ram, Sofia Singh	850
155	"Fuzzy Inference Model for Alzheimer's Disease Detection" Dhanya Hegde, Akshata Pandit, Trupthi Rao, Ashwini Kodipalli	856
156	"State-of-Charge Estimation of Li-Ion Battery in Electric Vehicles Using Deep Neural Network" Saif Ur Rahman Khan, Arslan Ahmad, Majid Jamil, Asra Irfan	861

157	"Intricacy of CNN and RL with Substantiation of CNN Model in Simulated Self-Driving Environment" Trilok Kumar Saini, Akanksha Maurya, Devanshu Dhyani, Anju Saini	866
158	"Predicting the Students' performance using Machine learning tools- A Survey on Jalandhar City(Punjab)" Pooja, Dr Rajni Bhalla	871
159	"Smart Farming System Using IoT, Embedded Electronics, and Wireless Sensor Networks" Pragati Tripathi, Ashish Kumar Jha, Chitaranjan Mahapatra, M.A. Ansari, Deepak Kumar Mishra	877
160	"Mutually Inhibiting neural networks with second order neuronal activities" Anjali Panwar, Vikas Panwar	881
161	"LoRa based low-cost real-time air quality monitoring system" Pinaq Sharma, Ashutosh Singh Baghel, Parakh Sharma, Rajdeep Karmakar, Arpit Khandelwal	887
162	"Monitoring and Controlling of Hexane sedimentation in Oil extraction process" Dr.T.Kalavathi Devi, Dr.K.N.Baluprithviraj, Dr.R.Mouleeshuwarappabu, Mr.S.Mohammed Yunoos, Ms.K.S.Renuha Devi, Ms.V.Vishalini	891
163	"Green Mobility Solutions through Intelligent Fleet Management and Smart Logistics" Wai Yie Leong, Yuan Zhi Leong, Rajendra Kumar	897
164	"Enhancing Fraud Detection with Gradient Boosting Algorithms in credit card transactions" Sonam Juneja, Amol Saurav, Asmit Prabhakar, Vikash Anand, Reema Goyal, Vinay Thakur	903
165	"Optimizing the Environmental and Operational Performance of Electric Trucks in Indian Food Supply Chains Using Advanced Data Analytics and Renewable Energy Integration" Arpita Bharti, Rajeev Kumar Chauhan	911
166	"Smart Waste Management System: A Comprehensive Approach to Automated Waste Segregation and Air Quality Monitoring" Dr.S.S.Saranya, Chokamela kali prasada mani m, Mani sri sai aditya tammana	917
167	"A Comparative Analysis of Multi-Modal Medical Image Fusion Techniques using MSVD, WPD, PCA, and DWT" Shailesh Bhosekar, Prabhishek Singh, Deepak Garg	923
168	"A Recent Advancements in Multi-Modal Medical Image Fusion Techniques using SWT, NSST, NSCT, and CNN" Shailesh Bhosekar, Prabhishek Singh, Deepak Garg	928
169	"Marine Current Energy coupled with a VSC- HVDC link integrated with the grid" Adesh Kumar Mishra, Omveer Singh, S M Tripathi, Apoorva Srivastava, Kishan Kumar, Vijay Kumar Yadav	933
170	"Predictive Trend Analysis in Fashion: Leveraging Machine Learning for Forecasting Styles and Consumer Preferences" Reema Varshney, Aashish Jain, Shyamli Pandey	939
171	"TotalSol: A Multi-Layer Static Analysis Method for Vulnerability Detection in Ethereum Based Smart Contracts" Deepak Kumar Mishra, Dr. Pawan Singh Mehra	945
172	"Cloud Computing in Healthcare Services" Sudha Shanker Prasad, Sudhanshu Maurya, Rachit Garg, Amarinder Kaur, Arya Kashikar, Nilesh Shelke	951
173	"Leveraging Emoticon Scores for Improved Sentiment Detection in Social Media Using Machine Learning Techniques" Nadiya Parveen, Mohd Waris Khan	956
174	"AI-Driven Sustainability: Exploring Historical Developments, Applications, and Future Horizons" Prashant Johri, Abhay Chauhan, Deepak, Deepak Kumar, Kumud	961
175	"Deep Learning Based Crop Disease Detection and Identification: A Comprehensive Study" Dhruv Atri, Mohd. Tauseen Iqbal, Kaustubh Shatdhar, Prabakaran J	966

176	"Machine Learning Techniques for Early Detection of Liver Disease: A Comparative Study of Predictive Models" Abdul Ahad, Disha Yadav, Vansh Pitalia, Mr. Prabakaran J	972
177	"Multilingual Sentiment Analysis: A Comprehensive Review for Indian Languages" Shelendra Yadav, Sudha Shanker Prasad, Sudhanshu Maurya, Rachit Garg, Arya Kashikar, Nilesh Shelke	978
178	"A Comprehensive Approach for Skin Cancer Detection and Classification using Machine Learning and Deep Neural Network Algorithm" Mukesh Kumar, Jhulan Kumar, Poonam Kukana	984
179	"A Computational Outlook on the Potential of Cyanobacteria in Cancer Treatment and Drug Discovery" Sameen Masroor, Yukti Sabikhi, Chhavi Dudeja, Richa Sanka, Dr. Richa Gupta	990
180	"QuantiSA: Quantified Service Architecture" Anand Shankar, M. P. Mishra	996
181	"Analysis of extreme rainfall trends over 75 locations (District wise) of Uttar Pradesh, India using daily gridded rainfall data (1973-2023)" Sushil Kumar, Arun Kumar, Amarendra Singh, Amar Pratap Bha, Anurag Singh Baghel, Jagabandhu Panda	1002
182	"Use of AI in Selected Financial Institutions: A Double-Edged Sword Effect" Dr. Ritika Srivastava, Dr. Shruti Ranjan, Dr. Shekh Tarnnum	1007
183	"Graph Neural Networks for the Development of Efficient Fake News Detection" Shivansh Mishra, Naweena Kumar, Ojal Agarwal, Saksham Arora, Chesta Mehta	1011
184	"Optimizing Health and Fitness Monitoring: An Advanced Smartwatch Alert System for Comprehensive Lifestyle Management" Shivani Trivedi, Tryambakesh Satish, Shivam Sharma, Unnati Malik	1016
185	"A Multiband, Wideband Wearable Textile Antenna for Body Area Network Applications" Diwakar Kumar, Deepti Sharma, Imran Ahmed Khan	1022
186	"Extraction and study of defatted pearl millet flour for its Physicochemical and Functional Properties" Vinita Sharma, Sakshi Singh, Kunal Jaitly, Vyakhaya, Nitin Sonkar	1026
187	"Heart disease prediction using AHP and Fuzzy TOPSIS methods" Jhansi Prasad S, Trupthi Rao, Ashwini Kodipalli	1029
188	"Comparative analysis of the determining factors of Insomnia using Fuzzy Logic" Charushila, Rachana N S, Trupthi Rao, Ashwini Kodipalli, Shridhar B Devamane, Roshan Joy Martis	1034
189	"Performance Evaluation of ANN-based MPPT Included in Grid Feeding Inverter" Farha Khan, Shirazul Islam, Atif Iqbal, Abdul Hafeez, Farhad Ilahi Bakhsh	1040
190	"Optimizing Skin Cancer Detection: A Review of Hybrid Algorithms and Deep Learning Frameworks" Puneet Kumar Goyal, Dr. Vimal Bibhu, Dr. Harsh Khatter	1046
191	"Jellyfish Optimization for Enhanced Maximum Power Point Tracking of Solar PV Systems Under Partial Shading Conditions" Nidhi Singh, Dilip Yadav, Surbhi Singh	1052
192	"Analysis Ethical and Social implications of Artificial Intelligence (AI)" Faraz Khan, P. K. Bharti, Md Heshamuddin, Muhammad Farhan, Rizwan A. Farade, Adeel ahmad khalique Ahmad	1058
193	"Design of Low Power, Differential Ring VCO with Tuning Range of 72.1% in 0.18 μm CMOS Technology" Satish, Manoj Kumar	1062
194	"Leveraging machine learning and self-administered tests to predict COVID-19: An olfactory and gustatory dysfunction assessment through crowd-sourced data in India" Ritesh Kumar, Maneet Singh, Prateek Singh, Valentina Parma, Kathrin Ohla, Shannon B Olsson, Varun Saini, Jyotsna Rani, Kunal Kishore, Priyanka Kumari, Parul Ichhpujani, Anupma Sharma, Saurav Kumar, Manu Sharma, Amol P Bhondekar, Anamika Kothari, Viren Sardana, Sudarshan Iyengar, Debasis Dash, Rishemjit Kaur	1067
195	"Exploring anticancer potential of some commonly used Pteris plants through network pharmacology and molecular docking"	1072

	Krishan Kant, Priya Bansal, Siddhi Gupta, Rajni Sawanny, Surya Prakash, Abhishek Kumar	
196	"Artificial Intelligent Systems for Dynamic Business Process Verification: A Continuous Corporate Audit Model" Tanya Yadav, Prasanna Kulkarni, Abhijit Chirputkar, P Ashok	1078
197	"Dynamic Graph Representation for WSI Classification: A Knowledge-Aware Attention Mechanism for Enhanced Computational Pathology" T. Rajesh Kumar, Dr. Mahaveerakannan R, Balamanigandan, R., Dr. P. Subramanian, Mrs. Praveena Mallampalli	1084
198	"Air Quality Prediction Using Machine Learning : An Comprehensive Study" Shruti Potey, Pradnya Borkar, Sagarkumar Badhiye, Sadaf Farooqui, Swayam Rangari	1089
199	"Synthetic Realities: A Critical Review of Deepfake Techniques" Megha Yadav, Savita Kumari Sheoran, Ghanapriya Singh	1094
200	"A Computational Model of Voltage-Gated Sodium Ion Channel in Human Pulmonary Artery Smooth Muscle Cell" Chitaranjan Mahapatra, Shuvendra Kumar Tripathy, Mrunmayee Tripathy, Amritanshu Gupta	1099
201	"Computational Approaches Based Evolutionary Analysis to Identify the Genetic Variation among Kelch 13 Gene Linked to Artemisinin Resistance in Plasmodium falciparum" Ved Vrat Verma, Yugandhar P. Reddy, Aditi Tomar, Chetan Kumar S, Varun Kumar Sharma	1104
202	"Recent Trends in EV Technologies, Charging Process and Standards: A Comprehensive Review" Pramod Kumar, M.A. Ansari, Rajeev Agrawal	1109
203	"AI for Economics: Innovative Approaches with Machine Learning to Predict Upcoming Recession" T. Sridhar Reddy, Dr R Tamilkodi, T.Govinda Rao, M.Deepthi Malika, S.D.S. Abhiram, G. Manikanta	1116
204	"Analysis of Reliability Allocation for a Component in Standby Redundancy System" Neeraj Singh, Nitin Kasana, Chetan Kumar Sharma	1122
205	"Study of Artificial Intelligence Integrated AlGaIn/GaN HEMT for Biosensors" Yogesh Kumar Verma, S. K. Hima Bindhu, Yash Saraswat, Kanishka Garg, Sanskriti Khatri, Astuti Shukla, Simarleen Kaur	1128
206	"Gradient Boosting with Boltzmann Machines for Enhanced Cardiovascular Disease Prediction" R.Abirami, Poovammal E	1132
207	"Advancing Precision in Heart Disease Detection and Prediction: Leveraging Cutting-Edge Classification" Sonam Nagar, Karan Verma, Sachin Singh, Kumar Shashvat	1140
208	"Cognitive Intelligence and Big Data: A Symbiotic Approach to Predictive Analytics in Healthcare" Semal Johari, Parnika Singh	1145
209	"Face Sketch Construction and Recognition" Shaik Yacoob, Dr. B. Sujatha, Tamarana Anudeep, Bozzam Eesha Sharvi, Gande Veera Venkata Siva Sai, Koppula Charles Antony	1151
210	"Intelligent IoT Driven Ecosystem for Real-Time Air and Noise Pollution Detection" Shiv Narain Gupta, Mohd Firoz Warsi, Nitin Kumar Chauhan, Rakhi Bhardwaj, Mohd Jawed Khan, Ashish Choudhary	1156
211	"Comparison of Various Control Techniques for Path Control of Mobile Robots" Jyoti Singh, Nidhi Singh, Alok Deep	1162
212	"Recent Advancements on Intelligent Multi-focus Image Fusion" Prabhishek Singh, Aayushi Rana, Aditya Joshi, Mohd Shuaib, Manoj Diwakar, Amit Kumar Mishra	1167
213	"Motor Imagery and Motor Movement Detection in EEG for Advancing Assistive Device Functionality" Anand Mohan, Ojaswi Chopra, Ruchi Singh, Pradnya Praveen Simpi, Pratham Kumar Srivastava, R.S Anand	1172

214	"Order Abatement Technique for LTI MIMO systems based on Squirrel Search Algorithm & Dominant Pole Retention" Babita Singh, Nidhi Singh, Dipti Singh	1178
215	"Exploring Transformers for Scalable Summarization of Long Documents" Mohammed Wasid, Mohd. Aquib Ansari, Aditya Pandey, Vanshagra Rai	1184
216	"Phase-Based EEG Analysis for Enhanced Imagined Speech Decoding in Brain-Computer Interfaces" Anand Mohan, R.S Anand	1190
217	"Review and Assessment of PV Panel Cooling for Performance Enhancement using Nano- enhanced Phase Change Materials (NePCMs)" Desh Deepak Gautam, Dr.Harishchandra Thakur	1196
218	"AI-Enabled Recommender Systems and Digital Twins for Agile Decision Making in Energy Startups: A Vision" Mukul Singh, Vikash Patel, Devesh Singh Pal, M.A.Ansari, Omveer Singh, Vishvajeet Yadav	1202
219	"A Taxonomy of DDoS attacks on Cloud Computing Environment and approaches to Mitigation" Alok Kumar Pathak, Dr. Aarti Gautam Dinker, Dr. Sanjay Kumar Sharma	1208
220	"Deciphering Amino Acid Features in NRPS Sequences of Biosurfactant-Producing Bacteria: A Framework for Machine Learning Insights" Kamini Pandey, Madhu Kumari, Barkha Singhal	1214
221	"Skin microbiome as a diagnostic tool for Atopic Dermatitis in children and adults" Ananya Pal, Kartavya Mathur, Vikrant Nain, Rekha Puria	1217
222	"Evaluating the Impact of Snow on Free Space Optical Communication Using Artificial Neural Networks for BER Prediction" Ajay Sharma, Peter Albert Xuereb, Lalit Garg	1222
223	"Leveraging Invariant and MultiScale Features for Parkinson's Disease Detection" Pranjal Mohan Pandey, Vedant Pandey, Sakalya Mitra, Arpit Singh, Shreya Lakhera, Trapti Sharma	1227
224	"A Study on the Integration of Haptic Feedback for Optimizing Telerobotic Surgery" Jayasheel Kumar Kalagatoori, D Shobha Rani, Ginni Nijhawan, Tamam Ali Abd Ulabbas Abedi, P. Subhashini, Navya Gupta	1233
225	"An Intelligent IoT System for Health and Home Safety for Elderly People" Smitha BS, Komal Agrawal, Navdeep Singh, Navya Gupta, Nagarjuna Thandra, Mohammed Wael Mohammed	1239
226	"Enhancing Renewable Energy Management with Neural Networks and Blockchain Technology" Gopal K, Shubhra, Manish Gupta, M Srinivasa Rao, Tamam Ali Abd Ulabbas Abedi, Smitha. K	1245
227	"Advancing Predictive Maintenance in Smart Grids with Machine Learning Techniques through Comparative Analysis of SVM and CNN Models" Hemanth Raj, Shubhra, Amandeep Nagpal, J. Nagaraju, Taqi Al-Rubaye, Preeti Tewari	1251
228	"Parkinson's Diagnosis through the use of AI through Speech and Gait" Asha V, Seema Garg, Manish Gupta, Saurabh Sharma, K. Jyothsna Reddy, Mohammed Wael Mohammed	1257
229	"Adaptive Evolutionary Algorithm for Dynamic Traveling Salesman Problem Optimization Leveraging Real-Time GIS Data Integration" Shiva Prakash S, Seema Garg, Sorabh Lakhnarpal, Smitha. K, Taqi Al-Rubaye, J Adilakshmi	1264
230	"A Systematic Review of SLAM Techniques for AMRs in Warehouse Environments" Kante Aditya Prasad, Harsh Kumar, Dr. Usha Tiwari	1270
231	"Diagnostic study of thunderstorms over Uttar Pradesh, India" Neetak Kumar, Sushil Kumar, Bhanumati Panda, Ashish Routray, Neha Kumari, Nitin Lohan	1276
232	"Fabrication and characterization of coir fibre reinforced CaCl ₂ crosslinked starch-chitosan films." Neena Singh	1280

233	"Machine Learning-Based Prediction of Heavy Rainfall Days in the Northern Himalayas:A Case Study of Shimla, Srinagar and Kargil" Harshita Singh, Bhumika Rana, Dr.Sushil Kumar, Dr.Anurag Singh Baghel, Dr.Jagabandhu Panda, Nikhil Singh	1286
234	"Comparative Study of Different Models on MRI-Based Brain Tumor Detection" Aditya Raj, Dron Rawat, Deval Verma, Shreeya Pandey, Divyansh Rana, Gaurav Verma	1292
235	"Blockchain Based Secure and Privacy-Preserving Data Aggregation Scheme for Smart Grids" Panchanan Pyare Singh, Aarti Gautam Dinker, Abhishek Kumar	1298
236	"Multi-attribute Optimization of Hot Machining Operation Using Grey Relational Analysis Coupled With Principal Component Analysis" Krishna Kant Pandey, Shalini Singh	1304
237	"Design and Development of Autonomous Mobile Robot for Modular Applications: ROS based Approach" Krishna Kant Pandey, Uttam Kumar, Rakesh Kumar	1310
238	"Nonlinear and transient analysis of rectangular fin using MLPG method" Prashant D. Vyas, Harish C. Thakur	1315
239	"The Impact of AI on Human Psychology: A User Perspective" Anand Mohan, Dighreandr Singh, Aakanksha Kataria, Hemant Kumar Meena, Reeta Singh	1321
240	"Educating Empathetic Healthcare Systems with AI Technologies among Practitioners" Krishnaveni Subramani, Geetha Manoharan	1327
241	"Adjudicate the Manufacturing Firm's Awareness of Green Human Resource Management Techniques" Lakshmikanth Raja, Dr. Geetha Manoharan	1333
242	"Harnessing the Adoption of HR Analytics in IT Firms" Suresh Babu Rajoli, Geetha Manoharan	1339
243	"Effects of Power System in The Tourism Industry" Fahim Hossain, Geetha Manoharan, Md. Nasir Mia, Mohammad Badruddoza Talukder, Sanjeev Kumar, Firoj Kabir	1345
244	"Secure and Scalable Software-Defined Router for High-Throughput Networks" Aadil Samar, Shuchi Sethi, Naeem Ahmad, Pooja Gambhir	1354
245	"A Review of Digital Forensics Techniques and Emerging Trends" Priya Sharma, Mohd Waris Khan	1359
246	"Contactless Monitoring of Vital Signs Using Thermal Facial Imaging and Machine Learning for Health Applications" Gaytri Gupta, Munna Khan, Manaullah, Kashif IK Sherwani	1364
247	"Targeting and Automating Recoveries from Cybersecurity Vulnerabilities using Large Language Models" Nishchay Sinha, Raghav Trivedi, Sanjit Mittapalli, Anuj Parihar, Ramani Selvanambi	1369
248	"Comparative Analysis of hybrid Algorithm for Brain Tumor Prediction" Abhilash Kokala, Kartheek Kalluri, Nagaraj Parvatha, Naveen Kodakandla, Harinagapraveen Gundugolanu	1374
249	"Bone Cancer Prediction Using Regression Algorithms and Machine Learning Approaches" Abhilash Kokala, Kartheek Kalluri, Nagaraj Parvatha, Naveen Kodakandla, Harinagapraveen Gundugolanu	1380
250	"Big Data Analytics and Real-Time Optimization Using Hybrid Ant-Bee Colony Algorithms" Abhilash Kokala, Kartheek Kalluri, Nagaraj Parvatha, Naveen Kodakandla, Harinagapraveen Gundugolanu	1385
251	"Optimizing Withdrawal Risk Assessment for GMWB in Insurance Using Machine Learning" Ankit Bansal	1390
252	"Optimizing Brain Tumor Prediction through Multi-Parameter Analysis and Fuzzy Logic Control" Gaganjot Kaur, Neelu Chaudhary, Jaskiran Sobti, Narinder Kaur	1396

253	"An ISM Band Microstrip Patch Antenna for Breast Cancer Detection using Confocal Microwaves Imaging" Jitendra Ahirwar, Rajesh Mishra, Niraj Agrawal, Bhawna Kankane	1402
254	"MPPT Based DC-DC Converter for Fast Charging in Electric Vehicles" Kreti, Dr. M.A Ansari, Dr Kirti Pal	1406
255	"Improving Coronary Artery Disease Prediction: The Role of GAN-Simulated Genetic Variants in Machine Learning Models" Fatima Ansari, Ayushi Singh, Dr. Rahul	1411
256	"Optimization of Titanium Nitride and Zirconium Nitride Nanorods for Enhanced Solar Absorption in Plasmonic Photovoltaic Applications" Alok Singh, Manmohan Singh Shishodia, Pratima Rajput, Soniya Juneja	1416
257	"Augmented Reality-Powered Footwear Customization Hub: Enhancing the Shopping Journey" Reeta Mishra, Padmesh Tripathi	1419
258	"Enhancing Code Modularity and Game Mechanics in Modern Game Development" Daksha Borada, Reeta Mishra, Padmesh Tripathi	1423
259	"Implementation and Evaluation of a FaceNet Inspired Model for Facial Recognition" Akshit Jayesh, Dr. Neeta Singh	1428
260	"Decentralized Intelligence: The Convergence of AI and Edge Computing for Industry 4.0" Saundarya Yadav, Bhawna Mallick	1435
261	"Simulation Study of Time Equivalent SVPWM Approach for Nine Phase Inverter System at Load" Shailesh Kumar Gupta, Omveer Singh	1441
262	"VSG-DC-Based Grid Forming Inverter Control for Standalone Microgrid" Deepak Kumar, Jitendra Nath Rai, ST Nagarajan	1446
263	"Non-destructive Studies on the Effect of White Rice Husk Ash and Alccofine on the Concrete cubes" Huthefh Alarafi, Nitin Arora	1452
264	"Water Quality Prediction Using Machine Learning: A Case Study of Saryu River" Abhishek Kushwaha, Shivam Kesharwani, Vivek kumar Pandey	1456
265	"PV Energy Conversion System with Grid Interface Using Variable Step Size Modified Decorrelated NLMS Algorithm" Ranjeet Kumar, Omveer Singh, Shailendra Kumar	1460
266	"Designing an Efficient Product Image Classification Framework using Adaptive YoloV5 with Long Short Term Memory in E-commerce Platform" Munmi Dutta, Dr. Amrita Ganguly	1466
267	"Hybrid Energy Integration to Weak Grid under Changing Operating Conditions of Solar and Wind" Vinamra Kumar Govil, Kuldeep Sahay, SM Tripathi	1474
268	"Two-Loop Controlled Buck Cuk Converter For Power Management in DC grid" Vijay Kumar Tewari, Kamlesh Kumar Bharti, Vikas Singh, Ankul Verma	1479
269	"Green Energy Achieve Via High Deployment of Renewable Energy Technologies And The Implementation Of Smart Grid Technology" Pratiksha Gupta, Dr. M.A. Ansari	1485
270	"Differentiation of Gut Microbiome Profiles Between Healthy and IBD Individuals Using 16S rRNA Sequencing and AI-Enhanced Analysis: Insights from Indian Cohorts" Jyoti Kaurav, Sanjay Sharma, Ravi Kumar Chaudhary	1489
271	"Establishing a Resilient Domestic Infrastructure for In Vitro Diagnostics (IVD) to Enhance India's Biotechnology Capacity and Economic Resilience" Ravi Kumar Chaudhary, Vivek Gupta, Rakesh Gupta, Dinesh Kumar, Siya Ram	1493
272	"Comprehensive Analysis of Machine Learning-Based Intrusion Detection Systems" Sonu Kumar, Abhirup Arindam, Aarti Gautam Dinkar, Anurag Singh Baghel, Neeta Singh	1499
273	"Coalescing the Use of Emotional Intelligence in the Digital Era" Krishnaveni Subramani, Geetha Manoharan	1505

274	"Performance analysis of oxide confined VCSEL for optical interconnects at 1550 nm wavelength" Priyanka Goyal, Bhawna Kankane, Prateek Kumar, Prachi Singh	1511
275	"Predicting k-Coverage in Wireless Multihop Networks with Boundary Effects Using Support Vector Regression: A Feature Sensitivity Analysis for Smart City Applications" Sachin Singh, Ashutosh Kumar, Isha, Bhawna Kankane, Rajesh Mishra	1516
276	"ZigBee-Enabled Long-Range IoT-Based Monitoring and Data Acquisition System for Real-Time Flow and Temperature Monitoring in Oil Pipelines with Cloud-Based Data Visualization" Swati Vashisht, Naresh Kumar, Sanjeev Pippal	1522
277	"Dual-Node LoRa-Enabled Obstacle Detection and Rider Notification System for Enhancing Safety in Two-Wheeler Vehicles with Wireless Communication" Swati Vashisht, Naresh Kumar, Shashank Awasthi	1528
278	"Leveraging Antiviral Lectins for Developing Glycan-Based Vaccines by Employing Standard and AI-Driven Approaches" Ayushi Goyal, Razia Sultana, Sarosh Saeed, Piyush Bhati, Varsha Kumawat, Rishabh Kumar, Neetu, Vishwas Tripathi, Mohd Jawed Khan, Abdul Arif Khan, Kanu Priya, Rana Zaidi, Siya Ram, Gunjan Garg, Mohd. Tashfeen Ashraf	1533
279	"Ontology Modelling of AI-Chatbot for Communicating Credential Responses" Kamolrat Intaratat, Tawatchai Suksida, Aman Anand, Porntip Yenjabok, Duangkamol Intaratat, R. Kumar	1539
280	"AI-Driven Network Effects and Tokenization for Next-Gen Communication Networks in Energy Systems" Mukul Singh, Devesh Singh Pal, Priyanka Yadav, M.A.Ansari, Vishwamitra Singh, Vikas Beniwal	1545