



## 2015 International Conference on Signal Processing, Computing and Control (2015 ISPCC)

24- 26 September 2015

Conference Program

### Day 1 - Thursday, 24 September 2015

**Registration Begins: 8.30 am**

8:00-9:00	BREAKFAST (ANNAPURNA)		
9.30 – 10.00	INAUGURAL SESSION LT – 3		
10.00 – 11.00	KEYNOTE 1 – PROF. VED PRAKASH SANDLAS (Title: Satellite Communications - Past, Present and Future) LT – 3		
11.00 – 11.30	TEA		
11.30 – 13.00	SESSION 1A: CR – 6 Track 1 Signal Processing (6)	SESSION 1B: CR – 7 Track 1 Signal Processing (6)	SESSION 1C: CR – 8 Track 3 Networks and Communication (6)
13.00 – 14.00	LUNCH (ANNAPURNA)		
14.00– 15.00	KEYNOTE 2 – PROF. VINAY KUMAR MITTAL (Title: Speech Processing) LT – 3		
15.00 – 15.30	TEA		
15.30 – 16.30	SESSION 2A: CR – 6 Track 3 Networks and Communication (5)	SESSION 2B: CR – 7 Track 4 Control and Automation (5)	SESSION 2C: CR – 8 Track 5 Artificial Intelligence and Neural Networks (5)
16.30-17.30	KEYNOTE 3 – PROF. LAXMIDHAR BEHERA (Title: Vision Based Robotic Systems: Control, Navigation and Formation) LT – 3		
19:00 onwards	Conference Dinner at Resort Eutopia		



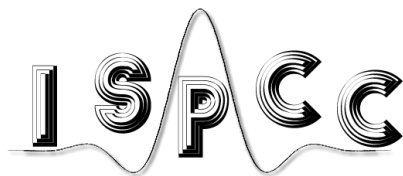
## 2015 International Conference on Signal Processing, Computing and Control (2015 ISAPCC)

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### Day 2 - Friday, 25 September 2015

8.00-9.00	BREAKFAST (ANNAPURNA)	
9.30 – 10.30	SESSION 3A: CR – 7 Track 1 Signal Processing (5)	SESSION 3B: CR – 8 Track 3 Networks and Communication (5)
10.30 – 11.00	TEA	
11.00 – 12.00	KEYNOTE 4 – PROF. S. S. PATHAK (Title: Optical CDMA) LT – 3	
12.00– 13.00	SESSION 4A: CR – 7 Track 4 Control and Automation (5)	SESSION 4B: CR – 8 Track 5 Artificial Intelligence and Neural Networks (4)
13.00 – 14.00	LUNCH (ANNAPURNA)	
14.00– 15.00	KEYNOTE 5 – PROF. SATYABRATA JIT (Title: Terahertz Technology) LT – 3	
15.00 – 15.30	TEA	
15.30 – 17.00	SESSION 5A: CR – 7 Track1 Signal Processing (6)	SESSION 5B: CR – 8 Track 3 Networks and Communication (6)
7:30-9:00	DINNER (ANNAPURNA)	



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**Day 3 - Saturday, 26 September 2015**

<b>08:00-09:00</b>	<b>BREAKFAST (ANNAPURNA)</b>		
<b>09:30-11:00</b>	<b>SESSION 6A:</b> <b>CR – 6</b> <b>Track 4 Control and Automation (5)</b>	<b>SESSION 6B:</b> <b>CR – 7</b> <b>Track 2 VLSI and Embedded Computing (6)</b>	<b>SESSION 6C:</b> <b>CR – 8</b> <b>Track 2 VLSI and Embedded Computing (6)</b>
<b>11.00 onwards</b>	<b>Valedictory/Tea</b>		

**SESSION 1A: ( Track 1 Signal Processing) (24<sup>th</sup> September 2015, 11.30 – 13.00)**

S. No.	Paper ID	Title	Authors
1	206	Iris Localization Based on Integro-Differential Operator for Unconstrained Infrared Iris Images	Vineet Kumar, Abhijit Asati, Anu Gupta
2	211	Efficient IIR Notch Filter Design using Minimax Optimization for 50Hz Noise Suppression in ECG	Hemang K. Jayant, K.P.S. Rana, Vineet Kumar, Sreejith S. Nair, Puneet Mishra
3	219	Performance Comparison of Image Segmentation Techniques for Lung Nodule Detection in CT Images	Priyanka Kamra, Rashmi Vishraj, Kanica, Savita Gupta
4	235	Optimized Design of Digital IIR Filter using Artificial Bee Colony Algorithm	Nikhil Agrawal, Anil Kumar, and Varun Bajaj
5	259	Texture based Palm Print Recognition using 2-D Gabor Filter and Sub Space Approaches	Gaurav Jaswal, Ravinder Nath, Amit Kaul
6	292	Restoration of Scene Flicker Using Video Decomposition	Saumik Bhattacharya, K. S. Venkatesh and Sumana Gupta

**SESSION 1B: ( Track 1 Signal Processing) (24<sup>th</sup> September 2015, 11.30 – 13.00)**

S. No.	Paper ID	Title	Authors
1	135	Defocus Map Estimation from a Single Image using Principal Components	Himanshu Kumar, Sumana Gupta, K S Venkatesh
2	160	Comparative Analysis of Unsupervised Eye Center Localization Approaches	Amit Laddi, Neelam Rup Prakash
3	162	Application of Empirical Wavelet Transform (EWT) on Images to Explore Brain Tumor	Trunali Jambholkar, Dharmendra Gurve, Prakash Babu Sharma
4	163	Detrended Fluctuation and Power Spectral Analysis of Alpha and Delta EEG Brain Rhythms to Study Music Elicited Emotion	Shankha Sanyal, Archi Banerjee, Ruchira Pratihari, Akash Kumar Maity, Subham Dey, Vishal Agrawal, Ranjan Sengupta, Dipak Ghosh
5	200	An Adaptive Hybrid Technique for Pancreas Segmentation using CT Image Sequences	Suchi Jain, Savita Gupta, Ajay Gulati
6	268	Design and Realization of Fractional Order Butterworth Low Pass Filters	Tanya Khanna, Dharmendra K. Upadhyay



**SESSION 1C: Track 3 Networks and Communication (24<sup>th</sup> September 2015, 11.30 – 13.00 )**

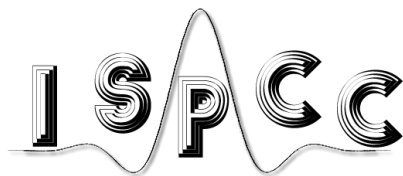
S. No.	Paper ID	Title	Authors
1	107	Synchronization of Rossler Chaotic System for Secure Communication via Descriptor Observer Design Approach	Sonam Chandra, Mahendra Kumar Gupta, Nutan Kumar Tomar
2	194	Performance Analysis of Cyclostationary and Energy Detection Spectrum Sensing Techniques	Shabnam, Rita Mahajan
3	196	Planar epipolar constraint for uav navigation	Anand Abhishek, K S Venkatesh
4	220	Identity-based/Attribute-based cryptosystem using Threshold Value without Shamir's Secret Sharing	Daya Sagar Gupta, G. P. Biswas
5	241	On the Cluster Size of Cognitive Radio Networks	Shruti Sharma and Pankaj Verma
6	242	GTL Based Wireless Sensor Specific Energy Efficient ALU Design on 65nm FPGA	Kartik Kalia, Shivani Malhotra, Khyati Nanda, Bishwajeet Pandey

**SESSION 2A: (Track 3 Networks and Communication) (24<sup>th</sup> September 2015, 15.30 – 16.30)**

S. No.	Paper ID	Title	Authors
1	116	An Enhancement of IEEE 802.11 MAC Performance by Adaptive Adjustment of Contention Window	Dhirendra Kumar Sharma, Chiranjeev Kumar, Rahul Sharma
2	143	Quad-Band Reconfigurable MEMS Antenna on Silicon Substrate for Ku-Band Application	Harsimran Singh, Jyoteesh Malhotra
3	161	Cooperative Spectrum Sensing by Weight Assignment of Secondary Cognitive Radio Node	Arpita Jaitawat, Purnendu Karmakar
4	166	An Experimental Comparative Analysis of Face Recognition Security Solution By Euclidean Distance Algorithm	Sumant Kumar Mohapatra, Sushil Kumar Mahapatra, Sukant Behera, Sujit Kumar Khandai
5	167	PAPR Reduction Technique on Wavelet based OFDM System by Employing Multi-level Wavelet Transform	Gurleen Kaur, Naresh Kumar, B.S. Sohi

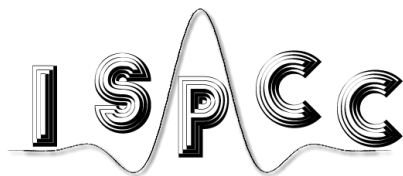
**SESSION 2B: (Track 4 Control and Automation) (24<sup>th</sup> September 2015, 15.30 – 16.30)**

S. No.	Paper ID	Title	Authors
1	5	Complete Controllability of Impulsive Semilinear Stochastic Retarded System	Anurag Shukla, N Sukavanam, D.N.Pandey
2	20	Multimodal Smart Robotic Assistant	Pooja Makula, Anurag Mishra, Akshay Kumar, Krit Karan and V: K: Mittal
3	26	Development of Digital Controller for Synchronous Buck Converter	Sarun Soman, Sangeetha.T.S, Bindu.S
4	36	Voice-Controlled Object Tracking Smart Robot	Kishan Kumar, Shyam Nandan, Ashutosh Mishra, Kanv Kumar and V. K. Mittal
5	37	Biometric Access for a Secure Smart Robot	Kanv Kumar, Kishan Kumar, Shyam Nandan, Ashutosh Mishra, and V: K: Mittal



**SESSION 2C: (Track 5 Artificial Intelligence and Neural Networks) (24<sup>th</sup> September 2015, 15.30 – 16.30)**

S. No.	Paper ID	Title	Authors
1	21	High Density Impulsive Noise Removal Using Decision Based Iterated Conditional Modes	Arjun Singh Chauhan, Vineet Sahula
2	61	Ambulance Siren Noise Reduction Using Noise Power Scheduling based Online Secondary Path Modeling for ANC System	Pooja Gupta, Manoj Kumar Sharma, Sharmelee Thangjam
3	101	SQL Injection : Study and Augmentation	Pankajdeep Kaur, Kanwal Preet Kour
4	119	PSO based Optimized Fractional Derivative Constraints for Designing M-channel Filter Bank	B. Kuldeep, A. Kumar and G. K. Singh
5	155	ARTIFACTS REMOVAL IN LBP BASED FLAME EDGES USING BINARY MORPHOLOGY	Zakir Hussain, Diwakar Agarwal



### SESSION 3A: Track 1 Signal Processing (25<sup>th</sup> September 2015, 9.30 – 10.30)

S. No.	Paper ID	Title	Authors
1	12	Local Binary Pattern based Face Recognition System for Automotive Security	Shailaja A. Patil, Pramod J. Deore
2	33	Performance Analysis of Text-dependent Speaker Recognition System based on Template Model based Classifiers	Kirandeep Kaur, Neelu Jain
3	69	Effect of sparsity on speech compressed sensing	Sonu Bala, Mohammad Arif
4	76	Performance Analysis of Welch and Blackman Nuttall Window For Noise Reduction of ECG	Supriya Goel, Gurjit Kaur, Pradeep Tomar
5	82	A Multi-class Hand Gesture Recognition in Complex Background using Sequential Minimal Optimization	Sheenu, Garima Joshi, Renu Vig

### SESSION 3B: Track 3 Networks and Communication (25<sup>th</sup> September 2015, 9.30 – 10.30)

S. No.	Paper ID	Title	Authors
1	54	Differentiation of Optical Phase Conjugator and Dispersion Compensating Fiber in WDM systems based on parameters effecting FWM power	Manisha Ajmani, Preeti Singh
2	65	HOP COUNT ANALYSIS OF LOCATION AIDED MULTIHOP ROUTING PROTOCOLS FOR VANETS	Kavita Pandey, Saurabh Kumar Raina, Ram Shringar Rao
3	67	A New Modulation Method for Multilevel Inverter Topologies	Varsha Singh, S.Gupta, S.pattanaik, Bokam Santosh
4	88	Edge Perturbation Effect in Polygonal Patch Antennas	Abhishek Joshi, Rahul Singhal
5	103	Distance Adaptive Threshold Sensitive Energy Efficient Sensor Network (DAPTEEN) Protocol in WSN	Anjali, Anshul Garg and Suhali





**SESSION 4A: ( Track 4 Control and Automation) (25<sup>th</sup> September 2015, 12.00– 13.00)**

S. No.	Paper ID	Title	Authors
1	56	An Efficient P300 Speller System for Brain-Computer Interface	Rahul Kumar Chaurasiya, Narendra D. Londhe, Subhojit Ghosh
2	102	Robust PI and LQR Controller Design for Active Suspension System with Parametric Uncertainty	Rahul Mittal
3	109	ISE based PID Controller Tuning for Position Control of DC Servo-Motor using LJ	N. S. Rathore, V. P. Singh, D. P. S. Chauhan
4	144	Nonlinear Robust Observer based Control of Twin Rotor Control System with Friction	Abhinav Pratap Singh, Bhanu Pratap
5	177	Monocular Camera based Object Recognition and 3D-Localization for Robotic Grasping	Aashna Sharma, Ishant Wadhwa, Rahul Kala

**SESSION 4B: (Track 5 Artificial Intelligence and Neural Networks) (25<sup>th</sup> September 2015, 12.00– 13.00)**

S. No.	Paper ID	Title	Authors
1	168	Butterfly Algorithm with L'evy Flights for Global Optimization	Sankalap Arora, Satvir Singh
2	195	Intelligent Remote Vital Health Parameter Monitoring System	Sahibnoor Singh Kohli, Asees Kaur, Ajay Singla, Amit Laddi
3	199	Offline Gurmukhi Script Recognition using Knowledge Based Approach & Multi-Layered Perceptron Neural Network	Gurpreet Singh, Manoj Sachan
4	272	A Fuzzy Neural Network based Reasoning and Learning Approach for Efficient Spectrum Management in Cognitive Radio	Naveen Kumar, Neetu Sood
5	312	Advanced ALU with inbuilt Selection modules for Genetic Algorithm Processor	Harmeet Kaur, Haramardeep Singh



**SESSION 5A: ( Track 1 Signal Processing) (25<sup>th</sup> September 2015, 15.30 – 17.00)**

S. No.	Paper ID	Title	Authors
1	126	EMD based Clear Recursive Thresholding (EMDCRT) for speech enhancement	Nageswara Rao, Jaya Shankar
2	133	DE-NOISING OF EEG SIGNAL FOR EMOTION RECOGNITION	Swati Vaid, Preeti Singh
3	276	Multi-Window Comparison of SIR Performance in Extraction of Mono-aural Vocal and Non-Vocal Components in REPET	Vansha Kher, T.S Lamba
4	282	Detection of Acute Lymphoblastic Leukemia using Watershed Transformation Technique	Romel Bhattacharjee, Lalit Mohan Saini
5	313	Gender Recognition Using FB Series Expansion and SVM	Purshottam Singh Rathore, Brijendra Kumar Joshi

**SESSION 5B: ( Track 3 Networks and Communication) (25<sup>th</sup> September 2015, 15.30 – 17.00)**

S. No.	Paper ID	Title	Authors
1	253	Energy Efficient Critical Homogenous Reactive Protocol for Wireless Sensor Network	Rajesh Kumar Yadav, Kshitiz Rohatgi
2	262	PeerFox: Detecting Parasite P2P Botnets in their Waiting Stage	Priyanka, Mayank Dave
3	271	Bandwidth Enhancement of Microstrip Antenna Using Left-Handed Metamaterial for DECT Applications	Sunita, Gaurav Bharadwaj, Rachana
4	275	Relay Selection with reduced CSI for TWR assisted FSO Networks	Parul Puri, Parul Garg, and Mona Aggarwal
5	285	Discontinuous Reception and Discontinuous Transmission mechanism at Evolve Node and UE for Efficient Power Saving in LTE Network	Vaibhav Gaikwad, Manish Sharma, Trupti Wagh

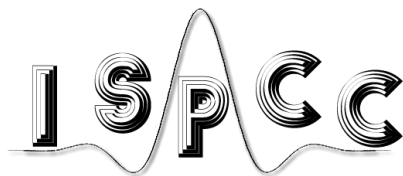


**SESSION 6A: ( Track 4 Control and Automation) (26<sup>th</sup> September 2015, 09:30-11:00)**

S. No.	Paper ID	Title	Authors
1	182	Approximate Controllability of a Second Order Delayed Semilinear Stochastic system with nonlocal conditions	Urvashi Arora, N. Sukavanam
2	183	Unobtrusive head gesture based directional control system for patient mobility cart	Amit Laddi, Vijay Bhardwaj, Nishant Kapoor, Dinesh Pankaj and Amod Kumar
3	249	Design of Robust PI Controller for Active Suspension System with Uncertain Parameters	Rahul Mittal, Manisha Bhandari
4	291	Novel Carbon/Manganese Oxide Nanocomposite for Electrochemical Detection of Arsenic in Water- A Step towards Portable Real Time Sensor	Pooja Devi, Babankumar, Manpreet Kaur, Ritula Thakur
5	308	A Simple Method of PID Controller Design to Achieve Improved Load Disturbance Rejection by Pole Placement	Md Nishat Anwar, Somnath Pan, Mohammad Naseem

**SESSION 6B: ( Track 2 VLSI and Embedded Computing) (26<sup>th</sup> September 2015, 09:30-11:00)**

S. No.	Paper ID	Title	Authors
1	3	A Third Order Quadrature Sinusoidal Oscillator Based on CMOS/FGCMOS Inverters	Shireesh Kumar Rai, Maneesha Gupta
2	115	Design of Low Power and High Speed Dynamic Latch Comparator using 180nm Technology	Aparna Lahariya, Anshu Gupta
3	123	A 10-bit 500 MSPS Segmented DAC with Distributed Octal Biasing Scheme	Santanu Sarkar, Swapna Banerjee
4	132	A Framework for Priority Based Task Execution in The Distributed Computing Environment	Moin Hasan, Major Singh Goraya
5	151	Comparative Analysis of DOIND Approach With and Without Body Biasing For Leakage Reduction in Domino Logic Circuits	Ambika Prasad Shah, Vaibhav Neema, Shreeniwas Daulatabad
6	184	3D DEVICE SIMULATION OF 6T SRAM CELL WITH VOLTAGE SCALING IN 90nm CMOS	Sandeep Kaur Kingra, Charu Madhu, Ashish Sharma, Nidhi Priya



**SESSION 6C: ( Track 2 VLSI and Embedded Computing) (26<sup>th</sup> September 2015, 09:30-11:00)**

S. No.	Paper ID	Title	Authors
1	198	4×4 Bit Multiplier using Adiabatic 2XOR and Sleep Mode Transistor Logic	Sarita Uniyal, Saumya Pandey, Garima Bhargave, Jasdeep Kaur
2	207	A New Energy Efficient Two Phase Adiabatic Logic for Low Power VLSI Applications	Priyanka Sheokand, Garima Bhargave, Saumya Pandey, Jasdeep Kaur
3	208	New Energy Recovery Logic for Ultra Low Power VLSI applications	Priyanka Sheokand, Garima Bhargave, Jasdeep Kaur
4	215	FPGA Implementation of Interpolation Techniques for Thermistor Linearization	Anish Batra, K. P. S. Rana, Vineet Kumar, S. S. Nair, Puneet Mishra
5	230	Time Analysis Based IOTs (Internet Of Things) Enable TeraHertz RAM Design on 40nm FPGA	Rashmi Sharma, Navya Bhasin, Shivani Sharma, Vaashu Sharma, Bhagwan Das