SPCOM | Day 2 | 14/06/16

Plenary by Lt. Gen. Dr. R.S. Panwar | Telecommunication Challenges in the Indian Army: Critical Role of Networks in 21st Century Warfare | 9:00am-10:00am

Session 1 [Main Auditorium]		Session 2 [Hall A]		Session 3 [Hall B]		Session 4 [Hall C]	
Wireless Networks 1		**Cooperative Communication 2**		**Audio and Speech Processing 2**		**Information Theory**	
10:10-10:40	Sibiraj B Pillai — Speed Control in a Multiple Access Server under Delay Constraints	10:10-10:40	Radha Krishna Ganti — Incorporating Scheduling in Poisson Point Process Model for Cellular Networks	10:20-10:40	Anupama Paul; Rohan Kumar Das; Rohit Sinha; S. R. Mahadeva Prasanna — Countermeasure to Handle Replay Attacks in Practical Speaker Verification Systems	10:20-10:40	Oron Sabag; Haim H Permuter; Navin Kashyap — The Feedback Capacity of the BIBO Channel with a No-Consecutive-Ones Input Constraint
10:40-11:00	Ankit Garg; Manav Bhatnagar; Olivier Berder; Baptiste Vrigneau — Order Statistics Based Diagonal Precoding for 4×1 MISO System with Real Orthogonal Space Time Block Codes	10:40-11:00	Neeraj Varshney; Parul Puri — Optimal Power Allocation for Decode-and-Forward Based Mixed MIMO-RF/FSO Cooperative Systems	10:40-11:00	Om Prakash Singh; Rohit Sinha — Low Complexity Language Recognition Exploiting Ensemble of Random Subspace	10:40-11:00	Kuntal Deka; Alentattil Rajesh; Prabin Kumar Bora — A Cycle-based Rate-compatible Puncturing Technique for Non-binary LDPC Codes
11:00-11:20	Suresh Dahiya — A Statistical Block Fading Channel Model for Multiuser Massive MIMO System	11:00-11:20	Neeraj Varshney; Aditya K Jagannatham — Outage Analysis for Path Selection Based MIMO-Beamforming Cooperative Wireless Systems with Node Mobility and Imperfect CSI	11:00-11:20	Neethu Mariam Joy; Umesh S; Basil Abraham; Navneeth K — Improved Phone-Cluster Adaptive Training Acoustic Model	11:00-11:20	Sourya Basu; Shivam Chaturvedi; Rajesh M Hegde — Text Compression Using Lexicographic Permutation of Binary Strings

Coffee | 11:20am-11:40am

Session 1		Session 2		Session 3		Session 4	
Wireless and RF Systems		**Optimization**		**Audio and Speech Processing 3**		**Cognitive Radio 2**	
11:40-12:10	Abhay Karandikar — Title TBA	11:40-12:10	Bhaskar Krishnamachari — Online Learning of Power Allocation Policies in Energy Harvesting Communications	11:50-12:10	Maulik C. Madhavi; Hemant A. Patil — Modification in Sequential Dynamic Time Warping for Fast Computation of Query-by-Example Spoken Term Detection Task	11:50-12:10	Sanjay Yadav; Tamaghna Acharya — Outage Analysis in Cooperative Cognitive Radio Networks with Simultaneous Wireless Information and Power Transfer
12:10-12:30	Rusan Barik; Rehana Siddiqui; K. v. Phanikumar; S Subramanian Karthikeyan — Design of a Novel Dual-Band Low Noise Amplifier Incorporating Dual-Band Impedance Transformer	12:10-12:30	Amrit Singh Bedi; Ketan Rajawat — Online Load Scheduling Under Price and Demand Uncertainty in Smart Grid	12:10-12:30	Harshavardhan Sundar; Thippur V. Sreenivas — Who Spoke What? A Latent Variable Framework for the Joint Decoding of Multiple Speakers and Their Keywords	12:10-12:30	Saumya Dwivedi; Anusha Kota; Aditya K Jagannatham — GLRT Based Bartlett Detection for Spectrum Sensing in Multi-Antenna Cognitive Radio
12:30-12:50	Vikas Vishnu Khairnar; Ramesha C K; Lucy J Gudino — Reconfigurable Beam Scanning Using Hexagonal Slotted Parasitic Patch Antenna Array	12:30-12:50	S. Ramakrishnan; Venkatesh Ramaiyan — A Completely Uncoupled Learning Algorithm for General Utility Maximization	12:30-12:50	Rohan Kumar Das; Sarfaraz Jelil; S. R. Mahadeva Prasanna — Significance of Constraining Text in Limited Data Text-independent Speaker Verification	12:30-12:50	Kalpant Pathak; Adrish Banerjee — On Optimal Offline Time Sharing Policy for Energy Harvesting Underlay Cognitive Radio

Lunch till 12:50pm-2:00pm

Expository talk on the works of Claude Shannon | 2:00pm-2:30pm

Session 1		Session 2		Session 3		Session 4	
Shannon Centenary Session		**Image and Video Processing 3**		**Audio and Speech Processing 4**		**Machine Learning for Signal Processing**	
2:40-3:10	Viveck Cadambe — Recent Results in Multi-version Codes, Update-Efficient Codes and Consistent Shared Memory Emulation	2:40-3:00	Akkala Vivek; Parth Parikh; Mahesh BS; Ajinkya S. Deshmukh; Swarup Medasani — Lens Adhering Contaminant Detection Using Spatio-Temporal Blur	2:40-3:00	Harshavardhan Sundar; Thippur V. Sreenivas — Reverberation Robust TDOA Estimation Using Convex Region Prior	2:40-3:00	Jilt Sebastian; Hema A Murthy — Group Delay Based Music Source Separation Using Deep Recurrent Neural Networks
3:10-3:40	Shun Watanabe — Sensitivity of Functions and Distributed Computing	3:00-3:20	Diptiben Patel; Shanmuganathan Raman — Saliency and Memorability Driven Retargeting	3:00-3:20	Vasundhara Vasundhara; Ganapati Panda; Niladri Puhan — An Improved Block Sparse Method for Feedback Suppression in Hearing Aids	3:00-3:20	Mohammadi Zaki; Hardik B. Sailor; Hemant A. Patil — Analysis of Hierarchical Bottleneck Framework for Improved Phoneme Recognition
3:40-4:10	Vincent Tan — The epsilon-Capacity Region of AWGN Multiple Access Channels with Feedback	3:20-3:40	Debamita Kumar; Ankita Pramanik; Sudeshna Sil Kar; Santi Prasad Maity — Retinal Blood Vessel Segmentation Using Matched Filter and Laplacian of Gaussian	3:20-3:40	Abhishek Narwekar; Prasanta Kumar Ghosh — A Comparative Study of Articulatory Features From Facial Video and Acoustic-To-Articulatory Inversion for Phonetic Discrimination	3:20-3:40	Manikandan J — Design and Evaluation of a Fast Half-Against-Half Support Vector Machine Classifier
		3:40-4:00	Nithish Divakar; Venkatesh Babu R — Denoising in a Jiffy: A Fast and GPU Friendly Algorithm for Image Denoising	3:40-4:00	Suman Samui; Indrajit Chakrabarti; Soumya K. Ghosh — Global Soft Decision Based Speech Enhancement Using Voiced-Unvoiced Uncertainty and Harmonic Phase Decomposition Technique	3:40-4:00	Rahul Singh; Abhishek Chakraborty; Manoj Bs — Graph Fourier Transform Based on Directed Laplacian

Coffee | 4:10pm-4:30pm

Session 1		Session 2		Session 3		Session 4	
Shannon Centenary Session		**Audio and Speech Processing 5**		**Image and Video Processing 4**		**Wireless Networks 2**	
4:30-5:00	Arya Mazumdar — Index Coding and Local Partial Clique Covers	4:30-4:50	Deep Gandhi; Tanvina B. Patel; Hemant A. Patil — A Novel Lowpass Filtering-Based Approach for Estimating Strength of Excitation From Speech Signal	4:30-4:50	Siddharth Srivastava; Prerana Mukherjee; Brejesh Lall — Adaptive Image Compression Using Saliency and KAZE Features	4:30-4:50	Navneet Garg; Govind Sharma — Quantization Methods for Precoder Feedback in Interference Channel
5:00-5:30	Christina Fragouli — Recent Results in Content Type Coding	4:50-5:10	Sandeep Chitreddy; Rajesh M Hegde — Design and Development of Bionic Ears for Rendering Binaural Audio	4:50-5:10	Swati Jain — Weighted Fusion of LBP and CCH Features for Effective Content Based Image Retrieval	4:50-5:10	Navneet Garg; Govind Sharma — Rate Loss Analysis for Precoder Feedback in Interference Channel with Imperfect CSI
		5:10-5:30	Rohit Sinha; Syed Shahnawazuddin; Patri Karthik — Exploring the Role of Pitch-Adaptive Cepstral Features in Context of Children's Mismatched ASR	5:10-5:30	Rijul Soans; Ramakrishnan G A; Vishnu Prasad Shenoy; Ramesh R Galigekere — Classification of Bacterial Morphotypes From Images of ZN-stained Sputum-smears Towards Diagnosing Drug-resistant TB	5:10-5:30	Anup Kumar Mandpura; Shankar Prakriya — Outage Performance of Scheduling in a Distributed Multiuser Fixed-gain AF Relay System with Co-channel Interference and Noise

Cultural Program [Satish Dhawan Auditorium] | 6:00pm-7:00pm

Conference dinner [Main Guesthouse lawns] | 7:30pm onwards