

# **2024 IEEE 5th India Council International Subsections Conference (INDISCON 2024)**

**Chandigarh, India  
22-24 August 2024**



**IEEE Catalog Number: CFP24DIN-POD  
ISBN: 979-8-3503-7676-0**

**Copyright © 2024 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP24DIN-POD
ISBN (Print-On-Demand):	979-8-3503-7676-0
ISBN (Online):	979-8-3503-7675-3

**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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

Pg. No.	Details of Paper
1	<b>Paper ID: 136</b> <b>Analysing Perception of Credibility of a Message in Online Social Network using SmartPLS</b> Akshata S Bhayyar, Kiran P
7	<b>Paper ID: 193</b> <b>Antioxidants and Photosensitizer Co-loaded Nanoparticles Boost Photodynamic Therapy in Triple Negative Breast Cancer</b> Hima Sree Buddhiraju, Dheeraj Dehariya, Aravind Kumar Rengan
12	<b>Paper ID: 289</b> <b>Employing Machine Learning based Majority Voting Classifier for Explicit Content Detection in Music</b> Prathmesh Ramakant Ghatol, <b>Yash Shah</b> , Rucha Gavaskar, Monika Mangla, and Richa Sharma
18	<b>Paper ID: 328</b> <b>Comparative Analysis of SRAM Cells with CMOS and CNTFET Technology</b> Abhishek Kumar, <b>Vipin Kumar Sharma</b>
24	<b>Paper ID: 352</b> <b>A Compact QMSIW Self-Diplexing Antenna</b> Gunjan, <b>Shalini Singh</b>
28	<b>Paper ID: 365</b> <b>Enhancing Resilience of WPT Systems to Lateral Misalignment using Near-Field Coil Antennas</b> Ananth Bharadwaj Madduluri, C. C. Reddy, <b>Ashwani Sharma</b>
32	<b>Paper ID: 376</b> <b>Speech Emotion Recognition System based on Auto Encoder</b> <b>Rohit katyal</b> , Neeshu Sharma
38	<b>Paper ID: 377</b> <b>LearnSync: Navigating Learning Opportunities</b> Anushka A Pote, <b>Ashish Manoj</b> , Ruke, Suvarna Patil, Reena Shrikant Sahane
44	<b>Paper ID: 386</b> <b>Ear Recognition Advancements and Trends: A Scientmetric and Systematic Review</b> <b>Parul Chutani</b> , Nitin Sharma
50	<b>Paper ID: 421</b> <b>Flamingo Search Algorithm for Solving the Cost-Effective Multi-Objective Optimal Reactive Power Dispatch Problem</b> Tanmay Das, <b>Ranjit Roy</b> and Kamal Krishna Mandal
56	<b>Paper ID: 426</b> <b>Observations on Electrical Parameters of Vacuum Arcs during Short Circuit Current Interruption</b> <b>Sreeram Vengayil</b>
62	<b>Paper ID: 455</b> <b>Nodes Deployment Techniques for Target Coverage and Connectivity Problems in Underwater Wireless Sensor Networks based on JAYA algorithm</b> <b>Kadoke Marco</b>
67	<b>Paper ID: 470</b> <b>Heating and Cooling of The Power MOSFET for The Static Converter</b> <b>Tapas Halder</b>

73	<b>Paper ID: 623</b> <b>Hyper Parameter Optimization and Solar Power Forecasting using Convolution Neural Networks</b> <b>Kamal Kishore Mehta and Kalpana Meena</b>
78	<b>Paper ID: 631</b> <b>Dual Polarized Differential SIW Antenna for In-Band Full Duplex Applications</b> <b>Gunjan Srivastava, Akhilesh Mohan</b>
83	<b>Paper ID: 639</b> <b>Mitigating IoT Security Risks Enhanced Ransomware Attack Classification</b> <b>Vaibhav Kumar, Kuldeep Singh Jadon, Nitin Gupta</b>
89	<b>Paper ID: 661</b> <b>Unleashing the Potential of Data Science Driven Society 5.0: Applications and Implications</b> <b>Supriya Mishra, Kumar Saurabh</b>
95	<b>Paper ID: 691</b> <b>Enhanced Accuracy for Indoor Position Estimation using Smart Phone Sensors Data via Sensor Fusion and MLP</b> <b>Shiva Sharma, Naresh Kumar and Manjit Kaur</b>
101	<b>Paper ID: 693</b> <b>Analysis of Electric Vehicle Battery Charging-Time Involving its Second-Order RC Equivalent Model</b> <b>Hemwati Nandan, Sanjay Gairola and Manoj Kumar Panda</b>
107	<b>Paper ID: 702</b> <b>Security Outage Performance of an FSO/RF System Employing NOMA</b> <b>Aanchal Gupta, Divya Dhawan, Neena Gupta</b>
112	<b>Paper ID: 728</b> <b>Power Transformer Failure Analysis in Maharashtra State: A Case Study</b> <b>Anurag Khergade and Manish G. Wath</b>
117	<b>Paper ID: 760</b> <b>Study the Effect of Hybrid Energy Harvesting Wireless Body Sensor Nodes using Multi-dimensional Approach in Simulation</b> <b>Hardeep Singh Dhillon, Paras Chawla, Kuldip Kumar, Sandeep Bhatia</b>
122	<b>Paper ID: 775</b> <b>Accessing the Performance of K-Medoid, K-Means and FCM Clustering Techniques for Wireless Sensor Networks</b> <b>Thiyagarajan N, Shanmugasundaram N</b>
127	<b>Paper ID: 827</b> <b>Economic Load Dispatch in Microgrid Using Whale Optimization Algorithm</b> <b>Himanshu Raj and Supriya Jaiswal</b>
133	<b>Paper ID: 841</b> <b>Defect Mediated Sc<sub>2</sub>CO<sub>2</sub> MXene Monolayer for Sensing Small Gas Molecules: A First Principle Study</b> <b>Julaiba Tahsina Mazumder, Ravindra Kumar Jha</b>
136	<b>Paper ID: 843</b> <b>Probabilistic Free Riding Attack in Federated Learning</b> <b>Anee Sharma, Ningrinla Marchang</b>
142	<b>Paper ID: 857</b> <b>Finite-time Frequency Control of an Islanded Microgrid System</b> <b>Jyotika Agarwal, Aniket Karan Chaudhary, Dipayan Guha, Richa Negi and Roshni Mait</b>
147	<b>Paper ID: 860</b>

	<b>Synergistic Integration of Power System Protection and Electrical Machine Operation Paradigms: A Comprehensive Framework Study</b> Raghul S J, Vanaja I, Rajini V, Tamilselvi s and Dinesh Babu Nagalingam
153	Paper ID: 873 <b>Split-Rail Charge Recovery Logic: An Analytical Review</b> Sukhreet Kaur, Rita Mahajan
158	Paper ID: 881 <b>Separately Excited DC Motor Speed Estimation</b> Uzma T Shaikh and Radhika Mundargi
163	Paper ID: 886 <b>Predictive Error Switching Strategy for Multilevel Matrix Converter</b> Solai Manohar S, Senthil Kumaran M, Murugesan K and Darwin Jose Raju
169	Paper ID: 922 <b>Design In-Wheel Switched Reluctance Motor to Endurance Mileage for Electric Vehicle Applications</b> Deepak M, Manokaran J
174	Paper ID: 935 <b>Optimizing Educational Outcome Prediction: Leveraging Chi-Square Method for Effective Feature Selection</b> Kajal Mahawar and Punam Rattan
180	Paper ID: 960 <b>A Compact Shielded QMSIW Quadruplexing Antenna for X-band Applications</b> Gunjan Srivastava, Akhilesh Mohan
184	Paper ID: 967 <b>Optimal Red Edge Band Selection for Crop and Vegetation Classification Using Separability And Spectral Analysis File Outline Optimal Red Edge Band Selection for Crop And Vegetation Classification using Separability And Spectral Analysis</b> Jitendra and Triloki Pant
188	Paper ID: 1010 <b>A Culture- centered Designing of Web-based Language Acquisition Module for the Hearing Impaired</b> Varghese Kandathil and Anie Mathew
194	Paper ID: 1012 <b>IoT-Assisted Gesture-to-Audio Conversion System for Enhancing Accessibility in Speech-Impaired Users</b> Meena kashyap
199	Paper ID: 1017 <b>Important Feature Filtering in IoT Network Traffic to Enhance ML-based Classification</b> Abhishek Shukla, Rahul Gupta
205	Paper ID: 1041 <b>Two Step Federated Learning Approach in Brain Stroke Identification and Classification via Fine-tuning EfficientNetB0 Network at Edge nodes</b> Sapthak Mohajon Turjya, Raj Singh, Pritam Sarkar, Suchismita Rout, Sujata Swain, Anjan Bandyopadhyay
211	Paper ID: 1042 <b>PI Controller Design using Neural Tuning Method for DFIG Grid Integration</b> Rupali Rajesh Hete, Dr Tarun Shrivastava and Ritesh Dash
216	Paper ID: 1046 <b>Enhancing Long-Distance Optical Communication: The Superiority of L-Band over C-Band in Soliton-Based WDM Systems</b>

	<b>Paramjit Kaur, Divya Dhawan, Neena Gupta</b>
<b>222</b>	<b>Paper ID: 1048</b> <b>Dual-Polarized Broadband Antenna Design for Base Station Applications</b> <b>Sambhudutta Nanda</b>
<b>227</b>	<b>Paper ID: 1060</b> <b>Experimental Investigation of the Effect of Titanium And Zirconium Nanoparticles on Single-Phase Transformers</b> Deepak M, <b>J. Manokaran</b> , Dineshkumar P, C. Santhakumar, M. Karthick, C. Bharatiraja
<b>233</b>	<b>Paper ID: 1092</b> <b>Ultra-Wideband Pattern Reconfigurable Antenna for Base station Applications</b> <b>Shalini Bhickta</b> , Naveen Jaglan, Amit Kumar
<b>239</b>	<b>Paper ID: 1127</b> <b>A Review on Blockchain-Based Paradigm for the Management of Digital Assets in Healthcare</b> <b>Kajal Jain</b> , Sanjeev Rana
<b>245</b>	<b>Paper ID: 1144</b> <b>Performance Analysis of Adaptive Underlay/Overlay Full-Duplex Cooperative Communication in Cognitive Radio Network</b> <b>Jayanta Kumar Bag</b>
<b>251</b>	<b>Paper ID: 1145</b> <b>Outage Analysis of a NOMA-based FSO/RF communication system</b> <b>Aanchal Gupta</b>
<b>256</b>	<b>Paper ID: 1159</b> <b>TRAVELX</b> <b>Mittapally Neehar</b> , G Sai Vardhan, Fatima Unnisa, S Madhulitha and Sai Nikhila Reddy
<b>262</b>	<b>Paper ID: 1161</b> <b>A Quick Overview of Recent Developments in Image Restoration using Machine learning</b> <b>Neelam Kumari</b> , Isha Kansal and Preeti Sharma
<b>268</b>	<b>Paper ID: 1209</b> <b>A Comprehensive Cybersecurity Resilience Framework Augmenting Smart Grid Stability</b> <b>Aditya Rastogi</b> , Anubhav Agrawal, Ranbir Singh, Ananya Aggarwal
<b>274</b>	<b>Paper ID: 1257</b> <b>Exploring Robust DDoS Detection: A Machine Learning Analysis with the CICDDoS2019 Dataset</b> Susama Bagchi, Kamal Saluja, Vikas Solanki, Muhammad Numan Ali Khan, <b>Esha Dhamija</b> , Sanjoy Kumar Debnath
<b>280</b>	<b>Paper ID: 1274</b> <b>A Diligent Fine-tuned MobileNetV2 Model for Pistachio Seeds Classification</b> <b>Shagun Sharma</b> , Kalpna Guleria
<b>285</b>	<b>Paper ID: 1374</b> <b>Artificial Intelligent Relays for Protection of Mutually Coupled Parallel Transmission Lines</b> <b>Sanchita Kumari</b> , Sanjeev Kumar Aggarwal, Amrita Sinha
<b>291</b>	<b>Paper ID: 1396</b> <b>Lightweight Generative Adversarial Network (LGAN) Architectures for Resource-Constrained Hardware Applications</b> Abhishek Yadav, <b>Baruri Sai Avinash</b> , Binod Kumar
<b>296</b>	<b>Paper ID: 1487</b> <b>Cyber Security in Power Networks – At the Crossover Domain Intersection</b> <b>Hillol Biswas</b>

302	<b>Paper ID: 1536</b> <b>Digital Emotions using Sentiment Analysis for Predictive Insights on Customer Recommendations</b> <b>Harish Kundra</b>
308	<b>Paper ID: 1563</b> <b>Milk Quality Analysis Based on Fat and SNF Content for Enhanced Dairy Product Suitability</b> <b>Deblina Das, Neha Bagga, Manraj Singh</b>
313	<b>Paper ID: 1568</b> <b>Advanced Control of Power Converters for Enhanced Performance and Stability of Solar Photovoltaic Systems: A Review</b> <b>Ankit Srivastava, Dashrath Nishad, Prashant Pandey, Rinki Maurya, Surya Prakash, Ashutosh Singh</b>
319	<b>Paper ID: 1584</b> <b>Simulation and Fabrication of PDMS-based Microfluidic Device Sub-system to Carry out Water Disinfection using Ag Nanoparticles</b> <b>Kavita A Mukate, Haritha KP, Rucha R Lambate, Sunil Chandel , Tejashree Bhawe</b>
324	<b>Paper ID: 1593</b> <b>Rapid Response Biodegradable Alcohol Sensor using 2D MoS<sub>2</sub>/0 D N-GQDs</b> <b>Rucha R Lambate, Kavita A Mukate, Kalyanee Patil, kshaya Pisal, Tejashree Bhawe</b>
328	<b>Paper ID: 1608</b> <b>Blockchain-Based Trademark Verification System</b> <b>Saket Kiran Nagdive, Priya M Shelke and Shubham Bhagat</b>
334	<b>Paper ID: 1616</b> <b>Evaluation of Computation Overhead of Paillier Encryption in Vertical Federated Learning</b> <b>Abhinand P, Tomsy Paul, Santhosh Kumar Gopalan</b>
340	<b>Paper ID: 1629</b> <b>Integration, Testing and Performance Analysis of ETSI-MEC with Different OAI 5G architectures</b> <b>Pimmy Gandotra, Shashwat Sanadhya, Brejesh Lall</b>
346	<b>Paper ID: 1651</b> <b>A Proposed PWM Technique to Reduce Circulating Current in Two Parallel Interleaved Two-Level VSIs</b> <b>Monalika and Kapil Shukla</b>
352	<b>Paper ID: 1678</b> <b>Empowering Mobility: A Smart Wheelchair Integrated with Health Monitoring System</b> <b>Someshwar Ware, Yogita Kolge, Eshin Somkuwar and Marwana Sayed</b>
358	<b>Paper ID: 1703</b> <b>Efficient RTL to GDS II Flow for Finite State Machine Integration: A Physical Design Approach</b> <b>Amit Shohal, Jasbir Kaur</b>
363	<b>Paper ID: 1732</b> <b>Study on Model Reference Adaptive Control Scheme to Accommodate Flight Disturbances in Micro Aerial Robots</b> <b>Anand Ronald Kumutham</b>
369	<b>Paper ID: 1734</b> <b>Compact 8-port Eighth Mode Circular SIW (EMSIW) MIMO Antenna Substrate</b> <b>Gunjan Srivastava, Akhilesh Mohan</b>
373	<b>Paper ID: 1737</b> <b>MoS<sub>2</sub> Transistor with Polymethyl methacrylate (PMMA) Gate Oxide for Low-Power Applications</b>

	<b>Shivangi Srivastava, Sajal Agarwal</b>
<b>377</b>	<b>Paper ID: 1771</b> <b>Integrating Social Platforms with IoT: Security Challenges, Applications, and Trust Issues</b> Bhabendu Kumar Mohanta, <b>Mohan Kumar Kumar Dehury</b> , Desetti Tulasi, Sunayana Das
<b>383</b>	<b>Paper ID: 1784</b> <b>Investigation of DC &amp; RF/Analog Performance of AlGaN/AlN/GaN MOSHEMT for Different Back Barrier</b> Atya Narayan Mishra, Abdul Naim Khan, <b>Kanjalochoan Jena</b>
<b>388</b>	<b>Paper ID: 1786</b> <b>Enhancing Financial Market Analysis Bitcoin vs Gold through Machine Learning Algorithms: A Study on Risk Assessment and Portfolio Management</b> Richa Golash
<b>394</b>	<b>Paper ID: 1802</b> <b>Analysing Mobility Patterns: A Comparative Study of SUMO RandomTrips and Duarouter</b> Deepika M S
<b>400</b>	<b>Paper ID: 1807</b> <b>Quantum Secure Key Management &amp; Delivery Protocol in the QKD framework</b> Manjiri S Harmalkar, Kurunandan Jain, Aneesh Kumar K B, Prabhakar Krishnan
<b>406</b>	<b>Paper ID: 1808</b> <b>Complexities of Secure Communication in D2D-Enabled 5G Networks: A Review</b> Srinivasarao Yarlagadda, Ajay Bhardwaj
<b>412</b>	<b>Paper ID: 1810</b> <b>Software Defined Network Based Error Correction Mechanism in Quantum Key Distribution</b> Rasha Shajahan, Kurunandan Jain, Aneesh Kumar K B, Prabhakar Krishnan
<b>418</b>	<b>Paper ID: 1824</b> <b>Optimized PM 2.5 Forecasting Using PSO - BiLSTM Model for Air Quality Prediction and Health Risk Assessment</b> Gaurav Pandey, Rajneesh Sharma, Tushar Mr. Shikhola
<b>424</b>	<b>Paper ID: 1834</b> <b>Integral Backstepping Controller for Post Prandial Glucose Management in Artificial Pancreas for Type I Diabetes</b> Shubhrajyoti Moitra
<b>429</b>	<b>Paper ID: 1835</b> <b>Development of Intelligent Healthcare Monitoring System using Machine Learning Model</b> Tanima Bhowmik, Debajyoti Mitra, <b>Pratyusha Chatterjee</b> , Shreyan Kundu, Nirban Roy
<b>435</b>	<b>Paper ID: 1839</b> <b>CPU 101: Design of a Simple Microprocessor from First Principles</b> Aditi Sharma, Devyam Seal, <b>Venkatnarayan Hariharan</b>
<b>441</b>	<b>Paper ID: 1844</b> <b>Wireless Control of 4 D.O.F. Robotic Arm using EMG Muscle Sensors</b> Dinesh Patil, Shilpa Sondkar, Meet Nathwani, Shivanand Nemane ,Mohit Patil
<b>447</b>	<b>Paper ID: 1846</b> <b>A WebApp Framework for the Prediction of e-GFR Value and CKD Stage using Regression-based Machine Learning Algorithms</b> <b>Gayathri Hegde</b> , Priyanka Marellavar, Sunil Kumar G, P Deepa Shenoy, Venugopal K R, Arvind Canchi



453	<b>Paper ID: 1847</b> <b>Common Myths and Misconceptions Regarding Communication Systems</b> <b>Subhendu Batabyal, Praful Mankar</b>
459	<b>Paper ID: 1850</b> <b>A Framework to Detect Human Emotion using Deep Learning Techniques</b> <b>Aravinth J and Poorva Tiwari</b>
465	<b>Paper ID: 1851</b> <b>Analyzing Adaptive Filters for the Separation of Fetal Electrocardiogram in Non-Invasive Monitoring: A Comparative Approach</b> <b>Aravinth J and Sunish S</b>
471	<b>Paper ID: 1864</b> <b>Fabrication and Characterization of Spinel-CdMn<sub>2</sub>O<sub>4</sub> nanostructure as an electrode material for Supercapacitors</b> <b>Raman Duddi, Shivani Shivani, Shobhna Dhiman, Arun Kumar Singh, Navpreet Kamboj, Sanjeev Kumar</b>
477	<b>Paper ID: 1877</b> <b>Universal Software Defined Radio: Advancing Electromagnetic Spectrum Operations for Enhanced Interoperability</b> <b>Mohit Judge</b>
483	<b>Paper ID: 1882</b> <b>Privacy-Preserved Stress Detection from Wearables using Federated Learning</b> <b>Lekha C Warriar, Ragesh G K, Ramsamarth Bb, Kishan Gurumurthy</b>
489	<b>Paper ID: 1886</b> <b>Comparative Analysis of different Operational Transconductance Amplifiers</b> <b>Kareena Yadav, Pawan Srivastava, Balwinder Singh, Parveen Kumar</b>
495	<b>Paper ID: 1898</b> <b>An Improved Approach for the Prediction of Parkinson Disease</b> <b>Ritika Rattan, Pardeep Garg and Pankaj Dhiman</b>
501	<b>Paper ID: 1899</b> <b>An Eco-friendly Web Platform for Transactions</b> <b>Ramanpreet Kaur, Jaskirat kaur, Gurmeet Kaur, Ritika Bhatia, Simarpreet Kaur, Piyush Kumar</b>
507	<b>Paper ID: 1901</b> <b>A Simple Decoupling Mechanism in MIMO Dielectric Resonator Antenna Using Metallic Strips</b> <b>Akshit Kadiyan, Supriya Garg, Gourab Das, Jaskirat Kaur, Arashpreet Sohi, Deepak Kumar Sharma, Simranjit Singh, Arun Kumar Singh</b>
512	<b>Paper ID: 1907</b> <b>Graphical User Interface Aided Intelligent Diagnosis of Stator Faults in Induction Motors</b> <b>Jitendra Kumar Dewangan, Harsh Patel, Aparna Sinha and Debanjan Das</b>
518	<b>Paper ID: 1908</b> <b>Malicious Program Detection using Distinct Textural Features and Fine-tuned InceptionV3 Model</b> <b>Sanjeev Kumar, Yudhishtira Sapru, Navdeep Singh Chahal</b>
524	<b>Paper ID: 1912</b> <b>MedHAI: Improved Framework for Medical Diagnosis using Human Experts</b> <b>Gunika, A L Sangal</b>
530	<b>Paper ID: 1925</b> <b>Ensemble of CNN based Deep Learning Model for the Recognition of Skin Cancer Images</b> <b>Sandhya Sharma, Shaminder Kaur, Navneet Kaur</b>

535	<p><b>Paper ID: 1933</b></p> <p><b>Railway Ticket Scanner using Optical Character Recognition (OCR) and QR Code Generation for Waiting List Ticket allotment</b></p> <p><b>Anand Vijay Sutar</b>, Kantilal Rane, Sahil Sanjay Jadhav, Tejas Shankar Kamble, Aniket Kisan Karale, Yash Mahesh Katkar</p>
540	<p><b>Paper ID: 1937</b></p> <p><b>An Ultrathin Compact Octa-band Terahertz Metamaterial Absorber with Polarization-Sensitive Characteristics</b></p> <p><b>Supriya Garg</b>, Sahil Garg, Bhavya Sharma, Gourab Das, Prince Jain, Sanjeev Kumar, Gaurav Mani Khanal, Arun Kumar Singh</p>
545	<p><b>Paper ID: 1939</b></p> <p><b>Exploring 3-Qubit Quantum Entanglement: An Empirical Analysis with the Qiskit Framework</b></p> <p><b>Manisha Prajapat</b>, Kamal Kishor Choure, Gausia Qazi, Simranjit Singh, Ghanshyam Singh</p>
551	<p><b>Paper ID: 1942</b></p> <p><b>On Board Analysis and Evaluation of Battery EIS Data For Second Life Application</b></p> <p><b>Archit Khurana</b>, Sneha Dattatrey and Gaurav Chatterjee</p>
557	<p><b>Paper ID: 1946</b></p> <p><b>Impact of Polymer Dielectrics on Mobility of Cylindrical-OTFTs for Wearable Textile Applications</b></p> <p><b>Prasanthi Lingala</b>, Durga Prakash</p>
562	<p><b>Paper ID: 1956</b></p> <p><b>FPGA-based Toeplitz Strong Extractor for Quantum Random Number Generators</b></p> <p><b>Shubham Chouhan</b>, Anurag K S V, Raghavan G, Kanaka Raju P.</p>
567	<p><b>Paper ID: 1967</b></p> <p><b>Experimental Challenges in MTPA Control of Indigenous IPMSM and its Solutions</b></p> <p><b>Prakhar Jain</b> and <b>Himanshu Misra</b></p>
573	<p><b>Paper ID: 1978</b></p> <p><b>Deep Learning Based Approach for Detection of Resource Depletion Attacks in 5G Networks</b></p> <p><b>Sri Shiva M V Shourya Sharma</b>, <b>Tilak Malepati</b>, <b>Sriram Sankaran</b></p>
579	<p><b>Paper ID: 1979</b></p> <p><b>FDTD Design and Modelling of Ag/Au Nanoparticles for Field Enhancement</b></p> <p><b>Manish Jangid</b></p>
585	<p><b>Paper ID: 1981</b></p> <p><b>Advanced Machine Learning Prediction of Cognition Functions</b></p> <p><b>Shobhika Madhu</b>, Prashant Kumar, Sushil Chandra</p>
591	<p><b>Paper ID: 1984</b></p> <p><b>Harnessing the Swarm Trio: PSO, ACO, and TSO for Efficient Cloud Task Scheduling</b></p> <p><b>Isha Sharma</b>, Ruchika Gupta, Pardeep Singh</p>
597	<p><b>Paper ID: 1985</b></p> <p><b>Energy-Aware Priority-Based Task Scheduling for Edge Devices in Internet of Things</b></p> <p><b>Vijaykumar Babu Naik Pawar</b>, S. Mini</p>
601	<p><b>Paper ID: 1992</b></p> <p><b>Enhancing Privacy and Utility in Big Data Publishing through Attribute Selection Optimization</b></p> <p><b>Vaishali Chauhan</b>, Ruchika Gupta</p>
607	<p><b>Paper ID: 1998</b></p> <p><b>Enhanced Streetlight Management: Using IoT and ESP32 for Automated Fault Detection</b></p> <p><b>Prabodh P Jagtap</b></p>

613	<b>Paper ID: 2001</b> <b>Rethinking Higher Educational Practices in the Age of Artificial Intelligence</b> Gitanjali Chhabra, Noosha Mehdian and Prihana Vasishta
619	<b>Paper ID: 2011</b> <b>Conduction Mechanism in Standard Schottky Barrier Thin Film Transistors and Source Gated Transistors for Different Active Layer Thicknesses and at High Drain Electric Fields</b> Shaksi Soni, Arjun Datta, Jatinder Pal, Gourab Das, Jaskirat Kaur, Sanjeev Kumar, Arun Kumar Singh, Deepak Kumar Sharma
623	<b>Paper ID: 2013</b> <b>Having a Smartphone and Being Enrolled in a Higher Education Institution does not make Students Digitally Literate!</b> Gayathri Pothancheri, AkshayRaj K P and Shashi Kant Shankar
629	<b>Paper ID: 2020</b> <b>Cyclone Intensity Estimation Using INSAT-3D IR Imagery</b> Aruljothi A, Vasanthi D, Sivasakthi Thanigainathan, Keerthivasan H
635	<b>Paper ID: 2021</b> <b>Dual mode Photothermal/Photodynamic transduction studies using Multifunctional nanosystem for Biomedical Applications</b> Aravind Kumar Rengan, Mohammad Sadik Ali, Sreekanth Patnam
639	<b>Paper ID: 2022</b> <b>Star-Shaped Patch Antenna for THz Applications</b> Mandeep Singh, Simranjit Singh
645	<b>Paper ID: 2023</b> <b>Revolutionizing Sentiment Analysis: Accelerated Data Science Approaches for Reddit Submissions</b> Shiya Mer, Shatakshi Saxena, Arun Singh Pundir
651	<b>Paper ID: 2024</b> <b>YOLOv8 Based Detection of Fall Armyworm in Field Crops</b> Prit N Mhala
657	<b>Paper ID: 2029</b> <b>Exploring Spectral and Non-linear Characteristics of Neural Dynamics during Cognitive Loading</b> Sambit Saha, Nilotpal Das and Monisha Chakraborty
663	<b>Paper ID: 2040</b> <b>Mimicking Human Skin Touch using Microfluidic Single Microchannel Sensor</b> Deepika Gupta, Sachin Sharma, Dr. Nandanwar, Deepak Sachan, Jagadeesh Kadiyam, G Shrikanth Reddy, Narendra Kumar Dhar
668	<b>Paper ID: 2045</b> <b>Unveiling Earthquake Dynamics: A Comprehensive Data Analytics and LSTM-Based Prediction Model for Enhanced Seismic Forecasting</b> Shatakshi Saxena, Arun Singh Pundir, Shiya Mer
674	<b>Paper ID: 2058</b> <b>Efficient Management of Tasks in Road Traffic for Infrastructure Wellness through the Utilization of Piezoelectric Transducers</b> Aditya K Shaw, Sudipta Talukder, Anudipan Pal, Anindya Sen
680	<b>Paper ID: 2064</b> <b>Dual-band MIMO array for 5G wireless networks</b> Poonam Koundal

685	<b>Paper ID: 2066</b> <b>Design of WDM Millimeter Wave over DP-16QAM using Heterodyne for 5G Fronthaul</b> <b>Harpreet Kaur</b>
690	<b>Paper ID: 2069</b> <b>Singular Value Decomposition-Based Reduced Order Framework of Frequency Weighted Continuous-time Systems</b> <b>Vineet Sharma and Deepak Kumar</b>
694	<b>Paper ID: 2080</b> <b>Android Malware Detection Using Graphical Technique</b> <b>Monish Kumar Sahu, Rahul Gupta</b>
700	<b>Paper ID: 2088</b> <b>CFD and Thermal Analysis of Electric Vehicle Battery Pack</b> <b>Dhruv Goyal, Rattanleen Kaur, Arnav Sood, Lkshita Sain, Sulata Bhandari and Ajay Kumar</b>
706	<b>Paper ID: 2090</b> <b>AGILE-DRONE: Autonomous GPS-Enabled Delivery with Integrated Android Interface and Radio Telemetry</b> <b>Shweta Derrick Malekar, Ramprasad Kanailal Ghosh, Prathamesh Upadhye</b>
712	<b>Paper ID: 2095</b> <b>Portfolio Optimization using Deep Reinforcement Learning</b> <b>Adrika Tamuly, Gariman Bhutani, Sukriti Sukriti</b>
718	<b>Paper ID: 2097</b> <b>A Comparative Study of YOLO-V5 Variants Performance for Object Detection in Thermal Infrared Images</b> <b>Manjeet Singh, Aparna Akula</b>
724	<b>Paper ID: 2100</b> <b>Analysis of Carrier-dependent Fluorescence of Curcumin</b> <b>Nitisha Beniwal, Anamika Verma, Nagalaxmi Dokkari Yadav, Aravind Kumar Rengan</b>
728	<b>Paper ID: 2106</b> <b>Blockchain-Enabled Distributed Payment Card Tokenization System</b> <b>Debendranath Das, Atosi Das</b>
734	<b>Paper ID: 2119</b> <b>Enhancing Visibility: A Novel Approach for Dehazing Aerial Images with MixDehazeNet</b> <b>Shatakshi Saxena, Arun Singh Pundir, Shiya Mer</b>
740	<b>Paper ID: 2129</b> <b>IOT based Indoor Environment Monitoring and Controlling with Plant care</b> <b>Pamireddy Hitesh, Venkata Reddy, S Munavvar Hussain, Samhitha Reddy, Vinay Rasamalla</b>
745	<b>Paper ID: 2142</b> <b>Management of Electric Energy through Demand-Side Resources</b> <b>Saurabh Ratra and Ajay Kumar</b>