		WEDNESDAY March 1, 20	017		
8:30-6:00	5G Workshop (IC&SR Auditorium)				
		THURSDAY March 2, 20	17		
		TUTORI	ALS		
Room	IC&SR Auditorium	IC&SR Hall 1	IC&SR Hall 2	IC&SR Hall 3	
9:00-10:30	A. Chockalingam (IISc Bangalore), LIFI,	Rajesh Hegde (IIT Kanpur), Microphone	Harish Krishnaswamy (Columbia	Srikanth Subramanian (Nanocell	
	Mirrors and Wireless Communications	Array Processing for Speech	University), Millimeter-wave Circuit and	Networks), IEEE 802.11ax; Next Gen.	
		Enhancement and Source Separation	System Design	High-efficiency WLANs	
10:30-10:45		Tea/Coffee Break (IC	&SR Dining Hall)		
10:45-12:00	A. Chockalingam (IISc Bangalore), LIFI,	Rajesh Hegde (IIT Kanpur), Microphone	Harish Krishnaswamy (Columbia	Srikanth Subramanian (Nanocell	
	Mirrors and Wireless Communications	Array Processing for Speech	University), Millimeter-wave Circuit and	Networks), IEEE 802.11ax; Next Gen.	
		Enhancement and Source Separation	System Design	High-efficiency WLANs	
12:00-13:00		LUNCH (IC&SR	Dining Hall)		
13:00-14:30	Amod Anandkumar & Tabrez Khan	Uday Khankhoje (IIT Madras),	Kumar Appaiah (IIT Bombay), MIMO	Mitesh Khapra (IIT Madras), Deep	
	(Mathworks), Hands-On Tutorial –	Computational Electromagnetics and	Optical Communications	Learning	
	Prototyping MATLAB & Simulink models	Remote Sensing			
	on DSPs, FPGAs, and SDRs				
14:30-14:45		Tea/Coffee Break (IC	&SR Dining Hall)		
14:45-16:00	Amod Anandkumar & Tabrez Khan	Uday Khankhoje (IIT Madras),	Kumar Appaiah (IIT Bombay), MIMO	Mitesh Khapra (IIT Madras), Deep	
	(Mathworks), Hands-On Tutorial –	Computational Electromagnetics and	Optical Communications	Learning	
	Prototyping MATLAB & Simulink models	Remote Sensing			
	on DSPs, FPGAs, and SDRs				
16:00-17:30	National Instruments SESSION (IC&SR Auditorium)				
18:00-18:30	INAUGURATION (IC&SR Auditorium)				
18:30-19:30	Lecture-Demonstration by Sriram Paras	Lecture-Demonstration by Sriram Parasuram: "Classical Music - A Powerful and Effective Communicative Medium" (IC&SR Auditorium)			
19:30	DINNER (IC&SR Dining Hall)				
	JTG MEETING				

	FRIDAY March 3, 2017					
8:30-9:30	Plenary talk: Mischa Dohler, King's College London, "Internet of Skills - Where 5G, Robotics and AI Meet" (IC&SR Auditorium)					
Friday	Session1 -F1A -Comm-Coding and Information Theory - I	Session1 - F1B-Networks - Protocols, Algorithms and Applications - I	Session1 - F1C- SP - Speech Processing - I	Session1 - F1D - SP - Computer Vision - I		
Room	IC&SR Auditorium	IC&SR Hall 1	IC&SR Hall 2	IC&SR Hall 3		
Session Chair	Navin Kashyap (IISc Bangalore)	Bheemarjuna Reddy Tamma (IIT Hyderabad)	Hema A Murthy (IIT Madras)	Shanmuganathan Raman (IIT Gandhinagar)		
9:50-10:20	<b>Invited:</b> Liam Barry (Dublin City University), All-optical wavelength conversion for fast reconfigurable optical networks	Invited: Parimal Parag (IISc Bangalore), Latency Analysis for Distributed Storage	<b>Invited:</b> Sri Garimella (Amazon), Overview of Amazon Echo's Speech Recognition System	Invited: Ashok Veerararaghavan (Rice University, USA), Computational Imaging: Beyond the limits imposed by lenses		
10:20-10:40	On Fractional Linear Network Coding Solution of Multiple-Unicast Networks, Niladri Das and Brijesh Kumar Rai (Indian Institute of Technology Guwahati, India)	UDA: Fast Transport Protocol for D2D Networks over WiFi, Divyansh Singh, Veerendra Singh, Aniesh Chawla and Somit Pangtey (IIT Delhi, India); Vinay J. Ribeiro (IIT, Delhi, India)	Addressing Data Sparsity in DNN Acoustic Modeling, Seeram Tejaswi and Umesh S (IIT Madras)	Computationally Efficient Deep Tracker: Guided MDNet, Pallavi Venugopal, Deepak Mishra and Gorthi R K Sai Subrahmanyam (Indian Institute of Space Science and Technology)		
10:40-11:00	A Linear Programming Based Channel Coding Strong Converse for the BSC and BEC, Sharu Jose and Ankur A. Kulkarni (Indian Institute of Technology Bombay, India)	Enhanced Transmission Control Protocol for Space Network: A COTS Implementation, Sangita Dhara (Indian Institute of Technology Kharagpur, India); Raja Datta (IIT, Kharagpur, India); Kalyankumar Bandyopadhyay (IIT Kharagpur, India)	A Comparative Study on the Effect of Different Codecs on Speech Recognition Accuracy Using Various Acoustic Modeling Techniques, Srinivasa Raghavan, Nisha Meenakshi, Sanjeev Kumar Mittal and Chiranjeevi Yarra (IISc Bangalore), Anupam Mandal and K R Prasanna Kumar (Center for Al and Robotics, Bangalore), Prasanta Kumar Ghosh (IISc Bangalore)	Non-negative Matrix Factorization Based Illumination Robust Meanshift Tracking, Gargi Phadke, Rajbabu Velmurugan and Shubham Dawande (IIT Bombay)		
11:00-11:20	Coding Theorems Using Renyi Information Measures, Himanshu Tyagi (Indian Institute of Science, India)	Dual-mode TCP: An Alternative Approach for Delay Tolerant Networks, Gulshan Gupta (IIST, India); Sarath Babu (IIST, India); Manoj Bs (Indian Institute of Space Science and Technology & California Institute of Telecommunication and IT, India)	Investigative Study of Various Activation Functions for Speech Recognition, Hari Vydana and Anil Kumar Vuppala (IIIT hyderabad)	Evaluation of Feature Channels for Object Tracking in RGB and Thermal Imagery Using Correlation Filter, Asha C. S.and V Narasimhadhan A (NIT Karnataka)		
			Dining Hall)			

Friday	Session2 -F2A -Comm - Channel	Session2 - F2B -Networks - Protocols,	Session2 - F2C-SP - Music Signal	Session2 - F2D-SP - Signal
	Estimation	Algorithms and Applications - II	Processing	Processing for Radar and
Deam				
Room	IC&SR Auditorium	IC&SR Hall 1	IC&SR Hall 2	IC&SR Hall 3
Session Chair	Rajesh Sundaresan (IISc Bangalore)	Nikhil Karamchandani (IIT Bombay)	Padmanabhan Rajan (IIT Mandi)	Uday Khankhoje (IIT Madras)
11:40-12:00	Pilot Based Channel Estimation for	Enhancing Performance of Victim Macro	Melodic Shape Stylization for Robust	BLMS and FBLMS-Based Adaptive
	Frequency Selective Multi-user MIMO MC-	Users via Joint ABSF and Dynamic Power	and Efficient Motif Detection in	Time Varying RCS Estimation and 2D-
	CDMA Systems, Apoorva Chawla (Indian	Control in LTE HetNets, Deepa Martolia	Hindustani Vocal Music, Kaustuv Kanti	Imaging for Monostatic MIMO Radar
	Institute of Technology Kanpur, India);	(IIT Hyderabad, India); Vanlin Sathya	Ganguli (IIT Bombay & ITC Sangeet	Systems, Saumya Dwivedi, Archana
	Naveen K.D Venkategowda (Korea	(University of Chicago, India); Anil kumar	Research Academy), Ashwin Lele,	Rawat and Aditya K Jagannatham (IIT
	University, Korea); Aditya K Jagannatham	Rangisetti (IIT HYDERABAD, India);	Saurabh Pinjani and Preeti Rao (IIT	Kanpur)
	(Indian Institute of Technology Kanpur,	Bheemarjuna Reddy Tamma (IIT	Bombay), Ajay Srinivasamurthy (Idiap	
	India)	Hyderabad, India); Antony Franklin A (IIT	Research Institute), Sankalp Gulati	
		Hyderabad, India)	(Universitat Pompeu Fabra)	
12:00-12:20	Frequency Synchronization and Channel	Maximizing the Throughput of Duty-	Music Genre Classification by Fusion of	Approximations to Detectors for
	Estimation for OFDM/OQAM Signals	Cycle Based Licensed-Assisted Access in	Modified Group Delay and Melodic	Gaussian Targets in Compound
	Transmitted Through Rayleigh Fading	the Unlicensed Band, Amudheesan	Features, Rajeev Rajan and Hema A	Gaussian Clutter Using MIMO Radar,
	Channels, Prem Singh and Kasturi	Aadhithan N (IIIT Bangalore, India);	Murthy (IIT Madras)	Anish Turlapaty (VR Siddhartha
	Vasudevan (Indian Institute of Technology	Prashant K Wali (PESIT South Campus,		Engineering College)
	Kanpur, India)	India); Debabrata Das (IIIT - Bangalore,		
		India)		
12:20-12:40	Optimal Pilot Design for Channel	Architectural Challenges and Solutions	An Approach to Transcription of	GLRT Based Subspace Detector for
	Estimation in Single/Multicarrier Block	for Collocated LWIP - A Network Layer	Varnams in Carnatic Music Using	Joint Target Detection and Imaging in
	Transmission Systems, Manjeer Majumder,	Perspective, Thomas Valerrian Pasca S,	Hidden Markov Models, Krishnaraj	Monostatic MIMO-OFDM Radar
	Ankit Kudeshia, Aditya K Jagannatham (IIT	Amogh PC and Debashisha Mishra,	Sekhar PV (IIT Madras), Venkata	Systems, Saumya Dwivedi and Aditya
	Kanpur, India)	Nagamani Dheeravath, Anil kumar	Viraraghavan (TCS), Sridharan Sankaran	K Jagannatham (IIT Kanpur)
		Rangisetti, Bheemarjuna Reddy Tamma,	(IIT Madras and TCS) and Hema A	
		Antony Franklin A (IIT Hyderabad, India)	Murthy (IIT Madras)	
12:40 -13:00	A ML Detection for UWA Communication	Sniffer-based Inference of the Causes of	Raga Identification Using Locality	Implementation of Digital Pre-
	with Nakagami Fading and GG Noise,	Active Scanning in WiFi Networks,	Sensitive Hashing, Padmasundari G and	Distortion for Power Amplifier
	Snigdha Bhuyan, Siddharth Deshmukh,	Dheryta Jaisinghani, Vinayak Naik and	Hema A Murthy (IIT Madras)	Linearisation in Software Defined
	Ravi Tiwari (NIT Rourkela, India)	Sanjit Kaul (IIIT Delhi, India); Sumit Roy		Radio, Krishnakumar Sreedharan Pillai,
		(University of Washington, USA)		Sagar S., Shine Kilacha Parambeth,
				Prem Krishnan N. (CDAC)
		13:00-14:20 LUNCH (IC&SR Di	ning Hall)	

Friday	Session3 -F3A-Comm-Cellular networks	Session3 - F3B -Optical	Session3 - F3C-SP - Speech and Audio	Session3 - F3D-SP - Computer
	I	Communication	Processing	Vision - II
Room	IC&SR Auditorium	IC&SR Hall 1	IC&SR Hall 2	IC&SR Hall 3
Session Chair	Neelesh B. Mehta (IISc Bangalore)	Liam Barry (Dublin City University)	C. S. Ramalingam (IIT Madras)	Arnav Bhavsar (IIT Mandi)
14:20-14:50	Invited: Jishnu (Tejas Networks),	Invited: Ezra Ip (NEC Labs), Recent	Invited: Mrityunjoy Chakraborty (IIT	Invited: Aswin Sankaranarayanan
	Rethinking Communication Network	Advances in Mode-Division Multiplexed	Kharagpur), Sparse Adaptive Filters - an	(CMU), Unconstrained 3D Imaging
	Architecture	Transmission using Few-Mode Fibers	Overview and Some Emerging Trends	
14:50-15:10	Sojourn Time Based Maximum Likelihood	Impact of Multimode Fiber Core Radius	Fusion of Spectral and Prosodic	Hashing in the Zero Shot Framework,
	Estimator for Velocity Estimation in	and Operating Wavelength in Mode-	Information Using Combined Error	Shubham Pachori; Shanmuganathan
	HetNets, Ravi Tiwari (NIT Rourkela, India);	Field Diameter Matched Twin Spot	Optimization for Keyword Spotting,	Raman (IIT Gandhinagar)
	Siddharth Deshmukh (National Institute Of	Launching Technique, Thomas Joseph	Laxmi Pandey, Kuldeep Chaudhary and	
	Technology, Rourkela, India)	(IIT Bombay, India); Joseph John (IIT	Rajesh M Hegde (IIT Kanpur)	
		Bombay)		
15:10-15:30	Residual Energy Maximization in	Regeneration of 10 Gbps BPSK Signals	Voice Activity Detection for Children's	Object Counting in a Single
	Cooperative Spectrum Sensing with Energy	Through Phase Sensitive Amplification	Read Speech in Noisy Conditions,	Surveillance Image, Jivnesh Sandhan,
	Harvesting, Avik Banerjee and Santi Prasad	Coupled with Injection Locking, Sai Kanth	Ankita Pasad, Kamini M Sabu and Preeti	Amit Mitra and Venkatesh K
	Maity (Indian Institute of Engineering	Dacha, Arjun lyer and Aneesh Sobhanan	Rao (IIT Bombay)	Subramanian (IIT Kanpur)
	Science and Technology, Shibpur, India)	(Indian Institute of Technology Madras,		
		India); Deepa Venkitesh (IIT Madras,		
		India)		
15:30-15:50	Secrecy Outage of Cooperative Relay	Multiplexing Using Principal Modes in	Mel-Scale Sub-band Modelling for	The Semantic Multinomial
15.50-15.50			Perceptually Improved Time-Scale	Representation of Images Obtained
	Direct Link, Khyati Chopra (IIT Delhi, India);		Modification of Speech and Audio	Using Dynamic Kernel Based Pseudo-
	Ranjan Bose (IIT Delhi, India); Anupam	Appaiah (Indian Institute of Technology	Signals, Neeraj Sharma, Shreepad	concept SVMs, Shikha Gupta and
	Joshi (UMBC, USA)	Bombay, India)	Potadar, Srikanth Raj Chetupalli and	Dileep Aroor Dinesh (IIT Mandi),
		bombay, mala)	Thippur V. Sreenivas (IISc Bangalore)	Veena Thenkanidivoor (NIT Goa)
15:50-16:10	Qualcomm talk and interaction with	Approximate Design Equation for Iris	Hopfield Net Framework for Audio	
	students	Width Calculation of Iris Substrate	Search, Vandana Ladwani, Y Vaishnavi,	
		Integrated Waveguide (SIW) Bandpass	R Shreyas, B. Vinay Kumar, N. Harisha, S.	
		Filters, Ramanand Sagar Sangam and	Yogesh, P Shivaganga and	
		Rakhesh Singh Kshetrimayum (Indian	Ramasubramanian Viswanathan (PESIT -	
		<b>3</b>	Bangalore South Campus )	
		16:10-16:30 Coffee-Break (IC&SR	· ·	1

Friday	Session4 -F4A-Comm-Coding and	Session4 - F4B-Networks - Resource	Session4 - F4C-Comm - Cellular	Session4 - F4D-SP - Signal
	Information theory - II	Allocation and Optimization - I	networks - II	Processing - II
Room	IC&SR Auditorium	IC&SR Hall 1	IC&SR Hall 2	IC&SR Hall 3
Session Chair	Adrish Banerjee (IIT Kanpur)	Krishna P Jagannathan (IIT Madras)	Chandra R. Murthy (IISc Bangalore)	Rajesh M. Hegde (IIT Kanpur)
16:30-17:00	Invited: Klutto Milleth (CEWiT), Flexi-	Invited: Naveen K P (IIT Madras),	Invited: Thas Nirmalathas (University of	Invited: Praneeth Netrapalli
	OFDMA waveform for 5G	Coverage Properties of One-Dimensional	Melbourne), Integration of	(Microsoft Research), Parallelizing
		Infrastructure-Based Wireless Networks	Optical–Wireless Networks for	Stochastic Approximation Through
			Broadband Mobile Networks	Mini-Batching and Tail-Averaging
17:00-17:20	Precoder Quantization Vs Channel	Resource Pooling in Large-Scale Content	New Error Function Companding	Unsupervised Birdcall Activity
	Quantization in Interference Channel with	Delivery Systems, Srinivas Kota (Indian	Technique to Minimize PAPR in LTE	Detection Using Source and System
	Limited Feedback, Navneet Garg and	Institute of Technology, Bombay, India);	Uplink Communications, Shri Ramtej K	Features, Anshul Thakur and
	Govind Sharma (Indian Institute of	Sharayu Moharir and Nikhil	(National Institute of Technology,	Padmanabhan Rajan (IIT mandi)
	Technology Kanpur, India)	Karamchandani (Indian Institute of	Warangal, India); Anuradha S (NIT-	
		Technology Bombay, India)	Warangal, India)	
17:20-17:40	Feedback-Capacity of Degraded Gaussian	Online Adaptation Models for Resource	A New Amplify and Forward Relay	Scattering Representation in
	Vector BC Using Directed Information and	Usage Prediction in Cloud Network,	Based OFDM Cooperative	Malayalam Character Recognition,
	Concave Envelopes, Viswanathan	Shaifu Gupta (Indian Institute of	Communication System, Karunya Ch	Manjusha K, Anand Kumar M and
	Ramachandran (Indian Institute of	Technology Mandi); Dileep Aroor Dinesh	(Uurmi Systems Pvt Ltd, India); Aloob T	Soman K P (Amrita Vishwa
	Technology Bombay, India); Sibi Raj B Pillai	(Indian Institute of Technology Mandi (IIT	(UURMI SYSTEMS, India); Nanda Kishore	Vidyapeetham)
	(IIT Bombay, India)	Mandi), India)	Chavali (Uurmi Systems Pvt. Ltd. & amp;	
			IIT Hyderabad, India); JameerAli MS	
			(UURMI Systems, India)	
17:40-18:00	Jointly Broadcasting Data and Power with	Reducing Ping-Pong Handovers in LTE by	Evaluation of Spatial Correlation and Its	A High Resolution ENF Based Multi-
	Quality of Service Guarantees, Krishnan P	Using A1-Based Measurements, Malhar	Effect on Channel Capacity of Uniform	Stage Classifier for Location Forensics
	Deekshith (Indian Institute of Science,	Thakkar (Indian Institute of Technology	Planar Antenna Array, Aritra Chatterjee	of Media Recordings, Pradyumna
	India); Trupthi Chougule, Shreya Turmari,	Hyderabad, India); Lavish Agrawal (IIT	(IIT KHARAGPUR, India); Sourav	Suresha and Supriya Nagesh (Georgia
	Ramya Raju and Rakshitha Ram (PES	Hyderabad, India); Anil kumar Rangisetti	Chatterjee (Indian Institute Of	Institute of Technology), Priyadarshini
	Institute of Technology, India); Vinod	(IIT HYDERABAD, India); Bheemarjuna	Technology Kharagpur, India); Suvra	Savan Roshan (NIT Karnataka), Aditya
	Sharma (Indian Institute of Science, India)	Reddy Tamma (IIT Hyderabad, India)	Sekhar Das (Indian Institute of	Gaonkar P (Columbia University),
			Technology Kharagpur, India)	Nisha Meenakshi and Prasanta Kumar
				Ghosh (IISc Bangalore)
18:30-19:30	Plenary talk: S. C	hristopher, Secretary, Department of De	efence R & D, Chairman, DRDO (IC&SR	Auditorium)
19:30		Banquet (Venue: Op		

SATURDAY March 4, 2017					
8:30-9:30	Plenary talk: Richard Baraniuk, Rice University, USA "A Probabilistic Theory of Deep Learning" (IC&SR Auditorium)				
Saturday	Session1 -S1A -Comm-Coding and	Session1 - S1B-Networks-Resource	Session1 - S1C-Comm -Performance	Session1 - S1D-SP - Speech	
	Information theory - III	Allocation and Optimization - II	Analysis	Processing - II	
Room	IC&SR Auditorium	IC&SR Hall 1	IC&SR Hall 2	IC&SR Hall 3	
Session Chair	Dharmaraja Selvamuthu (IIT Delhi)	Venkatesh Ramaiyan (IIT Madras)	Sheetal Kalyani (IIT Madras)	Dileep Aroor Dinesh (IIT Mandi)	
9:50-10:20	Invited: Harish Krishnaswamy (Columbia	Invited: Sharayu Moharir (IIT Bombay),	Invited: Arvind Mishra (Sterlite),	Invited: Srikanth R (Microsoft India),	
	University), Full Duplex Wireless: From	Revenue Maximization in Two-Sided	Development of Next Generation	Speech recognition in the Indian	
	Fundamental Physics and Integrated	Markets	Broadband Access Technologies	Context	
	Circuits to Complex Systems and				
	Networking				
10:20-10:40	Unequal Locality and Recovery for Locally	A Distributed Algorithm for Quality-of-	Performance Analysis of Symbol	Acoustic and Language Modeling for	
	Recoverable Codes with Availability,	Service Provisioning in Multihop	Swapped Spatial Modulation, Palani	Children's Read Speech Assessment,	
	Sourbh Bhadane (Indian Institute of	Networks, Ashok Krishnan K. S. and	Maheswaran (IIITD&M Kancheepuram,	Hitesh R Tulsiani, Prakhar Swarup and	
	Technology Madras, India); Andrew	Vinod Sharma (Indian Institute of	India); Mandha Damodaran Selvaraj	Preeti Rao (IIT Bombay)	
	Thangaraj (IIT Madras, India)	Science, India)	(IIITD&M, India)		
10:40-11:00	Sum-networks: Dependency on	AMPS: Application Aware Multipath Flow	Outage Analysis of DF Based SIMO-	DNN Acoustic Models for Dysarthric	
	Characteristic of the Finite Field Under	Routing Using Machine Learning in SDN,	RF/FSO System with Selection	Speech, Seeram Tejaswi and Umesh S	
	Linear Network Coding, Niladri Das and	Thomas Valerrian Pasca S and Siva	Combining at Relay, Neha Singhal	(IIT Madras)	
	Brijesh Kumar Rai (Indian Institute of	sairam prasad Kodali (IIT Hyderabad,	(Indira Gandhi Delhi Technical		
	Technology Guwahati, India)	India); Kotaro Kataoka (Indian Institute of	University, India); Ankur Bansal (Netaji		
		Technology Hyderabad, India)	Subhas Institute of Technology,		
			University of Delhi, New Delhi, India);		
			Ashwani Kumar (Indra Gandhi Delhi		
			Technical University, India)		
11:00-11:20	A Maximization Problem Related to	Truthful Reverse Auction for Relay	Performance of Multiuser	Improving Children Speech	
			Communication System Using Phase	Recognition in Acoustically	
	Navin Kashyap (Indian Institute of Science,	3	Coded Linear Chirp Modulation, Arijit	Mismatched Condition Using	
		Mvs (IIT Bombay, India); Pola Priyanka (IIT		Eigenvoices and Feature Projections,	
			Nemade (IIT India); Ratnajit	Hemant Kathania (NIT Sikkim), Syed	
		•	Bhattacharjee (IIT Guwahati, India)	Shahnawazuddin (NIT Patna) and	
				Rohit Sinha (IIT Guwahati)	
		11:20-11:40 Coffee-Break (IC&SR	Dining Hall)		

Saturday	Session2 -S2A - Comm - Decentralized	Session2 - S2B-Comm-Antenna Design	Session2 - S2C-SP - Speech	Session2 - S2D-SP - Signal
	networks		Processing - III	Processing - II
Room	IC&SR Auditorium	IC&SR Hall 1	IC&SR Hall 2	IC&SR Hall 3
Session Chair	Himanshu Tyagi (IISc Bangalore)	Mohammad Hashmi (IIIT Delhi)	Shajith Ikbal (IBM IRL)	Hema A Murthy (IIT Madras)
11:40-12:00	Optimal Routing and Data Transmission	Gain Enhancement of a Microstrip Patch	Classification of Healthy Subjects and	Distributed Asynchronous Localization
	for Multi-Hop D2D Communications Under	Antenna Using a Novel Frequency	Patients with Essential Vocal Tremor	over WSNs via Non-Convex
	Stochastic Interference Constraints,	Selective Surface, Adeline Mellita and	Using Empirical Mode Decomposition	Consensus ADMM, Sandeep Kumar
	Sireesha Madabhushi (IISc Bangalore,	Chandu DS, Sholampettai Subramanian	of High Resolution Pitch Contour,	and Ketan Rajawat (IIT Kanpur)
	India); Govind Gopal (UC San Diego, USA);	Karthikeyan (IIITDM, Kancheepuram,	Mekhala H S (RV College of	
	Chandra R Murthy (Indian Institute of	India)	Engineering), Yamini B K, Ketan J, Pal P	
	Science, India)		and Shivashankar N (NIMHANS),	
			Prasanta Kumar Ghosh (IISc Bangalore)	
12:00-12:20	Random Access Retransmission Scheme	On-Body Resilient SIW Based Antenna	Perceptual Evaluation of Simulated	Usefulness of Linear Prediction
	for Power Limited Nodes, Karthik	for WBAN Applications, Divya Chaturvedi	Auditory Source Width Expansion, Arthi	Residual Signal for Development of
	Nagasubramanian (Samsung Research	(NIT Trichy, India)	S (IISc Bangalore), Adhithya K R (NIT	Replay Attacks Detection System,
	Institute Bangalore, India); Muni Sreenivas		Calicut) and Thippur V. Sreenivas (IISc	Madhusudan Singh (NIT Nagaland)
	Pydi (IISc Bangalore, India)		Bangalore)	
12:20-12:40	An Accurate Channel Model for Optimizing	Multi-Constrained Array Synthesis Using	Exploration of Phase Information for	Vowel Onset Point Based
	Effect of Non-LOS Component in RF	Ant Lion Optimization with Penalty	Speech Emotion Classification, Suman	Characterization of Velopharyngeal
	Energy Transfer, Sidharth Kumar, Deepak	Function Method, Prerna Saxena (VNIT,	Deb and Samarendra Dandapat (IIT	Activity Using Imaging Techniques,
	Mishra and Swades De (IIT Delhi, India)	Nagpur, India); Ashwin Kothari (VNIT,	Gandhinagar)	Protima Nomo Sudro, Vikram Cm and
		Nagpur)		S. R. Mahadeva Prasanna (IIT
				Guwahati)
12:40 -13:00	Realistic Indoor Path Loss Modeling for	Design of a Via-Less, Compact CPW-fed	Capturing Indian Phonemic Diversity	Parameter Estimation of a Moving
	Regular WiFi Operations in India, Hemant	ZOR Antenna for WLAN Applications,	with Multiple Posteriorgrams for	Acoustic Source: Linear Chirplet
	Kumar Rath (Tata Consultancy Services,	Vivek Dhondiram Mundhe (Visvesvaraya	Multilingual Query-by-Example Spoken	Transform Vs WVD (Sai Gunaranjan
	India); Sumanth Timmadasari (IIT Madras,	National Institute of Technology, India);	Term Detection, Abhimanyu Popli (IIT	Pelluri; Thippur V. Sreenivas (IISc
	India); Bighnaraj Panigrahi and Anantha	Joydeep Sengupta (Visvesvaraya National	Delhi & CDOT) and Arun Kumar (IIT	Bangalore))
	Simha (Tata Consultancy Services, India)	Institute of Technology, Nagpur &	Delhi)	
		Visvesvaraya National Institute of		
		Technology, Nagpur, India); Vinay Kumar		
		(Visvesvaraya National Institute of		
		Technology Nagpur, India)		
		13:00-14:20 LUNCH (IC&SR Dir	ning Hall)	

Session3 -S3A-Comm- Communication	Session3 - S3B-Comm - Microwave Design	Session3 - S3C-SP - Speech and	Session3 - S3D-SP - Image Processing and Computer Vision
			IC&SR Hall 3
		Ramasubramanian Viswanathan (PESIT Bangalore South Campus)	Rajbabu Velmurugan (IIT Bombay)
Posts and Telecommunications), Load	Wireline communication: The backbone	<b>Invited:</b> Shajit Ikbal (IBM-IRL), Document Extraction and Understanding	<b>Invited:</b> Oliver Cossairt (Northwestern University), SAVI: Synthetic Apertures for long-range, sub-diffraction Visible Imaging Using Fourier Ptychography
Systems, Arjun R and Ishan Bhadauria (IIT Bombay, India); Harshal Shah (IIT BOMBAY, India); Vivek Sangwan (Indian Institute of Technology Bombay, India); Vikram M. Gadre (IIT Bombay, India)	Based on 3 $\lambda$ /4 Resonator Loaded with Stepped Impedance, Satya Krishna Idury (IIITD&M, Kancheepuram, India); Rusan Kumar Barik (IIITDM, India); Sholampettai Subramanian Karthikeyan (IIITDM,	Synthesized Speech Using Speech Specific Features, Bidisha Sharma and S. R. Mahadeva Prasanna (IIT Guwahati)	Simultaneous Blur Map Estimation and Deblurring of A Single Space- variantly Defocused Image, Latha H. Narayan, Kranti K Parida and Rajiv Ranjan Sahay (IIT Kharagpur)
ISI Channels, Swaroop Jacob (Indian	with a Systematic Design Procedure,	Pitch Prediction from Mel-Frequency Cepstral Coefficients Using Sparse Spectrum Recovery, Achuth Rao MV and Prasanta Kumar Ghosh (IISc Bangalore)	Local Segment-based Dense Depth Reconstruction from Very Sparsely Sampled Data, Chandra Shaker Balure (NIT Karnataka), Arnav Bhavsar (IIT Mandi) and Ramesh M Kini (NIT Karnataka)
Linear Beamforming for Single User MIMO System, Nanda Kishore Chavali (Uurmi Systems Pvt. Ltd. & IIT Hyderabad), Kiran	Using a High Slow Wave Structure, Kanaparthi V Phani Kumar, Rusan Kumar Barik, Satya Krishna Idury, Sholampettai	A Semi-Automatic Method for Transcription Error Correction for Indian Language TTS Systems, Swetha Thanamala, Jeena Prakash and Hema A Murthy (IIT Madras)	Optic Disc Detection Using Vessel Characteristics and Disc Features, Ambika Sharma (IIT Delhi)
(Indian Institute of Technology, Indore,	Nath Yadav (Indian Institute of Information Technology Guwahati, India);		A Study of Interdependence Between Vessel Enhancement and Registration for Lung 4D-CT, Tejas Lunawat, Suramya Gupta and Arnav Bhavsar (IIT mandi)
	IteoryIC&SR AuditoriumRadha Krishna Ganti (IIT Madras)Radha Krishna Ganti (IIT Madras)Invited: Zhang Ping (Beijing University of Posts and Telecommunications), Load Balancing in Small Cell Networks Using User Equipment TransferFilterbank Multicarrier-QAM for MIMO Systems, Arjun R and Ishan Bhadauria (IIT Bombay, India); Harshal Shah (IIT BOMBAY, India); Vivek Sangwan (Indian Institute of Technology Bombay, India); Vikram M. Gadre (IIT Bombay, India)Single-carrier Media-based Modulation in ISI Channels, Swaroop Jacob (Indian Institute of Science, Bangalore, India); A. Chockalingam (Indian Institute of Science, India)On the Relation Between Non-linear Pre- equalization with Post-processing and Linear Beamforming for Single User MIMO System, Nanda Kishore Chavali (Uurmi Systems Pvt. Ltd. & IIT Hyderabad), Kiran Kuchi (IIT Hyderabad), Umapathi Reddy (IIT Hyderabad)A Non-coherent UWB Receiver Using Signal Cluster Sparsity, Sanjeev Sharma (India); Vimal Bhatia (Indian Institute of Technology Indore, India); Anubha Gupta (Indraprastha Institute of Information	theoryDesignIC&SR AuditoriumIC&SR Hall 1Radha Krishna Ganti (IIT Madras)Kumar Appaiah (IIT Bombay)Invited: Zhang Ping (Beijing University of Posts and Telecommunications), Load Balancing in Small Cell Networks Using User Equipment TransferInvited: Saurabh Saxena (IIT Madras), Wireline communication: The backbone of data transferFilterbank Multicarrier-QAM for MIMO Systems, Arjun R and Ishan Bhadauria (IIT Bombay, India); Harshal Shah (IIT BOMBAY, India); Vivek Sangwan (Indian Institute of Technology Bombay, India); Vikram M. Gadre (IIT Bombay, India); Vikram M. Gadre (IIT Bombay, India); Vikram M. Gadre (IIT Bombay, India); Single-carrier Media-based Modulation in ISI Channels, Swaroop Jacob (Indian Institute of Science, Bangalore, India); A. Chockalingam (Indian Institute of Science, Bangalore, India); A. Chockalingam (Indian Institute of Science, Bangalore, India); A. Chockalingam (Indian Institute of Science, System, Nanda Kishore Chavali (Uurmi Systems Pvt. Ltd. & IIT Hyderabad), Kiran Kuchi (IIT Hyderabad), Umapathi Reddy (IIT Hyderabad), Umapathi Reddy (IIT Subramanian Karthikeyan (IIITDM, Kancheepuram, India)Salanced-to-Unbalanced Out-of-Phase Wilkinson Equal Power Divider, Amar Nanda Kishore Chavali (Uurmi Systems Pvt. Ltd. & IIT Hyderabad), Kiran Kuchi (IIT Hyderabad), Umapathi Reddy (IIT Subramanian Karthikeyan (IIITDM, Kancheepuram, India)A Non-coherent UWB Receiver Using Signal Cluster Sparsity, Sanjeev Sharma (India); Nimal Bhatiu (Indian Institute of Information Technology Guwahati, India); Ratnajit Bhattacharjee (Indian Institute of Information Technology, Guwahati, India)A Non-coherent UWB Receiver Using Signal Cluster Sparsity, Sanjeev Sharma (India); Vimal Bhatia (Indian Institute of <br< td=""><td>theoryDesignLanguage ProcessingIC&amp;SR AdditoriumIC&amp;SR Hall 1IC&amp;SR Hall 2Radha Krishna Ganti (IIT Madras)Kumar Appaiah (IIT Bombay)Ramasubramanian Viswanathan (PESIT Bangalore South Campus)Invited: Zhang Ping (Beijing University of Posts and Telecommunications), Load Balancing in Small Cell Networks Using User Equipment TransferInvited: Saurabh Saxena (IIT Madras), Wireine communication: The backbone of data transferInvited: Shajit Ikbal (IBM-IRL), Document Extraction and UnderstandingFilterbank Multicarier-QAM for MIMO Systems, Arjun R and Ishan Bhadauria (IIT Bombay, India); Harshal Shah (IIT BOMBAY, India); Yivek Sangwan (Indian Institute of Technology Bombay, India); Vikram M. Gadre (IIT Bombay, India)A Miniaturized Wideband Bandpass Filter Based on 3J/4 Resonator Loaded with Stepped Impedance, Satya Krishna Idury, India); Yivek Sangwan (Indian Institute of Technology Bombay, India); Vikram M. Gadre (IIT Bombay, India)Single-carrier Media-based Modulation in Istitute of Science, Bangalore, India); A Rahul Gupta (IIIT Dehi, India); Alay Yadau (IITD, India)Pitch Prediction from Mel-Frequency Ceptrat Coefficients Using Sparse Rahul Gupta (IIIT Dehi, India); Alay Yadau (System, Nanda Kishore Chavali (Jurmi System N. 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Saturday	Session4 -S4A -Comm-Cognitive networks	Session4 - S4B-Networks-Wireless Networks and Applications	Session4 - S4C-Comm-Coding and Information theory - IV	Session4 - S4D-SP - Signal Processing - III
Room	IC&SR Auditorium	IC&SR Hall 1	IC&SR Hall 2	IC&SR Hall 3
Session Chair	Swades De (IIT Delhi)	K. P. Naveen (IIT Madras)	Ranjan K. Mallik (IIT Delhi)	Rohit Sinha (IIT Guwahati)
16:30-17:00	<b>Invited:</b> Rohit Budhiraja (IIT Kanpur), Joint Transceiver Design for QoS-Constrained MIMO Two-Way Non-Regenerative Relaying Using Geometric Programming	Invited: Viswanadha Reddy (IIT Madras), Strategic and computational trade-offs in endogenous coalition formation	<b>16:30-16:50</b> Non-constructive Lower Bounds for Binary Asymmetric Error Correcting Codes, Parthe Pandit (University of California, Los Angeles, USA); Ankur A. Kulkarni (IIT Bombay, India)	<b>16:30-16:50</b> Automatic Modulation Classification by Exploiting Cyclostationary Features in Wavelet Domain, Sushant Kumar; Vivek A Bohara; Sumit Jagdish Darak (IIIT Delhi)
17:00-17:20	Active Interference Cancellation Based Optimal Power Loading for OFDM Cognitive Radio, Manoranjan Rai Bharti (IIT Roorkee, India); Debashis Ghosh (IIT Roorkee, India)	CAIL: Cross-calibration for Accurate Indoor Localization Without Extensive Site Survey, Shweta Sood, Geetali Tyagi, Vinayak Naik and Rizwana Ahmad (IIIT Delhi, India)	<b>16:50-17:10</b> Analyzing Secrecy of Delay Constrained System in Cooperative Relay Environment Using Rateless Codes, Sonam Jain (Indian Institute of Technology Delhi, Hauz Khas, India); Sarbani Ghose (Indian Institute of Technology, Delhi, India); Ranjan Bose (Indian Institute of Technology, India)	<b>16:50-17:10</b> Role of Voice Activity Detection Methods for the Speakers in the Wild Challenge, Sarfaraz Jelil, Rohan Kumar Das, S. R. Mahadeva Prasanna and Rohit Sinha (IIT Guwahati)
17:20-17:40	On Optimal Power Allocation for Energy Efficient Multicasting over Cognitive Radio Fading Channels, Sangeeta Bhattacharjee (Indian Institute of Engineering Science and Technology, Shibpur, India); Tamaghna Acharya (Indian Institute of Engineering Science and Technology Shibpur, India); Uma Bhattacharya (Bengal Engineering & Science University, Shibpur, India)	Realistic Directional Antenna Suite for Cooja Simulator, Shamanth Nagaraju (BITS PILANI K. K. BIRLA GOA CAMPUS, India); Vishwesh Rege (UCSD, USA); Lucy J Gudino (BITS Pilani, K K Birla Goa Campus, India); Ramesha C K (Birla Institute of Technology(BITS)Pilani, K. K. Birla Goa Campus, India)	<b>17:10-17:30</b> Generalized Fano and non- Fano Networks, Niladri Das and Brijesh Kumar Rai (Indian Institute of Technology Guwahati, India)	<b>17:10-17:30</b> Detection of Global Abnormal Events in Crowded Scenes, N Patil (IIT Kharagpur)
17:40-18:00	Improved Estimation of TV White Spaces in India Using Terrain Data, Rakesh Gorrepati (IIIT-Hyderabad, India); Abhignya Eturu (Syracuse University, USA); Sachin Chaudhari (International Institute of Information Technology, India); Jan Oksanen (Aalto University, Finland)			