

5TH IEEE India Council International Subsections Conference (INDISCON 2024)

August 22-24, 2024

Program Schedule

Conference Venue: Hotel Shivalikview, Sector 17, Chandigarh

Day 1: 22.08.2024 (Thursday)

TIME	ACTIVITY		
09.00 AM (Onwards)	Conference Registration		
09.30 AM - 10.00 AM	Plenary Talk-1 Arvind, IISER, Mohali		
10.00 AM - 10.30 AM	Plenary Talk-2 Surendra Pal, ISRO, Bangalore		
10.30 AM – 11.00 AM	Plenary Talk-3 Shantanu Bhattacharya, CSIO, Chandigarh		
11.00 AM - 11.30 AM	Tea Break		
11.30 AM - 01.00 PM	Technical Session-1A Sensors and Actuators-I Keynote Talk (Aimin Song, University of Manchester, UK) Invited Talk (Suvankar Chakraverty, INST Mohali) Oral Presentations (4) (Paper ID: 927, 193, 2040, 1864)	Technical Session-2A Soft Computing Techniques in Power System Keynote Talk (B.K Panigrahi, IIT Delhi) Oral Presentations (4) (Paper ID: 421, 623, 992, 1042)	Technical Session-3A Advancements in AI and ML Applications-I Keynote Talk (Parag Kulkarni, Tokyo International University, Japan) Oral Presentations (4) (Paper ID: 386, 1055, 1274, 1786)
01.00 PM - 02.00 PM	Lunch		
02.00 PM - 03.30 PM	Technical Session-1B MOS Devices and Applications Keynote Talk (Sudeb Dasgupta, IIT Roorkee) Oral Presentations (4) (Paper ID: 328, 1946, 1060, 2011)	Technical Session-2B Power System Protection and Control Invited Talks (Ranjana Sodhi, IIT Ropar) (Vahid Vahidinasab, Nottingham Trent University) Oral Presentations (4) (Paper ID: 426, 1374, 1850, 1907)	Technical Session-3B Advanced AI Techniques in Modern Networks Keynote Talk (H K Sardana, IIIT Raichur) Oral Presentations (4) (Paper ID: 843, 1810, 1984, 1753)
03.30 PM - 03.45 PM	Tea Break		
03.45 PM - 05.15 PM	Technical Session-1C Antenna and Wave Propagation-I Invited Talk (Gourav Prateek Sharma, KTH Sweden) Oral Presentations (5) (Paper ID: 365, 818, 702, 1901, 1048)	Technical Session-2C Education Technology-I Invited Talk (Maitree Dutta, NITTTR Chandigarh) Oral Presentations (4) (Paper ID: 112, 935, 1010, 1159)	Technical Session-3C Communication Systems-I Keynote Talk (Li Qian, University of Toronto) Oral Presentations (4) (Paper ID: 1831, 246, 2064, 1877)
05.15 PM - 06.15 PM	Poster Session - I (18) (136, 1908, 1006, 1784, 1703, 1584, 2024, 470, 827, 1161, 857, 1012, 693, 1136, 967, 1536, 1845, 2013)		Technical Session-4A Oral Presentations (7) (Paper ID: 661, 775, 1616, 1678, 1847, 2008, 1844)

Day 2: 23.08.2024 (Friday)

08.45 AM - 10.15 AM	Technical Session-1D Wireless Sensor Networks Invited Talk (D. K Lobiya, JNU Delhi) Oral Presentations (4) (Paper ID: 455, 760, 2129, 1937)	Technical Session-2D Power Electronics and Drives Keynote Talk (Rajesh Kumar, MNIT Jaipur) Oral Presentations (4) (Paper ID: 881, 886, 922, 2088)	Technical Session-3D Advanced Techniques in Cybersecurity Invited Talk (Gurjeet Walia, DRDO) Oral Presentations (4) (Paper ID: 2080, 639, 1978, 1843, 1828)
10.15 AM - 11.30 AM	INAUGURAL SESSION		
11.30 AM – 11.45 AM	Tea Break		
11.45 AM - 12.15 PM	Plenary Talk-4 R.B. Grover, Homi Bhabha National Institute, Mumbai		
12.15 PM – 12.45 PM	Plenary Talk-5 Sandeep Sancheti, Research Relations and Academic Ambassador, Elsevier, India		
12.45 PM - 02.15 PM	Technical Session-1E 5G Network Keynote Talk (Debabrata Das, IIIT Bangalore) Oral Presentations (4) (Paper ID: 1629, 1808, 2066, 1734)	Technical Session-2E Advancements in Signal Processing Invited Talk (Bhavesh Kumar Bhalja, IIT Roorkee) Oral Presentations (4) (Paper ID: 691, 728, 1732, 1834)	Technical Session-3E Innovations in Data Analysis and Protection Invited Talk (Nitin Auluck, IIT Ropar) Oral Presentations (5) (Paper ID: 300, 2023, 1992, 1041, 1127)
02.15 PM - 03.00 PM	Lunch		
03.00 PM - 04.30 PM	Technical Session-1F Antenna and Wave Propagation-II Invited Talk (G. Shrikanth Reddy, IIT Mandi) Oral Presentations (5) (Paper ID: 352, 631, 960, 1092, 1145)	Technical Session-2F Education Technologies-II Invited Talk (Ritula Thakur, NITTTR Chandigarh) (B. Das, IIT Roorkee) Oral Presentations (4) (Paper ID: 1608, 1898, 2001, 1246)	Technical Session-3F Women in Engineering Invited Talk (Prerna Gaur, NSUT New Delhi) Oral Presentations (4) (Paper ID: 1046, 1802, 1846, 1899)
04.30 PM - 04.45 PM	Tea Break		
04.45 PM - 06.00 PM	Technical Session-1G VLSI and Embedded Systems Keynote Talks (Saptarshi Das, Penn State University, USA) (Gian Carlo Cardarilli, Tor Vergata University of Rome, Italy) Oral Presentations (4) (Paper ID: 873, 1839, 1886, 1737)	Technical Session-2G Power Electronics System Control Invited Talks (Ashwani Kumar, NIT Kurukshetra) (C.C. Reddy, IIT Ropar) Oral Presentations (4) (Paper ID: 1568, 2142, 1967, 1942)	Technical Session-3G AI Techniques for Healthcare Invited Talk (N. Banumathy, PGIMER Chandigarh) Oral Presentations (4) (Paper ID: 1824, 1835, 1912, 1925)
06.00 PM - 07.00 PM	Poster Session - II (22) (289, 1190, 1851, 2020, 2058; 376, 377, 427, 860, 1135, 1344, 1836, 1882, 2045, 2119, 1396, 1209, 1257, 1979, 2022)		

Day 3: 24.08.2024 (Saturday)

09.00 AM - 10.30 AM	Technical Session-1H Sensors and Actuators-II Invited Talk (Shahrir R Kasjoo, Universiti Malaysia Perlis) Oral Presentations (4) (Paper ID: 841, 1593, 2021, 2100)	Technical Session-2H Special Session: Emerging Grid Codes and Cost of Integration of Renewables in Grid Invited Talks (Ravi Segal, Energix) (Rajbir Walia, PSTCL) (Sukhwinder Abrol, CREST Chandigarh) (Ajay Maurya, BIS) (Sanjay Sharma, JKPDD) (K.S. Mann, MAC Power, UK)	Technical Session-3H Advancements in AI and ML Applications-II Invited Talk (Satish Kumar, CSIO Chandigarh) Oral Presentations (5) (Paper ID: 1981, 2097, 2095, 2106)
10.30 AM - 11.00 AM	Tea Break		
11.00 AM - 11.30 AM	Plenary Talk-6 Sukumar Mishra, IIT Dhanbad		
11.30 AM - 12.00 PM	Plenary Talk-7 Goutam Chattopadhyay, JPL, NASA		
12.00 PM - 01.30 PM	Technical Session-1I Special Session: MHz to THz Frequency Systems Invited Talks (Shiban K. Koul, IIT Delhi) (Chinmoy Saha, IIST Thiruvananthapuram) (Ramesh K. Gupta, Ligado Networks, USA) (Jaleel Akhtar, IIT Kanpur)	Technical Session-2I Intelligent Control Techniques Invited Talk (Arun K. Verma, IIT Jammu) Oral Presentations (4) (Paper ID: 2029, 2069, 1487, 1651)	Technical Session-3I Special Session: AI in Industry Invited Talks (Sudhir Dhamija, DGRE Chandigarh) (Anil Yadav, Samsung Research Noida) (Pallavi, Wipro Limited) (Vikram, Antier Pvt. Ltd)
01.30 PM - 02.30 PM	Lunch		
02.30 PM - 04.00 PM	Technical Session-1J IOT Networks Keynote Talk (Bob Gill, British Columbia Institute of Technology, Canada) Oral Presentations (4) (Paper ID: 1017, 1771, 1985, 1998)	Technical Session-2J Communication Systems-II Invited Talks (Seshan Srirangarajan, IIT Delhi) (Anirban Sarkar, IIT Mandi) Oral Presentations (4) (Paper ID: 1563, 2090, 1933, 1144)	Technical Session-3J Quantum Computing and Applications Invited Talk (Jawar Singh, IIT Patna) Oral Presentations (4) (Paper ID: 1794, 1939, 1956, 1807)
4.00 PM - 05.00 PM	Valedictory & Prize Distribution		



INDISCON 2024

August 22 – 24, 2024, Chandigarh, India

Detailed Technical Program

VENUE

Hotel Shivalikview Sector-17, Chandigarh

Day 1: 22.08.2024 (Thursday)		
Room	Session Details	Time
Anjuman Hall (Ground Floor)	Plenary Session-I	09:30 AM – 11:00 AM
	1A. Sensors and Actuators-I	11:30 AM – 01:00 PM
	2B. Power System Protection and Control	02:00 PM – 03:30 PM
	3C. Communication Systems- I	03:45 PM – 05:15 PM
	4A. Technical Session	05:15 PM – 06:15 PM
Aadab Arz (Ground Floor)	2A. Soft Computing Techniques in Power System	11:30 PM – 01:00 PM
	1B. MOS Devices and Applications	02:00 PM – 03:30 PM
	1C. Antenna and Wave Propagation-I	03:45 PM – 05:15 PM
	Poster Session - I	05:15 PM – 06:15 PM
Board Room (3 rd Floor)	3A. Advancements in AI and ML	11:30 AM – 01:00 PM
	3B. Advanced AI Techniques in Modern Networks	02:00 PM – 03:30 PM
	2C. Education Technologies – I	03:45 PM – 05:15 PM

Day 2: 23.08.2024 (Friday)		
Room	Session Details	Time
Anjuman Hall (Ground Floor)	1D. Wireless Sensor Networks	08:45 AM – 10:15 AM
	Inauguration Session	10:15 AM – 11:30 AM
	Plenary Session-II	11:45 AM – 12:45 PM
	1E. 5G Network	12:45 PM – 02:15 PM
	1F. Antenna and Wave Propagation-II	03:00 PM – 04:30 PM
	1G. VLSI and Embedded Systems	04:45 PM – 06:00 PM
Aadab Arz (Ground Floor)	2D. Power Electronics and Drives	08:45 AM – 10:15 AM
	2E. Advancements in Signal Processing	12:45 PM – 02:15 PM
	2F. Education Technologies-II	03:00 PM – 04:30 PM
	2G. Power Electronics System Control	04:45 PM – 06:00 PM
	Poster Session-II	06:00 PM – 07:00 PM
Board Room (3 rd Floor)	3D. Advanced Techniques in Cybersecurity	08:45 AM – 10:15 AM
	3E. Innovations in Data Analysis and Protection	12:45 PM – 02:15 PM
	3F. Women in Engineering	03:00 PM – 04:30 PM
	3G. AI Techniques for Healthcare	04:45 PM – 06:00 PM

Day 3: 24.08.2024 (Saturday)		
Room	Session Details	Time
Anjuman Hall (Ground Floor)	1H. Sensors and Actuators-II	09:00 AM – 10:30 AM
	Plenary Session- III	11:00 AM – 12:00 PM
	1I. Special Session on MHz to THz Frequency Systems	12:00 PM – 01:30 PM
	1J. IOT Networks	02:30 PM – 04:00 PM
	Valedictory & Prize Distribution	04:00 PM – 05:00 PM
Aadab Arz (Ground Floor)	2H. Special Session: Emerging Grid Codes and Cost of Integration of Renewables in Grid	09:00 AM – 10:30 AM
	2I. Intelligent Control Techniques	12:00 PM – 01:30 PM
	2J. Communication Systems- II	02:30 PM – 04:00 PM
Board Room (3 rd Floor)	3H. Advancements in AI and ML Applications-II	09:00 AM – 10:30 AM
	3I. Special Session: AI in Industry	12:00 PM – 01:30 PM
	3J. Quantum Computing and Applications	02:30 PM– 04:00 PM

Plenary Talks

Day 1 Plenary Talks: 22/08/2024

09:30 AM - 11:00 AM

Session Chair/Co-Chair: Ramesh Gupta (Ligado Networks, USA)/R. S. Walia (PEC, Chandigarh)

Plenary 1

Title: From Quantum Physics to Quantum Technologies: A Journey of a Century

Arvind, IISER Mohali

Plenary 2

Title: Disruptive Technology Perspective

Surendra Pal, ISRO, Bangalore

Plenary 3

Title: Printable Supercapacitors

Shantanu Bhattacharya, CSIO Chandigarh

Day 2 Plenary Talks: 23/08/2024

11:45 AM - 12:45 PM

Session Chair/Co-Chair: Arun Grover (Former VC, PU Chandigarh)/Sandeep Kumar (PEC Chandigarh)

Plenary 4

Title: Development-Led Transition to a Net Zero Energy Mix in India

R.B. Grover, Homi Bhabha National Institute, Mumbai

Plenary 5

Title: Driving Relevant and Impactful Research

Sandeep Sancheti, Research Relations and Academic Ambassador, Elsevier, India

Day 3 Plenary Talks: 24/08/2024

11:00 AM - 12:00 PM

Session Chair/Co-Chair: Shibani K. Koul (IIT Delhi)/Simranjit Singh (PEC, Chandigarh)

Plenary 6

Title: Issues in Grid Integration of Rooftop Solar PV

Sukumar Mishra, IIT Dhanbad

Plenary 7

Title: Microwave to Terahertz Technologies to Explore the Universe

Goutam Chattopadhyay, JPL, NASA

Oral Presentations

1A. Sensors and Actuators-I

Session Date and Time: 22/08/2024

11:30 AM – 01:00 PM

Session Chair/Co-Chair: : Prof. Neena Gupta (PEC Chandigarh)/Arashpreet Kaur (PEC Chandigarh)

Keynote Talk: Devices Based on Semimetallic Graphene and Semiconducting Graphene Nanoribbons, *Aimin Song, University of Manchester, UK*

Keynote Talk: Spin Polarization and Topological Hall effect: Oxide Interface and Thin Films, *Suvankar Chakraverty, INST Mohali*

Paper ID: 927

An Effect of Asymmetrical Structure on the Performance of Dielectric-Modulated AlGa_N/Ga_N/InGa_N/Ga_N MOSHEMTs for Label-Free Biosensing Applications

Girish Shankar Mishra, **M Arun Kumar**, Mohankumar N, Sankalp Kumar Singh, Varier Mahesh

Paper ID: 193

Antioxidants and Photosensitizer Co-loaded Nanoparticles Boost Photodynamic Therapy in Triple Negative Breast Cancer

Hima Sree Buddhiraju, Dheeraj Dehariya, Aravind Kumar Rengan

Paper ID: 2040

Mimicking Human Skin Touch using Microfluidic Single Microchannel Sensor

Deepika Gupta, Sachin Sharma, Dr. Nandanwar, Deepak Sachan, Jagadeesh Kadiyam, G Shrikanth Reddy, Narendra Kumar Dhar

Paper ID: 1864

Fabrication and Characterization of Spinel-CdMn₂O₄ nanostructure as an electrode material for Supercapacitors

Raman Duddi, Shivani Shivani, Shobhna Dhiman, Arun Kumar Singh, Navpreet Kamboj, Sanjeev Kumar

1B. MOS Devices and Applications

Session Date and Time: 22/08/2024

2:00 PM – 03:30 PM

Session Chair/Co-Chair: S. S. Gill (NITTTR, Chandigarh)/Jasbir Kaur (PEC Chandigarh)

Keynote Talk: Reliability Challenges in Gate-All-Around Nanosheet/Forksheet FETs, *Sudeb Dasgupta, IIT Roorkee*

Paper ID: 1946

Impact of Polymer Dielectrics on Mobility of Cylindrical-OTFTs for Wearable Textile Applications

Prasanthi Lingala, Durga Prakash

Paper ID: 1060

Experimental Investigation of the Effect of Titanium And Zirconium Nanoparticles on Single-Phase Transformers

Deepak M, **J. Manokaran**, Dineshkumar P, C. Santhakumar, M. Karthick, C. Bharatiraja

Paper ID: 2011

Conduction Mechanism in Standard Schottky Barrier Thin Film Transistors and Source Gated Transistors for Different Active Layer Thicknesses and at High Drain Electric Fields

Shaksi Soni, Arjun Datta, Jatinder Pal, Gourab Das, Jaskirat Kaur, Sanjeev Kumar, Arun Kumar Singh, Deepak Kumar Sharma

Paper ID: 328

Comparative Analysis of SRAM Cells with CMOS and CNTFET Technology

Abhishek Kumar, **Vipin Kumar Sharma**

1C. Antenna and Wave Propagation-I
Session Date and Time: 22/08/2024 3:45 PM – 05:15 PM Session Chair/Co-Chair: Umesh Tiwari (CSIR-CSIO Chandigarh)/Surendra Kumar Gupta (PEC Chandigarh)
Invited Talk: Dependable Time-critical Communications in 6G: Challenges and Future Directions, <i>Gourav Prateek Sharma, KTH Sweden</i>
Paper ID: 1901 A Simple Decoupling Mechanism in MIMO Dielectric Resonator Antenna Using Metallic Strips Akshit Kadiyan, Supriya Garg, Gourab Das, Jaskirat Kaur, Arashpreet Sohi, Deepak Kumar Sharma, Simranjit Singh, Arun Kumar Singh
Paper ID: 365 Enhancing Resilience of WPT Systems to Lateral Misalignment using Near-Field Coil Antennas Ananth Bharadwaj Madduluri, C. C. Reddy, Ashwani Sharma
Paper ID: 818 Wideband Frequency Selective Surface Absorber for Radar Cross-Section Reduction Shrey Anant Sandiman, Laxmikant Dewagan, Nipun Kumar Mishra
Paper ID: 702 Security Outage Performance of an FSO/RF System Employing NOMA Aanchal Gupta, Divya Dhawan, Neena Gupta
Paper ID: 1048 Dual-Polarized Broadband Antenna Design for Base Station Applications Sambhudutta Nanda

1D. Wireless Sensor Networks
Session Date and Time: 23/08/2024 08:45 AM – 10:15 AM Session Chair/Co-Chair: Shailendra Singh (PEC Chandigarh)/Mayank Gupta (PEC Chandigarh)
Invited Talk: AI Limits and Beyond, <i>D. K Lobiya, JNU Delhi</i>
Paper ID: 455 Nodes Deployment Techniques for Target Coverage and Connectivity Problems in Underwater Wireless Sensor Networks based on JAYA algorithm Kadoke Marco
Paper ID: 760 Study the Effect of Hybrid Energy Harvesting Wireless Body Sensor Nodes using Multi-dimensional Approach in Simulation Hardeep Singh Dhillon, Paras Chawla, Kuldip Kumar, Sandeep Bhatia
Paper ID: 2129 IOT based Indoor Environment Monitoring and Controlling with Plant care Pamireddy Hitesh, Venkata Reddy, S Munavvar Hussain, Samhitha Reddy, Vinay Rasamalla
Paper ID: 1937 An Ultrathin Compact Octa-band Terahertz Metamaterial Absorber with Polarization- Sensitive Characteristics Supriya Garg, Sahil Garg, Bhavya Sharma, Gourab Das, Prince Jain, Sanjeev Kumar, Gaurav Mani Khanal, Arun Kumar Singh

1E. 5G Network
Session Date and Time: 23/08/2024 12:45 PM – 02:15 PM Session Chair/Co-Chair: Sudeb Das Gupta (IIT Roorkee)/Rajandeep Singh (GNDU Amritsar)
Keynote Talk: Atmanirbhar 5G-Advanced Open-Radio Access Network Base Station Technologies, <i>Debabrata Das, IIT Bangalore</i>
Paper ID: 1629 Integration, Testing and Performance Analysis of ETSI-MEC with Different OAI 5G architectures Pimmy Gandotra, Shashwat Sanadhya , Brejesh Lall
Paper ID: 1808 Complexities of Secure Communication in D2D-Enabled 5G Networks: A Review Srinivasarao Yarlagadda, Ajay Bhardwaj
Paper ID: 2066 Design of WDM Millimeter Wave over DP-16QAM using Heterodyne for 5G Fronthaul Harpreet Kaur
Paper ID: 1734 Compact 8-port Eighth Mode Circular SIW (EMSIW) MIMO Antenna Substrate Gunjan Srivastava, Akhilesh Mohan

1F. Antenna and Wave Propagation-II
Session Date and Time: 23/08/2024 3:00 PM – 04:30 PM Session Chair/Co-Chair: Naresh Kumar (UIET Chandigarh)/Balwinder Singh Dhaliwal (NITTTR Chandigarh)
Invited Talk: Development of EM wave Absorbers using Frequency Selective Surfaces, <i>G. Shrikanth Reddy, IIT Mandi</i>
Paper ID: 960 A Compact Shielded QMSIW Quadruplexing Antenna for X-band Applications Gunjan Srivastava, Akhilesh Mohan
Paper ID: 1092 Ultra-Wideband Pattern Reconfigurable Antenna for Base station Applications Shalini Bhickta, Naveen Jaglan, Amit Kumar
Paper ID: 1145 Outage Analysis of a NOMA-based FSO/RF communication system Aanchal Gupta
Paper ID: 352 A Compact QMSIW Self-Diplexing Antenna Gunjan, Shalini Singh
Paper ID: 631 Dual Polarized Differential SIW Antenna for In-Band Full Duplex Applications Gunjan Srivastava, Akhilesh Mohan

1G. VLSI and Embedded Systems
Session Date and Time: 23/08/2024 04:45 PM – 06:00 PM Session Chair/Co-Chair: Jawar Singh (IIT Patna)/Ramandeep Kaur (Punjabi University, Patiala)
Keynote Talk: Monolithic 3D Integration of Multifunctional and Heterogeneous 2D Devices, <i>Saptarshi Das, Penn State University, USA</i>
Keynote Talk: (TBD), <i>Gian Carlo Cardarilli, Tor Vergata University of Rome, Italy</i>

Paper ID: 873 Split-Rail Charge Recovery Logic: An Analytical Review Sukhreet Kaur, Rita Mahajan
Paper ID: 1839 CPU 101: Design of a Simple Microprocessor from First Principles Aditi Sharma, Devyam Seal, Venkatnarayan Hariharan
Paper ID: 1886 Comparative Analysis of different Operational Transconductance Amplifiers Kareena Yadav, Pawan Srivastava, Balwinder Singh, Parveen Kumar
Paper ID: 1737 MoS2 Transistor with Polymethyl methacrylate (PMMA) Gate Oxide for Low-Power Applications Shivangi Srivastava, Sajal Agarwal

1H. Sensors and Actuators-II	
Session Date and Time: 24/08/2024 Session Chair/Co-Chair: Sanjeev Kumar (PEC Chandigarh)/Pooja Devi (CSIR-CSIO Chandigarh)	09:00 AM – 10:30 AM
Invited Talk: Planar Electronic Nanodevices and Their Applications, <i>Shahrir R Kasjoo, Universiti Malaysia Perlis</i>	
Paper ID: 841 Defect Mediated Sc2CO2 MXene Monolayer for Sensing Small Gas Molecules: A First Principle Study Julaiba Tahsina Mazumder, Ravindra Kumar Jha	
Paper ID: 1593 Rapid Response Biodegradable Alcohol Sensor using 2D MoS2/0 D N-GQDs Rucha R Lambate, Kavita A Mukate, Kalyanee Patil, kshaya Pisal, Tejashree Bhawe	
Paper ID: 2021 Dual mode Photothermal/Photodynamic transduction studies using Multifunctional nanosystem for Biomedical Applications Aravind Kumar Rengan, Mohammad Sadik Ali, Sreekanth Patnam	
Paper ID: 2100 Analysis of Carrier-dependent Fluorescence of Curcumin Nitisha Beniwal, Anamika Verma, Nagalaxmi Dokkari Yadav, Aravind Kumar Rengan	

1I. Special Session on MHz to THz Frequency Systems	
Session Date and Time: 24/08/2024 Session Chair/Co-Chair: Goutam Chattopadhyay (JPL NASA)/Gourab Das (PEC Chandigarh)	12:00 PM – 01:30 PM
Keynote/Invited Talks	
Medical Applications of MHz to sub-THz Waves Shiban K. Koul, IIT Delhi	
Advanced Antennas for Ground and Satellite Applications: Overview and Recent Developments Chinmoy Saha, Indian Institute of Space Science and Technology, Thiruvananthapuram	
MHz to sub- THz Emerging 5G/6G Telecom Networks: A Technology Perspective Ramesh K Gupta, Legado Networks, United States of America	
Metamaterials Inspired RF Sensors and Imaging Methodologies for Biomedical and Humanitarian Applications Jaleel Akhtar, IIT, Kanpur	

1J. IOT Networks
Session Date and Time: 24/08/2024 02:30 PM – 04:00 PM Session Chair/Co-Chair: Baban Kumar Bansod (CSIR-CSIO Chandigarh)/Birinderjit Singh (Chandigarh University)
Keynote Talk: AI and IoT - Applications and Perils, <i>Bob Gill, British Columbia Institute of Technology, Canada</i>
Paper ID: 1017 Integrating Social Platforms with IoT: Security Challenges, Applications, and Trust Issues Abhishek Shukla, Rahul Gupta
Paper ID: 1771 Integrating Social Platforms with IoT: Security Challenges, Applications, and Trust Issues Bhabendu Kumar Mohanta, Mohan Kumar Kumar Dehury , Desetti Tulasi, Sunayana Das
Paper ID: 1985 Energy-Aware Priority-Based Task Scheduling for Edge Devices in Internet of Things Vijaykumar Babu Naik Pawar, S. Mini
Paper ID: 1998 Enhanced Streetlight Management: Using IoT and ESP32 for Automated Fault Detection Prabodh P Jagtap

2A. Soft Computing Techniques in Power System
Session Date and Time: 22/08/2024 11:30 PM – 01:00 PM Session Chair/Co-Chair: Damanjit Kaur (UIET, PU Chandigarh)/T. S. Saggu (PEC Chandigarh)
Keynote Talk: Application of Soft Computing Tools for Power Systems Planning, Operation and Control, <i>B.K Panigrahi, IIT Delhi</i>
Paper ID: 421 Flamingo Search Algorithm for Solving the Cost-Effective Multi-Objective Optimal Reactive Power Dispatch Problem Tanmay Das, Ranjit Roy and Kamal Krishna Mandal
Paper ID: 623 Hyper Parameter Optimization and Solar Power Forecasting using Convolution Neural Networks Kamal Kishore Mehta and Kalpana Meena
Paper ID: 992 Empowering Energy Systems: Exploring the Intersection of Artificial Intelligence and Predictive Maintenance Karthika Natarajan , Vankayalapati Radhika, Chandana Gouri Tekkali
Paper ID: 1042 PI Controller Design using Neural Tuning Method for DFIG Grid Integration Rupali Rajesh Hete , Dr Tarun Shrivastava and Ritesh Dash

2B. Power System Protection and Control
Session Date and Time: 22/08/2024 02:00 PM - 03:30 PM Session Chair/Co-Chair: Y. P. Verma (UIET, PU Chandigarh)/Sandeep Kaur (PEC Chandigarh)
Invited Talk: Looking into the Future of EV-Integrated Energy Systems: Vehicle-for-Everything (V4X), <i>Vahid Vahidinasab, Nottingham Trent University</i>
Invited Talk: Advanced Measurement and Instrumentation for Sustainable Energy System Challenges, <i>Ranjana Sodhi, IIT Ropar</i>

Paper ID: 426 Observations on Electrical Parameters of Vacuum Arcs during Short Circuit Current Interruption Sreeram Vengayil
Paper ID: 1374 Artificial Intelligent Relays for Protection of Mutually Coupled Parallel Transmission Lines Sanchita Kumari, Sanjeev Kumar Aggarwal, Amrita Sinha
Paper ID: 1850 A Framework to Detect Human Emotion using Deep Learning Techniques Aravinth J and Poorva Tiwari
Paper ID: 1907 Graphical User Interface Aided Intelligent Diagnosis of Stator Faults in Induction Motors Jitendra Kumar Dewangan, Harsh Patel, Aparna Sinha and Debanjan Das

2C. Education Technologies – I	
Session Date and Time: 22/08/2024 Session Chair/Co-Chair: Anju Singla (PEC Chandigarh)/Nidhi Tanwar (PEC Chandigarh)	03:45 PM - 05:15 PM
Invited Talk: ICT/AI Tools for Teaching Learning and Research, <i>Maitreyee Dutta, NITTTR, Chandigarh</i>	
Paper ID: 112 An Intervention Program to Capture the Attention Span and Working Memory Using Psychopy and Opensesame – A Comparative Study Kavitha Sooda, Indiramma M, Preetam S, Pujith B.S., Rohit Agarwal, Rohit K and Sunayana S	
Paper ID: 935 Optimizing Educational Outcome Prediction: Leveraging Chi-Square Method for Effective Feature Selection Kajal Mahawar and Punam Rattan	
Paper ID: 1010 A Culture- centered Designing of Web-based Language Acquisition Module for the Hearing Impaired Varghese Kandathil and Anie Mathew	
Paper ID: 1159 TRAVELX Mittapally Neehar, G Sai Vardhan, Fatima Unnisa, S Madhulitha and Sai Nikhila Reddy	

2D. Power Electronics and Drives	
Session Date and Time: 23/08/2024 Session Chair/Co-Chair: Tilak Thakur (PEC Chandigarh)/Puneet Kaur (UIET, PU Chandigarh)	8:45 AM - 10:15 AM
Keynote Talk: Reinforcement Learning Algorithm Design for Power Management in EV, <i>Prof. Rajesh Kumar, MNIT Jaipur</i>	
Paper ID: 881 Separately Excited DC Motor Speed Estimation Uzma T Shaikh and Radhika Mundargi	
Paper ID: 886 Predictive Error Switching Strategy for Multilevel Matrix Converter Solai Manohar S, Senthil Kumaran M, Murugesan K and Darwin Jose Raju	
Paper ID: 922 Design In-Wheel Switched Reluctance Motor to Endurance Mileage for Electric Vehicle Applications Deepak M, Manokaran J	

Paper ID: 2088

CFD and Thermal Analysis of Electric Vehicle Battery Pack

Dhruv Goyal, **Rattanleen Kaur**, Arnav Sood, Lkshita Sain, Sulata Bhandari and Ajay Kumar

2E. Advancements in Signal Processing

Session Date and Time: 23/08/2024

12:45 PM - 02:15 PM

Session Chair/Co-Chair: Ashwini Kumar (NIT Kurukshetra)/Vivek Pahwa (UIET, PU Chandigarh)

Invited Talk: Cyber Security Aspect in Electrical Power Network, *Bhavesh Kumar Bhalja, IIT Roorkee*

Paper ID: 691

Enhanced Accuracy for Indoor Position Estimation using Smart Phone Sensors Data via Sensor Fusion and MLP

Shiva Sharma, Naresh Kumar and Manjit Kaur

Paper ID: 728

Power Transformer Failure Analysis in Maharashtra State: A Case Study

Anurag Khergade and Manish G. Wath

Paper ID: 1732

Study on Model Reference Adaptive Control Scheme to Accommodate Flight Disturbances in Micro Aerial Robots

Anand Ronald Kumutham

Paper ID: 1834

Integral Backstepping Controller for Post Prandial Glucose Management in Artificial Pancreas for Type I Diabetes

Shubhrajyoti Moitra

2F. Education Technologies-II

Session Date and Time: 23/08/2024

03:00 PM - 04:30 PM

Session Chair/Co-Chair: Vasundhara Singh (PEC Chandigarh)/Sheetal Lalotra (PEC Chandigarh)

Invited Talk: Role of Learner Centric MOOCS in Engineering Education, *Ritula Thakur, NITTTR, Chandigarh*

Invited Talk: Challenges of Integration of Renewals Energy Resources to the Grid, *Prof. B. Das, IIT Roorkee*

Paper ID: 1608

Blockchain-Based Trademark Verification System

Saket Kiran Nagdive, Priya M Shelke and Shubham Bhagat

Paper ID: 1898

An Improved Approach for the Prediction of Parkinson Disease

Ritika Rattan, Pardeep Garg and Pankaj Dhiman

Paper ID: 2001

Rethinking Higher Educational Practices in the Age of Artificial Intelligence

Gitanjali Chhabra, Noosha Mehdian and Prihana Vasishta

Paper ID: 1246

Abstraction of Usecase from Activity diagram

Srinivas CK, **Pani Rama Prasad**, Venkata S Edara and RN Kulkarni

2G. Power Electronics System Control

Session Date and Time: 23/08/2024

04:45 PM - 06:00 PM

Session Chair/Co-Chair: Bhavesh Kumar Bhalja (IIT Roorkee)/Puneet Chawla (PEC Chandigarh)

Invited Talk: Phase Change Materials in Renewable Energy Systems, *Ashwani Kumar, NIT Kurukshetra*

Invited Talk: Emerging Grid Codes and Cost of Integration of Renewables in Grid, *C.C Reddy, IIT Ropar*

Paper ID: 1568 Advanced Control of Power Converters for Enhanced Performance and Stability of Solar Photovoltaic Systems: A Review Ankit Srivastava, Dashrath Nishad, Prashant Pandey, Rinki Maurya, Surya Prakash, Ashutosh Singh
Paper ID: 2142 Management of Electric Energy through Demand-Side Resources Saurabh Ratra and Ajay Kumar
Paper ID: 1967 Experimental Challenges in MTPA Control of Indigenous IPMSM and its Solutions Prakhar Jain and Himanshu Misra
Paper ID: 1942 On Board Analysis and Evaluation of Battery EIS Data For Second Life Application Archit Khurana, Sneha Dattatreya and Gaurav Chatterjee

2H. Special Session: Emerging Grid Codes and Cost of Integration of Renewables in Grid	
Session Date and Time: 24/08/2024	09:00 AM - 10:30 AM
Session Chair/Co-Chair: Rintu Khanna (PEC Chandigarh)/Manohar Singh (PEC Chandigarh)	
Keynote/Invited Talks	
Ravi Segal, Energix	
Rajbir Walia, PSTCL	
Sukhwinder Abrol, CREST	
Sanjay Sharma, JKPDD	
Vishal Tomar, BIS	
KS Mann, MAC Power, UK	

2I. Intelligent Control Techniques	
Session Date and Time: 24/08/2024	12:00 PM - 01:30 PM
Session Chair/Co-Chair: Balwinder Singh Surjan (PEC Chandigarh) & Saurabh Ratra (PAU, Ludhiana)	
Invited Talk: Alternative Transportation “The Future Ahead”, Arun K. Verma, IIT Jammu	
Paper ID: 2029 Exploring Spectral and Non-linear Characteristics of Neural Dynamics during Cognitive Loading Sambit Saha, Nilotpal Das and Monisha Chakraborty	
Paper ID: 2069 Singular Value Decomposition-Based Reduced Order Framework of Frequency Weighted Continuous-time Systems Vineet Sharma and Deepak Kumar	
Paper ID: 1487 Cyber Security in Power Networks – At the Crossover Domain Intersection Hillol Biswas	
Paper ID: 1651 A Proposed PWM Technique to Reduce Circulating Current in Two Parallel Interleaved Two-Level VSIs Monalika and Kapil Shukla	

2J. Communication Systems- II	
Session Date and Time: 24/08/2024	2:30 PM – 04:00 PM
Session Chair/Co-Chair: Chimoy Saha (IIST Trivandrum)/Divya Dhawan (PEC Chandigarh)	
Invited Talk: Millimeter Wave Radar Signal Processing, <i>Seshan Srirangarajan, IIT Delhi</i>	
Invited Talk: Specialized Beam Scanning Antenna Arrays cum Subsystems and IoT based Smart EM Sensing Systems for upcoming 5G/B5G/6G Applications, <i>Anirban Sarkar, IIT Mandi</i>	
Paper ID: 1563 Milk Quality Analysis Based on Fat and SNF Content for Enhanced Dairy Product Suitability Deblina Das, Neha Bagga, Manraj Singh	
Paper ID: 2090 AGILE-DRONE: Autonomous GPS-Enabled Delivery with Integrated Android Interface and Radio Telemetry Shweta Derrick Malekar, Ramprasad Kanailal Ghosh, Prathamesh Upadhye	
Paper ID: 1933 Railway Ticket Scanner using Optical Character Recognition (OCR) and QR Code Generation for Waiting List Ticket allotment Anand Vijay Sutar, Kantilal Rane, Sahil Sanjay Jadhav, Tejas Shankar Kamble, Aniket Kisan Karale, Yash Mahesh Katkar	
Paper ID: 1144 Performance Analysis of Adaptive Underlay/Overlay Full-Duplex Cooperative Communication in Cognitive Radio Network Jayanta Kumar Bag	

3A. Advancements in AI and ML Applications -I	
Session Date and Time: 22/08/2024	11:30 AM - 1:00 PM
Session Chair/Co-Chair: Mukesh Kumar (UIET,PU Chandigarh)/Poonam Saini (PEC Chandigarh)	
Keynote Talk: Choice Computing: Unfolding Humanised AI, <i>Parag Kulkarni, Tokyo International University, Japan</i>	
Paper ID: 386 Ear Recognition Advancements and Trends: A Scientmetric and Systematic Review Parul Chutani, Nitin Sharma	
Paper ID: 1055 Optimizing Data Efficient Image Transformers using K-fold Cross Validation for Passive Digital Image Splicing Forensics Chithra Raj, Maitreyee Dutta, Jagriti Saini	
Paper ID: 1274 A Diligent Fine-tuned MobileNetV2 Model for Pistachio Seeds Classification Shagun Sharma, Kalpna Guleria	
Paper ID: 1786 Enhancing Financial Market Analysis Bitcoin vs Gold through Machine Learning Algorithms: A Study on Risk Assessment and Portfolio Management Richa Golash	

3B. Advanced AI Techniques in Modern Networks	
Session Date and Time: 22/08/2024	02:00 PM – 03:30 PM
Session Chair/Co-Chair: Rama Krishna Challa (NITTTR Chandigarh)/Alka Jinal (PEC Chandigarh)	
Keynote: TBD, <i>H K Sardana, IIIT Raichur</i>	

Paper ID: 1810 Software Defined Network Based Error Correction Mechanism in Quantum Key Distribution Rasha Shajahan, Kurunandan Jain, Aneesh Kumar K B, Prabhakar Krishnan
Paper ID: 1984 Harnessing the Swarm Trio: PSO, ACO, and TSO for Efficient Cloud Task Scheduling Isha Sharma, Ruchika Gupta, Pardeep Singh
Paper ID: 1753 Workload Prediction Model to Enhance the Performance of Cloud Data Centers Using Machine Learning Sujay Bansal, Mohit Kumar, Guneet Kaur Walia
Paper ID: 843 Probabilistic Free Riding Attack in Federated Learning Anee Sharma, Ningrinla Marchang

3C. Communication Systems- I	
Session Date and Time: 22/08/2024 Session Chair/Co-Chair: A. Q. Ansari (JMI New Delhi)/Balwinder Raj (PEC Chandigarh)	3:45 PM – 05:15 PM
Keynote Talk: Sub-MHz Spectral Dip in a Resonator-free Nonlinear Medium with Elliptical Birefringence, <i>Li Qian, University of Toronto, Canada</i>	
Paper ID: 1831 An Effective PLSR Based Model for Soil Moisture Monitoring: An Application for Smart Gardening Parthasarathi Nayak, Monalisa Swain	
Paper ID: 246 Reinforcement Learning-based Optimized UAV Selection for UAV-to-UAV Communication Divyanshu Bhardwaj, Angel Kanjiya, Nilesh Kumar Jadav, Sudeep Tanwar, Deepak Garg	
Paper ID: 2064 Dual-band MIMO array for 5G wireless networks Poonam Koundal	
Paper ID: 1877 Universal Software Defined Radio: Advancing Electromagnetic Spectrum Operations for Enhanced Interoperability Mohit Judge	

3D. Advanced Techniques in Cybersecurity	
Session Date and Time: 23/08/2024 Session Chair/Co-Chair: Savita Gupta (UIET, PU Chandigarh)/Shilpa (PEC Chandigarh)	8:45 AM - 10:15 AM
Invited Talk: Biometric Systems: Challenges and Research Directions, <i>Gurjeet Walia, SAG DRDO, Delhi</i>	
Paper ID: 2080 Android Malware Detection Using Graphical Technique Monish Kumar Sahu, Rahul Gupta	
Paper ID: 639 Mitigating IoT Security Risks Enhanced Ransomware Attack Classification Vaibhav Kumar, Kuldeep Singh Jadon, Nitin Gupta	
Paper ID: 1978 Deep Learning Based Approach for Detection of Resource Depletion Attacks in 5G Networks Sri Shiva M V Shourya Sharma, Tilak Malepati, Sriram Sankaran	

Paper ID: 1843 Comparative Analysis of Transformer-Based Models in Malware Detection: Evaluating BERT, DistilBERT, ELECTRA, and RoBERTa Abden Antony Fernandez, Adithya Arangi, Vimina E R
Paper ID: 1828 FRE-Net: Fuzzy Rank Ensemble Network for Enhanced Breast Cancer Detection with Attention-Boosting Technique Barsha Abhisheka, Soumen Das

3E. Innovations in Data Analysis and Protection

Session Date and Time: 23/08/2024 Session Chair/Co-Chair: Sarbjeet Singh (UIET, PU Chandigarh)/Rupali Verma (PEC Chandigarh)	12:45 PM - 2:15 PM
Invited Talk: Edge Computing: A Paradigm for Processing Latency Sensitive Applications, <i>Nitin Auluck, IIT Ropar</i>	
Paper ID: 300 Combating Fake News Utilizing Content-Based Word Embedding and Language Features Mayank Kumar Jain, Dinesh Gopalani, Yogesh Kumar Meena	
Paper ID: 2023 Revolutionizing Sentiment Analysis: Accelerated Data Science Approaches for Reddit Submissions Shiya Mer, Shatakshi Saxena, Arun Singh Pundir	
Paper ID: 1992 Enhancing Privacy and Utility in Big Data Publishing through Attribute Selection Optimization Vaishali Chauhan, Ruchika Gupta	
Paper ID: 1041 Two Step Federated Learning Approach in Brain Stroke Identification and Classification via Fine-tuning EfficientNetB0 Network at Edge nodes Sapthak Mohajon Turjya, Raj Singh, Pritam Sarkar, Suchismita Rout, Sujata Swain, Anjan Bandyopadhyay	
Paper ID: 1127 A Review on Blockchain-Based Paradigm for the Management of Digital Assets in Healthcare Kajal Jain, Sanjeev Rana	

3F. Women in Engineering

Session Date and Time: 23/08/2024 Session Chair/Co-Chair: Lini Mathew (NITTTR Chandigarh)/Aparna Akula (CSIR-CSIO Chandigarh)	3:00 PM – 04:30 PM
Invited Talk: Optimization of Solar PV array for Maximum Output Power under Different Partial Shading Conditions for e-mobility, <i>Prerna Gaur, NSUT, New Delhi</i>	
Paper ID: 1802 Analysing Mobility Patterns: A Comparative Study of SUMO RandomTrips and Duarouter Deepika M S	
Paper ID: 1846 A WebApp Framework for the Prediction of e-GFR Value and CKD Stage using Regression-based Machine Learning Algorithms Gayathri Hegde, Priyanka Marellavar, Sunil Kumar G, P Deepa Shenoy, Venugopal K R, Arvind Canchi	
Paper ID: 1899 An Eco-friendly Web Platform for Transactions Ramanpreet Kaur, Jaskirat kaur, Gurmeet Kaur, Ritika Bhatia, Simarpreet Kaur, Piyush Kumar	

Paper ID: 1046

Enhancing Long-Distance Optical Communication: The Superiority of L-Band over C-Band in Soliton-Based WDM Systems

Paramjit Kaur, Divya Dhawan, Neena Gupta

3G. AI Techniques for Healthcare

Session Date and Time: 23/08/2024

4:45 PM - 6:00 PM

Session Chair/Co-Chair: Naveen Aggarwal (UIET,PU Chandigarh)/Sudesh Rani (PEC Chandigarh)

Invited Talk: Advanced Voice Analysis in Disordered Populations: Methods and Applications, *N Banumathy, PGIMER Chandigarh*

Paper ID: 1824

Optimized PM 2.5 Forecasting Using PSO - BiLSTM Model for Air Quality Prediction and Health Risk Assessment

Gaurav Pandey, Rajneesh Sharma, Tushar Mr. Shikhol

Paper ID: 1835

Development of Intelligent Healthcare Monitoring System using Machine Learning Model

Tanima Bhowmik, Debajyoti Mitra, **Pratyusha Chatterjee**, Shreyan Kundu, Nirban Roy

Paper ID: 1912

MedHAI: Improved Framework for Medical Diagnosis using Human Experts

Gunika, A L Sangal

Paper ID: 1925

Ensemble of CNN based Deep Learning Model for the Recognition of Skin Cancer Images

Sandhya Sharma, Shaminder Kaur, Navneet Kaur

3H. Advancements in AI and ML Applications-II

Session Date and Time: 24/08/2024

9:00 AM - 10:30 AM

Session Chair/Co-Chair: Sanjeev Sofat (PEC Chandigarh)/Manish Kumar (PEC Chandigarh)

Invited Talk: Earthquake Early Warning System- Computational Techniques, Challenges and Opportunities, *Satish Kumar, CSIR-CSIO Chandigarh*

Paper ID: 1981

Advanced Machine Learning Prediction of Cognition Functions

Shobhika Madhu, Prashant Kumar, Sushil Chandra

Paper ID: 2097

A Comparative Study of YOLO-V5 Variants Performance for Object Detection in Thermal Infrared Images

Manjeet Singh, Aparna Akula

Paper ID: 2095

Portfolio Optimization using Deep Reinforcement Learning

Adrika Tamuly, **Gariman Bhutani**, Sukriti Sukriti

Paper ID: 2106

Blockchain-Enabled Distributed Payment Card Tokenization System

Debendranath Das, Atosi Das

3I. Special Session: AI in Industry	
Session Date and Time: 24/08/2024	12:00 PM - 01:30 PM
<i>Keynote/Invited Talks</i>	
Session Chair/Co-Chair: Padmavati (PEC Chandigarh)/Amandeep Kaur (PEC Chandigarh)	
Recent Trends in Artificial Intelligence Sudhir Dhamija, DGRE Chandigarh	
Advancements in Information Security Anil Yadav, Samsung, Noida	
Leveraging Generative AI for creating marketing emails Pallavi, Wipro Limited	
Engineering in the era of AI Vikram, Antier Pvt. Ltd	

3J. Quantum Computing and Applications	
Session Date and Time: 24/08/2024	2:30 PM – 4:00 PM
Session Chair/Co-Chair: Ananth Venkatesan (IISER Mohali)/Varun Gupta (CCET, Chandigarh)	
Invited Talk: Neuromorphic Computing for Low Power Applications, <i>Jawar Singh, IIT Patna</i>	
Paper ID: 1794 Quantum Deep Reinforcement Approach for Virtual Resource Allocation Sreenivasa Chakravarthi Sangapu, Ajairaj V , Sountharajan S	
Paper ID: 1939 Exploring 3-Qubit Quantum Entanglement: An Empirical Analysis with the Qiskit Framework Manisha Prajapat , Kamal Kishor Choure, Gausia Qazi, Simranjit Singh, Ghanshyam Singh	
Paper ID: 1956 FPGA-based Toeplitz Strong Extractor for Quantum Random Number Generators Shubham Chouhan , Anurag K S V, Raghavan G, Kanaka Raju P.	
Paper ID: 1807 Quantum Secure Key Management & Delivery Protocol in the QKD framework Manjiri S Harmalkar , Kurunandan Jain, Aneesh Kumar K B, Prabhakar Krishnan	

4A. Technical Session	
Session Date and Time: 23/08/2024	5:15 PM - 07:00 PM
Session Chair/Co-Chair: Kanu Goel (PEC Chandigarh)/Avinash Maurya (PEC, Chandigarh)	
Paper ID: 1847 Common Myths and Misconceptions Regarding Communication Systems Subhendu Batabyal , Praful Mankar	
Paper ID: 775 Accessing the Performance of K-Medoid, K-Means and FCM Clustering Techniques for Wireless Sensor Networks Thiyagarajan N , Shanmugasundaram N	

Paper ID: 2008 Variable Step-size LMS Type Adaptive Algorithm for Power Quality Enhancement using DSTATCOM Saurav Kumar, Sudhansu Kumar Mishra, and Sarode Shiva Kumar
Paper ID: 1616 Evaluation of Computation Overhead of Paillier Encryption in Vertical Federated Learning Abhinand P, Tomsy Paul, Santhosh Kumar Gopalan
Paper ID: 661 Unleashing the Potential of Data Science Driven Society 5.0: Applications and Implications Supriya Mishra, Kumar Saurabh
Paper ID: 1678 Empowering Mobility: A Smart Wheelchair Integrated with Health Monitoring System Someshwar Ware, Yogita Kolge, Eshin Somkuwar and Marwana Sayed
Paper ID: 1844 Wireless Control of 4 D.O.F. Robotic Arm using EMG Muscle Sensors Dinesh Patil, Shilpa Sondkar, Meet Nathwani, Shivanand Nemane ,Mohit Patil

Poster Session - I Date and Time: 22/08/2024	05:15 PM - 06:15 PM
Paper ID: 1908 Malicious Program Detection using Distinct Textural Features and Fine-tuned InceptionV3 Model Sanjeev Kumar, Yudhishthira Sapru, Navdeep Singh Chahal	
Paper ID: 1006 Techno-economic Assessment of MW Scale AC and DC Microgrids Ravi Segal and Priyanka Kushwaha	
Paper ID: 1784 Investigation of DC & RF/Analog Performance of AlGaIn/AlN/GaN MOSHEMT for Different Back Barrier Atya Narayan Mishra, Abdul Naim Khan, Kanjalochan Jena	
Paper ID: 1703 Efficient RTL to GDS II Flow for Finite State Machine Integration: A Physical Design Approach Amit Shohal, Jasbir Kaur	
Paper ID: 1584 Simulation and Fabrication of PDMS-based Microfluidic Device Sub-system to Carry out Water Disinfection using Ag Nanoparticles Kavita A Mukate, Haritha KP, Rucha R Lambate, Sunil Chandel , Tejashree Bhav	
Paper ID: 2024 YOLOv8 Based Detection of Fall Armyworm in Field Crops Prit N Mhala	
Paper ID: 470 Heating and Cooling of The Power MOSFET for The Static Converter Tapas Halder	
Paper ID: 827 Economic Load Dispatch in Microgrid Using Whale Optimization Algorithm Himanshu Raj and Supriya Jaiswal	
Paper ID: 1161 A Quick Overview of Recent Developments in Image Restoration using Machine learning Neelam Kumari, Isha Kansal and Preeti Sharma	
Paper ID: 857 Finite-time Frequency Control of an Islanded Microgrid System	

Jyotika Agarwal, Aniket Karan Chaudhary , Dipayan Guha, Richa Negi and Roshni Mait
Paper ID: 1012 IoT-Assisted Gesture-to-Audio Conversion System for Enhancing Accessibility in Speech-Impaired Users Meena kashyap
Paper ID: 693 Analysis of Electric Vehicle Battery Charging-Time Involving its Second-Order RC Equivalent Model Hemwati Nandan , Sanjay Gairola and Manoj Kumar Panda
Paper ID: 1136 Predicting Common Body Measurements to Check on Unhealthiness using Machine Learning Algorithms and Interpretation using Explainable AI Trupathi Rao , Ashwini K Ashwini
Paper ID: 967 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 Jitendra and Triloki Pant
Paper ID: 2013 Having a Smartphone and Being Enrolled in a Higher Education Institution does not make Students Digitally Literate! Gayathri Pothancheri , AkshayRaj K P and Shashi Kant Shankar
Paper ID: 1845 A Multimodal Biometric Based on Audio and Visio Trait: A Review Amit Verma , Shagoofi Anjum, Anand Sharma, Monika Gupta, Mohammad Ishrat
Paper ID: 1536 Digital Emotions using Sentiment Analysis for Predictive Insights on Customer Recommendations Harish Kundra
Paper ID: 136 Analysing Perception of Credibility of a Message in Online Social Network using SmartPLS Akshata S Bhayyar, Kiran P

Poster Session – II Date and Time: 23/08/2024	6:00 PM – 07:00 PM
Paper ID: 2020 Cyclone Intensity Estimation Using INSAT-3D IR Imagery Aruljothi A, Vasanthi D, Sivasakthi Thanigainathan, Keerthivasan H	
Paper ID: 289 Employing Machine Learning based Majority Voting Classifier for Explicit Content Detection in Music Prathmesh Ramakant Ghatol, Yash Shah , Rucha Gavaskar, Monika Mangla, and Richa Sharma	
Paper ID: 376 Speech Emotion Recognition System based on Auto Encoder Rohit katyal , Neeshu Sharma	
Paper ID: 377 LearnSync: Navigating Learning Opportunities Anushka A Pote, Ashish Manoj , Ruke, Suvarna Patil, Reena Shrikant Sahane	
Paper ID: 427 Sentiment Classification Using Deep Learning for Mental Health Discussions on Social Media Hirak Mazumdar, Raghul S , Vivek Reddy Yasa, JS Mohammed Hafeez	
Paper ID: 1135 Prediction of Concrete Compressive Strength using various Regression models and XAI Ashwini K Ashwini	

Paper ID: 1344 Obesity and CVD risk Analysis using Machine Learning Classification Algorithms and Explainable AI Ashwini K Ashwini
Paper ID: 1882 Privacy-Preserved Stress Detection from Wearables using Federated Learning Lekha C Warriar, Ragesh G K, Ramsamarth Bb, Kishan Gurumurthy
Paper ID: 2045 Unveiling Earthquake Dynamics: A Comprehensive Data Analytics and LSTM-Based Prediction Model for Enhanced Seismic Forecasting Shatakshi Saxena, Arun Singh Pundir, Shiya Mer
Paper ID: 2119 Enhancing Visibility: A Novel Approach for Dehazing Aerial Images with MixDehazeNet Shatakshi Saxena, Arun Singh Pundir, Shiya Mer
Paper ID: 1836 Exploring Creative Fusion: Stable Diffusion and Large Language Models for Innovative Content Generation Nischith T N, Asha Rani Borah, Vandana C P, Saksham Gupta, Bharath B
Paper ID: 1190 Big Data Analytics in Cloud Computing Environments: Issues and Future Research Trends Muskan Shaikh, Malaram Kumhar, Jitendra B Bhatia, Sudeep Tanwar, Madhuri Bhavsar
Paper ID: 1396 Lightweight Generative Adversarial Network (LGAN) Architectures for Resource-Constrained Hardware Applications Abhishek Yadav, Baruri Sai Avinash, Binod Kumar
Paper ID: 1209 A Comprehensive Cybersecurity Resilience Framework Augmenting Smart Grid Stability Aditya Rastogi, Anubhav Agrawal, Ranbir Singh, Ananya Aggarwal
Paper ID: 1257 Exploring Robust DDoS Detection: A Machine Learning Analysis with the CICDDoS2019 Dataset Susama Bagchi, Kamal Saluja, Vikas Solanki, Muhammad Numan Ali Khan, Esha Dhamija, Sanjoy Kumar Debnath
Paper ID: 1979 FDTD Design and Modelling of Ag/Au Nanoparticles for Field Enhancement Manish Jangid
Paper ID: 2022 Star-Shaped Patch Antenna for THz Applications Mandeep Singh, Simranjit Singh
Paper ID: 2058 Efficient Management of Tasks in Road Traffic for Infrastructure Wellness through the Utilization of Piezoelectric Transducers Aditya K Shaw, Sudipta Talukder, Anudipan Pal, Anindya Sen
Paper ID: 1851 Analyzing Adaptive Filters for the Separation of Fetal Electrocardiogram in Non-Invasive Monitoring: A Comparative Approach Aravindh J and Sunish S
Paper ID: 860 Synergistic Integration of Power System Protection and Electrical Machine Operation Paradigms: A Comprehensive Framework Study Raghul S J, Vanaja I, Rajini V, Tamilselvi s and Dinesh Babu Nagalingam