

Day 1: Wednesday, 21 March 2018	
08:30 AM Onwards	Registration
9:45 AM	Inauguration
10:45AM-11:00AM	Tea Break
11:00AM-12:00PM	Keynote Talk 1: Prof. Banmali Rawat Venue: LT-4
	Topic: Photonic Crystal Fiber (PCF) Raman Amplifier
12:00-12:45 PM	Keynote Talk 2 : Dr. Kaushik Saha Venue: LT-4
	Topic: The Fourier Decomposition Method
12:45-01:45 PM	Technical Session 1
	Session-C1.1 : Wireless Communication Systems-I Venue: LT-4
	Session Chair: Prof. Anirban Pathak
	Session Rapporteur: Dr.Parul Puri, Amit Goyal
	C1.1.1570422683 Optimal Election Clustering Protocol
	Ankur Bohora; Kirti Aggarwal
	C1.1.1570431927 The Internet of Things: A Vision for Smart World
	Brahmjit Singh
	C1.1.1570422687 Optimal Election Unequal Clustering Routing Protocol
	Ankur Bohora; Kirti Aggarwal
	C1.1.1570425117 LDPC Decoder's Error Performance over AWGN Channel using Min-Sum Algorithm
	Apeksha Yadav; Sandeep Kakde; Atish Khobragade; Dinesh B. Bhoyar; Shailesh Kamble
	Session-V1.1 : VLSI Circuits and Embedded Systems-I Venue: LT-5
	Session Chair: Dr. Vandana Niranjana
	Session Rapporteur: Dr. Yogesh Kumar, Varun Goel
	V1.1.1570426422 Design of Efficient Low Power Multiplier using Reversible Gate and Wallace Tree Algorithm
	Satya N. Mishra; Kanjalochan Jena; Rupam Goswami; Anand Agrawal
	V1.1.1570423612 Comparative Analysis of Standard 9T SRAM with Proposed Low Power 9T SRAM
	Mukesh Kumar
	V1.1.1570423334 A Novel Method to Detect Program Malfunctioning on Embedded Devices Using Run Time Trace
	Garima Singhal; Sahadev Roy
	V1.1.1570428018 Analysis of RSNM and WSNM of 6T SRAM cell using Ultra Thin Body FD-SOI MOSFET
	Vimal Mishra; Kaushal Nigam; Narendra Yadava; Bajrang Bansal; Rajeev Chauhan
	Session-S1.1: Signal Processing for Systems Analysis-I Venue: G11
	Session Chair: Prof. Shikha Tripathi
	Session Rapporteur: Dr. Vijay Khare, Ritesh Sharma

	S1.1.1570417661	Real time video surveillance for Safety Line and Pedestrian Breach Detection in a Dynamic Environmen
		Arjun Prakash; Santosh Verma; Shivam Vijay
	S1.1.1570425142	An Improved Design Technique of Digital Finite Impulse Response Filter for Notch Filtering
		Anil Kumar; Kuldeep Baderia; G. K. Singh; Seungchan Lee; Heung-No Lee
	S1.1.1570412783	Special Pedestrian and Head Pose Detection for Autonomous Vehicles
		Sachin Shetty; Meena S M; Uday Kulkarni; Hareesh Hebballi
	S1.1.1570416498	Sorted Outlier Detection Approach based on Silhouette Coefficient
		Pooja Lodhi; Omji Mishra; Dharmveer Rajpoot
1:45 - 2:30 PM	LUNCH	
2:30-03:45 PM	Technical Session 2	
	Session-C1.2 : RF Communication Systems-I Venue: LT-4	
	Session Chair: Prof. B. K. Kanaujia	
	Session Rapporteur: Dr. Dharmendra Kumar Jhariya, Vishal Narayan Saxena	
	C1.2.1570422499	A Review on Enhancement of Microstrip Patch Antenna Parameters using Frequency Selective Surfaces
		Dinesh Kumar; Ekta Thakur; Naveen Jaglan; Samir Gupta; Shweta Srivastava; Varun Goyal
	C1.2.1570422669	A Miniaturized Elliptically-shaped Split Ring Resonator Antenna with Dual-band Characteristics
		Ashish Gupta; Raghvendra Kumar Singh
	C1.2.1570423247	Size Reduction of Dipole Antenna Using New Hybrid Koch Fractal
		Ali Gashtasbi
	C1.2.1570422261	Mathematical Analysis of commonly used feeding techniques in rectangular Microstrip Patch Antenna
		Ekta Thakur; Dinesh Kumar; Naveen Jaglan; Samir Gupta; Shweta Srivastava
	Session-S1.2: Signal Processing for Systems Analysis-I Venue: LT-5	
	Session Chair: Prof. D. K. Rai	
	Session Rapporteur: Dr. Kuldeep Baderia, Raghvendra	
	S1.2.1570416546	Downlink interference alignment with nuclear norm and zero Forcing
		Ango Christian
	S1.2.1570422412	SITO type voltage mode biquad filter based on single VDTA
		Chandra Shankar; Sajai Vir Singh; Ravindra Singh Tomar; Vinay Tikkiwal
	S1.2.1570416728	Effective Way to Simulate the Radar's Signal Multi-path Propagation
		Alexander Sergeevich Bokov; Artem Sorokin; Vladimir Vazhenin
	S1.2.1570417057	Distributed Arithmetic based Hybrid Architecture for Multiple Transforms
		Meghna Nair; Mamatha I; Shikha Tripathi

	Session-V1.2: VLSI Circuits and Embedded Systems-II			Venue: G-11
	Session Chair: Dr. Anil Kumar Shukla			
	Session Rapporteur: Mandeep Narula, Shivaji Tyagi			
	V1.2.1570423568	Performance Analysis Of Comparator For Iot Applications		
		Mansi Jhamb; Tejaswini Dhall; Tamish Verma		
	V1.2.1570423578	Adiabatic Logic Based Full Adder Design with Leakage Reduction Mechanisms		
		Dinesh Kumar; Manoj Kumar		
	V1.2.1570423603	IP Protection of sequential circuits using added states watermark with property implantation		
		Ankur Bhardwaj; Shamim Akhter		
	V1.2.1570423609	Design of Low Power and High Speed CMOS Phase Frequency Detector for a PLL		
	Nitin Kumar; Manoj Kumar			
03:45-04:00 PM	Tea Break			
4:00 - 5:00 PM	Keynote Talk 3: Prof. Asok De		Venue: LT-4	
	Topic: Health Hazards Related to Electromagnetic Radiation from Cell Phones and Cell Towers			
Day 2: Thursday, 22 March 2018				
09:00-09:45 AM	Keynote Talk 4: Prof. Satyabrata Jit		Venue: LT-4	
	Topic: Terahertz Technology and Its Applications			
09:45-10:45 AM	Technical Session 3			
	Session-C2.3 : Communication Networks-I		Venue: LT-4	
	Session Chair: Dr. Manoj K Meshram			
	Session Rapporteur: Dr. Megha Agarwal, Abhay Kumar			
	C2.3.1570424988	News Analysis Using Word Cloud		
		Chandrapaul R; Rounak Soni; Shubham Sharma; Hemraj Fagna; Sangeeta Mittal		
	C2.3.1570418387	Recent trends in IoT, its requisition with IoT built engineering		
		Arun Kumar; Ayodeji Olalekan Salau; Krishan Paliwal; Swati Gupta		
	C2.3.1570425978	Deployment of Wireless sensor Network in the presence of Obstacle and its Performance Evaluation		
		Pratit Nayak; Sanjeet Kumar; Ekta Nashine		
	C2.3.1570427980	Intelligent Robust Routing Protocol		
		Komal Mehta; Raju Pal		
	Session-S2.3: Image Processing		Venue: LT-5	
	Session Chair: Prof. P. C. Gupta			
	Session Rapporteur: Smriti Bhatnagar, Shruti Kalra			
	S2.3.1570427919	De-Seasoning based Time series data forecasting method using recurrent neural network (RNN) and Tensor flow		
		Prashant Kaushik; Pankaj Yadav; Shamim Akhter		
	S2.3.1570427968	R-peaks Detection using Shannon Energy for HRV Analysis		

	Om Navin; Gautam Kumar; Nirmal Kumar; Kuldeep Baderia; Ranjeet Kumar; Anil Kumar
S2.3.1570428036	Index Seek vs Table Scan Performance and Implementation of RDBMS
	Akshit Manro; Kriti Gupta
S2.3.1570428060	Industrial simulation of PID & modified-MPID controllers for coupled tank system
	Rajesh Singla; Om Verma; Anand Agrawal; Vikas Kumar; Nikhil Pachauri
S2.3.1570428072	A VDCC based Grounded Passive Element Simulator/Scaling Configuration with Electronic Control
	Pranjal Gupta; Mayank Srivastava; Aishwarya Verma; Ayushi Singh; Devyanshi Agarwal; Arshi
Session-V2.3: Microelectronic Devices-I Venue: G11	
Session Chair: Dr. Nidhi Goel	
Session Rapporteur: Dr. Vimal Kumar Mishra, Deeksha Chandola	
V2.3.1570430464	FPGA Implementation of an 8-bit AES Architecture: A Rolled and Masked Approach
	Nidhi Goel; Simarpreet Chawla
V2.3.1570425232	Fabrication and Characterization of Photo junction Field Effect Transistor
	Yogesh Kumar; Hemant Kumar; Gopal Rawat; Chandan Kumar; Varun Goel; Bhola Pal; Jit
V2.3.1570425349	Sarcasm Detection of Amazon Alexa Sample set
	Avinash Pandey; SakshamRaj Seth; Mahima Varshney
V2.3.1570425739	Reducing Efficiency Droop for Si-doped Barrier Model of GaN/InGaN Multi Quantum Well Light Emitting Diode by Designing Electron Blocking Layer
	Pramila Mahala; Amit Goyal; Sumitra Singh; Suchandan Pal
V2.3.1570426276	Variability Study Using α-Power Based MOSFET Model For Ultradeep Submicron Digital Circuit Design
	Amalendu Bhattacharyya; Shruti Kalra
10:45-11:00 AM	Tea Break
11:00-12:00 PM	Technical Session 4
Session- C2.4: RF Communication Systems-II Venue: LT-4	
Session Chair: Prof. S. P. Purohit	
Session Rapporteur: Dr. Rahul Kaushik, Reema Buddhiraja	
C2.4.1570423951	A Compact Fish Spear-Shaped UWB BPF with Dual Notch Bands using SSIR resonator
	Dharmendra Jhariya; Akhilesh Mohan
C2.4.1570426018	Analysis of Empty Substrate Integrated Waveguide H-Plane Horn Antenna for K Band Applications
	Abhay Kumar; Nitin Muchhal; Arnab Chakraborty; Shweta Srivastava
C2.4.1570427881	Slot Integrated Folded Substrate Integrated Waveguide Band Pass Filter for K Band Applications
	Nitin Muchhal; Tanvi Agrawal; Abhay Kumar; Arnab Chakraborty; Shweta Srivastava
C2.4.1570428104	Dual Band SIW Bowtie Antenna for X - band Applications
	Tanvi Agrawal; Bhavuk Chhabra; Shweta Srivastava
Session-S2.4: Signal Processing for Systems Analysis -II Venue: LT-5	
Session Chair: Dr. Om Verma	
Session Rapporteur: Bhawna Gupta, Monika	

	S2.4.1570416683	The Terrain's Discrimination Criterion for the Lengthened Objects Identification
		Artem Sorokin; Vladimir Vazhenin
	S2.4.1570423574	Despeckling of Medical Ultrasound Images using Fast Bilateral Filter and NeighShrinkSure Filter in Wavelet Domain
		Amit Garg; Vineet Khandelwal
	S2.4.1570425842	Hybrid Color Image Watermarking Algorithm based on DSWT-DCT-SVD and Arnold Transform
		Palak Garg; Lakshita Dodeja; Priyanka Dogra; Mayank Dave
	S2.4.1570426567	Optical Flow Estimation in Synthetic Image Sequences Using Farneback Algorithm
		Shivangi Anthwal
12:00-01:00 PM	Keynote Talk 5: Prof. Michal Lesňák Venue: LT-4	
	Topic: Optical Functions of Methanol and Ethanol in Wide Spectral Range	
01:00-01:30 PM	LUNCH	
01:30-02:30 PM	Technical Session 5	
	Session-C2.5 :RF Communication Systems-II Venue: LT-4	
	Session Chair: Prof. Raj Kamal Kapur	
	Session Rapporteur: Dr. Kapil Dev Tyagi, Dr. Ashish Gupta	
	C2.5.1570428143	Novel Substrate Integrated Waveguide incorporated with Band Pass Filter
		Tanvi Agrawal; Nitin Muchhal; Shweta Srivastava
	C2.5.1570428149	Metamaterial Coupled Ku Band Waveguide Band Pass Filter
		Anand Kumar; Jitendra Mohan; Hari Om Gupta
	C2.5.1570428695	An Active Polarization Insensitive Ultrathin Metamaterial Absorber with Frequency Controllability
		Prakash Prakash; Mayank Agarwal; Manoj Kumar Meshram
	C2.5.1570426232	Low Complexity, Side Information free novel PTS technique for PAPR reduction in OFDM systems
		Samriti Kalia; Alok Joshi
	Session-S2.5: Signal Processing for Systems Analysis -II Venue: LT-5	
	Session Chair: Prof. R. K. Dwivedi	
	Session Rapporteur: Satyendra Kumar, B. Suresh	
	S2.5.1570425392	Leakage reduction in full adder using source biasing at 45nm technology
		Candy Goyal; Jagpal Ubhi; Balwinder Raj
	S2.5.1570425748	Dual-Mode Quadrature Oscillator Based on Single FDCCII with All Grounded Passive Components
		Bhartendu Chaturvedi; Jitendra Mohan; Atul Kumar
	S2.5.1570423741	Density based approach for Outlier Detection and Removal
		Sakshi Saxena; Dharmveer Rajpoot
	S2.5.1570425865	A Brief Study and Analysis to Investigate the Effect of Various Dielectric Materials on Substrate Integrated Waveguide
		Fatima Haider

02:30-03:15 PM	Keynote Talk 6: Prof. Reinhard Streiter		Venue: LT-4
	Topic:Device and Technology Modeling and Simulation for Advanced Integrated Circuits		
03:15-03:30 PM	Tea Break		
03:30-04:30 PM	Technical Session 6		
	Session-S2.6: Image Processing		Venue: LT-5
	Session Chair: Prof. Vikas Saxena		
	Session Rapporteur: Dr. K P Pradhan, Anuradha Pughat		
	S2.6.1570428080	Current tunable voltage-mode universal biquad filter using CCTAs	
		Sajai Vir Singh; Ravindra Singh Tomar	
	S2.6.1570428087	Maximum Power Point Tracking Techniques for Photovoltaic System: A Review	
		Shikha Gupta; Omveer Singh; M A Ansari	
	S2.6.1570428108	Effect of Tonal Features on various dialectal variations of Punjabi language	
		Ashima Arora	
	S2.6.1570426586	Development of Self Stabilizing Platform using MPU-6050 as IMU	
		Vinayak Tripathi; Aditya Bansal; Richa Gupta	
	S2.6.1570427907	Real-Time Mental Workload Detector for Estimating Human Performance under Workload	
		Rajesh Singla; Anand Agrawal; Vikas Kumar; Om Verma	
04:30-05:15 AM	Keynote Talk 7: Prof. Thomas Otto		Venue: LT-4
	Topic: Smart Systems: Basics and Applications		
Day 3:FRIDAY, 23 March 2018			
09:00-09:45 AM	Keynote Talk 8: Prof. Taranjit Kukal		Venue: LT-4
	Topic: System Design Enablement: Looking beyond the Chip		
09:45-11:00 AM	Technical Session 7		
	Session-C3.6 : OFDM, MIMO & Information Theory		Venue: LT-4
	Session Chair: Dr. Manoj K Meshram		
	Session Rapporteur: Dr. Bajrang Bansal, Dr. Anand Aggrawal		
	C3.6.1570428135	Mutation based Bee Colony Optimization Algorithm for near-ML Detection in GSM-MIMO	
		Arijit Datta; Manish Mandloi; Vimal Bhatia	
	C3.6.1570428945	Simulation Study of User Proximity of a Planar Monopole MIMO/Diversity Antenna	
		Hari Shankar Singh; Manoj Kuamr Meshram	
	C3.6.1570426232	PAPR Reduction Comparison in FFT based OFDM vs DWT Based OFDM	
		Alok Joshi; Rahul Wason; Apoorv Manas; Samarth Garg	
	C3.6.1570428674	PAPR Reduction analysis of OFDM Systems using GA, PSO and ABC based PTS Techniques	
		Alok Joshi; Esha Garg; Aashi Garg; Nayna Garg	
	C3.6.1570425514	GA with SVM to optimize Dynamic channel assignment for enhancing SIR in cellular networks	
		Sharada Ohatkar; Dattatraya S Bormane	
	Session-S3.7 : Speech Processing		Venue: LT-5

Session Chair: Prof. Alka Tripathi	
Session Rapporteur: Abhishek Kashyap, Neetu Singh	
S3.7.1570426032	Study of noise interfering with dolphin clicks
	Kapil Dev Tyagi; Rajendar Bahl; Arun Kumar; Shivam Saxena; Sandeep Kumar
S3.7.1570425900	Text to Speech Synthesizer using Concatenative Synthesis
	Vaibhav Thakur; Rajesh K. Dubey; Nikhil Chauhan
S3.7.1570421545	Human Activity Recognition in Video Benchmarks: A Survey
	Tej Singh; Dinesh K Vishwakarma
S3.7.1570425882	Multi Objective Cuckoo Search Algorithm based 2-DOF FOPD Controller for Robotic Manipulator
	Himanshu Chhabra; Vijay Mohan; Asha Rani; Vijander Singh
Session-V3.4 : Microelectronic Devices-II Venue: G-11	
Session Chair: Dr. Ritabrata Bhattacharya	
Session Rapporteur: Dr. Archana Pandey, Kirmender Singh	
V3.4.1570425754	A Novel Approach to Suppress the Ambipolar Current Conduction in Polarity Control Electrically Doped Hetero TFET
	Kaushal Nigam; Dheeraj Sharma; Pravin Kondekar; Vinay Tikkiwal; Vimal Mishra
V3.4.1570425774	Mole fraction Dependency Electrical Performances of Extremely Thin SiGe on Insulator Junctionless Channel Transistor (SG-OI JLCT)
	B Vandana; P Parashar; J k Das; Kumar Pradhan; Shivalal Patro; S k Mohapatra
V3.4.1570425857	Analysis of Graphene/SiO₂/p-Si Schottky Diode by Current-Voltage and Impedance Measurements
	Pramila Mahala; Ankita Dixit; Navneet Gupta
V3.4.1570425884	Low Power Design of CPU using Pipelining and Parallelism
	Abhishek Shrivastava; Gaurav Verma; Vijay Khare
V3.4.1570425889	Simulation Study of Uncoupled Electrical Equivalent Model of Piezoelectric Energy Harvesting Device Interfaced with Different Electrical Circuits
	Shradha Saxena
11:00-11:15 AM	Tea Break
11:15-12:00 PM	Keynote Talk 9 : Prof. Rajeev Saxena Venue: LT-4
12:00-12:30 PM	Valedictory Session
12:30-01:00 PM	LUNCH