

2026 IEEE International Conference for Convergence in Computing Technology (I3CTCON 2026)

**Lonavala, India
14-15 March 2026**

Pages 1–719

IEEE Catalog Number: CFP265AL-POD
ISBN: 979-8-3315-7657-8



Copyright © 2026, IEEE

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:	CFP265AL-POD
ISBN (Print-On-Demand):	979-8-3315-7657-8
ISBN (Online):	979-8-3315-7656-1

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

TABLE OF CONTENTS

Dynamic 5G Bandwidth Allocation in SDN Using Round Robin Heuristic: A Quality-of-Service Optimization Approach	1
<i>Mark D'souza, Parikshith Patil, Shreya Das, Attahar Faizan, Anand Meti</i>	
A Lightweight CNN Transformer Framework for Low-Resource Multilingual Speaker Verification in Indian Conditions	7
<i>Parikshith Patil, Atharva Jeevannavar, Satish Chikkmath, Nirmala S. R.</i>	
An IoT-Enabled Smart Universal Charger for Modern Devices with Adaptive Device Recognition and Safety Control	14
<i>K.Sheikdavood, Akshaya N. S., Bharathi S., Dhaarani T.</i>	
Efficient Graph Convolutional Networks with Attention Mechanisms for Precise Prediction of Cardiovascular Diseases	20
<i>Nagarjuna Nallametti, S. Kavitha, Lakshmi H.N</i>	
EmpathVision: A Real-Time AI Model for Sign Language to Speech Translation, Scene Description, and Emotion Recognition Using Machine Learning	25
<i>Harshal Shete, Sakshee Yande, Shrutika Yelgunde, Rajesh Tekawade, Archana Said</i>	
Explainable AI for Financial Risk Forecasting using DNN and LSTM with SHAP and LIME	31
<i>Amirtha Lakshmi S, AnuRadha</i>	
Enhancing Data Privacy in Edge Computing Through Hybrid Machine Learning and Blockchain Technologies	37
<i>M.Anitha, K.Sivaraman</i>	
Self-Optimizing Automated Learning Pipeline for Big Data Exploration and Predictive Intelligence Applications	43
<i>Hrushikesh Panchabudhe, Nikhil Mangrulkar, Rohit Lanjewar, Shekhar Nipane, Aayush Borkar Tanmay Zalke</i>	
A Compact Multi-Band Microstrip Antenna with Π -H Radiator and Plus-Shaped DGS for mmWave 5G/6G Applications	49
<i>Kuldip Kumar, Basit Mohi Ud Din Naikoo</i>	
A Legal-Technical Framework for Simulating Patent vs. Public Health Outcomes under Variable Bolar Exception Scenarios	56
<i>Raghunath M, Murugan Ramu, B. Lavaraju</i>	
An Explainable Legal Decision System for Trademark Disputes and Franchise Risk in Dairy Product Commercialization	62
<i>B.Muthunathan, N.Kishore, M.Amaraa</i>	
ReportSent-Net: A Hybrid BiGRU-Attention Model for Analyzing Suicide Reporting Compliance and Public Sentiment	68
<i>C.Renuga, Nakshatra N S, Sadhanaa S. P, Saanvi, Monika D, Liana Samuel</i>	
Design of a Low-Power QCA SRAM Using Isolated Read and Write Mechanisms	74
<i>Amrit Marwaha, Ashwani Kumar Rana, Mandeep Singh</i>	

Health Twin for Strays: Smart Care & Safe Cities	79
<i>C.B. Selva Lakshmi, S. Shreenitha, S. Sri Annapoorani, T.C. Swathi</i>	
AI-Based Movie Recommendation System Using K-Nearest Neighbors and Collaborative Filtering	85
<i>Sonali Antad, Vedant Bartakke, Yash Bendale, Tanay Bargir, Jainil Bhanushali</i>	
Deep Learning-Based Multi-Class Classification of Plant Leaf Diseases with CNN and VGG16	90
<i>Aadesh Shalikram Borey, Shirish Kulkarni</i>	
Dual Layer Authentication System for Deepfake Detection and Lie Analysis using Artificial Intelligence	95
<i>S Amutha, Sankuratri Venkata Varun Krishna Chowdary, Namburi Surya Mahesh Varma</i>	
Predicting Software Faults Using Machine Learning Models for Quality Improvement: An Empirical Study	101
<i>Pooja Chandrashekar</i>	
EduGen: A Multi-Model Generative AI Framework for Dynamic Educational Resource Synthesis	107
<i>Savita Mane, Aryan Tamboli, Sachin Jadhav, Om Bhutkar, Sahil Karne, Yash Gunjal</i>	
Cross-Modality Deep Learning for Liver Disease Classification: A Comprehensive Review	114
<i>Nivedita Sharma, Rakesh Kumar, Meenu Gupta</i>	
Quantum-Enhanced Machine Learning Models for Energy Optimization and Predictive Sustainability in Next-Generation Smart Grids	120
<i>Meenakshi Gupta, Rinky Ahuja, M Vijayasanthi, Meenakshi K, Subarno Bhattacharyya, CH. Sandhya</i>	
Enhancing Cybersecurity in IoT-Integrated Smart Grids Using Federated Learning and Quantum Encryption Techniques	127
<i>M Khaleel Ullah Khan, P.Satish Reddy, Pailla Thiramal Reddy, K Lakshmi Kalpana, Ayesha Siddiqa P. Sobha Rani</i>	
Deep Learning Based Automated Drowsiness Detection System for Enhanced Road Safety	134
<i>Nitam Negi, Yash Chauhan, Nitin Thapliyal</i>	
Event-Driven Cloud-Native Deep Neural Framework for Autonomous Tuberculosis Diagnostics Using Fully Serverless Pipelines	141
<i>Akash K, Naresh R</i>	
Explainable Machine Learning Agent for Forged Document Detection in E-Communication and Educational Services	147
<i>N Kamal, V Aarthi, G Yuvasri, S.N. Madhumitha, S Rogini, S Rohini</i>	
Code Sphere Ledger: A Blockchain-Based Freelancing Ecosystem Leveraging Smart Contracts and NFTs for Trust and Transparency	153
<i>Mukul Garg, Mayank Jain, Kiran Narang, Avantika Sharma, Kartikey Mishra, Laxman Singh</i>	
Comparative Analysis of Generative AI Models for Image Colorization	159
<i>Savita Mane, Sunita Barve, Arhant Nitnaware, Anirudha Gapat</i>	
A Unified Generative AI System for Synthetic Image Creation and Detection	166
<i>Savita Mane, Sunita Barve, Amol Popalghat, Vaibhav Jadhav, Ayush Rewatkar, Mayur Kapgate</i>	

AI Models for Healthcare Continuous Diagnostic Efficiency and Treatment Optimization	174
<i>S Ashok Kumar, Pandurangaraju B, Fahimuddin Shaik, K Durga Sireesha, V. Akash B.Chennakesava Reddy</i>	
ResQNow: An Intelligent AI–AR Integrated Emergency Response System with Offline Communication Capability	179
<i>A. P. Saroon, Medha Bhat, Sufaila T. S., Pranava N. A.</i>	
A Hybrid Machine Learning Approach for Accurate Classification of Heart Failure	185
<i>S. Prasanna, Fahimuddin Shaik, A. Venkata Anand Kumar Reddy, C. Navitha, S. Venkata Siva Reddy M. Venkata Subhash</i>	
Defect Detection in Solar Photovoltaic Panels using Computer Vision	190
<i>Arva Shah, Devansh Singh, Twasha Vyass, Ankita Gupta, Rahee Walambe, Paresh Nasikkar, Ketan Kotecha Hussain Shareef</i>	
Solar-Powered Smart Parking System (SPSPS): Design, Development, and Integration of Mobile Application for Real-time Parking Slot Monitoring	196
<i>Bea Lorraine T. Manalo, Kristil Aira T. Salvador, Re-Ann Cristine O. Calimpusan, Alexander T. Demetillo Jeffrey T. Dellosa, Charle Magne L. Cillo</i>	
AI for Environmental Management: UrbanCool – AI-Driven Responsive Cooling System	203
<i>Paras Chavan, Gayatri Kadam, Atharv Patil Patki, Vaibhav Patil</i>	
TRIPLE-NET Fusion for Deepfake Detection	209
<i>R S Ramya, Akshaya, B H Priyanka, Chandana L D, Charan B</i>	
Optimized ECG Based Detection of Heart Abnormalities Using Federated Machine Learning	215
<i>Vedant Kesharia, Atharva Rajmane, Pranay Khandagle, Vedant Samant, Prachi Satam, Vinaya Sawant</i>	
Carbon Aware Container Scheduler	223
<i>Ananya Subramanian, Raimee Madhuri Shukla, Rugmini Krishna, Nandana Gireesh, B. M. Beena</i>	
Adaptive Real-Time Sign Language Recognition Using Deep Learning and Temporal Modeling	229
<i>Sugrish V M, Velan R, Lakshminarayanan S</i>	
AeroTrack - AI-Driven AQI Monitoring System	235
<i>Ansh Ralli, Divij Sharma, Godfrey Winster S</i>	
Toward Intelligent Fault-Tolerant Quantum Computing: A Review of Google’s Willow Processor and AI Integration	241
<i>Tejaswini Ghosh, Shankaramma, R Charis Susanna</i>	
Development of AI-Powered Voice Agent System for Business Communication: A Latency Optimization Approach	247
<i>D. Lakshmi Padmaja, Deepthi Kalwa, Lavanya Gurralla, Jitesh Kumar</i>	
Real-Time Financial Fraud Detection Using Hybrid CNN-LSTM with Random Forest Ensemble	254
<i>Siddartha Sunkara, Divyansh Mishra, Pasala Varun, Rohith Sekhar Kadali, N. Neelima</i>	
Advanced Deep Learning Framework for Highly Accurate Infant Cry Signal Classification	259
<i>Pankaj Saini, Burungale Swapnil Birudev, Diksha Holkar</i>	

Interpretable Fall Detection System for the Elderly Using LSTM and Attention Mechanism on WEDA-FALL dataset	266
<i>Ravija Pasalkar, Aditi Yawale, Rujuta Kulkarni, Divya Rupa, Chaitali Chandankhede</i>	
Design and Performance Evaluation of a Solar-Powered ESP32-Based Water Surface Trash Collector	272
<i>Tanish Gurav, Shila Dhande, Sushma Kadge</i>	
Navigating Urban Mobility	279
<i>Yogaraj JR, Rithika M Khanapuri, Abhishek S, Chandana C, Kavitha M V</i>	
Green Computing: A Comprehensive Survey of Energy-Aware Scheduling, VM Placement, and AI-Driven Optimization Techniques	284
<i>Lohitha Kanisettpalli, Jiya Borikar, Harsda Shrivastava, Beena BM</i>	
IoT-Enabled Dynamic Load Profiling and Real-Time Tariff Optimization for Smart Energy Management	290
<i>Masud Akatar, Tanuja R Pathare, Shweta Dolli, Minal Salunke</i>	
X-ForensicNet: An Explainable Offline LLM Framework for Automated Windows Digital Forensics with Neuro-Symbolic Validation	296
<i>Radharaman Tiwari, Manisha J. Nene</i>	
Pneumonia Detection Model Using Fusion of Chest X-ray Images and Cough Audio Features with Deep Learning	303
<i>Varun Reddy, Nirmal Keshari Swain, Sunil Suthar, D. Sai Nath, Yugandhar Manchala</i>	
Transformer-Based Workload Prediction and Adaptive Auto-Scaling in Cloud Data Centers	309
<i>Chandra Naik G, Bharath C O, Jagadeesh K R, Parikshith Raj B N, Poojith N Naik, Madhu B G</i>	
A Multimodal Approach for Violence Detection in Public Spaces	315
<i>Rajasekar A, Yugarakshini G S, Shajitha S</i>	
Eye On Violence: Real-Time Violence Detection in Surveillance Video Using a CNN-LSTM Spatiotemporal Framework	321
<i>Mayuri Barapatre, Akshay Padia, Mayank Mokhere, Vaishvik Jaiswal, Pravin Sonsare</i>	
Generative AI based Synthetic Data Generation for Skin Disease Classification using VAE, GAN and Diffusion Models	326
<i>Surabhi Kharkate, Palak Yerawar, Nilambari Mahajan, Komal Katare, Savita Mane, Pramod Ganjewar</i>	
Quantum-Aware Noise Modeling for Coherent ZR/ZR+ Optical Links Using QuTiP and OptiSystem: A Giant Step Toward Optical Digital Twins	333
<i>Praveen Kumar Pal</i>	
Fault-Tolerant Cascaded H-Bridge Inverter with Redundant IGBT Switching for Self-Healing Operation	341
<i>Devarasetty Varun Sai, Vanapalli Ajay, T Vijay Muni, Pydi Bala Krishna, K Venkata Kishore Somasekhar Pavuluri</i>	
End-to-End vs. Hybrid Pipelines: Quantifying Performance Trade-offs in Sonar Object Detection for Autonomous Underwater Vehicles	347
<i>Chandresh Gohel, Sunita Dhavale</i>	
Personalized Nutritional Guidance for Optimized Health	353
<i>A. Bhagyalakshmi, S.Kusama Lahari, V.Shanmukha Dhanush Raju</i>	

Efficient Malayalam Handwritten Character Recognition Using ConvNeXt-PCA-RandomForest architecture	360
<i>Hima Sagar B, A Vibhas Reddy, S Pavan Kumar, Peeta Basa Pati</i>	
Automated Seismic Phase Detection and Notification Using Streaming Data and Cloud Containerization	365
<i>Rishab Ramesh Nair, Ayush John Daniel, Rashmi Bysani, B. M. Beena</i>	
Advancing Mental and Medical Healthcare through AI: Conversation Analysis and Clinical Text Understanding	371
<i>Mohammed Adam Ansari, Atharva Vasant Angre, Vineet Shinde, Nikhita Mangaonkar</i>	
A Hybrid Deep Learning Framework for Multi-Class Lung Disease Classification	378
<i>Laxmi Bagalkot, Kelapati</i>	
DRFEC-Net: A Framework for Accurate Diabetic Retinopathy Classification	385
<i>Veerendra Basreddy, Sachinkumar Veerashetty</i>	
Dual-Channel Contrastive Convolutional Network for Respiratory Disease Prediction and Classification	392
<i>Laxmibai, Lakshmi Patil, Vinita Patil</i>	
Path Pilot: Real-Time Road Navigation Using Computer Vision	400
<i>Santosh Kumar B, Sangeetha C N, Geena Annu Alexander, Poornima V, Gowri Manojkumar, Iqra Bashir</i>	
SmartHealthLink: A Family-Centric Real-Time Health Monitoring and Alert System with AI-Assisted Genetic and Preventive Insights	406
<i>V. Sabaresan, Adith Senthil Kumar, Brendan Ryan Devasagay A</i>	
Predictive Modeling of Malaria and Dengue Outbreaks Using Multi-Modal Machine Learning and Climate-Health Data Integration	413
<i>H Hima Bindu, Heeral Agarwal, Jaladhi T, Abdul Haq Nalband, Sugandha Saxena</i>	
Comparative Analysis of Deep Learning and Multimodal Architectures for Zero-Shot Rare Disaster Recognition	419
<i>Amrutavarshini Beernalli, Pooja Pattar, Vaishnavi Pagad, Rohan Dixit, Uday Kulkarni</i> <i>Veena Hunasimarad</i>	
Enhancing Fetal Health Evaluation Through Lyrebird-Driven Ensemble Deep Transfer Learning on CTG Data	426
<i>Bibhuprasad Sahu, Amrutanshu Panigrahi, Abhilash Pati, Bibhuti Bhushan Dash, Utpal Chandra De</i> <i>Sudhansu Shekhar Patra</i>	
Real-Time Multilingual Gesture and Speech Recognition System for Text-Based Interaction Using YOLOv8	432
<i>R.Hemanth, G.A.E.Satish Kumar, M.Suresh, P.Jyothi</i>	
DenseNet–Transformer–BAM Hybrid Model for Automated Pomegranate Disease Detection	437
<i>Sahebgouda Sahebgouda, Sumana Maradithaya</i>	
Leveraging Natural Language Processing to Strengthen Electronic Health Records and Patient Management	444
<i>Sneha Patle, Sameer Tembhurney, Rishiram Maskare, Sourabh Tiwari</i>	

A Real-Time Predictive Dashboard for Employee Attrition Forecasting and Workforce Stability Enhancement	456
<i>P.Divya, Veerasundari.R, A.Devi, D. Shanmugapriya, S.Uthra, Charan M D</i>	
Solar Energy Integration Using Grid Forming Inverter with Transition Modes	462
<i>Chavan Vijay D., Korde Pragati N.</i>	
Synthetic Sensor Data Augmentation using Generative Adversarial Networks for Improving Industrial Asset Reliability in Predictive Maintenance - A Systematic Review	468
<i>Stephen Mhetre, Sagar Shinde, Pramod Patil, Pranav Narwade, Prajwal Ramse, Rahul Patil</i>	
Automatic Detection of the Upper Respiratory Tract Infection from Speech Using Intrinsic Mode Mel Frequency Magnitude Coefficients	476
<i>Pankaj Warule, Sudhansu Sekhar Nayak, Siba Prasad Mishra, Sourabh Panwar, Ashok Parmar, Suman Deb</i>	
VehereX - A Personalized EV Recommendation Platform	483
<i>Aryan Prakash Bhanage, Ali Bhatkar, Ayushmaan Singh, Arjun Aikat, Siuli Das, Gargi Phadke</i>	
Constitutional Compass: A Retrieval-Augmented Generation Framework for Indian Legal and Constitutional Analysis	489
<i>Dileep Reddy Bolla, Aniketh Joshi, Nandeesh HM, Pranav S Devang</i>	
Responsive Virtual Apparel Try-On through Pose Detection, Geometric Warping, and Deterministic Size Matching	494
<i>Harish Kunder, Abhijit S. Patil, Hrishikesh Bhosle, Vaishnavi Praveen Kamble, H C Manya</i>	
Advancing Cognitive Radio Spectrum Sensing with Deep Learning and Explainable AI: A Systematic Review	500
<i>Rahul Rathod, Mahua Bhounik, Sagar Shinde, Stephen Mhetre</i>	
Computer-Aided Diagnosis for Breast Cancer Classification Using Deep Learning on Ultrasound Images	508
<i>Vedant Nakshane, Dhiraj Mundane, Ganesh Atre, Ankit Kumar, Pramod Dharmadhikari</i>	
An Enhanced Early Alzheimer's Detection Model Using a Hybrid Decision Tree-SVM Framework	515
<i>Sumit Kumar, Sonika Thapak, Manmohan Singh, Vijay Dhote, Anubhav Sharma, Shilpa Jain</i>	
Big Data-Driven Artificial Intelligence (AI) Models for Predictive Fraud Detection in Banking Networks	521
<i>Gireesh Kambala</i>	
Enhancing Alzheimer's Detection Through Hybrid CNN-GCN Model of MRI Brain Scans	529
<i>Samarth Kattimani, Sanjana Biradar, Vinod Nalavade, Abhilash Basarikatti, Santosh Pattar</i>	
A Hybrid Crypto-Steganographic Technique For Enhanced Authenticated Covert Communication	535
<i>Adarsh Dash, Aqib Kawsar, Priyanka Biswas, Nirmalya Kar</i>	
Fusion of EfficientNetB0 and ResNet50 for Enhanced Deepfake Video Detection	541
<i>Deepak Sharma, Gaurav Garg, Jasneet Chawla</i>	
Natural Language to Structured Queries: Enhancing Database Usability with AI-Powered SQL Generation	547
<i>Soumya Benakatti, Kuldeep Sambrekar</i>	

Data Privacy in Apps and Websites: Designing a Human-centric NLP framework for simple transparent communication	551
<i>Aryan Anand, Gagan Sharma, Swati Rastogi</i>	
A Hybrid YOLOv7–Swin Transformer Architecture Optimized by Cuckoo and Pelican Algorithms for Diabetic Retinopathy Grading	557
<i>T. Kumaravel, T. Selvakumar, K. Venu, Kanmanipriya S, Madhuvanthi M, Malaravan R</i>	
Early Detection of Oral Cancer and Other Dental Pathologies Using EfficientNet-B0	563
<i>Ankita Subhash Patil, Sagar Shinde, Pramod Patil, Rahul Patil, Shitalkumar Rawandale</i> <i>Mithilesh Yogesh Kolhapurkar</i>	
Design and Analysis of Intelligent Battery Management Systems for Optimizing Electric Vehicle Performance: A Comprehensive Review	569
<i>Jitendra Waghmare, P .N. Korde</i>	
Real-Time Identification and Forensic Retrieval of Missing Individuals	577
<i>Mithilesh Yogesh Kolhapurkar, Sagar Shinde, Pramod Patil, Rahul Patil, Shitalkumar Rawandale</i> <i>Ankita Subhash Patil</i>	
Explainable AI and Federated Learning for Privacy-Preserving Loan Default Prediction in Cooperative Banking Networks	584
<i>Shilpa Shivshankar Mathpati, Abhijit Chirputkar</i>	
Few-Shot Recognition of Endangered Species from Wildlife Images	589
<i>Mohit V Patil, N T Basavaraj, Aman Yaligar, Abhay Hunasimarad, Uday Kulkarni</i>	
Zero-Shot Traffic Classification for Unseen Applications Using Convolutional Neural Network and Word2Vec	597
<i>Prerna Awati, Aishwarya A, Nishchita N, Sonu Vaishnavi, Uday Kulkarni, Veena Hunasimarad</i>	
Full Stack AI System For Detecting and Monitoring Illegal Landfills In Villages Using Satellite Imagery	603
<i>Shaik Afzal S, Vishagan D, Kalingarani G</i>	
Unpaired Adverse-Weather Image Translation Using GAN Architectures with XAI-Driven Interpretability Across Multi-Domain Conditions	608
<i>Dhanush Rajesh, Skanda Ramesh Bharadwaja, Harish PC, Shiven Yadav S, Ashwini Kodipalli</i> <i>Merin Thomas</i>	
Beam Management and Optimization for 5G/B5G Wireless Networks Using Machine Learning	615
<i>Abhilash Mukherjee, Karthik Sundaram, Roshni Anand, Indrasen Singh</i>	
A Decision Tree-Based Machine Learning Model for Analyzing Customer Behavior in Online Reviews	621
<i>Nikita Damde, Vijay Bhandari, Mohit Singh Tomar</i>	
Network Intrusion Detection System Using CGN ² : A Sequential CNN–GNN Hybrid Architecture for High-Precision Detection	627
<i>Huzaif Nabi, Isha Gupta, Mohit Kasliwal, Vaishnavi Rathod</i>	
Smart Multi-Data Landslide Prediction System	635
<i>Neevass AM, Jaikrishna V, Jagatha S</i>	
Enhancing Deepfake Detection with an Ensemble of Specialized Neural Networks	640
<i>B. Rajesh, R. Tamilkodi, K.Suryakala, Parasa Lakshmi Sruthi, Bandaru Anusha, K M D S Pradeep</i>	

Two-Layer Input Filtering Framework for Large Language Model Security	645
<i>Deepa Ganu, Sasanko Sekhar Gantayat, Brojo Kishore Mishra, Abhishek Ganu, Aparna Rajesh Atmakuri Tharun Reddy</i>	
Smart and Decentralized Security: AI and Blockchain Have a Synergistic to Future IoT	651
<i>Gurpreet Singh, Kapil Bhardwaj, Gurpreet Kaur, Chetna Pandey, Bhawna Sharma, Balraj Preet Kaur</i>	
YOLOv12 Crowd Counting with Geometry-Adaptive Density and Real-Time Alerts	658
<i>Vinay R Chalageri, Aditya A Channammanavar, Sripriya H, Bhuwanesh S, Jyothi Patil</i>	
A 274 GHz Common Base Low Noise Amplifier Circuit in 0.13 μ m SiGe BiCMOS Process	666
<i>Manas Kumar Hati</i>	
Deep CNN-Based Visual Inspection for Paint-Coating Quality Control	672
<i>Deepak Kumar A M.E., Gokul Ram J, Giridharan R</i>	
Design and Optimization of a Novel Rectangular-Inset Fed Antenna with Slot-Notch for Dual-Band Operational Applications	678
<i>Shyampradeep K, Madhushankara M, Ribu Mathew</i>	
A Robust ViT-T5 Multimodal Fusion Framework for Movie Genre Classification Under Missing-Modality Conditions	683
<i>Madhav Nidagundi, J Vijay Kumar, Kshitij Heblkar, Rohit Yandigeri, Uday Kulkarni, Veena H</i>	
Real-Time Detection of Plastic Waste in Oceans using YOLOv12	689
<i>Naveen Huggi, Abhishek Mahesh Manage, Claudia Jesuraj, Akshat Dodwad, Veena T, Uday Kulkarni</i>	
Deep Learning Based Digital Restoration of Cultural Heritage Images Using U-Net Architecture	695
<i>Naveen Rajdev, Sanjana S, Apeksha Raikar, Shrivatsa M, Uday Kulkarni, Veena Hunasimarad</i>	
Cloud-Based Intelligent Inventory Tracking System	702
<i>Kaviya K, Jeshlin P V, Ezhil Dyana M V</i>	
AnomalyX: An Adaptive Threat Detection System Using Retrieval-Augmented Generation and Advanced Time-Series Analytics	707
<i>Jnyanadeep B, Sneha M, Bipin Raj C, Khushal A</i>	
CCTV based Automated Peripherals Security and Monitoring System for Computer Labs	714
<i>Vansh Patel, Ahad Shaikh, Dev Soni, Shivani Bobdey, Sharmishta Desai</i>	
Multistage Classification of Sarcopenia Using Ensemble Learning	720
<i>Sobhana Mummaneni, Teja Aravind Kumar Rayalavarapu, Raghunath Kadimi, Lal Basha Shaik Chandrika Kanuru, D.N.V.S.L.S. Indira</i>	
Automated Evaluation and Quiz Generation using Deep Learning and Transformers	727
<i>Atharva Bilonikar, Harsh Chandra, Vedant Dapolikar, Aparna Halbe, Nikahat Mulla</i>	
A Meta-Learning Driven Deep Neural Framework for Few-Shot Adaptation in Textual Tasks	733
<i>Gopika Dinesh, Manju Venugopalan</i>	
Term Preterm Birth Prediction Using Various Biomarkers	741
<i>Ramkumar Manjalkar, Tejashwini Hosamani, Shivani Mokashi, Mayur Marathe, Salma Shahapur Veena Badiger</i>	

Evaluating Joint Denoising and Super-Resolution on MRI Using U-Net and SRCNN	747
<i>Riya Magadum, Nakul Singh, Shreya Vasanad, Chirag S H, Uday Kulkarni, Sandeep Kulkarni</i>	
A U-Net Approach for Denoising and Restoring Old Film Reels	754
<i>Swathi P Biradar, Vaishnavi Tiwari, Adarsh Dodamani, Siddarth Gayakawad, Uday Kulkarni</i>	
Time-Frequency EEG Feature Extraction for Hand Gesture Recognition Using CNN-BiLSTM Architecture: A Temporal Dynamics Analysis	760
<i>Sanskriti V Bedasur, Rajashri Khanai</i>	
Automated Wildlife Species Classification Using Deep convolutional Neural Network(CNN) : Enhancing Biodiversity Monitoring through convolutional Neural Networks	767
<i>Shashank Somashekhar Madabal, Swaroop, Kavyanjali, Priyadarshini M</i>	
Wearable Antenna for Blood Pressure Monitoring	775
<i>Nandini Ammanagi, Rasika B. Naik, Sudhanshu Karyakarte, Nihit Mistry, Shubham Nayak, Adwait Panadi</i>	
Agentic AI-Driven Optimization of CNN Training for MNIST Digit Classification	780
<i>Ravindra A. Vyas, Harshadkumar B. Prajapati</i>	
Multi-Task Graph Attention Network for Kinematic Rehabilitation Exercise Analysis	785
<i>Pragati Priyadarshinee, Vinith Reddy Banda, Shafaat Siddiqui, Kunal Amgire</i>	
Multi-Class Dental Lesion Detection Using Deep Learning on Intraoral Images	793
<i>Apeksha S. Barade, Manasa Kolkar, Basavaraj B, Sujal Ainapure, Niranjan Muchandi, Salma Shahapur</i>	
Identification of Bird Species Using Multimodal Deep Learning	799
<i>Ramya Gadad, Anusha Kattimani, Praveen Palkar, Aditya Patil, Niranjan Muchandi, Salma Shahapur</i>	
Electro-Thermal Behavior of AlGaIn/GaN HEMTs on SiC, Si, Sapphire and Diamond Substrates	805
<i>Swapnil Gurung, Santashraya Prasad</i>	
Pothole and Road Damage Detection using Supervised Machine Learning	812
<i>Daivik Naik, Anuj Kanamadi, Simrin Banu, Ishwari Kamble, Salma Shahapur, Tabassum Jahagirdar</i>	
Intelligent Deep Learning-Based System for Improved Phishing Identification Accuracy in Web Platforms	818
<i>Mahathi Kari</i>	
The VBA-LLM Gateway: Cognitive Automation in Legacy Enterprise Environments	824
<i>Manav Swargwani, Niyojita Mhaikar, Amit Chavan, Deep Khivasara, Aditya Turankar</i>	
QC-FLP: A Quantum-Inspired Fault Localization Driven Test Case Prioritization Framework for Early Fault Detection	834
<i>Sk Firoj Rahaman, Biri Arun</i>	
A Multi-Modal Architecture for Document Forgery Detection	841
<i>Amrit Koul, Henny Prajapati, Heer Shah, Harshita Swali, Sudhir Dehkane</i>	
VaultX: A Decentralized and Secure Framework for Verifiable Document Management	848
<i>Shubhangi Neware, Pranay Mantri, Atharva Rajurkar, Om Deshmukh, Gaurav Mantri</i>	
Optimizing Social Media Networks to Mitigate Echo Chambers Using Memetic Algorithm	854
<i>Ayesha Shaikh, Ashwini Dalvi, Irfan Siddavatam</i>	

A Unified Multi-Task 2D Perception Pipeline for Enhancing Single-Image 3D Modeling on Pix3D	861
<i>Mahammadismail Y Quadri, Shubham Karangale, Sudarshan Honnappanavar, Kushal Itnal Niranjan Muchandi, Salma Shahpur</i>	
Automated Radiology Report Generation from Chest X-rays using DenseNet-121 and LSTM	867
<i>Kiran Patil, Md.Mudassir Inamdar, Rahul Kudalagi, Anurag Gadad, Uday Kulkarni, Pooja Gani</i>	
Real-Time Adaptive Self-Calibration of Automotive MIMO Radars Using Machine Learning	874
<i>Rakesh Yadav Kodari, D. Nagaraju, S. Khadarvali</i>	
Enhanced Crowd Evacuation Simulation for Large Events Using the Anytime Repairing A* (ARA*) Algorithm	881
<i>Sadiya Shaikh, Ashwini Dalvi, Irfan Siddavatam</i>	
Deep Learning-Based Aerial Object Detection and Classification Using YOLOv8 and ResNet	889
<i>Sobhana Mummaneni, Sirichandana Matturi, Srija Naga Sai Sishtla, Chandrika Kanuru</i>	
A Few-Shot Transfer-Learning Approach for Industrial Defect Detection Using YOLOv12	896
<i>Bhagyashree A Mugalkhod, Sneha S Baragi, Sujith Roy V, Vikas Badiger, Uday Kulkarni</i>	
Artificial Intelligence Techniques for 5G and 6G Technologies: Solving Optimization Challenges with Whale Optimization Algorithm	903
<i>Mukesh Kumar Rohil</i>	
Texture Mapping and Surface Models for Augmented Reality Applications	910
<i>Mukesh Kumar Rohil, Yash Agarwal</i>	
A Hybrid Approach for Predictive Waste Classification and Resource Optimization using Deep Transfer Learning and Reinforcement Learning	919
<i>N. Krishnammal, J. Navadeep, B. Sai Sumanth, K. Priya</i>	
Projection of epigenetic markers of Type 2 Diabetes Reveal Pancreatic Cancer Prognostic Tumour States	925
<i>Subhradyuti Basu, Bibekanand Mallick, Amrita Singh, Khalid Baig Mirza</i>	
Design of a Gated-VDD Assisted SRAM Cell for Enhanced Standby Power Efficiency	931
<i>Keith R Fernandes, Ranjitha Shetty, Vinutha D, Sandeep B, Gowtham R</i>	
Side Channel Analysis of Curve25519 Scalar Multiplication on Resource Constrained Platforms: Exposing Conditional Swap Leakage	939
<i>Indra Kumar D, Likhitha D N, Medha Kambalimath, Dhanush Kumar S, Nirmala Devi M</i>	
Design and Analysis of MEMS Accelerometer for Bridge Structural Health Monitoring (SHM)	945
<i>Shashank Singh, Gargi Khanna</i>	
HyPE: A Unified Geometric Framework for Positional Encodings in Transformer Architectures	951
<i>Vrushali Sarwan, Nilay Karade, Hetal Gandhi</i>	
Physics-Aware Spatiotemporal Forecasting of Methane Emissions Using Multi-Source Satellite Data and Deep Learning	957
<i>Eshwari Wasankar, Ved Madurwar, Prachi Waghmare, Anand Magar</i>	
Adaptive Reinforcement Learning Defense Against Jamming in Intelligent Wireless Edge Systems	963
<i>Poojitha D, Syed Abrar C, Ishvarya G, U Kumaran</i>	

Design of a Boost Converter and Dual RF Energy Rectifying and Voltage Multiplying System for AS7038RB Biosensor Using 180nm CMOS Process	974
<i>Angel Grace D. Dairocas, Shaina Joyce B. Galula, Teofe M. Osin, Re-Ann Cristine O. Calimpusan</i>	
<i>Edgardo Ricardo B. Sajonia, Jeffrey T. Dellosa, Jefferson A. Hora</i>	
Convolutional Neural Network for Automated Diagnosis of Mechanical Gear Defects : A High Fidelity Approach to Predictive Maintenance	984
<i>Vinayak Musale, Harshwardhan Misal, Harshwardhan Paygude, Ayush Salunkhe, Shritej Jagtap</i>	
<i>Sarthak Paymode, Ayush Dhore, Nishinth Venkatesh</i>	
Comprehensive Analysis of Real-Time Financial Fraud Detection Systems Using Machine Learning	990
<i>Atharva Kore, Ansh Mishra, Divya Patil, Vaishali Jadhav</i>	
PawMed Bot: A Retrieval-Grounded AI System for Evidence-Based Veterinary Care	996
<i>Paramita Saha, Poornashree E., Kavitha G</i>	
Design of Low Power and High Speed Memristor-Based Full Adder for In-Memory Computing	1002
<i>Vedharup Chintala, P Kishore, Sri Hitha Vaishnavi</i>	
EcoAlgorithmics: An Energy-Aware Algorithm Benchmarking Platform for Sustainable Computing	1007
<i>Anoop Sonawane, Ashishkumar Singh, Kshitij Mahale, Pallavi Thakur</i>	
A Comprehensive Approach to Improving Programming and Problem-Solving Skills Using the HackerRank Platform	1012
<i>Manisha Nirgude, Dipali Awasekar</i>	
AI-Powered Food Scarcity Prediction and Nutrition Advisory System: Forecasting Shortages, Surpluses	1018
<i>Murali Dhar.M. S, Kasimkota Rushi, Pasupleti Rakesh</i>	
Real Time Suspicious Activity Detection Using CNN and LSTM	1024
<i>K.Priya, A.Mutharasi, D.Anitha, N. Krishnammal</i>	
Visuo Linguistic Scene Memory AI Towards Human Like Episodic Recall in Machines	1030
<i>K.Priya, T.Prisha, S.Nithya Lakshmi, N. Krishnammal</i>	
An Intelligent Location-Based Travel Recommendation System Using Machine Learning and Dynamic Map Visualization	1036
<i>Yashodeep Chavan, Mahesh Deshmukh, Gunjan Patil, Rushikesh Tat, Rushali A. Deshmukh</i>	
<i>Shital Nalgirkar</i>	
AI-Driven Urban Waste Reporting and Tracking Platform Using Deep Learning	1048
<i>S. Fizur Rahman, R. Ajith, P. Dineshkumar, S. Pavithra, Kandasamy Sellamuthu</i>	
OCR Model Comparison: EasyOCR vs. Keras-OCR on TextOCR Dataset	1055
<i>Prashant Singh Sangroya, Nishant, Deepika</i>	
Deep Learning Approaches for an Integrated Wildfire Prediction using Multimodal Data Fusion	1061
<i>M. Kishore, T. Gowtham Reddy, Charles Prabu V, P. Pandiaraja, S. Jagan, M. Arun</i>	
Multimodal Enhanced Learning for Skin Disease Image Analysis and Classification	1068
<i>Mansi Wanjale, Sandhya Arora</i>	
Evaluation of Whisper-based Kannada ASR: Challenges, Analysis, and Future Directions	1076
<i>Samrudha Narendra, Samved Suresh Jain, Ronith H U, Chandravva Hebhi</i>	

Design of Low-Power 32nm Configurable Serial Peripheral Interface for High-Speed Embedded Applications	1082
<i>Josheena Gnanathickam, Karthick Suresh S, J.Manohar Livingston, D.S.Shylu Sam</i>	
Smart Cotton Disease Diagnosis Using IoT and Hybrid Texture-Based Ensemble Learning	1090
<i>Bhushan V. Patil, Punam R. Patil</i>	
Evaluating Machine Learning Techniques on Big Data Frameworks for MQTT IoT Security	1097
<i>Geda Tejesh Chowdary, Paramkusam Sriharsha, Yelipe Gowtham, Niharika Panda</i>	
A Spark-Accelerated Machine Learning Pipeline for Market Trend Analysis and App Success Forecasting in the Google Play Store	1104
<i>Anreddy Shanmukha Reddy, Kolla Sriram Charan, Nissankararao Naga Sai, Niharika Panda</i>	
Land Use and Land Cover Classification Using Reflectance-Based Remote Sensing Techniques	1112
<i>Apeksha P. Sonare, Rohini S. Ochawar, Komal Chambhare, Huda T. Fatema, Shreya Verma</i>	
Cross-Attention Fusion Network for Hyperspectral-SAR-RGB Multimodal Remote Sensing Semantic Segmentation	1119
<i>Aprajit, Vishal Shrivastava</i>	
Spark-Based Optimized IPO Recommendation System Using LLM-Driven Data Extraction and Parallel Scoring	1129
<i>Amara Pranav, Joshika Somisetty, Koduri Lakshmi Vinugna, Manju Venugopalan</i>	
A Multi-Stage BERT-Based Cognitive Framework for Conversational Business Intelligence in SMEs	1137
<i>Dipali Baviskar, Harsh Halwai, Anand Patekar, Anoushka Kachewar</i>	
Development of Device for Gesture To Speech Conversion for The Mute Community	1143
<i>Saritha M, Hemath D, Abivarman M, Ananth A, Aravind Kumar A</i>	
High-Capacity Reversible Data Hiding Using Interpolation-Based Adaptive LSB and Multi-Layer Embedding	1149
<i>Simranjeet Singh, Rakesh Kumar, Meenu Gupta, Samuel Tensingh</i>	
An Experimental Study of Retrieval Order in Text-Based and Multimodal Figure Retrieval	1155
<i>Tanuja D Ratan, Gouri N Banapurmath, Swajeet Chikhali, Parth Hasolkar, Meena S M, Sanjana Patil</i>	
IoT-Powered Wearable Health Monitoring System with ReactJS Visualization	1163
<i>M.Praveen Kumar, Prabhakaran S, Karthi As, Kavim M</i>	
Deep Learning Approach for Brain Glioblastoma Detection: Integrating Efficient Segmentation and Survival Rate Prediction	1169
<i>Amit Gupta, Durgesh Nandan, S. Satyanarayana, N Rama Rao</i>	
Smart Relay Platform with Machine Learning to Be Used in Intelligent Environmental Monitoring and Load Protection	1176
<i>Aswin Balaji L K, Mohamed Kasim S, Manivannan R</i>	
Multi-Image Encryption Based Embedding Scheme For Secure Data Hiding	1182
<i>Rudi Debbarma, David Debbarma, Bikash Tripura, Hambar Debbarma, Priyanka Biswas, Nirmalya Kar</i>	
An Intelligent Mental Health Chatbot Using Natural Language Processing and Deep Learning	1188
<i>B. Rama Subba Reddy, D.Ganesh, Thirumadi Prasanth, Goturi Jishnu Sai Reddy, Thumma Pardha Saradhi Karumuru Yathish Chandra</i>	

A Comprehensive Evaluation of One vs Rest and One vs One Strategies on LeNet, MobileNetV2, and ResNet18 for Multiclass Handwritten Digit Classification	1194
<i>Kartik C, Goutam K, Riya P, Shakti P, Arundati Aralimatti, Veena Hunasimarad</i>	
Content Aware Community Detection Under Simulated Attacks	1200
<i>Yasasree Lasya Annambhotla, Asi Kuushalie, C V Sree Pranavi, Velumury Varshita, Niharika Panda</i>	
Uncertainty-Driven Probabilistic Framework for Modeling Worm Propagation in Large-Scale Network Topologies	1206
<i>A. Krishnan, F. Raja, J. Sanctus, Sunil Kumar J</i>	
PhishGuard: A Hybrid NLP-Computer Vision Approach for Real-Time Phishing Detection in a Browser Extension	1212
<i>Dinesh Singh Dhakar, Rohit Kanauzia, Renu Bahuguna, Manish S. Khodwe, Sabnoor Kaur</i>	
IoT Enabled Predictive Maintenance in Aviation using LSTM and RNN Models	1218
<i>Dimple Kapoor, Deepali Gupta, Prakash Tukaram Raut, Mudita Uppal, Raju Shanmugam, Reshma R</i>	
AI-Powered Optimization Database Cloning System	1225
<i>R. M. Dilip Charaan, Hemanath N, Avinaash S D, S. P. Santhoshkumar, J. Kavitha, M. Sasikumar</i>	
An Efficient KNN-LSTM Framework for Intelligent Anomaly Detection in Industrial Big Data Environments	1232
<i>Priyanka Gayakwad, Ashish Chourey, Ritu Shrivastava</i>	
DSL for Satellite Operations Simulation	1238
<i>Amruta Amune, Samarth Patil, Tejas Patil, Vedant Patil, Tanishka Phad, Prachi Singh</i>	
Adsorptive Removal of Heavy Metals from Wastewater: A Review on ANN based Predictive Models	1244
<i>Hamsa Vardhini M, Bhavana S, Ramya R, K. Balageeta, Nidhi Sharma, Hemavathy R V</i>	
Kubeflow for Healthcare: Zero-Touch Model Retraining in HIPAA-Compliant Clouds	1250
<i>Shalmali Joshi, Ramkumar Raju Djeabalaradjou, Rama Krishna Kumar Lingamgunta</i>	
AI-Driven Demand Forecasting and Real-Time Material Tracking for Enhanced Supply Chain Resilience	1256
<i>Srinivasan Narayanan, Saloni Jitendra Agrawal, Rishabh Jain</i>	
Human-in-the-Loop Automation Patterns for Financial Services Using Camunda + Modern Java UIs	1262
<i>Saravanan Manikandan, Gurinder Pal Singh, Vijaya Rama Raju Gottimukkala</i> <i>P S L Narasimharao Davuluri, Renganayaki Sadagopan, T. Venish Kumar</i>	
Ethical AI Audits: Preventing Algorithmic Discrimination in Substance Abuse Referrals	1268
<i>Shalmali Joshi</i>	
Zero-Trust Architecture for Hybrid Cloud Security in Critical Infrastructures	1274
<i>Rachakonda Uma, Mounika Maggidi, Anurag Reddy Ekkati, Sharmila Bandlamudi</i> <i>Chiranjeevisantosh Madugundi, Sai Kiran Taduri</i>	
Intelligent Swarm Algorithms for Intensify Blockchain-Cloud Ecosystem Security	1280
<i>Ganji Ramanjaiah, Balajee Maram, Komanduri Venkata Sesha Sai Ramakrishna</i> <i>Tummala Srinivasa Ravi Kiran</i>	

A High-Accuracy SVM-Driven System for Automated Cardiac Abnormality Detection from ECG Signals	1286
<i>Gunturu Naga Lakshmi, S Nagakishore Bhavanam, D.V.S.K Chaitanya, Vasujadevi Midasala</i>	
Emotion-Based Music Recommendation System: Enhancing Personalized Listening Experiences	1292
<i>SK. Sumayya, T. L. Surekha, S. Hima Bindu</i>	
Deep Learning-Based Speech Analysis for Early Detection of Alzheimer's Disease	1298
<i>S. Rajaprakash, Sadish Sendil Murugaraj, K.Boopalan, Dinesh Kumar, Harish M, M.S Chandru</i>	
Context-Aware Transformer Optimization for Improved Generalization in Large Language Models	1304
<i>Santosh Datta Bompally</i>	
Exploring Generative Pretrained Language Models for Opinion Mining in Large-Scale Twitter Social Media Data	1310
<i>Siddhesh Amrale</i>	
Synergistic Control of Boost Converter Using Linear Quadratic Regulators with Integral Action	1316
<i>Padmashree K S, Ciji Pearl Kurian, Bindu S, Suprabha Padiyar U</i>	
Detecting Political Bias and Polarization in Indian Social Media	1321
<i>Jalasutram Nava Nishith, Kanraj Sai Charan, Komma Sandeep Sai, Majjari Sudhakar, M.A. Jabbar</i>	
Adaptive Message Optimization in WhatsApp Marketing Using Multi-Armed Bandit Algorithms	1327
<i>Priya Trivedi, Sri Gayathri Adabala, Asifa Bandulal Beedi, Yatharth Jain, Aditya Pandey</i>	
An Efficient Hybrid CNN-LSTM Framework for Network Intrusion Detection Using UNSW Data	1335
<i>Kistam Gopi, Kanakala Raja Sekhar, G.Narsamma, B.Venkata Varma, B.S.S.Ganesh Pardhu A.Lakshmanarao</i>	
AI-Based Real-Time Sign Language to Text Converter Using Vision Transformer	1341
<i>T. Hema Priya, Ramya D, Deepa J</i>	
Real-Time Product Dispensing System with FPGA	1347
<i>Ch. Babaiah, P Somasundri, J Palanimeera, Rakesh Kumar, Binod Kumar, Shrikant Upadhyay</i>	
Scales of Attention: A Hierarchical InLegalBERT Framework for Legal Judgment Prediction	1353
<i>Aditi Choudhary, Nandita Gaitonde, Sanika Madihal, Drishti Nagshetty, Sharada K Shiragudikar</i>	
An Adaptive Machine Learning Approach for Real-Time Anomaly Detection in Unified Payment Transactions	1361
<i>S. Jagan, K.Vijaya Lakshmi, G.Sasi Sankar Reddy</i>	
Deep Learning Based Denoising of Chest X-ray Images Using DnCNN	1367
<i>Vishal U Hosur, Kushal H, Varun S Terdal, Uday Kulkarni</i>	
Blood Bank Demand Forecasting and Management Using AI Approaches	1374
<i>N. Rajkumar, Kunchapu Laxman Raj, V. Sai Manideep</i>	
Privacy-Preserving and Explainable Hybrid Learning Framework for Career Guidance Using Psychometric Indicators: A Synthetic-Data-Driven Study	1381
<i>Sameer Nanivadekar, Sivaneasan Bala Krishnan, Dilip Kumar Jang Bahadur Saini, Prasun Chakrabartiline</i>	

A Real-Time Browser-Based System for News Credibility, Bias, and Emotional Tone Analysis Using Machine Learning	1386
<i>Kalyani Ghuge, Priyanka Singh, Swanandi Salunkhe, Samiksha Rangari, Shreya Sanap, Parth Sardeshmukh</i>	
Explainable Artificial Intelligence for Real-Time Marketing Decision-Making Balancing Predictive Accuracy with Ethical Consumer Insights	1395
<i>Parag Sohoni, Gaurav Vyas, CA. Dhaarna Singh Rathor, Saurabh Sharma, Vinayak Dagadu Shinde Puneet Nema</i>	
Leveraging Machine Learning in Digital Payroll and Payment Playforms Redifining HR Practices in the FinTech Era	1401
<i>P.Venkateswara Rao, Gunjan Chhabra, Barkha Gupta, Praveen Kumar Mannepalli Vinayak Dagadu Shinde, Santosh Kumar</i>	
A Scalable and Interpretable Web-Based ML System for Real-Time Diabetes Risk Prediction	1407
<i>Vidhyavathi Kotha, N. Bala Krishna, Ambarapu Surendra, Subbagari Priyanka, Dhuvitha Nemalidinne Kommineni Kushmitha</i>	
Outage Behaviour of RIS-Aided Cooperative NOMA Systems Using MRC for Dual Users	1412
<i>Rama Devi, Vyshnavi Kondra, Pranavi Veligatla, Sai Ganesh Singh Thakur</i>	
VISAGE-X: Interpretable Graph-Based and Explainable Scene Reasoning for Vision-Language Understanding	1418
<i>Uday Kiran G, Srilakshmi V, Padmini G, Siva Praneetha K, Anvith Reddy G, Sai Shivani B</i>	
Enhancing Aspect-Based Sentiment Analysis Through Knowledge Graphs and Multiview Representation Learning	1426
<i>Srilakshmi V, Varun Reddy V, Uday Kiran G, B Veerasekhar Reddy, Kanduri Sri Snigdha, D. Cherith Josiah</i>	
Efficient Image Compression and Reconstruction using VQ-VAE with Adaptive Codebook and Diffusion Decoder	1431
<i>Anjali R. Deshpande, Shrutali Vinay Narkar, Hardik Mahesh Alagi, Vijay Anant Athavale, L.M.R.J. Lobo</i>	
A Hybrid Model for Innovative Brain Stroke Prediction	1438
<i>Sarthak Kharade, Saaem Shaikh, Saeed Sufiyan Shaikh, Mayank Vora, Vaishali Kosamkar</i>	
Hypertension Risk Prediction: Insights from Metabolic Profiles	1443
<i>Vaishnavi Muttangi, H. B. Samruddi, Aditya Deshpande, Krishna Patel, Prema T. Akkasaligar</i>	
SynapGraph: A Lightweight Adaptive Spatio-Temporal GNN for Robust EEG Emotion Recognition	1449
<i>G Uday Kiran, Srilakshmi V, G Joseph Preetham Reddy, Mounika M, B Divya, H Bhagya Laxmi</i>	
Enhanced DDoS Intrusion Detection System by Leveraging Machine Learning Classifiers and Factored Restricted Boltzmann Machine	1455
<i>Ayshwarya Jaiswal, Pragya Dwivedi, Vibhor Kant</i>	
A Hybrid Explainable AI Framework for Invoice Fraud Detection in Procurement Systems	1461
<i>Shrimathi K, Mary Snowfa A, Nithya K</i>	
Explainable ECG Arrhythmia Classification Using a Hybrid CNN–BiLSTM–Attention Framework with SHAP	1467
<i>Sahana Mathapati, Archana Hosamani, Anisha Dsouza, Satish Chikkamath, Kaushik M B Suneeta V. Budihal</i>	

Reducing Motion Artifacts in MRI: From Conventional Techniques to Deep Learning-Based Solutions	1474
<i>Nishat Afroz Faizee, Nikita Shivhare Mitra</i>	
Preserving the unseen: A prototypical Few-Shot Model For Endangered Species Classification	1482
<i>Shreya B Gundali, Bhavani Kalburgi, Satish Chikkamath</i>	
Efficient Multi Task Molecular Toxicity Prediction Using 2D Graph Isomorphism Networks with Virtual Node Augmentation and Stratified Learning	1488
<i>Mandadi Varun Prakash, Kalluru Sai Dheeraj Reddy, Pramod P, Satish Chikkamath</i>	
Integrating U-Net and LSTM for Precise Multichannel EEG-Based Emotion Recognition via Differential Entropy Features	1496
<i>Ketha Dhatri, Yemparala Lalith, M.Jeyaselvi</i>	
Predictive Caching at Edge Servers with Seq2Seq	1502
<i>AfrAh Mohammad, Manasi Divate, Anuja Hanamagoudar, Gurulingamma V. Biradar</i>	
Application of Deep Learning Techniques for Sleep Apnea Detection and CPAP Therapy Adjustment	1508
<i>Anshuman Vikram, Zuzer Chathiwala, Tanmay Pal</i>	
LoRA-Optimized Deep CNNs for Chest X-Ray Lung Disease Detection	1515
<i>Ketki Kshirsagar, Minal Deshmukh, Abhishek Biradar</i>	
ConForm - A Hybridization of CNN-Vision Transformer for Diagnosing Colorectal Cancer	1520
<i>Hemasree Koganti, Punam Warke, Sreenivas Reddy Sagili, Lavanya R, Vijayakumari Rodda, Keerthana N V</i>	
Hybrid GRU-Based Pointer-Generator Model for Legal Clause-Level Summarization	1526
<i>Anagha Hegde, Chinmayi P Hosur, Nishita P Jahagirdar, Tanushree Manjunath, Sumaiya Pathan</i>	
Tradix AI: Real-Time Stock Analysis and Prediction using Hybrid LSTM and Generative AI	1533
<i>Janav Dua, Pratyush Bhatt, Siya Bisen, Pushkar Dubey, Neha Tirpude</i>	
A Lightweight SVM-Based Approach for Pneumonia Detection from Chest X-Rays: A Non-Deep Learning Perspective	1539
<i>Maitri A. Patil, Spoorthi Hiremath, Ria Javalagi, Rashmi Khot</i>	
Automatic Hybrid Extractive-Abstractive News Headline Generation Using a BiLSTM-Attention-LSTM Sequence-to-Sequence Architecture	1545
<i>Ishwari Shivaji Jamadade, Amruta Veeresh Kasbegoudar, Harshitha M Banakar, Manjunath S M Sumaiya P</i>	
Fault Diagnosis of an NTC-type Thermistor Using Machine Learning by Artificially Injecting Environmental Effects	1553
<i>Suman Biswas, Nilanjan Chattaraj, Gautam Kumar Mahanti</i>	
Integrating Knowledge Graph Reasoning for Explainable Question Answering in NLP Systems	1559
<i>Lavanya B, Uday Kiran G, Srilakshmi V, Satya Prakash D, Laukya G, Karthik Reddy J</i>	
A Comparative Analysis of Business-Driven Variational Autoencoder Models for Stable Customer Segmentation in E-Commerce	1565
<i>Rakshita Janadri, Srushti Savadi, Devika Desai, Vinay Talekar, Guruprasad S Konnurmath Channabasappa Muttal</i>	

Hybrid Residual CNN with Convolutional Attention for Kannada Text Recognition	1572
<i>Mahantesh S Hiremath, Hrushikesh P Karamadi, Abrar Ali Savadatti, Satish Chikkamath, Kaushik M B Suneeta V. Budihal</i>	
DiaGen: An Explainable Multi-Agent Framework for Automated Diabetes Decision Support	1578
<i>Vivekananda Reddy Ranabothu, Y C A Padmanabha Reddy, Kondapur Mohammed Jawaad Safe Nageswara Rao Sirisala</i>	
Crisis-Resilient Volatility Forecasting: Detecting Structural Breaks with Macroeconomic Z-Scores and News Sentiment	1585
<i>Aditya Sharma, Bhavana Verma, Dinesh Kumar Vishwakarma</i>	
Self-Driving Car Model Using Sensors and AI-Based Decision-Making	1593
<i>Vijay Gaikwad, Devanshi Biniwale, Divy Sethi, Dheekshitha Bobbili</i>	
Smart Farming Innovations for Maharashtra Using ML with Dual-Node LoRaWAN Connectivity	1600
<i>Arnab Bhowmik, Ishika Bhoyar, Arnav Waghdhare, Smita Sankhe, Kaustubh Kulkarni</i>	
A Mamba-based Model using One-Class SVM for High-Performance Open-Set HSI Classification	1609
<i>Hemanth Kumar Thaduri, Y C A Padmanabha Reddy, G Sri Koustub, M. Venkata Subbarao</i>	
A Multi-Phase Reliability-Aware Framework for Human Motion-Based Behavioral Evidence Analysis	1615
<i>Venu Gopal G, Ashwini T, Mounika M, Lakshmi Vignesh Reddy Ch, Ghouse Mohd, Mahesh Kumar A</i>	
Hybrid Motion Synthesis for Speech-to-Sign Translation Using Deterministic Linguistic Parsing and Gated Recurrent Units	1621
<i>B. Priyanka, G. Uday Kiran, Srinivasarao Sanapala, Sreevedh Jella, Velamarthi Karthik, Vontela Gopika</i>	
EV Battery Health Prediction and Personalized Recommendations using LightGBM and SHAP	1628
<i>Aditya K, Arya Bhat, Samarth G Ghodke, Satish Chikkamath, Kaushik M B, Suneeta V Budihal</i>	
Self-Supervised Denoising Strategies for Low-Dose MRI and X-Ray Imaging	1636
<i>Abhijeet Miskin, Khushi Gawade, Sakshi Joshi, Satish Chikkamath, Kaushik M B, Suneeta V Budihal</i>	
Early Detection of Alzheimer's Disease using Transfer Learning and Explainable AI	1644
<i>M. Mounika, B. Priyanka, P. Suresh, P. Nithin, P. Hari Kiran</i>	
Universal Motion Representation for Cross-Category and Zero-Shot Image Animation	1649
<i>G. Uday Kiran, P. Honey Diana, Pandla Bineesha, Ragula Rohith Kumar, Suraj Paswan B. VeeraSekharReddy</i>	
Comparing Machine Learning Models for Non-Performing Asset Recovery: A Multi-Paradigm Evaluation in Post-Flood Regional Banking	1654
<i>Gautam Kaistha, Anand Shankar Raja M</i>	
Herbal RX: Herbal Remedy Extraction and Recommendation Using Deep Learning and Image Processing	1660
<i>Srikakulapu Subhakar, Kintali Harishit, Singothu Durga Prasad, Poluri Jaya Chandra</i>	
Hybrid Wav2Vec2-CNN-BiLSTM with Multi-Head Self-Attention for Noise Robust Speech Emotion Recognition	1666
<i>Priyanka N D, Divya Patil, Swateja Patil, Harshavardhana Undodi, Guruprasad Konnurmath</i>	

A CBAM-Driven Multi-Scale YOLOv8 Architecture for High-Precision Small Debris Detection in LEO	1674
<i>Mahant D. H., Veeresh S. H., Amana Z. Garag, Bhavana K., Sharada Shiragudikar</i>	
Real-Time Smart Energy Consumption Analysis Using Edge AI and Secure IoT Frameworks	1682
<i>Kathi Sai Kiran, Srikanth Yadav M, Gayatri Ketepalli</i>	
Spatial-Temporal Intelligence for Environmental IoT Monitoring via a CNN-LSTM Hybrid Deep Learning Framework	1687
<i>Vignesh Ramamoorthy H, Sathish Krishna Anumula, Prashanth Kumar Ravula, Sushmitha B H Shaik Yacoob, S. Kaliappan</i>	
A Hybrid Self-Learning Game-Playing Agent Integrating Tabular Q-Learning and Deep Q-Networks	1696
<i>Sinchana Hadagali, Shivani N Mallanagoudar, Tharun Babu, Nazreen Syed, Uday Kulkarni</i>	
Adaptive Hardware-Aware Quantum Error Mitigation Policy Selection Framework on Edge Devices	1702
<i>Sathvik Rao, Ilaqqan Rajesh Indu, Sowmya B.J., Geetha J</i>	
Ensemble Deep Learning Framework for Automated Diabetic Retinopathy Detection using EfficientNet Models	1708
<i>Srikanth Cherukuvada, Dipanwita Debnath, Sachin Mahesh Nalluri, Jethin Pokala, Hansika Sudula</i>	
Fake Review Detection in Fashion E-commerce Using Machine Learning	1714
<i>Laxmi Bankadamani, Vaishnavi R Honnagudi, Bhoomika Gudi, Shashank Bhagoji, Channabasappa Muttal Guruprasad Konnurmath</i>	
Machine Learning Approaches For DDOS Attack Detection And Prevention: A Comprehensive Analysis	1721
<i>P. B. Jagadesh, P. Dineshkumar, Kandasamy Sellamuthu, P. Hariraj, S.Pavithra</i>	
Narrative Driven Layered Image Generation For Character and Scene Composition	1727
<i>Srihari Krishna, Srilakshmana Amaresh, Shashank Udyavar, Shreyas Karthik, V.R Badri Prasad</i>	
A Miniaturized Wideband 5G Antenna For New Radio IOT Application	1733
<i>Balaji K, Bharath KV, R. Kangeyan</i>	
Hybrid ML–Knowledge-Based Expert System for Automated English-Speaking Proficiency Improvement in Higher Education	1737
<i>Roseline Jesudas, Zakiuddin Mohammed, Syeda Fatima Farheen, Yanamadala Durga Prasad, A. Geetha A. Ajmal Khaan</i>	
Hybrid Learning Framework for Accurate EV Battery Diagnostics and Energy Management	1744
<i>S Rajendran, Pavithra V, N Nisha Sulthana, Chetana S, Sandeep Dongre, S. Prabagar</i>	
A Graph Neural Network–Integrated Hybrid AI Architecture for Real-Time Smart Home Control	1750
<i>Venkata Satya Praveen Rani, S.Saritha, Ravi Teja Aida, Venu Pantangi, Shalini Rawat, S. Prabagar</i>	
Smart Complaint Routing Systems for Public Issues Using Multimodal Artificial Intelligence	1756
<i>Mary Snowfa A, Shrimathi K, Nithya K</i>	
Online Machine Learning Framework for Early-State SoH Prediction in Lithium Iron Phosphate Batteries	1762
<i>HimaBindu Garikapati, Siva Kumari Orsu, Kamala Kumari Duru, Sujith Kalluri</i>	

Compact Slotted Hexagonal MIMO Antenna with Enhanced Isolation for Advanced 5G Sub-6 GHz Applications	1767
<i>Naresh Kumar K, Niranjan R, Mohan C</i>	
Integrating LSTM-RNN and Transfer Learning to Enhance ECM Parameter Estimation for Lithium-Ion Batteries	1771
<i>Siva Kumari Orsu, HimaBindu Garikapati, Kamala Kumari Duru, Sujith Kalluri</i>	
Battery-Free IoT Nodes for Long-Lifetime Wireless Sensor Networks	1777
<i>M. Harshanya, Laxmi Prasanna Dommeti, N. Anitha Devi, D. Pravin Kumar, S. Nirmala, G. Saraswathi</i>	
Predictive Algorithms for PCOS: Harnessing Data to Uncover Hidden Risks	1783
<i>Richa Sharma, Prabhjot Kaur, Charanjit Singh</i>	
Cascaded ASR-Transformer Framework for Audio-Based Hate Speech Detection	1790
<i>Suraj Alagouda, Chetan Anikivi, Sudeep Uppar, Satish Chikkamath, Kaushik M B, Suneeta V. Budihal</i>	
An Integrated AI-Driven Optimization Framework for Energy-Aware, Low-Latency, and Reliable IoT Communication in Smart Healthcare Systems	1798
<i>Karthickkameshwar S, Karan A, Dhandapani Samiappan</i>	
Heterogeneous Ensemble Learning for Stress Detection from Social Media Text: Combining Transformers, Recurrent Networks, and Convolutional Architecture	1805
<i>Rohaana Farooq, Shilpi Harnal, Heena Sammi</i>	
Enhanced Fibonaccinet: Attention-Based Deep Learning For Balanced Bone Fracture Classification In X-Ray Images	1810
<i>Sanjay Balaji K, Sanjay S, Nithiyasree P, Prabhu Sankar P, Subedha V, Parkavi D</i>	
Smart AI-driven OLED Wearable for Enhancing Safety in Coal Mines	1816
<i>Priyadharshini R, Saundariya C, G Maria Kalavathy</i>	
From Words to Queries: A Comparative Evaluation of GPT Models in NLIDB Systems	1823
<i>Mokshada Potdar, Mahesh Potdar, Shubhangi Potdar</i>	
Fault-Tolerant Behavior and Power Analysis of Reversible Logic Gate-Based Digital Circuits	1827
<i>Veena Surendran V, Deepa M, Augusta Sophy Beulet P</i>	
Safe Landing Zone Detection for Drones in Failsafe Scenarios Using Deep Learning and Edge Deployment	1833
<i>Varun Vivek Pai, Harish Ambore, Varun Kandakoor, Kaushik Mallibhat</i>	
IoT-Enabled Water Quality Monitoring with Auto-Scalable Cloud DevOps Pipelines	1841
<i>Tharun. B, Rishi Ganth. K.A, Rohini G</i>	
Bridging Fiber Optic and Free-Space Optical Communication: A Comparative Study and Hybrid Framework using Artificial Intelligence	1846
<i>Aanchal Vij, Priyanka Gaba, Sourav Vij</i>	
TabNet-Driven Efficient DDoS Detection for High-Dimensional Network Traffic	1852
<i>G. Kirubavathi, Bharat Kesav, Venkateswaran Radhakrishnan</i>	
Eld-Era: A Hybrid Edge-Cloud Intelligent IoT Audio System for Medication Assistance and Family Interaction	1858
<i>P. Dhanavanthini, Pattan Munwar Ali Khan, Pamula Jaswitha, Gandla Sai Santhosh</i>	

Evaluating Cross-Dataset Robustness of Video Deepfake Detection Models	1864
<i>B N Jyothi, M A Jabbar</i>	
Instant Fraud Detection Gateway for Secure Digital Transactions	1871
<i>Januvarthini S, Ilamathi S, Poonkuzhali Ramadoss</i>	
AI-Driven Compliance and Audit Framework for Manufacturing Infrastructure in Automotive Connected Services and Financial Ecosystems	1877
<i>Subramanian Sendil Kumar, Anil Lokesh Gadi, Goutham Kumar Sheelam, Dwaraka Nath Kummari Hara Krishna Reddy Koppolu, Avinash Pamisetty</i>	
Voice Authentication for Secure Mobile Applications Using MFCC and Machine Learning	1883
<i>Abhishek Tripathi, Vishal Rathee, T Manideep, Y Pardha Saradhi, A Mahendra, S Rushi Ram Sai</i>	
Hybrid Deep Neural Network–DevOps Pipeline Optimization for Risk Prediction in Cloud-Native Workers’ Compensation Platforms	1888
<i>Subramanian Sendil Kumar, Ravi Shankar Garapati, Avinash Reddy Segireddy, Srinivas Kalisetty Ramesh Inala, Kushvanth Chowdary Nagabhyru</i>	
Design and Evaluation of Phase Frequency Detectors for All-Digital PLL in 180nm Technology	1894
<i>Ammar Maheshwarwala, Vansh Yadav, Hardik Deshpande, Pavan Kushwah, Alpna Deshmukh</i>	
Spectral-Temporal Graph Transformers: Leveraging Spectral Gated Attention for Noise-Resilient Traffic Forecasting	1901
<i>Sherly A, Mary Subaja Christo</i>	
Metasurface-Inspired Slotted Circular Antenna for Enhanced Power Transfer Efficiency in 2.4 GHz ISM Band Wireless Power Systems	1907
<i>Siva. T, Ranjith Kumar. B, Siva Prakash. P, Mohan. C, Senthil Murugan. M, Suresh. D</i>	
KK-MKR: A Convergent Cognitive Knowledge Graph Framework for Sustainable Minimal-Resource 4-D Baked Food Production	1911
<i>Kapil Krishnan, Mukesh Kumar Rohil</i>	
Performance Enhanced Triangular Slotted Patch Antenna for Reliable Vehicle-to-Everything (V2X) Applications	1918
<i>Sreedevi. B, Angelin. R, Shree Abinaya. AP, Mohan. C</i>	
Two-Stage Hybrid Change Detection: Unsupervised Filtering with Deep Semantic Segmentation for Land Cover Monitoring	1922
<i>Amogh Annigeri, Mahesh Khatawate, Raveesh P Nayak, Sathvik Kemptur, Sumaiya Pathan</i>	
Medical IoT Authentication and Security Through Three Point Authentication and Access Token	1930
<i>Piyush Kumar Thakur, Harshit Rajesh Benke, Harshita Shankar, Priyanka Biswas, Nirmalya Kar</i>	
MIMO-Based Jamming-Resilient Communication System	1936
<i>K.Sangeetha, Shiva Siddhartha Gangisetty, Aditya Nihal Vegi, Dinesh Datla</i>	
Enhanced Reactive Power Compensation and Voltage Regulation in Power System Using ANN-Controlled Static VAR Compensator	1942
<i>G.Mahaboob Subahan, Pallaiahgari Sneha, Palem Vasudeva Sai, Bramhadandu Venkata Chandrika Daruri Surya Prakash</i>	
Power Optimized Sense Amplifier for Volatile Memory Array	1946
<i>Jamuna S, Divya J, Hannan Asrafi</i>	

Design and Optimization Strategies for Low-Speed Operational Amplifiers in Analog Applications	1954
<i>Palnati Shirisha, B.Sreshitha, Aspalli Sanjeeva Reddy</i>	
Few-Shot Learning Towards Voice Cloning	1959
<i>Shrisha M Sakri, Priya M Karikatti, Ravi N Khokale, Kaushik Mallibhat</i>	
Hybrid LSTM–Monte Carlo Framework for Probabilistic Stock Price Forecasting with Multi-Directional Visual Analytics	1967
<i>B. Sathiyaprasad, Thennarasu S, Thamizhazhagan S</i>	
A Compact L-Shaped Wearable Antenna on FR-4 Substrate for Medical Applications	1973
<i>A Yogeshwaran, M P Harinisri, M Gayathri, A Anubharathi, M Lavanya, P Saranya</i>	
Design and Comparison of Microstrip Patch Antennas with Different Substrates in the ISM Band	1979
<i>N.Khadar Basha, M. Harini, I.G. Lakshitha, M. Dheepika, C. Diana, N.Lalithakumari</i>	
Hybrid Reputation Routing for Decentralized Networks: A Blockchain-Enabled Secure and Scalable Protocol with On-Chain/Off-Chain Partitioning	1985
<i>Ramkinker Singh, Om Narayan, Praveen Baskar</i>	
Meta-Initialized Warm Pool Manager: Predictive Cold Start Mitigation for Serverless Functions via Adaptive Meta-Learning	1994
<i>Ramkinker Singh, Om Narayan, Praveen Baskar</i>	
Zero-Knowledge Federated Learning for Privacy-Preserving Cyber Threat Detection	2001
<i>Abdul Hadi, Krishna Mula, Ahmad Bacha, Sreekanth Muktevi, Ravikanth Reddy Gudipati, Prashanthi Gutha</i>	
Edge Accelerated Big Data Intelligence for 6G Network Analysis	2008
<i>Chaithanya Etikala, Varinder Kumar Sharma</i>	
LLM - Integrated Big Data Pipelines for Context - Aware Knowledge Extraction	2016
<i>Himanshu Shah, Sudharshan Reddy Kakumanu, Mallikarjun Gouru, Sreekanth Muktevi, Mihir Dhakan Ranjith Goud Karvanga</i>	
LLM-Enabled Cognitive Search for Context-Aware Knowledge Retrieval from Heterogeneous Data Sources	2024
<i>Mallikarjun Gouru, Tanvi Mittal, Ashraf Syed, Subrat Kumar Prasad, Sreepal Reddy Bolla Revanth Reddy Bandaru</i>	
Neuro Symbolic Ai For Context-Aware Decision Making In Real Time Systems	2033
<i>Reshma Thakkallapelly, Sri Lekha Bandla, Siri Chandana Chava, Kalpesh Rathod, Venkata Ramana Gudelli Quazi Taif Sadat</i>	
Self-Adaptive Artificial Intelligence Systems for Large-Scale Data-Driven Decision Making	2040
<i>Md Jubayar Hossain, Mohammed Majid Bakhsh, Mohammad Abdus Sami, Md. Ishtiaque Alam Md Mehedi Hassan Melon, Mia Md Tofayel Gonee Manik</i>	
Artificial Intelligence Models for End-to-End Supply Chain Optimization	2048
<i>Narmin Sayeed, Uday Sankar Saha, Farhana Karim, Md Mustafizur, Syed Mohammed Muhive Uddin Md Asikur Rahman Chy</i>	
Dynamic Big Data Summarisation Using Transformer-Based Generative Models	2056
<i>Evha Rozario, Md Nazmussakib, Gazi Touhidul Alam, Tushar Roy, Muhammad Adnan, Md Imtiaz Faruk</i>	

Cognitive AI Orchestration for Autonomous Edge-Cloud Continuums	2064
<i>Sudharashan Reddy Kakumanu, Siva Sai Krishna Suryadevara, Mallikarjun Gouru, Karthik Linkalapalli Kalpesh Rathod, Jahnvi Kachhia</i>	
Resilient Cybersecurity Architectures for Large-Scale Distributed Systems	2072
<i>Ahmed Shan-A-Alahi, Mohammad Somon Sikder, Hemayet Uddin Himel, Md Talha Bin Ansar Md Kazi Tuhin, Harleen Kaur</i>	
Zero-Trust Security Models for Cloud, Edge, and IoT Environments	2080
<i>Emran Hossain, Shuchona Malek Orthi, Md Abubokor Siam, Foysal Mahmud, Mohammad Abdul Goffer Jahid Hassan</i>	
Ethical AI Governance Models for Federated Multi-Agent Ecosystems	2089
<i>Tanvi Mittal, Mallikarjun Gouru, Harsh Ranjan, Chandra Shekhar Pareek, Chaitanya Kumar Nelavayi Rishith Reddy Bandaru</i>	
Hybrid Big Data-LLM Framework for Intelligent Scientific Literature Mining	2097
<i>Md. Ishtiaque Alam, Ruhul Amin Md Rashed, Partha Chakraborty, Sraboni Clara Mohonta, Hasan Imam Mohammad Muzahidur Rahman Bhuiyan</i>	
Automated Feature Engineering in Big Data Environments	2106
<i>Aravind Satyanarayanan, Gayatri Tavva, Vinaychand Muppala, Ankit Srivastava, Mihir Dhakan Quazi Taif Sadat</i>	
Federated Reinforcement Learning for Adaptive Cyber Threat Defence	2113
<i>Amit Mahendragiri Goswami, Surendra Narang, Avinash Chandra Vootkuri, Chandra Shekhar Pareek Bhavinkumar Jayswal, Dr. Quazi Taif Sadat</i>	
Generative AI for Synthetic Cyber Threat Simulation and Defense Training	2121
<i>Bhavinkumar Jayswal, Naveen Doraiswami</i>	
Multi-Agent Deep Learning Framework for Supply Chain Resilience	2130
<i>Samanth Guram, Saurabh Pahune</i>	
Human-Digital Twin Symbiosis Using Cognitive AI for Smart Manufacturing	2138
<i>Raghu Praneeth Akula, Rohitha Gajam, Vinay Kumar Gali</i>	
Lateral Automation Techniques and Technologies for Autonomous Vehicles	2148
<i>Tejashri Kolhe, Amol Shinde, Chavez Anthony, Ayush Gupta, Krishna Dongre, Sumedh Gadpayle</i>	