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 Invited Talk (Rashpal Kaur, TBRL DRDO) Oral Presentations (4) (Paper ID: 386, 1055, 1274, 1786, 1616)
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, Nottigham Trent University) Oral Presentations (4) (Paper ID: 426, 1374, 1850, 1907)	Technical Session-3B Advanced Al 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 Propogation-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 - (136, 1908, 1006, 1784, 1703, 1584, 2024, 470, 827, 116:		Technical Session-4A Oral Presentations (7) (Paper ID: 661, 775 , 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 Lobiyal, 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 Protectio 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 Al Techniques for Healthcare Invited Talk (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 Chandigah) (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) 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 Numbers	
	Plenary Session-I	09:30 AM - 11:00 AM
	1A. Sensors and Actuators-I	11:30 AM – 01:00 PM
Anjuman Hall (Ground Floor)	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
	2A. Soft Computing Techniques in Power System	11:30 PM - 01:00 PM
	1B. MOS Devices and Applications	02:00 PM - 03:30 PM
Adab Arj (Ground Floor)	1C. Antenna and Wave Propagation-I	03:45 PM - 05:15 PM
	Poster Session - I	05:15 PM – 06:15 PM
	3A. Advancements in AI and ML	11:30 AM – 01:00 PM
Board Room (3 rd Floor)	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 Numbers	
	1D. Wireless Sensor Networks	08:45 AM – 10:15 AM
	Inauguration Session	10:15 AM – 11:30 AM
Anjuman Hall (Ground Floor)	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
	2D. Power Electronics and Drives	08:45 AM - 10:15 AM
	2E. Advancements in Signal Processing	12:45 PM - 02:15 PM
Adab Arj (Ground Floor)	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
	3D. Advanced Techniques in Cybersecurity	08:45 AM – 10:15 AM
	3E. Innovations in Data Analysis and Protection	12:45 PM – 02:15 PM
Board Room (3 rd Floor)	3F. Women in Engineering	03:00 PM - 04:30 PM
	3G. Al Techniques for Healthcare	04:45 PM – 06:00 PM

Day 3: 24.08.2024 (Saturday)		
Room	Session Numbers	
	1H. Sensors and Actuators-II	09:00 AM – 10:30 AM
	Plenary Session- III	11:00 AM – 12:00 PM
Anjuman Hall (Ground Floor)	11. 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
	2H. Special Session: Emerging Grid Codes and Cost of	09:00 AM - 10:30 AM
	Integration of Renewables in Grid	
Adab Arj (Ground Floor)	21. Intelligent Control Techniques	12:00 PM - 01:30 PM
	2J. Communication Systems- II	02:30 PM - 04:00 PM
	3H. Advancements in AI and ML Applications-II	09:00 AM - 10:30 AM
Board Room (3 rd Floor)	31. 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: Shiban 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 Semimetalic 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 AlGaN/GaN/InGaN/GaN 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 Propogation-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, Gourav Prateek

Sharma, KTH Sweden

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, D. K Lobiyal, JNU Delhi

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

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, *Debabrata Das, IIIT Bangalore*

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, G. Shrikanth Reddy, IIT

Mandi

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, *Saptarshi Das, Penn State University, USA*

Keynote Talk: (TBD), Gian Carlo Cardarilli, Tor Vergata University of Rome, Italy

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

09:00 AM - 10:30 AM

Session Chair/Co-Chair: Sanjeev Kumar (PEC Chandigarh)/Pooja Devi (CSIR-CSIO Chandigarh)

Invited Talk: Planar Electronic Nanodevices and Their Applications, Shahrir R Kasjoo, Universiti Malaysia Perlis

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 Bhave

Paper ID: 2021

Dual mode Photothermal/Photodynamic transduction studies using Multifunctional nanosystem for Biomedical

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

11. Special Session on MHz to THz Frequency Systems

Session Date and Time: 24/08/2024

12:00 PM - 01:30 PM

Session Chair/Co-Chair: Goutam Chattopadhyay (JPL NASA)/Gourab Das (PEC Chandigarh)

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: Al and IoT - Applications and Perils, Bob Gill, British Columbia Institute of Technology, Canada

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, *B.K Panigrahi, IIT Delhi*

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), *Vahid Vahidinasab, Nottingham Trent University*

Invited Talk: Advanced Measurement and Instrumentation for Sustainable Energy System Challenges, *Ranjana Sodhi, IIT Ropar*

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

03:45 PM - 05:15 PM

Session Chair/Co-Chair: Anju Singla (PEC Chandigarh)/Nidhi Tanwar (PEC Chandigarh)

Invited Talk: ICT/AI Tools for Teaching Learning and Research, Maitreyee Dutta, NITTTR, Chandigarh

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

8:45 AM - 10:15 AM

Session Chair/Co-Chair: Tilak Thakur (PEC Chandigarh)/Puneet Kaur (UIET, PU Chandigarh)

Keynote Talk: Reinforcement Learning Algorithm Design for Power Management in EV, *Prof. Rajesh Kumar, MNIT Jaipur*

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

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

Gitanjaly 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

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 Dattatrey 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

21. 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, Seshan Srirangarajan, IIT Delhi

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)

Invited Talk: Deep learning for recommender systems, Rashpal Kaur, TBRL DRDO

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

Paper ID: 1616

Evaluation of Computation Overhead of Paillier Encryption in Vertical Federated Learning

Abhinand P, Tomsy Paul, Santhosh Kumar Gopalan

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: AI & Interdisciplinary Research, H K Sardana, IIIT Raichur

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 3:45 PM – 05:15 PM

Session Chair/Co-Chair: A. Q. Ansari (JMI New Delhi)/Balwinder Raj (PEC Chandigarh)

Keynote Talk: Sub-MHz Spectral Dip in a Resonator-free Nonlinear Medium with Elliptical Birefringence, Li Qian,

University of Toronto, Canada

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 8:45 AM - 10:15 AM

Session Chair/Co-Chair: Savita Gupta (UIET, PU Chandigarh)/Shilpa (PEC Chandigarh)

Invited Talk: Biometric Systems: Challenges and Research Directions, Gurjeet Walia, SAG DRDO, Delhi

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

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

12:45 PM - 2:15 PM

Session Chair/Co-Chair: Sarbjeet Singh (UIET, PU Chandigarh)/Rupali Verma (PEC Chandigarh)

Invited Talk: Edge Computing: A Paradigm for Processing Latency Sensitive Applications, Nitin Auluck, IIT Ropar

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

3:00 PM - 04:30 PM

Session Chair/Co-Chair: Lini Mathew (NITTTR Chandigarh)/Aparna Akula (CSIR-CSIO Chandigarh)

Invited Talk: Optimization of Solar PV array for Maximum Output Power under Different Partial Shading Conditions for e-mobility, *Prerna Gaur, NSUT, New Delhi*

Paper ID: 1802

Analysing Mobility Patterns: A Comparative Study of SUMO RandomTrips and Duarouter

Deepika MS

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

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, *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. Shikhola

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 Leaning 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

31. Special Session: AI in Industry

Session Date and Time: 24/08/2024 12:00 PM - 01:30 PM

Keynote/Invited Talks

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)/ Kanu Goel (PEC Chandigarh)

Invited Talk: Neuromorphic Computing for Low Power Applications, Jawar Singh, IIT Patna

Paper ID: 1794

Quantum Deep Reinforcement Approach for Virtual Resource Allocation

Sreenivasa Chakravarthi Sangapu, Ajairaj V, Sountharrajan 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: 22/08/2024 5:15 PM - 07:00 PM

Session Chair/Co-Chair: Varun Gupta (CCET, 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

Variable Step-size LMS Type Adaptive Algorithm for Power Quality Enhancement using DSTATCOM

Saurav Kumar, Sudhansu Kumar Mishra, and Sarode Shiva Kumar

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 AlGaN/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 Bhave

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

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 Al

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

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 Warrier, 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

Aravinth 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