2023 9th INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING AND COMMUNICATION

Session plan (21-23 Dec 2023) Hybrid Mode

	Day 1: Thursday, Dec 21, 2023	
09:30 - 11:05 A.M.	**Inauguration** (Venue: Auditorium) (OFFLINE) Online link:https://meet.google.com/zdg-vxsu-wit Keynote Talk 1: Prof. Abhay Karandikar, Secretary, Department of Science & Technology, New Delhi	
11:05 - 12:00 P.M.	**HIGH TEA**	
12:00-12:45 P.M.	**Keynote Talk 2: Dr. Amit Sachan** **Vice President and Head of Media Intelligence with Jio,** **(OFFLINE) Venue:LT4**	
12:45-1:30 P.M.	**Keynote Talk 3: Prof. Satish K. Sharma** **Director of the Antenna and Microwave Laboratory (AML)San Diego State University** **(OFFLINE) Venue:LT4**	
01:30-2:00 P.M.	**LUNCH**	
2:00-3:30 P.M.	**Technical Session 1 (OFFLINE)**	
	Session-CO1.1: Wireless Communication Systems - I Venue:LT4	
	Session Chair:Prof. Satyanand	
	Session Rapporteur: Dr. Joysmita Chatterjee, Session Incharge: Dr. Madhu Jain	
	CO1.1.1570954388	**Deep Learning enabled Dual-hop NOMA relaying system**
		Shweta Mittal, Pankaj K. Yadav and Vivek K. Dwivedi
	CO1.1.1570965995	**Design of SIW based Hexagonal Patch Filtering Antenna for n-77 and n-78 Applications**
		Ravi Prakash Verma, Ashish Gupta, Bhagirath Sahu
	CO1.1.1570960592	**Development of Acoustic Scene Classification Model using Neural Networks Applied on Reduced Dataset of DCASE**
		Vikash Kumar Singh, Kalpana Sharma, Samarendra Nath Sur

	CO1.1.1570960603	**Analyzing Social Media texts for Suicidal Risk Identification using Natural Language Processing**
		Shanskar Rai, Sumiran Bhattarai, Premjyoti Dhar, BirajUpadhyaya,Kalpana Sharma and Sandeep Gurung
	CO1.1.1570966257	**A Blockchain Application for Secure Collaboration**
		Akash Kumar , P. Raghu Vamsi,, Yashi Agarwal and Siddhant Jain
	CO1.1.1570962103	**Performance Analysis of UAV Communication System in the Vicinity of Multiple Interferers**
		Abhijeet Upadhya, Anu Goel
	Session-VO1.1: VLSI TECHNOLOGY & CIRCUITS-I Venue:LT5	
	Session Chair: Prof. Arti Noor	
	Session Rapporteur: Dr. Rishibrind Upadhyay, Session Incharge: Dr.Pankaj Kumar Yadav	
	VO1.1.1570962398	**Electrical Noise Analysis of Polarity Gate JLTFET**
		Priyanka Kwatra, SajaiVir Singh, Kaushal Nigam
	VO1.1.1570965303	**Design and Performance Assessment of a Si/GaSb-PC-TFET for Label-Free Bio-Sensing Applications**
		Mukesh Kumar Bind, SajaiVir Singh, Kaushal Kumar Nigam
	VO1.1.1570964161	**An ECG Signal Compression Technique based on DCT and Evolutionary Algorithms**
		Paridhi Singhai, Hardev Singh Pal, A Kumar and Kuldeep Baderia
	VO1.1.1570959858	**Deep transfer learning for Tomato Leaf disease detection and classification using the pre-trained model**
		Ashish Mishra, Ashutosh Mishra, AKTiwari , Jayesh Gangrade
	VO1.1.1570951541	**Effect of Air Pollution on OFDM based RoFSO Transmission for different dust conditions**
		Ankur Sood, Rahul Kaushik
3:30- 3:45 P.M.	**TEA**	
3:45-5:30 P.M.	**Technical Session 2 (Online)**	
	Session-C1.1: Communication Systems-I	
	Session Chair: Prof. Bhaskar Gupta	
	Session Rapporteur: Dr. Shivani, Session Incharge: Dr.Nitin Muchhal	

	C1.1.1570965666	**An IoT-Based On-Cloud Accident Detection and Reverse Geocoding Equipped Reporting System**
		Debapriyo Paul, Anirban Pal, Raja Karmakar
	C1.1.1570958785	**A Compact Wideband Circularly Polarized Planar Monopole Antenna for Wireless and X-Band Applications**
		Rajavel V, PotnuruSravya, Arpan Saha and Dibyendu Ghoshal
	C1.1.1570959133	**A Miniaturized Multiband Coplanar Waveguide Fed Frequency Reconfigurable Antenna for 5G Sub 6GHz and UWB Applications**
		Rajavel V, Dibyendu Ghoshal, VoonnaCharan Kumar, Souramita Debnath, VellankiAvinash Venkat and Abhinav Pratap Singh
	C1.1.1570966719	**A novel pattern for searching Motion Vector in interframe coding**
		Rahul Bhandari, Hemant Kumar Saini and Sanjay Singla
	C1.1.1570965817	**Orbital Angular Momentum Beam Antenna Systems for Wireless Communications - A Brief Review**
		Aakash Bansal, William Whittow
	C1.1.1570964984	**A Trust-based Framework for the Detection and Avoidance of Blackhole Nodes in Opportunistic Networks**
		Protyasha Kundu, SwarnadeepSaha, SmritikonaBarai, and Anindita Kundu
	C1.1.1570955694	**Design of Slotted Microstrip Antenna Using Regression Based Approach**
		Karanam Venkata Sai, Nallagatla Bhanu Prakash, Inti Kavya,A Sudhakar
	Session-S1.1: Signal Processing	
	Session Chair: Prof. Nidhi Goel	
	Session Rapporteur: Mrs. Madhu Jharia, Session Incharge: Mrs. Smriti Bhatnagar	
	S1.1.1570959857	**Assessment of Different Approaches used for Image Enhancement in Underwater Scenarios**
		Vidhi and Rajesh Rohilla
	S1.1.1570958216	**Case Study of Image Feature Extraction using Conventional and Deep Learning Methods: Autoencoder and U-Net**

		Usha Rawat, Chandra Shekhar Rai
S1.1.1570958045	**Convolutional Neural Network Architectures for Modulation Scheme Classification in RF Signals within Cognitive Radio Systems**	
	Pasan Maduranga, Hewa Kottage IsuruShanakaLakmal, Valmik Tilwari	
S1.1.1570965594	**ECG Dimensionality Reduction using PCA and Feature Abstraction expending ICA Built with Power Spectral Estimation**	
	Ganga Bhavani B, Satyanand Singh , Sanjay Kumar Suman, Nagaraj Bhat, Sasirekha D, Bharath K R	
S1.1.1570966863	**Sentiment Analysis for Better User Experience in Tourism Chatbot using LSTM and LLM**	
	Ommi Balamurali, A M Abhishek Sai, Moturi Karthikeya ,Sruthy Anand	
S1.1.1570967119	**SZ-RAN: A residual attention network for early detection of Schizophrenia using EEG signals**	
	Sunidhi Singh, Srishti Singh, GeetSahu, Jitendra Jadon, Malay Kishore Dutta	
S1.1.1570965535	**Heart Guardian: A Model For Predicting Cardiovascular Diseases**	
	Nishu Bansal, Deepanshu Garg	
Session-M1.1: Machine Learning for system-I		
Session Chair: Prof. Kaushik Roy		
Session Rapporteur:Dr. Vishal Narain Saxena , Session Incharge:Mrs. Nisha Venkatesh		
M1.1.1570954281	**Real Time Crowd Management for Religious & Sacred Places Using Computer Vision And ESP32 Cameras**	
	Mohammed Mahmood Ali, M.S. Qaseem, Mohd Zeeshan, Abrar Ahmed Quraishi and Ateequr Rahman	
M1.1.1570943167	**An AI Decision system to predict lung nodules through localization from Chest X-ray images**	
	Shiva prasad PrasadKoyyada,Thipendra P Singh	
M1.1.1570959623	**Attention-based Transfer Learning Approach using Spatial Pyramid Pooling for Diagnosis of Polycystic Ovary Syndrome**	
	GeetSahu, Mohan Karnati; Ayush Singh Rajput, Mayank Chaudhary and Ritesh Maurya, Malay Kishore Dutta	
M1.1.1570952826	**CFD Algorithms for Magnesium Based implant System for Smooth Pursuit Eye Movements**	
	Jeyaprabha A; Sameera Fathimal M and Angeline Kirubha;	

		Nithiyanantham KK
	M1.1.1570969320	**Data Analytics Technique of different IP address utilized for Cloud services**
		Arpita Wani and Shahuraj Mohite; Sudhanshu S. Gonge; Rahul Joshi, Deepali R Vora; Ketan Kotecha
	M1.1.1570954657	**Deep Learning-Based Epileptic Seizure Classification using Empirical Mode Decomposition Algorithm**
		Durga R, Maansi J, Vijay Niranjan, Jeya Prabha A,SameeraFathimal M and Angeline Kirubha SP
	M1.1.1570965391	**Prediction of Protein Biomarkers for Mycobacterium fortuitum using Machine Learning Techniques**
		Prajjwal Jagwan, Shan Ghai, Rahul Shrivastava, Shruti Jain
		Session-V1.1: Embedded circuit and systems-I
		Session Chair: Dr. Anuradha Pughat
		Session Rapporteur:Mr. Prabhakar Jha , Session Incharge: Mr. B. Suresh
	V1.1.1570928101	**Hardware Software Co-design of k-means Clustering Algorithm**
		Avadh Harkishanka, Amurt Prakash; Nikhil Gupta, Aatib Mohammad, Abhijit Asat
	V1.1.1570936527	**Smart Precision Farming In Substrate Medium - A Practical Analysis**
		Monica Dutta, Deepali Gupta
	V1.1.1570943801	**Low Power Near-Threshold Schmitt-Trigger driven 11T CNTFET SRAM cell with Improved Performance**
		Lokesh Soni, Neeta Pandey
	V1.1.1570954319	**Performance Comparison of CMOS based voltage Reference Circuits in 180nm technology**
		Krishan Kumar, Manoj Kumar,; Mansi Jhamb
	V1.1.1570956446	**Modeling and Analysis of Step-down Switched Capacitor DC-DC Converter for SoC**
		Sunita Saini and Davinder Singh Saini
	V1.1.1570958335	**Investigation of CeO2/rGO Nanocomposites as Diesel Additives to Enhance Engine Performance and Reduce Exhaust Emissions**
		Pankaj Kumar, Jatinder Kumar Ratan and Neetu Divya,KavicharanMummaneni Gopal Rawat
	V1.1.1570945532	**Detection of Epileptic Seizures by Analysis of Electroencephalogram based on Wavelet Transform**
		Sebastian Urbina Fredes, Ali Dehghan Firoozabadi, Pablo Adasme, David Zabala-Blanco, Pablo Palacios Jativa and Cesar A. Azurdia-Meza
6:00- 7:00 P.M.		**Keynote Talk 4: Prof. Santosh K Kurinec, Department of Electrical and Microelectronic Engineering Kate Gleason College of Engineering (ONLINE) Online link:https://meet.google.com/zdg-vxsu-wit**

Day 2: Friday, Dec 22, 2023	
09:00-10:00 A.M.	**Keynote Talk 5: Prof. BrejeshLall,** **Department of Electrical Engineering, Indian Institute of Technology Delhi (OFFLINE)** **Venue:LT4**
10:00-11:15 A.M.	**Technical Session 3 (Offline)**
	Session-SO2.1: Signal Processing for System Analysis-I Venue:LT4
	Session Chair:Prof. Bhagwati Prasad Chamola
	Session Rapporteur:Mrs. Smriti Bhatnagar , Session Incharge: Dr. Archana Pandey
	SO2.1.1570958993 **Multimodal Biometric Authentication Based on Score Level Fusion of Palmprint and Iris**
	Parul Arora, Gopal Chaudhary
	SO2.1.1570958606 **Optical Analysis of TiO2 and MoO3 based Optoelectronic Devices using Solcore**
	Varun Goel, Yogesh Kumar, Hemant Kumar
	SO2.1.1570957898 **EXCCII-Based Precision Trans-Impedance-Mode Full Wave Rectifier**
	ShafaliJagga, Atul Kumar, Bhartendu Chaturvedi, Jitendra Mohan
	SO2.1.1570965305 **Single photon emission possibility in a quantum state of light**
	Anjali Jatwani and Amit Verma
	SO2.1.1570960014 **Improving Diabetes Management with Support Vector Machine-Based Fundus Image Analysis**
	P Raghu Vamsi, Pawan Upadhyay
	SO2.1.1570961605 **Deep Learning Based Enhanced Handwritten Devanagari Character Recognition using Image Augmentation**
	Khushi Sinha, EshanMarwah, Richa Gupta
	Session-CO2.1:Wireless Communication Systems - II Venue:LT5
	Session Chair: Prof. Alka Tripathi
	Session Rapporteur: Mr. Atul Kumar Srivastava, Session Incharge: Dr. Shivani
	CO2.1.1570962736 **An Angle Independent Cross Arrow Shaped Resistor Loaded Metamaterial Absorber for Wideband EMC/EMI Applications**
	Raghvenda Kumar Singh, Ashish Gupta, Joysmita Chatterjee

	CO2.1.157096097 5	**Design a UWB Antenna with Band Notch Characteristics for MIMO Applications**
		Hemant Kumar Varshney, Sachin Agrawal, Dharmendra Kumar Jhariya
	CO2.1.15709669 60	**Driving into the Future: A Comparative Analysis of the Hough Transform and Convolutional Neural Network for Autonomous Vehicles**
		Bhawna Gupta, Ruby Beniwal, Shruti Kalra,Prateek Sharma
	CO2.1.15709669 67	**Security Analysis of A Mixed RF-FSO-VLC Triple Hop Cooperative Network**
		Vishal Narain Saxena and Dipti R. Pattanayak
	CO2.1.15709655 38	**Temperature Dependent Analysis of ZnO QDs Photodetectors**
		Tejas Kumar, Yogesh Kumar, Hemant Kumar, Varun Goel, Gopal Rawat
11:15-11:30 A.M.	**HIGH TEA**	
11:30 -1:00 P.M.	**Technical Session 4 Online**	
	Session-C2.1: Communication Systems - II	
	Session Chair: Prof. Shruti Jain	
	Session Rapporteur: Mrs. Nisha Venkatesh , Session Incharge: Dr. PimmyGandotra	
	C2.1.157095487 0	**Gain and directivity Enhancement of mm-wave MIMO Array for 5G Networks**
		Poonam Koundal,Simranjit Sing, Rajbir Kaur
	C2.1.157095498 5	**An Array of Fibonacci Hexagon based Printed Radiators for Vehicular Communications**
		Kalyan Sundar Kola, Anirban Chatterjee, Sandip Bhattacharya
	C2.1.157096685 6	**Cluster-Head Selection Protocol for Improving the Network Lifetime of Wireless Sensor Network**
		Bhagwati Sharan, Manjula R
	C2.1.157095947 8	**Design and analysis of UWB fractal array antenna for 5G and millimeter wave communication**
		Diksha Verma, Arun Raj and Durbadal Mandal
	C2.1.157095933 6	**Development of a LiFi System for Under Water Communications**
		Yash Raj Lata, Raj Gusain, Sushant Shekhar, Anurag Vidyarthi, Rishi Prakash and R. Gowri
	C2.1.157096240 7	**Heart Disease Prediction using Machine learning**
		Amrit Ra, Saurabh Kumar, Ayush Kumar and Sourabh Budhiraja
	Session-S2.1: Advanced Digital Image Processing	

Session Chair: Prof. Sandeep Singh Rawat	
Session Rapporteur: Dr. Nitin Muchhal , Session Incharge: Mr. Satya Naryan Patel	
S2.1.1570959526	**MFAAN: Unveiling Audio Deepfakes with a Multi-Feature Authenticity Network**
	Karthik Sivarama Krishnan, Koushik Sivarama Krishnan
S2.1.1570959911	**Wavelet-based Alzheimer's Disease Detection using Edge-Weighted Local Binary Pattern**
	Neha Garg, Mahipal Singh Choudhry,RajeshMungasajiBodade
S2.1.1570959950	**Parkinson Disease Classification using Hybrid Deep Learning Approach**
	Bindhu Mol, RimjhimPadam Singh and Priyanka Kumar
S2.1.1570960054	**DiaMOS Plant Leaves Disease classification using Vision Transformer**
	RimjhimPadamSingh, Sugunadevi C, Uma Maheswari B, Priyanka Kumar
S2.1.1570960028	**5G Network Slice Prediction using Hybrid Neural Network and Random Forest Model**
	Ramya V, RimjhimPadam Singh, Manoj Kumar Panda and Priyanka Kumar
S2.1.1570965627	**An Effective Path Convergence approach founded on Recurrent Ant Colony Optimization (RECACO) in Mobile Ad Hoc Networks**
	M Vishnuvardhan Reddy, Shahnaz K V, Potu Narayana, Sanjay Kumar Suman, A Asha and Arvind Balamurali
Session-V2.1: VLSI Circuits and Systems - IV	
Session Chair: Prof. R. K. Dwivedi	
Session Rapporteur: Mr. B. Suresh, Session Incharge: Dr. Rishibrind Upadhyay	
V2.1.1570959446	**Characterization of Radiation-Dependent Dual Channel AlGaN/GaN MOS-HEMT Based Dosimeter**
	Ruby Man; Shobha Sharma , Sonam Rewari, R. S.Gupta
V2.1.1570960017	**Computational Approaches to Optimizing Perovskite Solar Cell Performance**
	Ayushi Sharma, Chandani Dubey, Deepak Kumar Jarwal, Gopal Rawat
V2.1.1570963520	**Implementation of 1-bit Full Adder using various Low Power Techniques on 45nm Technology**

		Nishant Sahay, Akash Mecwan
V2.1.1570964227		**Designing a Customized Communication System using Rasberry Pi**
		Anusha C, Kalpana H M
V2.1.1570964544		**Design and Analysis of Peculiar Piezoresistive Pressure Sensor (PPPS) for Distinct Application**
		Bhumika S B, Chaitra N , FenilChetankumarPanwala ,Harsha S and BabuAngadi
V2.1.1570965360		**Lint, CDC and RDC analysis for PCIe subsystem using VC_Spyglass**
		Nischitha A P, Dayananda Y S, Kalpana H M
Session-M2.1: Machine learning for Systems- II		
Session Chair: Prof. D. K. Tayal		
Session Rapporteur: Mr. Prabhanshu Yadav, Session Incharge: Dr. Rahul Kaushik		
M2.1.1570959470		**Drowsy Driving Detection System using Image Processing Techniques**
		Md Kaif Ansari, Rupashri Barik, Khushi Kumari, Rahul Jha and Manjit Singh
M2.1.1570966735		**Efficient e-KYC Authentication System: Redefining Customer Verification in Digital Banking**
		Kavery Verma, Rajnish Kumar ,AmaranaPrabhakara Rao, Rakesh Ranjan
M2.1.1570965727		**Improved Ensemble based Transfer learning approach for Indian Sign Language Recognition**
		Sneha Sharma, Anshul Agarwal, Siddhant Kumar, Avaneesh Pandey and Malay Kishore Dutta
M2.1.1570966912		**In-Hospital Mortality Prognosis: Unmasking Patterns using Data Science and Explainable AI**
		Uma Maheswari B ; Ashik F, Angelina George and Alphonsa Jose
M2.1.1570966977		**Insect Localization and Detection Using Object Detection Techniques**
		Parveen Malik; Manoj Kumar Parida, Ganaraj P S
M2.1.1570960048		**MineralNet: A Composite Deep Learning Model for Accurate Classification and Identification of Minerals Using CNN-SVM Fusion**
		Raj Gaurang Tiwari and Anurag Kumar
1:00-2:00 P.M.		**LUNCH**

2:00-3:00 P.M.	Keynote Talk 6:Prof. Ram Bilas Pachori, Department of Electrical Engineering, Indian Institute of Technology Indore (ONLINE) Online link:https://meet.google.com/zdg-vxsu-wit	
3:00-3:15 P.M.	Tea	
3:15-4:15 P.M.	Technical Session 5 (Online)	
	Session-C2.2: Communication Systems - III	
	Session Chair: Prof. Janki Ballabh Sharma	
	Session Rapporteur: Mr. Satya Naryan Patel , Session Incharge: Mr. Shivaji Tyagi	
	C2.2.15709656199	LoRaWAN Based Environmental Monitoring For Smart Campus
		Paidikondala Vinay, Amarlapudi Sanjay Bhargav, UppalaSakhitha, K. Shri Ramtej
	C2.2.1570966325	A Smart NIDS Design for SDN-Based Cloud IoT Network using Optimal Path Selection and RNN
		Narendra Kumar, Ishaan Dawar, Anurag Aeron, Santosh Kumar
	C2.2.1570966683	Outage Analysis of Single-Stage Relay NOMA Over Power Line Communication Under Impulsive Noise
		Roopesh Ramesh, R. Muralishankar and Sanjeev Gurugopinath
	C2.2.1570964680	Performance Evaluation on Various Routing Strategies in IoT
		Sunita Rani, RituBeniwal, Kirti Saini and Rashmi Saini
	C2.2.1570942429	Security Framework For Electronic Health Record In The Cloud Based On Public key Encryption
		A. Aruna and V. Sellam
	C2.2.1570966214	Single and Dual Horn SIW Radiators for High Speed Vehicular Communication
		Mantar Singh Mandloi and Leeladhar Malviya
	Session-S2.2: Image processing	
	Session Chair: Dr. Anil Kumar	
	Session Rapporteur: Dr. Ankur Bhardwaj, Session Incharge: Dr. Madhu Jain	
	S2.2.1570969887	Deep Spectrogram Feature Based ECG Signal Quality Assessment for False Alarm Reduction
		Achinta Mondal, M. Sabarimalai Manikandan and Ram Bilas Pachori

S2.2.1570969895	**Compressed ECG Sensing Based RR Interval Measurement for Fast Entropy Analysis of Heart Rate Variability**
	Himanshu Singh, M Sabarimalai Manikandan, Ram Bilas Pachori
S2.2.1570969896	**Emotion identification based on EEG rhythms separated using improved eigenvalue decomposition of Hankel matrix**
	Aditya Nalwaya, Vivek Kumar Singh, Ram Bilas Pachori
S2.2.1570953201	**Magnetic Resonance Image Fusion Using Bilateral Filter and PCA**
	K. Kannan and K. Sakthibala
S2.2.1570954862	**A fine-tuned MobileNetv2 based approach for Weed Classification**
	RimjhimPadam Singh, Shalini G, Manju Khanna, Priyanka Kumar
S2.2.1570959435	**Speaker Counting by Scattered Microphone Array Based on DOA and Eigenvalue Estimations in Adverse Environments**
	Ali DehghanFiroozabadi, Pablo Adasme, David Zabala-Blanco, Pablo Palacios Játiva, Cesar Azurdia-Meza
Session-V2.2: IOT System-I
Session Chair: Prof. Rajiv Kumar
Session Rapporteur: Dr. Neetu Joshi, Session Incharge: Dr. Pankaj Kumar Yadav
V2.2.1570965635	**An Interactive and Economical Embedded Braille Machine for the Visually Challenged People**
	Deepak Joshi, Aham Gupta, Ashish Kumar, Devansh Chaudhary, Syed Hashir Faheem, MohdKaifuddin Khan and MohdTausif
V2.2.1570965721	**Metal Strip Layer Approach to Enhance the DC Characteristics and Analog/RF Performance of a Dual Material Control Gate TFET**
	ShreyanshiMaturkar , Dharmender, Kaushal Kumar Nigam
V2.2.1570966883	**Power-Efficient FPGA Implementation of SVM for Sleep Apnea Detection**
	Syed Imaduddin, Abdul Haadi, Ashish Kumar and Md ShamShadAlam
V2.2.1570965873	**Wind Power Prediction using Transformers: A Federated Learning Approach**
	Shivkumar S, RimjhimPadam Singh and Priyanka Kumar
V2.2.1570965659	**Solar Powered IoT Based Environment Monitoring System**
	Nischitha M; B S Rajeshwari
V2.2.1570954583	**Precision Agriculture Using Internet of Things and Machine Learning**

		Siddha Mehta, Tirth Shah ,Nikhil Thakkar, Utkrisht Trivedi, Shubhangi Deokar, Deepali Vora
		Session-M2.2:Machine Learning for system-III
		Session Chair: Prof. Divakar Yadav
		Session Rapporteur: Dr. Neetu Joshi, Session Incharge: Dr. Pimmy Gandotra
	M2.2.1570965726	**Optimum Feature Selection for the Analysis of effects Electroencephalography on Applied Pressure Physiotherapy**
		Kumar Avinash Chandra and Prabhat K Upadhyay
	M2.2.1570966817	**Quantum Prototype Clustering: Advancing AI-Enhanced Machine Learning**
		Ishan ShivanshBangroo; Ravi Kumar
	M2.2.1570959771	**Real Time Cloud-Based Weather Monitoring System using NodeMCU**
		Saurav Kumar, Shubham Dabral, Ayush Negi, Vandana Rawat, Sudhanshu Maurya and Kamal Alaskar
	M2.2.1570959432	**Real-Time Image Super-Resolution using Drone through GFPGAN and Nvidia Jetson Nano**
		Reetika Dubey, Ruchi Gajjar
	M2.2.1570955660	**Road Detection from Remote Sensing Images using Machine Learning**
		Pruth viraj sinh Anopsinh Kathiya, Kashyap Sindhav, Ruchi Gajjar
4:15-5:15 P.M.		**Keynote Talk 7: Prof. William Whittow,** **Prof. of Radiofrequency Materials, Loughborough University** **(ONLINE) Online link:https://meet.google.com/zdg-vxsu-wit**
		Day 3: Saturday, Dec 23, 2023
09:00-10:15A.M.		**Technical Session 5 Offline**
		Session-VO3.1: VLSI TECHNOLOGY & CIRCUITS-II Venue:LT4
		Session Chair: Prof. N. S. Beniwal
		Session Rapporteur: Mr. Prabhanshu Yadav, Session Incharge: Dr. Archana Pandey
	VO3.1.1570966612	**Assessing the Performance of a Dielectrically Modulated Double Gate Bilateral TFET Biosensor**
		Kuldeep Dutta, Madhulika Verma, Sachin Agrawal, Manoj Kumar
	VO3.1.1570966881	**Efficient Approximate 8-Bit Binary Parallel Subtractor Circuit: Design, Analysis, and Application in Negative Image Generation**
		Sanjiv Kumar Gupta, Amit Dhawan, Manish Tiwari, Sumit Kumar Jha
	VO3.1.1570957578	**Quantifying NBTI Recovery and Its Impact on Lifetime Estimations in Advanced Semiconductor Technologies**

		Karan Singh, Shruti Kalra, Ruby Beniwal
	VO3.1.1570962522	**Analysis and Simulation of Angle Effect of L-Shaped Beam Branches on the Performance of Multi-Resonant Piezoelectric Energy Harvester**
		Shradha Saxena
	VO3.1.1570963069	**Photodetector Based on hybrid Perovskite CH3NH3PbI3/TiO2 Heterojunction**
		Rishibrind Kumar Upadhyay and Satyabrata Jit
		Session-SO3.1: Signal Processing for System Analysis-II Venue:LT5

		Session Chair: Prof. Ashish Srivastava
		Session Rapporteur:Mr. Shivaji Tyagi , Session Incharge: Dr. Shivani
	SO3.1.1570958786	**Detection of Counterfeit Currency Through SURF and Haar Cascade Classifier**
		Abhishek Kashyap, B Suresh, Kapil Dev Tyagi
	SO3.1.1570957784	**Efficient Image Feature Extraction through Simultaneous Training of Nested U-Nets**
		Sujeet Kumar Mishra, Dieter W. Heermann
	SO3.1.1570959654	**Throat microphone speech recognition in Hindi Language using Residual Convolutional Neural Network**
		Raj Kumar, ManojTripathy, R S Anand, Niraj Kumar
	SO3.1.1570966666	**Reduction of Subthreshold Leakage Using Metal Strip in SGO Double-Gate MOSFET**
		Arup Sankar Bhaumik, Satyendra Kumar, Saurabh Chaturvedi, Km. Sucheta Singh, Yogesh Kumar, Kapil Dev Tyagi, Abhishek Kashyap
	SO3.1.1570966893	**Simulation-Based Study of Gaussian-Doped Channel in Stacked Gate Oxide MOS Transistor**
		Amit Kumar, Satyendra Kumar, Saurabh Chaturvedi
	SO3.1.1570969324	**Investigating Machine Learning Applications for FDSOI MOS-Based Computer-Aided Design**
		Vimal Mishra, Abhay Pratap Singh, Shamim Akhter

10:15-11:15 A.M.	**Keynote Talk 8: Prof. Sujay Deb, Prof. and Head ECE Department, Indraprastha Institute of Information Technology, Delhi (OFFLINE) Venue:LT4**
11:15-11:30 a.m.	**High Tea**
11:30-12:45 p.m.	**Session-C3.1: Communication Systems - IV**
	Session Chair: Prof. D. S. Saini
	Session Rapporteur:Dr. Nitin Muchhal , Session Incharge: Ms. Smriti Bhatnagar

C3.1.1570959078	**A Dual Band circularly polarized RFID Reader Antenna for Internet of Things Application**
	Deepak Kumar, Naveen Jaglan
C3.1.1570948892	**Software-Defined Networking's Adaptive Load Optimisation Technique for Multimedia Applications with Multi-Controller Utilisation**
	Pardeep Singh Tiwana, Jaspreet Singh
C3.1.1570966089	**SSADV-Hop: Node localization Approach in WSNs using a SSA based DV-Hop Range Free Method**
	Shilpi and Arvind Kumar
C3.1.1570966238	**State Modeling and Verification of Solar Energy Harvesting System for IoT Applications**
	Prathyusha M R, Biswajit Bhowmik
C3.1.1570964935	**Statistical Physical Model for Rise and Fall Time Analysis of DMNC System**
	Urvashi Chugh, Saket Mishra, S. Pratap Singh and Ghanshyam Singh
C3.1.1570959873	**WiCare: Accidental Fall Detection for Elderly Care Using Passive Wi-Fi Sensing**
	SontuAkshath Rishi, GovindulaSrinith, Ummadisetty Dheeraj and Debanjan Das
Session-S3.1: Applications in Systems
Session Chair: Prof. Basant Kumar
Session Rapporteur: Mr. Prabhanshu Yadav, Session Incharge: Mr. Atul Kumar Srivastava
S3.1.1570962203	**Eight-element low-profile MIMO system for thin 5G smartphone applications**
	Vishakha Thakur, Naveen Jaglan
S3.1.1570962731	**Instantaneous Fundamental Frequency Estimation based on FBSE-FAWT**
	Amishi Vijay, Ram Bilas Pachori, AppinaBalasubramanyam, Nitya Tiwari
S3.1.1570964237	**Contactless HR Measurement from Facial Videos Using Alternative Color Spaces with CEEMDAN**
	Arpita Panigrahi, Amita Kumari Sharma, Hemant Sharma and Atin Mukherjee
S3.1.1570965694	**Smart Song Recommendation System using Machine Learning**
	Ayushman Singh, Shubham Sharma, Balvendra Singh, Sumit Kumar Jha, Hari Om Shanker Mishra
S3.1.1570965963	**Quantum Cascade Lasers in Infra-red Absorption Spectroscopy**
	J. Melvin Jones, Ravi Gorli, S Chithra, S.Lakshmisridevi, HarishchanderAnandaram and P Ashok
S3.1.1570969879	**Power quality improvement in Electric Vehicle charging station using PI Controller**
	Abhinav Srivastava, MunishManas, Rajesh Dubey

	Session-V3.1: Low power electronics
	Session Chair: Dr. Vipin Balyan
	Session Rapporteur: Mr. B. Suresh, Session Incharge: Dr. PimmyGandotra
V3.1.1570951363	**Monitoring of Grid-Connected Photovoltaic Systems using Multilayer Neural Networks**
	Parveen Kumar; Manish Kumar; Ajay Kumar Bansal
V3.1.1570964097	**IOT Based Soldier Tracking and Health Indication System**
	Gurmeet Singh, Aamir Hashmi and Varun Gaur; Varsha Gupta
V3.1.1570959970	**Incorporating Requirement Engineering into Agile Methodologies: Challenges and Proposed Solutions**
	Prateek Srivastava; Nidhi Srivastava, Rashi Agarwal; Pawan Singh
V3.1.1570960779	**Automatic Crop Irrigation System Using Internet of Things and Machine Learning**
	Geetika Sharma, Sushil Chandra Dimri,Harendra Singh Negi, Moksh Maheshwari and Mithilesh Kumar Sharma
V3.1.1570959968	**A Deep Dive into Accurate Garbage Classification Using Transfer Learning Techniques for Environmental Sustainability**
	Silky Goel, Akanksha Gupta and SnigdhaMarkanday
V3.1.1570965482	**A Comprehensive Review on Recent Advances in Observation and Estimation of Nitrogen Oxide (NOx) Emissions**
	Charu Bhardwaj, Thomas Lauvaux
	Session-M3.1: Machine Learning for system-IV
	Session Chair: Prof. Vivek Sehgal
	Session Rapporteur: Mrs. Nisha Venkatesh, Session Incharge: Dr. Rishibrind Upadhyay
M3.1.1570957922	**SACF: An Innovative and Secure Architectural Approach for Cybersecurity using Fog Computing Environments**
	Mandeep Kaur, Rajni Aron; Shriya Seth and Pratham
M3.1.1570960018	**Ship Detection in Satellite Images using You Only Look Once-Neural Architecture Search**
	RimjhimPadam Singh, Anand R, Deepa Gupta, KannappanPalaniappan
M3.1.1570965556	**The Next Frontier: Futuristic Home Control Systems for Modern Living**
	Ankita Sahoo, VanshWarathe, AashimaKatoch and Navpreet Kaur Walia
M3.1.1570960203	**Tomato Leaf Disease Classification with Lightweight Federated Learning using Identically Distributed Images**
	Naresh Trivedi; Himani Maheshwari ,Raj Gaurang Tiwari, Ambuj Agrawal, Vinay Gautam
M3.1.1570966253	**Zérosdetect: Phishing URL Detection with Quantum-Driven Zero-shot Learning**
	Ishan ShivanshBangroo, Ravi Kumar
M3.1.1570964537	**Classification of NFR based Importance Level of User Story in Agile Software Development**
	Bhawnesh Kumar, Umesh Kumar Tiwari and Dinesh C. Dobhal
	Session-E3.1: Intelligent Computing

	Session Chair: Prof. Pushpendra Kumar	
	Session Rapporteur: Dr. Neetu Joshi , Session Incharge: Dr. Satya Naryan Patel	
	E3.1.1570966855	**Prediction of Handwritten Classification Using CNN Techniques**
		Kumar Sanu; Rahul Bhandari
	E3.1.1570954274	**Enhancing Trojan Detection Using Machine Learning: Comparative Analysis of Classifier Performance on Embedded Hardware**
		Roshani Parmar and Nagendra Gajjar
	E3.1.1570976758	**Performance Evaluation of Cuffless Blood Pressure Estimation Methods Using Linear and Non-Linear Models with PTT and PR Parameters**
		Shilpa N S, Jomole Varghese V, Sivaranjini P N, Asit Kumar Panda, M. Sabarimalai Manikandan and Ram Bilas Pachori
	E3.1.1570966584	**Asymmetric Dual-Hop NOMA based Communication System with Practical Constraints: Imperfect CSI, HWI and ISIC**
		Isha Khirwar, Akash Gupta, Bharat Verma and Parul Garg
	E3.1.1570958044	**Home Quarantine Covid-19 Patient's Monitoring and Prediction Healthcare System using Internet of Things and Machine Learning**
		Dushyant Kumar Singh, Reena Chandel and HimaniJerath
	E3.1.1570957861	**A High Efficiency Class-E Power Amplifier with Tuned Output Network**
		Evan Court and Vipin Balyan
12:45-1:30 P.M.	**Valedictory Session**	