

**FIFTEENTH NATIONAL CONFERENCE ON COMMUNICATIONS
NCC 2009
PROGRAMME SCHEDULE**

DAY 01: 16.01.2009 (FRIDAY)		DAY 02: 17.01.2009 (SATURDAY)		DAY 03: 18.01.2009 (SUNDAY)	
TIME (Hrs.)	EVENT	TIME (Hrs.)	EVENT	TIME (Hrs.)	EVENT
08:30 ONWARDS	REGISTRATION	08:30 ONWARDS	REGISTRATION	08:30 ONWARDS	REGISTRATION
09:00 - 12:00	TUTORIAL 01	09:00 - 09:45	PLENARY TALK 01	09:00 - 09:45	PLENARY TALK 03
	TUTORIAL 02	10:00 - 11:30	TECHNICAL SESSION 01	10:00 - 11:30	TECHNICAL SESSION 05
	TUTORIAL 06	11:35 - 12:35	TECHNICAL SESSION 02	11:35 - 12:35	TECHNICAL SESSION 06
LUNCH BREAK		LUNCH BREAK		LUNCH BREAK	
13:00 - 16:00	TUTORIAL 03	13:30 - 15:00	TECHNICAL SESSION 03	13:30 - 15:00	TECHNICAL SESSION 07
	TUTORIAL 04	15:05 - 16:35	TECHNICAL SESSION 04	14:00 - 17:00	WORKSHOP
	TUTORIAL 05	16:45 - 17:30	PLENARY TALK 02	17:00 - 17:30	VALEDICTORY FUNCTION
16:30 - 17:30	INAUGURAL FUNCTION	18:00 - 19:00	CULTURAL PROGRAMME		
DINNER		CONFERENCE DINNER			

TUTORIAL SESSIONS

Date: 16.01.09, Time: 09:00 - 12:00

TUTORIAL 01	Title: SCALABLE VIDEO CODING Speaker: PROF. V. M. GADRE, IIT BOMBAY
TUTORIAL 02	Title: IPv4 AND SENSOR NETWORK Speaker: PROF. L. TOUTAIN AND PROF. C. CHAUDET, ENST BRETAGNE
TUTORIAL 06	Title: CARDIOVASCULAR SIGNAL PROCESSING Speaker: PROF. S. DANDAPAT, IIT GUWAHATI
Date: 16.01.09, Time: 13:00 - 16:00	
TUTORIAL 03	Title: NETWORK ERROR CORRECTING CODES Speaker: PROF. B. SUNDAR RAJAN, IISc. BANGALORE
TUTORIAL 04	Title: DESIGN OF A NETWORK MANAGEMENT SERVER Speaker: PROF. TIMOTHY A. GONSALVES, IIT MADRAS
TUTORIAL 05	Title: NEW GENERATION PLANAR ANTENNAS FOR WIRELESS APPLICATIONS Speaker: PROF. D. GUHA, INST. OF RADIO PHYSICS & ELECTRONICS, UNIV. OF CALCUTTA

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PLENARY TALK		
PLENARY TALK 01 Date: 17.01.09 Time: 09:00 - 09:45	Title: <i>ON INFORMATION THEORY FOR WIRELESS CHANNELS</i> Speaker: PROF. VINOD SHARMA, IISc. BANGALORE	
PLENARY TALK 02 Date: 17.01.09 Time: 16:45 - 17:30	Title: <i>WIRELESS TALES FROM A GLOBTROTTING PROFESSOR</i> Speaker: PROF. VIJAY K. BHARGAVA, UNIV. OF BRITISH COLUMBIA, CANADA	
PLENARY TALK 03 Date: 18.01.09 Time: 09:00 - 09:45	Speaker: PROF. A. K. CHATURVEDI, IIT KANPUR	
TECHNICAL SESSIONS		
TECHNICAL SESSION 01 Date: 17.01.09 Time: 10:00 - 11:30	PAPER ID	PAPER TITLE
COM 1: Communication Systems - I	1569144131	<i>Delay-optimal Rectangular Real Orthogonal Designs from Cayley-Dickson Algebra</i>
	1569144355	<i>Constellation Constrained Capacity region of Two-User Gaussian Multiple Access Channel</i>
	1569144530	<i>A High Performance and Low Power TCAM Solution for Packet Forwarding in Communication</i>
	1569144644	<i>Design and Implementation of Early-Late Gate Bit Synchronizer for Satellite Communication</i>
	1569144884	<i>Identification of LPI Radar Signal Modulation using Bi-coherence Analysis and Artificial Neural Networks Techniques</i>
	1569150805	<i>Robust, Low Complexity LLRs using the Generalised Likelihood Principle</i>
SP 1: Signal Processing for Communications	1569143151	<i>An Efficient Algorithm for Cooperative Spectrum Sensing in Cognitive Radio Networks</i>
	1569144485	<i>Continuous Monitoring Techniques for a Cognitive Radio Based GSM BTS</i>
	1569144874	<i>Joint CFO and IQ Imbalance Parameter Estimation in Cooperative SFBC-OFDM Links using Precoding</i>
	1569149464	<i>DDCT for Fast Fading Spatially Multiplexed OFDM system</i>
	1569149621	<i>Analysis of DualCUSUM: a Distributed Energy Efficient Algorithm for Change Detection</i>
	1569150770	<i>Spectral Sensing for Cognitive Radio: Detection and Estimation of Adaptive Frequency Hopping Signal</i>
NW 1: Computer Networks: Routing QoS & Security	1569143087	<i>On the design of minimum cost survivable network topologies</i>
	1569143107	<i>Dynamic OFDMA Resource Allocation for QoS Guarantee and System Optimization of Best Effort and Non Real-time Traffic</i>
	1569144383	<i>Resource allocation under channel uncertainty</i>
	1569149657	<i>Bit error rate of a frequency coded quantum key distribution system</i>
	1569149671	<i>Adaptive Bandwidth Sharing for QoS Guarantee Using Feedback Loop Control and Optimization</i>
	1569167255	<i>Network Intrusion Detection using Categorical Clustering</i>

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TECHNICAL SESSION 02 Date: 17.01.09 Time: 11:35 - 12:35	PAPER ID	PAPER TITLE
COM 2: Diversity Techniques & MIMO	1569142767	<i>Diversity Multiplexing Tradeoff of SIMO Maximal-Ratio Combining Scheme</i>
	1569143071	<i>Low-Complexity Hybrid Sphere-Decoder/Markov Chain Monte-Carlo MIMO Detection</i>
	1569143701	<i>Receive Antenna Selection with Imperfect Channel Knowledge from Training</i>
	1569143707	<i>Fast Distributed Multiple Access Based Selection With Imperfect Parameter Knowledge</i>
SP 2: Biomedical Signal Processing	1569144679	<i>Schizophrenia: Identification and Classification from EEG Using Graph Theory</i>
	1569144852	<i>SVM based Identification and Classification of Schizophrenia from EEG</i>
	1569149653	<i>A Shape Theoretic Study of Classification of Brain Tumor for Diagnostics and Therapeutic Planning</i>
	1569151285	<i>Performance Evaluation of Wavelet Filters for Compression of Retinal Images</i>
SP 3: Image Processing: Segmentation & Retrieval	1569142949	<i>Determination of Storage Space in Video Applications</i>
	1569144850	<i>Krawtchouk Chromaticity Distribution Moments for Content Based Image Retrieval</i>
	1569144918	<i>Unsupervised texture segmentation based on Hadamard transform</i>
	1569150813	<i>Long Term Learning for Content Extraction in Image Retrieval</i>
TECHNICAL SESSION 03 Date: 17.01.09 Time: 13:30 - 15:00	PAPER ID	PAPER TITLE
COM 3: RF Systems & Antennas	1569143321	<i>A Modified Split-ring Defected Ground Structure and it's application as bandstop Filter</i>
	1569144914	<i>Design of a Compact Circularly Polarized square microstrip Antenna using Inductive loading</i>
	1569149401	<i>ANN for fast and accurate design of spiral inductors</i>
	1569149403	<i>UWB printed monopole antenna with a notch frequency for coexistence with IEEE 802.11a WLAN devices</i>
	1569149407	<i>SAR Distributions in a Spherical Inhomogeneous Human Head Model Exposed to Electromagnetic Field for 500 MHz – 3 GHz Using FDTD method</i>
	1569150747	<i>Compact High Rejection Level Dual-Band Bandstop Filters Using Stepped-Impedance Resonators for GSM Mobile Bands</i>
SP 4: Speech Processing & Coding	1569149179	<i>Time-Delay Estimation Using Source and Spectral Information from Speech</i>
	1569149421	<i>Improving singing voice detection in presence of pitched accompaniment</i>
	1569149427	<i>An 800 bps MBE vocoder with low delay</i>
	1569149593	<i>Entropy based measures for incorporating feature stream diversity in the linguistic search space for syllable based Automatic Annotated Recognizer</i>
	1569150329	<i>Expressive Speech Synthesis Using Prosodic Modification and Dynamic Time Warping</i>

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NW 2: Wireless Networks	1569144329	<i>MMIP: A New Dynamic IP Configuration Scheme with MAC Address Mapping for Mobile Ad hoc networks</i>
	1569149305	<i>Delay and Jitter based Multicast Path Computation in Wireless Networks: A Fuzzy Clustering Approach</i>
	1569149313	<i>A Framework for Performance Assessment of the Strategies for Integrating MANET and the Internet</i>
	1569149491	<i>A Robust Active Queue Management Algorithm for Wireless Network</i>
	1569149587	<i>A new method to solve Triangular Routing Problem</i>
	1569149631	<i>Performance Analysis of TCP Uploads in WLANs with Multiple Rates</i>
TECHNICAL SESSION 04 Date: 17.01.09 Time: 15:05 - 16:35	PAPER ID	PAPER TITLE
COM 4: Communication Systems - II	1569142437	<i>Time Interleaved Sampling for UWB Signal Processing on FPGA</i>
	1569143477	<i>An Alternate Model for Uplink Interference in CDMA Systems with Power Control</i>
	1569149205	<i>A Robust Algorithm for OFDM Synchronization with Modified Polyphase Training Sequences</i>
	1569149647	<i>Analysis of Novel Low Complexity Direct-Sequence Spread Spectrum Receiver</i>
	1569151939	<i>Time Reversal Techniques for SNR Improvement</i>
	1569152090	<i>On Primary User Detection Using Energy Detection Technique For Cognitive Radio</i>
COM 5: Coding & Encryption - I	1569144451	<i>Low Density Parity Check codes in OFDM systems</i>
	1569144844	<i>Guessing Revisited: A Large Deviations Approach</i>
	1569144906	<i>Very Low Complexity Post Processing Algorithm for Short Length Regular LDPC Codes</i>
	1569145407	<i>Hash Algorithm Based A New Secret Key Agreement Algorithm</i>
	1569149181	<i>Implementation and Applications of CORDIC Algorithm in Satellite Communication</i>
	1569149639	<i>Performance of Symmetric and Asymmetric Turbo Code for Distributed Source Coding in a Flat Fading Channel</i>
SP 5: Speech & Speaker Recognition	1569142725	<i>Single Channel Speaker Segregation using Sinusoidal Residual Modeling</i>
	1569144663	<i>Speech Recognition under Stressed Condition</i>
	1569149083	<i>Automatic Speech Recognition of Cochlear Implant-like Spectrally Reduced Speech</i>
	1569149599	<i>Feature Evaluation for Speaker Identification in Radio Communications Channel</i>
	1569150319	<i>Speaker Information using Subsegmental and Segmental Analysis of LP Residual</i>
	1569150589	<i>Maximum Likelihood Pitch Normalization for Improving Children's Speech Recognition</i>
TECHNICAL SESSION 05 Date: 18.01.09 Time: 10:00 - 11:30	PAPER ID	PAPER TITLE
COM 6: Channel Modeling, Estimation & Equalization	1569149233	<i>Impact of Fading Correlation on Adaptive Array in Cooperative Relay Networks</i>
	1569149267	<i>Decision Feedback Equalizer for MIMO DFT-spread OFDMA</i>
	1569149643	<i>Angle and Time of Arrival Statistics for a Far Circular Scattering Model</i>
	1569150271	<i>Comparative Study of Channel truncation methods for large delay spread OFDM systems</i>
	1569152129	<i>Detection in time-varying wireless channels using partial channel state information</i>

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SP6: Signal Processing: Theory & Implementation	1569144848	<i>Area efficient high speed SB/ISB architecture for AES</i>
	1569149219	<i>Real Time Implementation of 600 bps MELP vocoder</i>
	1569149266	<i>A Novel Approach for Design of Signal Matched Nonuniform Synthesis Filter Bank</i>
	1569149438	<i>A Novel Approach for Design of Signal Matched DFT Filter Bank</i>
	1569149481	<i>An Efficient Finite Precision Realization of the block Adaptive Decision Feedback Equalizer</i>
	1569151101	<i>Design and Development of VHDL Based Tunable Sine Wave Generator Using DDS Technique: Extension to FPGA Implementation</i>
NW 3: Wireless Sensor Networks & MANET	1569149055	<i>Coverage and Cost optimization of Mobile Sensor Networks</i>
	1569149297	<i>Energy Aware Optimal Routing for Mobile Wireless Sensor Networks</i>
	1569149301	<i>Analysis of the optimal path between a source and a destination in MANET</i>
	1569149303	<i>Integrated Energy Aware Mechanism for MANETs using On-demand Routing</i>
	1569151616	<i>A New Energy-Efficient and Cluster-Based Routing Algorithm for Wireless Sensor Networks</i>
	1569152061	<i>Throughput Modeling of Multihop Radial Wireless Sensor Networks</i>
TECHNICAL SESSION 06 Date: 18.01.09 Time: 11:35 - 12:35	PAPER ID	PAPER TITLE
COM 7: Cooperative Communication & Relaying	1569143975	<i>Effect of variables on the LS Estimation Error for a MIMO Rician Fading Channel</i>
	1569144038	<i>Performance Analysis of the Optimum Receiver for Decode and Forward Relaying</i>
	1569150559	<i>Performance of Regenerative Relaying at Uplink of Multi-Antenna Access Point in Nakagami-m Fading</i>
	1569152047	<i>Throughput of wireless relay networks with interference processing</i>
SP 7: Image Enhancement & Video Coding	1569142327	<i>HRD compliant single pass H.264/AVC VBR Encoding Mode</i>
	1569144660	<i>Performance Measure of Despeckling of SAR Image using Multiwavelets</i>
	1569146983	<i>A 2D Approach for Superresolution</i>
	1569150628	<i>Image Magnification based on Directed Linear Interpolation</i>
TECHNICAL SESSION 07 Date: 18.01.09 Time: 13:30 - 15:00	PAPER ID	PAPER TITLE
COM 8: Coding & Encryption - II	1569142975	<i>Joint Source-Channel Coding for Correlated Gaussian Sources Over a Gaussian MAC with Side Information</i>
	1569144460	<i>Trellis Coded Block Codes and Applications</i>
	1569149649	<i>A Square Complex OSTBC with Low PAPR for 16 Antennas</i>
	1569150457	<i>A Simple Direction-Based Lattice Decoding Algorithm for Golden Codes</i>
SP 8: Image	1569144878	<i>Krawtchouk Velocity Moments for Human Gait Recognition</i>
	1569149543	<i>An Appearance-based Approach for Consistent Tracking of Humans in Surveillance Video</i>

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Processing: Pattern Recognition	1569149545	<i>An Integrated Gesture Recognition Scheme for Human Computer Interactions</i>
	1569149971	<i>Handwritten Character Recognition Using PCA of State Space Point Distribution</i>
	1569151567	<i>Improving Character Recognition Accuracy of Tchebichef Moments by Splitting of Images</i>