

Day 1: MONDAY, 26 DECEMBER 2016	
08:30 a.m. Onwards	Registration
09:00 a.m.	Inauguration
10:30-11:30a.m.	Keynote Talk 1: Prof. Banmali Rawat
11:30-11:45 a.m.	Tea Break
11:45 -01:00 p.m.	Technical Session 1
Session-C1.1 : Wireless Communication Systems-I Venue: LT-4	
Session Chair: Prof. Raj Kamal Kapur	
Session Rapporteur: Mr. Mandeep Narula; Ms. Bhawna Gupta	
C1.1.1570313249	Reduction of Channel Correlation for Multiuser-MIMO System in Visible Light Communications
	Ajit Kumar; S Ghorai
C1.1.1570313198	Performance Analysis of Linear Precoders and SVD in Downlink MassiveMIMO Frequency Selective Channels
	Srikanth Goli; Vijay Kumar Chakka
C1.1.1570312799	5G Networks: The Next Gen Evolution
	Brahmjit Singh; Sandeepika Sharma
C1.1.1570313187	Adaptive Congestion Control Mechanism In CoAP Application Protocol For Internet Of Things (IOT)
	Rosilah Hassan; Ahmed Mahdi Jubair; Khairul Abu Bakar
C1.1.1570313353	Hardware Implementation of Multiple Hop Free Space Optical Link Using Modified Optical Chopper
	Shantanu Gupta; Uppanjeet Singh; Jatinder Randhawa; Vineeta Dubey; Devi Chadha; Vinod Chandra
Session-V1.1 : VLSI Circuits and Systems Venue: LT-5	
Session Chair: Dr. Sanjai Kumar Chauhan	
Session Rapporteur: Ms. Shradha Saxena; Mr. Kirmender Singh	
V1.1.1570313189	SRAM Write Assist Techniques for Low Power Applications
	Satyendra Kumar; Priyadarshi Saxena; Vinay Tikkiwal
V1.1.1570309633	Design of an X-Band Active Gilbert Cell Mixer MMIC Using 0.7μm GaAs MESFET Process
	Anusha Vallabhavajhala; Manu Raj; Sandeep Chaturvedi; Vijayalaxmi B.
V1.1.1570292460	An SoC based wearable system for Continuous Blood Pressure Measurement
	Fariha Naaz; Nirmal Grewal
V1.1.1570301636	Characterization of 8T SRAM Cells using 16 nm FinFET Technology
	Monica M; P Chandramohan

Session-S1.1: Signal Processing for Systems Analysis-I Venue: G10	
Session Chair: Partha Sarathi Mangipudi	
Session Rapporteur: Ms. Jyoti Vyas; Ms. Ruby Beniwal	
S1.1.1570313082	Analysis of 8 point constellations - optimality and recovery
	Nitin Jonathan Myers; Rajeev Yasarla
S1.1.1570309412	Resolving Cold Start problem in recommendation system using demographic approach
	Anand Pandey; Dharmveer Rajpoot
S1.1.1570309364	A Comparative Study of Resource Usage for Speaker Recognition Techniques
	Pulkit Verma; Pradip K Das
S1.1.1570303259	Removal of Narrowband Interference (PLI in ECG Signal) Using Ramanujan Periodic Transform (RPT)
	Basheeruddin Shah Shaik; Vijay Kumar Chakka; Srikanth Goli; Satyanarayana Reddy
S1.1.1570312480	Analysis of Contrast Enhancement Forensics in Compressed and Uncompressed Images
	Neetu Singh; Abhinav Gupta
01:00-2:00 p.m	Keynote Talk 2 : Prof. George Jandieri
2:00 - 2:30 p.m.	LUNCH
2:30-03:45 p.m.	Technical Session 2
Session-C1.2 : RF Communication Systems-I Venue: LT-4	
Session Chair: Prof. Sungtek Kahng	
Session Rapporteur: Mr. Vishal Saxena; Ms. Monika	
C1.2.1570303661	Comparative Analysis of Performance Improvement of MPA by using EBG and DGS Structures
	Wasim Akaram; Dinesh Rano; Abdul Quaiyum
C1.2.1570311469	Microstrip Patch Antenna Loaded with Metamaterial for Multiband Applications
	Anand Kumar; Jitendra Mohan; Hariom Gupta
C1.2.1570303492	Precise E-field Measurement inside TEM cell at GSM frequencies using Microstrip E-field Probe
	Satya Dubey; Naina Narang; Parmendra Negi; V. Ojha
C1.2.1570312277	Optical Signal Processing in Transverse Acousto-Optic Waveguide-Type Functional Devices with SAW
	Yasumitsu Miyazaki
C1.2.1570313174	On the Queue based Performance Analysis of Hybrid Cognitive Radio
	Vivek Dwivedi; Bodhaswar TJ Maharaj; Attahiru Alfa
Session-S1.2: Signal Processing for Systems Analysis-I Venue: LT-5	
Session Chair: Prof. G.S. Srivastava	
Session Rapporteur: Mr. Rahul Kaushik; Dr. Vijay Khare	
S1.2.1570313207	Analysis of Neural Electrical Activities During Elicitation of Human Emotion based on EEG
	Madhuriya Bora; Gitartha Kashyap; Mehfishan Nishat; Xutong Cui; Sio-Hang Pun; Shovan Barma
S1.2.1570297308	Controllability of human cancer signaling network
	Vandana Ravindran; Sunitha V; Ganesh Bagler
S1.2.1570312148	Lexicon-based Sentiment Analysis of Indian Union Budget 2016-17
	Moonis Shakeel; Vikram Karwal
S1.2.1570309571	Epileptic Seizure Detection Using Heart Rate Variability
	Gulezar Shamim; Yusuf Uzzaman Khan; Omar Farooq; Mohammad Sarfraz
S1.2.1570312772	A comparative study of classification techniques by utilizing WEKA
	Anand Pandey; Dharmveer Rajpoot

Session-V1.2: Microelectronic Devices Venue: G-10	
Session Chair: Prof. D.K. Rai	
Session Rapporteur: Ms. Shruti Kalra; Mr. Vinay Annad Tikkiwal	
V1.2.1570307549	Design of a Low Power Wide Range Phase Locked Loop using 180nm CMOS Technology
	Sreedhar Vineel Reddy Kaipu; Kriti Vaish; Sneha Komatireddy; Akshat Sood; Manish Goswami
V1.2.1570312939	Three Input Single Output Current mode Biquad Filter using Single VDTA
	Chandra Shankar; Sajai Vir Singh; Ajay Kumar Verma; Raghendra Sharma; Ravindra Singh Tomar
V1.2.1570312856	Design of Nano Scale CMOS Full Adder with Low Leakage and Ground Bounce Noise Reduction
	Candy Goyal; Jagpal Ubhi; Balwinder Raj
V1.2.1570309670	Design of Low Power, Area Efficient and High Speed Approximate Adders for Inexact Computing
	Vinay Kumar; Ashim Gogoi
03:45-04:00 p.m.	Tea Break
4:00 - 5:00 p.m.	Keynote Talk 3: Prof. Cesar Da Costa
Day 2: TUESDAY, 27 DECEMBER 2016	
09:00-09:45 a.m.	Keynote Talk 4: Prof. R. Bahl
09:45-11:00 a.m.	Technical Session 3
Session-C2.3 : Communication Networks-I Venue: LT-4	
Session Chair: Dr. Vipin balyan	
Session Rapporteur: Ms. Juhi Gupta; Dr. Madhu Jain	
C2.3.1570313217	Distributed Learning Approach for Joint Channel and Power Allocation in Underlay D2D Networks
	Susan Dominic; Lillykutty Jacob
C2.3.1570313049	A Game Theoretic Approach for Performance Enhancement of IEEE 802.15.6 based WBAN
	Anagha Shankar; Lillykutty Jacob
C2.3.1570311684	Carrier Reutilization in a Coherent Optical Network
	Mathew H. Henderson; Banmali S. Rawat
C2.3.1570313292	Aspects of Secure Communication during Spectrum Handoff in Cognitive Radio Networks
	Geetanjali Rathee; Prabhat Thakur; Ghanshyam Singh; Hemraj Saini
C2.3.1570311765	Efficient Field Coverage Using Mobile Sensors
	Aishwarya Chauham; Sangeeta Mittal
Session-S2.3: Image Processing Venue: LT-5	
Session Chair: Dr. M. K. Dutta	
Session Rapporteur: Ms. Neetu Singh; Dr. Shamim Akhter	
S2.3.1570303674	Comparison of Blood Vessel Detection Techniques in Low Quality and Pathological Retinal Images
	Manish Aggarwal
S2.3.1570303420	Graph theoretical biomarkers for schizophrenic brain functional networks
	Megha Singh; Rahul Badhwar; Ganesh Bagler
S2.3.1570310606	Supervised Segmentation of Overlapping Cervical Pap Smear Images
	Anupama Bhan; Garima Vyas
S2.3.1570312944	Analysis of Robustness of an Image Watermarking Algorithm Using the Dual Tree Complex Wavelet Transform and Just Noticeable Difference
	Jeebananda Panda; Satvik Maurya; Radhika Dang; Bhagya Narayanapuram
S2.3.1570309848	Audio Zero Watermarking Scheme based on Sub band Mean Energy Comparison Using DWT-DCT
	Shrikishan Choudhary; Kaberi Nath; Jeebananda Panda; Sunil Kumar

Session-V2.3: Microelectronic Devices Venue: G10	
Session Chair: Prof. Anirban Pathak	
Session Rapporteur: Ms. Shruti Kalra; Dr. Parul Puri	
V2.3.1570309838	Novel Current Mode Universal Filter Using Single DVCC
	Soumya Gupta; Tajinder Arora
V2.3.1570309366	Modeling Of Multiple Axis Mems Accelerometer: Spice Macro Modelling For Functional Analysis
	Radhika Malpotra; Tanuj Chauhan; Alok Tripathi
V2.3.1570297327	Novel CMOS CFDDTA and Its Application as Electronically-Tunable Bistable Multivibrator
	Atul Kumar; Bhartendu Chaturvedi
V2.3.1570309341	A ZigBee -Wireless Wearable Remote Physiological Monitoring System
	P S Pandian; M G Srinivasa
11:00-11:15 a.m.	Tea Break
11:15-12:30 p.m.	Technical Session 4
Session- C2.4: RF Communication Systems-II Venue: LT-4	
Session Chair: Prof. P.C. Jain	
Session Rapporteur: Ms. Garima Kapoor; Ms. Reema Budhiraja	
C2.4.1570309580	Extracted LC Model of Mono-pole antenna with T-slot for UWB application
	Manoj Garg; Sandeep Kumar; Binod Kannaujia; Jasmine Saini; Gunjan Roy
C2.4.1570310368	Scintillation Spectra of Multiple Scattered Electromagnetic Wave in the Collision Magnetized Turbulent Plasma
	George V. Jandieri
C2.4.1570313377	A Study and Comparison of High Frequency Materials More Suitable Than Silicon for Antennas for MMIC
	Arnab Chakraborty
C2.4.1570311302	Antenna Design for 4-by-4 MIMO Communication
	Dajung Han; Changhyeong Lee; Heejun Park; Sungtek Kahng
C2.4.1570302455	Flared Coplanar Antenna Fed by a Microstrip to Coplanar Stripline Transition for Millimeter Wave Applications
	Sushobhit Gangwar; Hari Shankar Singh
Session-S2.4: Signal Processing for Systems Analysis -II Venue: LT-5	
Session Chair: Dr. Ajay Verma	
Session Rapporteur: Mr. Abhishek Kashyap; Ms. Monika	
S2.4.1570306805	Cascadable First-order Current-mode All-pass Filter with Electronic Tuning
	Atul Kumar; Bhartendu Chaturvedi
S2.4.1570311313	Covariance Weighted Distance Metrics for Optical Diagnosis of Cancer
	Sawon Pratiher; Sabyasachi Mukhopadhyay; Ritwik Barman; Souvik Pratiher
S2.4.1570309482	Speckle Noise Reduction in Medical Ultrasound Images using Coefficient of Dispersion
	Amit Garg; Vineet Khandelwal
S2.4.1570313260	Speaker Diarization: A Review
	Aishwary Joshi; Mohit Kumar; Pradip Das
S2.4.1570309737	PAPR Reduction of Coded OFDM System Using Low Complexity PTS
	Alok Joshi; Samriti Bali; Haritima Tiwari
12:30-01:30 p.m.	Keynote Talk 5: Prof. Yasimoto Miyazaki
01:30-02:00 p.m.	LUNCH
02:00-03:15 p.m.	Technical Session 5
Session-C2.5 :OFDM, Cognitive Radio and Co-operative Communication Systems	
Venue: LT-4	
Session Chair: Prof. K. Gopal	
Session Rapporteur: Mr. Vishal Saxena; Ms. Smriti Bhatnagar	

C2.5.1570309627	Symbol Error Rate Performance of Adaptive Decode and Forward Cooperative Diversity over Asymmetric Fading Channels
	Akash Agarwal; Manoj Kumar; Preetam Kumar; Tulika Pandey
C2.5.1570312908	Generation of ASK FSK and PSK Using Sample & Hold IC LF 398
	Ashish Goel
C2.5.1570309818	Capacity of Optical Wireless Communication System over Correlated Log-normal Channels
	Rahul Kaushik; Roop C Jain
C2.5.1570311067	Optical Switching Using Optical Kerr Non-linear Effect on Photonic Crystal Fiber
	Abdelghafotr Elgmari; Banmali S. Rawat
C2.5.1570309447	Relationship between Dijkstra Algorithm and Ray Tracing
	Kazunori Uchida; Leonard Barolli
Session-S2.5: Signal Processing for Systems Analysis -II Venue: LT-5	
Session Chair: Prof. P.C. Jain	
Session Rapporteur: Mr. Shivaji Tyagi; Mr. Atul Srivastava	
S2.5.1570312956	Extensive Performance Analysis of STBC System with and without perfect CSI in Various Fading Channels
	Alok Joshi; Nikita Airee; Samriti Bali; Bhavya Shukla
S2.5.1570289310	Diagnosis of Rotating Machines by Utilizing a Static Unbalance Algorithm Embedded on FPGA
	Cesar Da Costa
S2.5.1570303272	Gender Identification from Speech Signal by Examining the Speech Production Characteristics
	Esther Ramdinmawii; Vinay Kumar Mittal
S2.5.1570313382	A New Steganographic Method Using Contourlet Transform
	Manashee Kalita; Swanirbhar Majumder
S2.5.1570313206	Physical Layer Based Error Resilient H.264/AVC Coded Video Over Wireless Networks
	Mohd Ayyub Khan; Athar Ali Moinuddin; Ekram Khan
03:15-04:00 p.m.	Keynote Talk 6: Prof. Sungtek Kahng
04:00-04:15 p.m.	Tea Break
04:15-05:30 p.m.	Technical Session 6
Session-C2.6 : Communication Networks-II Venue: LT-4	
Session Chair: Prof. K. Kant	
Session Rapporteur: Ms. Shardha Saxena; Mr. Kirmender Singh	
C2.6.1570285407	Power Allocation and Relay Selection for wireless relay networks
	Shekhar Pratap Singh; Anshul Tyagi
C2.6.1570309449	Recent Trends in Next Generation Terabit Ethernet and Gigabit Wireless Local Area Network
	Prem Chand Jain
C2.6.1570312977	A Comprehensive Study on K-means Algorithms Initialization Techniques for Wireless Sensor Network
	Veerprat Singh Chandrawanshi; Rajiv Tripathi; Nafis Khan
C2.6.1570312937	User-Pair Selection in Amplify-and-Forward based FSO Networks
	Parul Puri
Session-S2.6: Image Processing Venue: LT-5	
Session Chair: Prof. Alka Tripathi	
Session Rapporteur: Dr. Ashish Goel; Ms. Bhawna Gupta	
S2.6.1570311156	Motion Compensation based Multiple Inter Frame Interpolation
	Jeffin Gracewell; Mala John

	S2.6.1570303670	Inter-region linear smoothing for Foggy and Hazy Images
		Inter-region linear smoothing for Foggy and Hazy Images
	S2.6.1570313359	Cascaded Directional Binary Pattern for CBIR
		Megha Agarwal
	S2.6.1570310347	Detection of Digital Image Forgery using Wavelet Decomposition and Outline Analysis
		Abhishek Kashyap; Rajesh Parmar; Suresh B; Megha Agarwal; Hari Om Gupta
	S2.6.1570309601	Time Frequency Image based Features for detection of Focal EEG Signals
		Swati Walde; Pragati Rani; Varun Bajaj; Dheeraj Sharma
Day 3: WEDNESDAY, 28 DECEMBER 2016		
09:00-09:45 a.m.	Keynote Talk 7: Prof. B.K. Kanaujia	
09:45-11:00 a.m.	Technical Session 7	
	Session-C3.7 : Wireless Communication Systems-II Venue: LT-4	
	Session Chair: Prof Raj Kamal Kapur	
	Session Rapporteur: Mr. B. Suresh; Dr. Vijay Khare	
	C3.7.1570312484	Analysis of Area Spectral Efficiency and Energy Efficiency based on RSS-Threshold in Device-to-Device-Communication
		Abhinav Yadav; Aditya Trivedi
	C3.7.1570313252	Generation of Optimal Golomb Rulers for FWM Crosstalk Reduction: BB-BC and FA Approaches
		Jyoti Vyas; Kuldeep Sharma; Shonak Bansal
	C3.7.1570306649	QoS Requirement Real and Non Real Time Calls Assignment for Multi-Rate MC-DS-CDMA to locate Vacant Code
		Vipin Balyan
	C3.7.1570309330	A fuzzy-logic based framework for dynamic channel allocation with improved transmission in cognitive radio
		Amita Rana; Kanchan Sharma; Bhupesh Aneja
	Session-V3.7 : VLSI Circuits and Systems Venue: LT-5	
	Session Chair: Prof. S.P. Purohit	
	Session Rapporteur: Mr. Satyendra Kumar; Ms. Reema Budhiraja	
	V3.7.1570313230	Analysis of Actuation Voltage Using High Dielectric Materials in Radio Frequency MEMS Switch
		Kuldeep Sharma; Shonak Bansal; Shubham Roy; Aarohi Kumar; Krishna Prakash; Jyoti Vyas; Neena Gupta; Arun Kumar Singh
	V3.7.1570312002	2-D Analytical Model of Surface Potential for Graded-Channel-Double-Gate (GCDG) MOSFETs
		Varun Goel; Abhay Kumar; Sidhartha Rout; Anuj Kumar Maurya; Sanjay Sharma; Sanjay Kumar
	V3.7.1570308496	USB 2.0 Transceiver Macrocell Interface Implementation on Xilinx Vivado
		Raghav Dwivedi; Mandeep Narula
	V3.7.1570309490	Stability Analysis of Different Dual-Port SRAM cells in Deep Submicron Region using N-Curve Method
		Shourya Gupta; Kirti Gupta; Neeta Pandey
11:00-11:15 a.m.	Tea Break	
11:15-12:00 p.m.	Keynote Talk 8 : Prof. Ekram Khan	
12:00-01:30 p.m.	Technical Session 8	
	Session- C3.8: RF Communication Systems-III Venue: LT-4	
	Session Chair: Prof. B.K. Kanaujia	
	Session Rapporteur: Ms. Garima Kapoor; Dr. Kapil Dev Tyagi	
	C3.8.1570309538	Mutual Coupling Analysis of Dielectric Coated Microstrip Antennas Mounted on the Cylindrical Surface with Varying Inter Element Spacing
		Prasanna Singh; Jasmine Saini
	C3.8.1570313152	Use of Low-Frequency RFID to Combat Cattle Rustling at Indian Borders
		Vipul Sahni; Shivaji Tyagi
	C3.8.1570307075	Satellite downlink communication band notched UWB antenna using uniplanar EBG structure
		Naveen Jaglan; Samir Gupta; Shweta Srivastava; Binod Kumar Kanaujia

C3.8.1570311307	Propagation Characteristics of TE Modes in Non-Uniform Circular Cylindrical Waveguides for Gyro-TWT Applications
	Reema Budhiraja
Session-S3.8 : Speech Processing Venue: LT-5	
Session Chair: Prof. Padam Kumar	
Session Rapporteur: Dr. Ashish Goel; Ms. Ruby Beniwal	
S3.8.1570313037	Objective Evaluation of the Speech Quality of the Directional Loudspeaker Using P.862
	Kapil Dev Tyagi; Arun Kumar; Prasanth Logaraman; Suresh B
S3.8.1570312909	Frequency Estimation of a Sinusoidal Signal
	Pushpendra Singh; Amit Singhal
S3.8.1570312817	Isolated Word Recognition using HMM for Maithili Dialect
	Rajeev Ranjan; Rajesh Kumar Dubey
S3.8.1570303324	Singing characterization using temporal and spectral features in Indian Musical notes
	Shivam Sharma; Vinay Kumar Mittal
S3.8.1570312912	Multiple Time-scale Estimates of Lyon's Auditory Features for Non-intrusive Speech Quality Assessment
	Rajesh Kumar Dubey; Arun Kumar