

**2nd INTERNATIONAL CONFERENCE ON
RF AND SIGNAL PROCESSING SYSTEMS**

RSPS-2010

7th -9th January, 2010

**In Technical Cooperation with
IEEE, Hyderabad Section**



Organized By

**DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING**

KL University

Approved by AICTE, New Delhi, Accredited by NBA of AICTE

GREEN FIELDS, VADDESWARAM, Guntur, Andhra Pradesh, INDIA-522 502

2nd INTERNATIONAL CONFERENCE ON RF AND SIGNAL PROCESSING SYSTEMS

RSPS-2010

7th -9th January , 2010

INTRODUCTION

The days 7th ,8th and 9th January, 2010 had been the eventful days in the history of K L University Vaddeswaram, Guntur Dt., Andhra Pradesh. This conference had its main theme concentrated on **RF and Signal Processing Systems**, being organized in Technical Co-sponsorship with IEEE, Hyderabad Section. The venue of the Conference was scheduled to be in the conference halls at the College.

The conference convener was Prof.P.Siddaiah, Dean, P & D, K L University. Dr.R.Sreehari Rao Chief Controller R & D, DRDO, acting as the Conference Chair and Prof .R.V.Raja Kumar, Professor, IIT Kharagpur, acting as the Technical Program Chair.

The inauguration function was presided over by Er.K.Satyanarayana Chancellor K L University, Chief Guest of the function Dr.Y.Venakatarami Reddy,Chairman APPSC Hyderabad, Dr R Sreehari Rao, Prof. R V Raja Kumar, Prof. P Siddaiah, Prof. Vemuri Ranga delivered their speech addressing the audience about the importance of conducting RSPS-2010 at K L University. A total of 274 papers were received, out of which 117 papers were selected for presentation at the conference. A total of 117 papers were included in the proceedings and scheduled for presentation in the Technical Sessions at the conference. Papers were received from different prestigious organizations like DRDO, ISRO, BEL, ECIL and various academic institutions all over India and abroad. All the papers were organized into 18 sessions with each session dealing with specific fields. The sessions were split on both the days with parallel sessions in four halls.

Many stalwarts in the field of Electronics presented their findings and enriched the participants with their knowledge through their invited talks. The invited talks, Inaugural and Valedictory functions were conducted in the main hall.

International participants from West Germany, Italy, USA & UK participated in the conference. The delegates were provided the best accommodation in, Vijayawada during their stay. Transport was arranged to all the delegates with all feasibility to and from their accommodation. All the participants were presented with mementos for their contributions of knowledge in this conference.

THEME OF THE CONFERENCE

The conference gave a great opportunity and provided a platform to interact with highly accomplished researches in the area of RF and Signal processing. The theme of the conference encompasses all aspects of signal processing, including RF and baseband signals, and covered a wide range of applications such as communication, medical, defense and space. The two major fields of RF and Signal processing are merging into one another and is the hotspot of activity in the field of Electronics, this being the reason for the choice of RF and Signal Processing as the area of concentration in this conference.

FIELDS IN SESSIONS

SIGNAL PROCESSING

Signal processing is the analysis, interpretation, and manipulation of signals. Signals of interest include sound, images, biological signals such as ECG, radar signals, and many others. Processing of such signals includes storage and reconstruction, separation of information from noise (for example, aircraft identification by radar), compression and feature extraction (for example, speech-to-text conversion).

ANTENNA & ARRAY SIGNAL PROCESSING

Array signal processing is a part of signal processing that uses sensors that are organized in patterns, or arrays, to detect signals and to determine information about them. The most common applications of array signal processing involve detecting acoustic signals

VLSI

Very-Large-Scale Integration (VLSI) is the process of creating integrated circuits by combining thousands of transistor based circuits into a single chip. VLSI began in the 1970s when complex semiconductor and communication technologies were being developed. The microprocessor is a VLSI device. The term is no longer as common as it once was, as chips have increased in complexity into the hundreds of millions of transistors.

COMMUNICATION SYSTEMS

Communications system is a collection of individual communications networks, transmission systems, relay stations, tributary stations, and data terminal equipment (DTE) usually capable of interconnection and interoperation to form an integrated whole.

RADAR & ELECTRONIC WARFARE SYSTEMS

A radar system has a transmitter that emits radio waves, that are reflected by **the** target and detected by a receiver, typically in the same location as the transmitter. Although the radio signal returned is usually very weak, radio signals can easily be amplified. This enables a radar to detect objects at ranges where other emissions, such as sound or visible light, would be too weak to detect. Radar is used in many contexts, including meteorological detection of precipitation, measuring ocean surface waves, air traffic control, police detection of speeding traffic, and by the military.

Electronic warfare (EW) is the use of the electromagnetic spectrum to effectively deny the use of this medium by an adversary, while optimizing its use by friendly forces. Electronic warfare has three main components: electronic support, electronic attack, and electronic counter.

Electronic support (ES) is the passive use of the electromagnetic spectrum to gain intelligence about other parties on the battlefield in order to find, identify, locate and intercept potential threats or targets.

Electronic attack (EA) is the active or passive use of the electromagnetic spectrum to deny its use by an adversary. Electronic counter (EC) includes all activities related to making enemy EA activities less successful by means of protecting friendly personnel, facilities, equipment or objectives.

IMAGE PROCESSING

Image processing is any form of information processing for which the input is an image, such as photographs or frames of video; the output of image processing can be either an image or a set of characteristics or parameters related to the image. Its applications include Photography and printing, Satellite image processing, Machine Vision, Medical image processing, Face detection, feature detection, Microscope image processing and others.

RF, MICROWAVE & MILLIMETRIC WAVE SYSTEMS

Radio frequency (RF) is a frequency or rate of oscillation within the range of about 3 Hz to 300 GHz. Microwaves are electromagnetic waves with wavelengths shorter than one meter and longer than one millimeter, or frequencies between 300 megahertz and 300 gigahertz. Extremely high frequency is the highest radio frequency band. EHF runs the range of frequencies from 30 to 300 gigahertz, above which electromagnetic radiation is considered to be low (or far) infrared light, also referred to as terahertz radiation. This band has a wavelength of ten to one millimetre, giving it the name millimeter band or millimetre wave.

MOBILE & CELLULAR COMMUNICATIONS

Cellular mobile communication systems use a large number of low-power wireless transmitters to create cells-the basic geographic service area of a wireless communications system.

The remarkable change in this conference is the preconference tutorial prior to the actual conference, benefited a lot to the participants and delegates.

Pre-conference Tutorial Deliberations on 7th Jan 2010

1. **Prof. K. Giridhar**, TeNeT Group, EE Dept, IIT Madras, Chennai
Topic : Broad Band Communication Technologies & Standards
2. **Prof. G Saha**, IIT, Kharagpur
Topic : Speech Processing & Recognition
3. **Dr R JayaSree**, Ph.D, IIT, Kharagpur
Topic : Next Generation Access Solutions for Fiber to the Premises
4. **Dr.Pragasham**, Sc-F & **S. Lalitha**, Sc-F, DLRL, Hyderabad
Topic : RF System Design
5. **Vinod Geo Thomas**, Senior Software Engineer, Cranes Software International Ltd
Topic : DSP Tools
6. **Prof. Vemuri Ranga**, Cinsinaty University, USA
Topic : State of Art on VLSI & SOC.

Invited Talks

1. Chandrayana Mission - Dr. A.Bhaskara Narayana, Scientific Secretary, ISRO .
2. Green Radio - Prof. R.V. Raja Kumar, IIT, Kharagpur.
3. OFDM and MC- CDMA: Performance Comparison - Prof. V.U. Reddy, IIIT, Hyderabad
4. VLSI for Signal Processing - Prof. Vemuri Ranga, University of Cincinnati, USA
5. Recent trends & Challenges in the Satellite Communications - Dr. M.Y.S. Prasad, Associate Director, SHAR

Another highlight of this conference is the teleconference, on “Wave form Diversity, Past, Present & Future” by Prof. A.Farina, Italy, SELEX Sitermi Integrati, Italy.

One of the appreciable addition to this conference is Panel discussion on “Engineering Education – Impact on the Society” -By Prof. Vemuri Ranga, Cincinnati University, Er.K.Satyanarayana Chancellor K L University, Prof. C.B.Rama Rao, NIT Warangal, Prof.D.V.S.S.S.Sarma, NIT Warangal, Dr.S.V.Subba Rao, Deputy Director SHAR.

Another most highlight of this conference is the BANQUET at VIJAYAWADA CLUB, which entertained the delegates and participants. The pleasant ambiance and the cultural performances ,made the evening to be remembered by everyone as a memorable evening at Vijayawada.

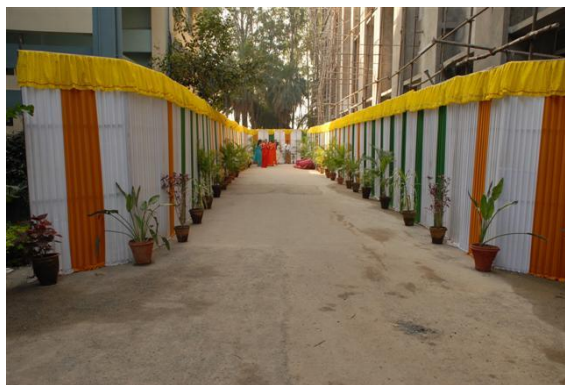
K L University welcoming Delegates & Participants



Students @ Help Desk



WAY TO CONFERENCE HALL



MAIN CONFERENCE HALL



REGISTRATION DESK



INAUGURAL FUNCTION



DELEGATES @ INAUGURAL FUNCTION



CHIEF GUEST LIGHTING THE LAMP



Er.KONERU SATYANARAYANA, CHANCELLOR, K L U



Dr.G.L.DATTA , VICE CHANCELLOR, K L U



Dr.Y.VENKATARAMI REDDY, CHIEF GUEST



Dr.P.SIDDAIAH , CONVENER RSPS-2010



Dr.R.SREEHARI RAO , CONFERENCE CHAIR



Prof. R.V.RAJA KUMAR, TECHNICAL PROGRAMME CHAIR



KLU



Dr. A.Bhaskara Narayana presenting the prototype of Chandrayana to the Chancellor K L U



RELEASE OF e-PROCEEDINGS



RELEASE OF SOUVENIR



RELEASE OF PROCEEDINGS

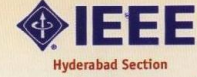


2nd INTERNATIONAL CONFERENCE ON RF AND SIGNAL PROCESSING SYSTEMS (RSPS - 2010)



Programme Schedule

In Technical cooperation with



Department of
ELECTRONICS & COMMUNICATION ENGINEERING
K L UNIVERSITY

8 - 9 Jan, 2010

PROGRAM SCHEDULE

INAUGURAL FUNCTION		Friday 08 Jan 2010
Time	Programme	
08:00 - 09:20	Registration for International Conference (RSPS-2010)	
09:30 - 10:15	Inaugural Session	
10:15 - 10:30	High Tea	
Plenary Talks		
10:30 - 11:15	RF and Signal Processing Systems - Dr.R.Sree Hari Rao, CC, R&D, DRDO	
11:15 - 12:00	Future Mobile Internet - Prof. Rahimtafazoli, University of surrey, U.K	

INTERNATIONAL CONFERENCE ON RF AND Signal Processing Systems (RSPS-2010)-Schedule Friday, 08 Jan 2010			
12:00 - 13:30 Sessions 1, 2, 3,4			
Rose Hall	FED Conference Hall	Sunflower Hall	Peacock Hall
Session-1: Speech Processing	Session-2: Antenna & Array Signal Processing	Session-3: Image Processing- I	Session-4: Satellite Communication
Session Chair: Prof. G. Saha, IIT, KGP	Session Chair: Prof. P V D Somasekhar Rao, Director IST, JNTU Hyderabad	Session Chair: Dr. N V Rao, Chairman, IEEE, Hyderabad Section	Session Chair: Prof. K. Satya Prasad, Director of Evaluation, JNTU Kakinada
01-01 Simultaneous Detection and Estimation Approach in Speech Enhancement Using Weighted Cosh Estimator Naga P Devineni, Mangesh K Kunchamwar	02-01 Multiple Beam Smart Antenna Array for Mobile Communication Applications. Kumara Swamy K, M.Lakshminarayana, V.M.Pandhari Pande	03-01 Image Encryption Scheme with Binary Sequences derived from Random Sequence of Cyclic Elliptic Curve Points as keysequence Sathyanarayana.S.V, M.Asawatha Kumar, K.N.Hari Bhat	04-01 A New Algorithm for Improving the GPS Position Accuracy M. Madhavi Latha, G. Sasibhushana Rao, V. Venkata Rao, B. V. Rama Mohana Rao
01-02 In Search of Autocorrelation Based Vocal Cord Cues for Speaker Identification Md.Sahidullah, Goutam Saha	02-02 Monopulse Feed for Dual Axis Tracking Antenna System N.Varalakshmi	03-02 Image Preprocessing for Grey Level Reduction by Optimal partitioning Algorithm Kamalesh Kumar Azad, Shailendra Kumar Shrivastava	04-02 Step by Step Design of a LEO Satellite Communication System Adriano Lupi, Rita Roscigno
01-03 Design and Modeling of A Speech Understanding System for Hindi Language R.K. Aggarwal, M. Dave	02-03 Dual Band Patch Antenna E.L.Srujana, P.Siddaiah, B.Gopi Krishna	03-03 A Novel Approach for Contrast Enhancement and Brightness preserving by Histogram Equalization Vinay Kumar, Nikhil Raj	04-03 Time delay estimation and range errors in GPS Aided GEO Augmented Navigation systems for Precision Approach civil aviation applications K.S.Ramesh,H.Khan,P. VenkateswaraRao,G.Revathi,N.Suresh
01-04 A Study on Feature Vector Selection and Compressed Domain ASR on	02-04 Design and Development of Ka Band Digital Beacon Receiver for Ka Band Propagation Studies Experiment	03-04 Performance Analysis of Morphological Operators Using Noise Detection Parameters Rachna Mehta, Anil Vohra, R.K. Arora	04-04 Use of Two-Way CDMA Ranging for Precise Orbit determination of IRNSS Satellites

VoIP using SVD-GMM and G.729 Coded Speech <i>Suraksh Vir, Goutam Saha</i>	<i>Chandra Prakash, K.A.Bhatt, S S Valdiya, K S Dasgupta</i>		<i>T.Subramanya Ganesh, C K Sharma, S.Venkateswarlu, G Jagannath Das, B S Chandrasekhar, S.K.Shivakumar, S.Venkateswarlu</i>
01-05 Speech Processing Using MPEG-1 <i>K.Gouthami</i>	02-05 A Rectangular Aperture Circular Patch Array Antenna in Ku band <i>K.Ch.Sri Kavya, P.Siddaiah</i>	03-05 Content Based Image Retrieval and Resizing of Image Using Discrete Cosine Transform <i>P.K. Deshmane, S.R. Ganorkar</i>	04-05 New QPSK Modulator With Premodulation Filter for Payload Data Transmission in CHANDRAYAAN-1 Mission <i>D.V. Ramana, Jolie.R, V.S. Rao and S.Pal</i>
01-06 Blind Source Separation for Speech signals <i>Soumya Parameswara, K C Finitha, A.K.Abdul Samad, Thomas Kurian</i>	02-06 CPW Fed T-shaped slot Antenna for RFID Applications <i>Ch.Sulakshana, D.Sri Ram Kumar</i>	03-06 Lossless Region of Interest coding of Medical Images Using RSPIHT Algorithm <i>Tirupathiraju Kanumuri, M.L.Dewal, R.S.Anand</i>	04-06 Design Considerations for Realization of Multi Object Tracking Radar (MOTR) for Space Applications <i>B.V.Subba Rao, J.Gopalakrishna, M.sreenivasa Babu, S.V.Subba rao, V.Seshagiri Rao, M.Y.S.Prasad</i>
	02-07 Coaxially Fed Broadband Sleeve Dipole Antenna <i>C.Sairam, S.D.Ahirwar, Sheilu Singh, Ashwani Kumar</i>	03-07 Telugu Text Font and Size Identification <i>Sake Pothalaiah, Panjala Pallavi, Shamlu Mathur</i>	
	02-08 Design and Development of Reduced Size, Broadband Biconical Antenna <i>S.D.Ahirwar, T. Khumanthem, C.Sairam, Ashwani Kumar</i>		
13:30 – 14:15 LUNCH			
14:15 – 15:00 INVITED TALK			
Chandrayana Mission - Dr. A.Bhaskara Narayana, Scientific Secretary, ISRO			
15:00 – 15:15 TEA BREAK			

INTERNATIONAL CONFERENCE ON RF AND Signal Processing Systems (RSPS-2010)-Schedule Friday, 08 Jan 2010			
15:15 – 17:15 Sessions 5,6,7,8			
Rose Hall	FED Conference Hall	Sunflower Hall	Peacock Hall
Session-5: Communication Systems-I	Session-6: Signal Processing	Session-7 : RF, Microwave & Millimetric Wave Systems-I	Session-8: Wireless Sensor Networks
Session Chair: Prof. B Rama Naidu, HOD, JNTU, Anantapur	Session Chair: Prof. NVSN Sharma, NIT, Warangal.	Session Chair: Sri G S N Raju, Deputy Director, LRDE	Session Chair: Prof. S S Pathak, IIT KGP
05-01 Hybrid Vector Quantizer Using Binary search <i>M. Satya Sai Ram, P. Siddaiah M. Madhavi Latha</i>	06-01 Equations designed for signal matched complex wavelet filter bank for 2D separable case – perfect reconstruction <i>Shanti Swamy, S.D Joshi, E.Y.Naresh kumar</i>	07-01 Influence of Object Shapes on Radar Cross Section <i>P. Rajyalakshmi, G.S.N. Raju</i>	08-01 Application of Wavelet Data Compression for Congestion Control in Wireless Network <i>Shailaja B. Gaikwa, B. G. Hogade</i>
05-02 Calibration of Positional inaccuracy in Single Frequency GPS Receivers <i>Habibulla Khan, K.S.Ramesh, K.S.Ravi, Pranob .K. Charles, Rajendra Prasad.K.</i>	06-02 A Novel Optimization Technique for the Design of Optimal Digital FIR Filters <i>Venkatappareddy.P, Mr.Shekhar.Sharma, L.D.Arya</i>	07-02 Application of ISAR Principle in Radar Imaging of Naval Targets for Better Cross Range Resolution Theory and Measurement <i>K. S. Ranga Rao,K. Srikanth, G. Anitha,B. Mamatha, T.K.C. Patro,G. V. Manoj Kumar and Hema V. Nikhare</i>	08-02 Automatic Level Crossing Monitoring Using WSN in WCR Zone <i>Alka Dubey, Ashish Verma</i>
05-03 Near Field Communication <i>K.P.Paradeshi, V.A.Mane, S.V.Phakade</i>	06-03 Fractional Fourier Transform based FIR window functions <i>P.V.Muralidhar, A. S.Srinivasa Rao, S.K.Nayak</i>	07-03 Design and Development of 18-26 GHz Double Balanced Mixer <i>Y. Vijaya lakshmi, Syed Saadullah Hussaini</i>	08-03 Asynchronous Congestion Avoidance for distributed Multihop network <i>Salma Fausia, G.Kumarswamy Rao, J.Amulya Kumar</i>
05-04 Aiding of Side Channel Attack -A Boolean Reasoning Perspective <i>K. Rahimunnisa, Kavya T.S, Anoop Suraj A</i>	06-04 Statistical Analysis of Underwater Acoustic Signal in the presence of Gaussian and Colored Noise <i>A V N S Mrudula, G. Sasibhushana Rao, Rajkumar Goswami,,S, Deva Prasad,G, Hemant Kumar, M N V S S Kumar</i>	07-04 Design and Development of a 10-Channel Multiplexer in 1-2 GHz using Direct Multiplexing Approach <i>Sheesh Ram, S. Lalitha</i>	08-04 A Neural Network Model for Detecting Anomalous Traffic Implementing Self-Organizing Maps <i>G.Jagadeesh kumar, Koshy George</i>
05-05 Performance Evaluation of Identical Block Length and Rate LDPC Codes of Structured Regular and Structured Irregular Characteristics <i>Priyabrata Parida, Abhishek Kumar,</i>	06-05 A Comparative study of Various system Identification Techniques <i>E Anant Shankar, S Varadarajan</i>	07-05 Design and Development of 0.5-18 GHz Switch Filter Banks <i>S. Lalitha, Sheesh Ram, Chandan Kumar</i>	08-05 Moving Target Detection using Spectral Estimation and Neural Networks <i>Riswan Ahmed, Amutha Jeyakumar</i>

Siddharth Kumar, Sumit Kundu, Sant S. Pathak			
05-06 Cavity Backed Spiral Antennas for Direction Finding Applications B.Ramakrishna Rao, M.Chakravarthy, Brahma Dev Shaw, G.Usha Kiran	06-06 Extended Overlap-Save and Overlap-Add Convolution Algorithms for Real Signals Jagadish D. Kene	07-06 Design of Low Phase Noise Frequency Synthesizer for HF Search Receiver A.Himabindu	08-06 An Approach for Determining Conditions for Monitoring of Critical Nodes for MANET Intrusion Detection System Nishket N. Mhala, N.K. Choudhari
05-07 Glitch reduction in low power TG-Multiplier V.V.M.Krishna, A.Ranganayakulu	06-07 Noise Cancellation in ECG Signals using Efficient Variable Step Adaptive Filtering Technique Mohammad Zia-Ur-Rahman, Rafi Ahamed Shaik, D V Rama Koti Reddy, Ibrahim Khan	07-07 Design of High Directivity Directional Coupler in 18 – 40GHz band Syed Saadullah Hussaini	08-07 Comparison of Neural Network Architectures for Pulse Radar Detection Aditya Padaki, Koshy George
05-08 Real Time Processing for an Electro-Optical Fire Control System Ravindra Singh, Sweta Singh, Dipak Kr Mallik	06-08 Denoising and Localization of EEG Signals using Wavelet Analysis G.V. S Karthik, G.Vijaya Kumar, Md.Zia-Ur-Rahman, A.Ranganayakulu, B.V.Rama Mohana Rao	07-08 Evaluation of Threshold using Clutter Modeling Ch.N.Hari Krishna, K.Ch.Sri Kavya, P.V.K.Bala Bhargav, Ch.Pavan Kumar	08-08 Wireless RF Smart Glove Control for Hexapod Akshay D.R. K Uma Rao, Sridhar S
05-09 Symmetric Block Cipher Rijndael Algorithm using Advanced Encryption Standard for Implementation of Digital Cryptography Duvvuri.S Ram Kiran, P.Siddaiah	06-09 Discernible Description for Donation of Late Potentials in ECG Signals inside the program of Wavelets P.V. Rama Raju V. Malleswara Rao, M. Divya Shruthi	07-09 Role of MM Waves in Terrestrial and Satellite Communications Potturi Raghavendra Rao	08-09 Blind Equalization with Joint Use of CM Algorithm and Multi-Modulus Algorithm in Wireless Communication Systems Ram Babu, T. P.Rajesh Kumar, Habibulla Khan
	06-10 Wavelet Based Denoising of ECG using a New Thresholding Filter V.V.K.D.V.Prasad, P.Siddaiah, B.Prabhakara Rao	07-10 Design & Development of SPDT Switch Limiter J. Usha Rani, A. Kireetamma	08-10 Secure Bandwidth Efficient Multicasting for Wide Area Networks Sindoora. Koneru, B. Gupt
			08-11 Target Tracking In Wireless Sensor Network with Cluster Architecture Sarita M Bopalkar Poornima Talwai
17:15-17:30-TEA BREAK			
17:30-18:15 INVITED TALK			
Wave form Diversity, Past, Present & Future - Prof. A.Farina, Italy, SELEX Sistemi Integrati, Italy			
18:15-19:00 Panel discussion			
"Engineering Education – Impact on the Society" - Prof. K.S.R.K. Prasad, NIT, Warangal			
20:00-20:45 Cultural Program			
20:45-22:30 BANQUET at VIJAYAWADA CLUB			

INTERNATIONAL CONFERENCE ON RF AND Signal Processing Systems (RSPS-2010)-Schedule		Saturday, 09 Jan 2010	
08:45 – 10:15 INVITED TALKS			
1. OFDM and MC- CDMA: Performance Comparison - Prof. V.U. Reddy, IIT, Hyderabad			
2. Green Radio - Prof. R.V. Raja Kumar, IIT, Kharagpur			
10:15 – 10:30 TEA BREAK			
10:30 – 12:00 Sessions 9, 10, 11, 12			
Rose Hall	FED Conference Hall	Sunflower Hall	Peacock Hall
Session-9: Communication Systems- II	Session-10: RF, Microwave & Millimetric Wave Systems-II	Session-11: Image Processing- II	Session-12: VLSI-I
Session Chair: Sri P Raghavendra Rao, Sc-F, DLR, Hyderabad	Session Chair: Sri G Jagannadha Das, Sc-G, ISRO, Bangalore	Session Chair: Sri V. Seshagiri Rao, Deputy Director, SHAR, ISRO	Session Chair: Sri V S Mahalingam, Director, CAIR, Bangalore
09-01 A High Speed Underwater Acoustic Modem for Video Communication Satya Prasad R. Saswat Chakrabarti, S. S. Pathak, R. V. Raja Kumar	10-01 Non-Conventional Beam Forming Technique using Array Antenna S.Sri Jaya Lakshmi, K.Ch.Sri Kavya, P.Siddaiah	11-01 Wavelet Transform Analysis of a Pediatric ECG Signal Kachibhotla Srinivas, Shamla Mathur	12-01 A Novel Bus Coding Technique to Minimize Crosstalk Delay for High Speed VLSI Interconnects N.Laxmi, A.Krishna Kumari, C.Hemasundara Rao
09-02 Analysis of Fast Fading In Wireless Communication Channels M.Siva Ganga Prasad, P.Siddaiah, K.Lekha, L.Pratap Reddy	10-02 Design And Implementation Of Micro Wave Multiplexer Manish Mendhe, B.Naresh Kumar, L.Sudhakar	11-02 Extraction of 3-Dimensional parameters by Analyzing Underwater Images obtained from SONAR fitted on Autonomous Underwater Vehicle (AUV) G. Sasibhushana Rao, S. Deva Prasad, Ch Uma, M N V S S Kumar, U Anusha, M.Nagamani, Rajkumar Goswami	12-02 Subthreshold-mode current domain MOS Translinear circuits Nikhil Raj, Vinay Kumar,
09-03 Maximum-Likelihood Carrier Frequency Offset Estimation for OFDM Systems in Fast and Slow Fading Channels Haritha T. Sajja Sri Gowri, D.Ehsabeth Rani	10-03 Electromagnetic Modeling of a Gyrotron Interaction cavity A. Ravi Kumar, K. Nalini, V.S. Prasanna Rajan	11-03 Digital Watermarking Based on Curvelet Transform A.Venkateswarlu, T.Venugopal, P.RamanaReddy	12-03 Fault Analysis in FPGA Using Phase Path Method P. Kishore, Prasad Gandikota, P V Sridevi
09-04 Dynamic Simulink Model to Estimate Various Parameters of an Multichannel EDFFA Sharbani Roy, Vishnu Priye	10-04 Inverse Solutions to Microwave Scattering Problem for Breast Tumor Detection and Size Estimation G. G. Senaratne, Winston L. Sweatman, Graeme C. Wake	11-04 Steganography –Security through Images Y.V.N.Tulasi, T.S.R.Krishna Prasad, S.Narayana	12-04 Sleepy Stack Leakage Reduction Pardeep Jamwal, M.B.Srinivas, Santosh Kumar
09-05 A novel technique for blind bandwidth estimation of the radio communication signal Gaurav Lohiya, P. S. Prasad, G. Raghavaiah	10-05 2- and 3-Bit MEMS Phase Shifters M. Sravani, P.Siddaiah	11-05 Image Restoration Using Real Valued Fully Adaptive Non Linear Normalised Least Mean Square Filters S.K.Satapathy, S.K.Nayak, S.S.Padhy and S.Panda	12-05 FPGA Implementation of Frame Synchronizer Module in Digital Communication System By Using Binary Pattern Correlator K.Babulu, K.Soundara Rajan, L.Sunitha
09-06 PVC Detection by Energy Analysis	10-06 Admittance Characteristics of Inclined Slot Coupled Waveguide Shunt	11-06 Restoration of Motion Blurred Images Using Iterative Wiener Filter	12-06 A VLSI-FPGA based Real Time Processing of Weak

Awadhes Pachauri, Manabendra Bhuyan,	Tee M.Chakravarthy, G.S.N.Raju, R. Sreehari Rao	Shilpa Datar, Yogendra K. Jain	Backscattered Laser Return Signal Pankaj Agrawal, Ravindra Singh
09-07 Synchronization Enhancement to Network Processor Using IEEE 1588 protocol T.Syam Kumar, V.Suma Latha, R.Samba Siva Nayak	10-07 Neural Network Approach to Diagnose Positional Faults of Antenna Array D.Vakula, N. V. N. S. Sarma	11-07 Moon Impact Imaging System Priya Haridasan, K.Ramaswamy, Deepa Muraleedharan, G.Subha Varier, A.K.Abdul Samad, Thomas Kurian, T.R.Chidambaram, Saji.A.Kuriakose, Sandip Paul, Anurag Verma, Bindu John, M.P.Trivedi, A.S.Kiran Kumar	12-07 A Novel 64-bit Low Power High Performance Parallel Prefix Adder P.Ramanathan, P.T.Vanathi, G.Hari Krishnan
	10-08 Design Of Broad-Band Multilayered Microstrip Antennas E.Kusuma kumari, S. Sri Jaya lakshmi		12-08 A 12dB Power Gain, 2dB Noise Figure, 3 - 7GHz CMOS Negative Feedback Low Noise Amplifier S. Devanathan, S.U.Harini, V.Vaithianathan
12:00-12:05 TEA BREAK			

INTERNATIONAL CONFERENCE ON RF AND Signal Processing Systems (RSPS-2010)-Schedule			Saturday, 09 Jan 2010
12:05 – 13:30 Sessions 13, 14, 15			
Rose Hall	FED Conference Hall	Sunflower Hall	
Session-13: Communication Systems- III	Session-14: RF, Microwave & Millimetric Wave Systems-III	Session-15: Image Processing- III	
Session Chair: Prof. B Prabhakara Rao, Director, IST, JNTU Kakinada	Session Chair: Dr. M Lakshmi Narayana, Sc-G, DLRL, Hyderabad	Session Chair: Prof. L Pratap Reddy, HOD, JNTU, Hyderabad	
13-01 A Feasibility Study of a Component-Based Fully-Software Waveform Implementation for SDR Venkatesh Ramakrishnan, Gerd Ascheid	14-01 Design and Implementation of Circularly Polarized Multi Band Microstrip Yagi Uda Fractal Antenna With and Without Slit P. Malathi, S. G. Patil, S. V. Doke	15-01 Demosaicking Algorithms: Interpolation of Missing Color Samples for Single Chip Color Filter Array Digital Camera B.Prabhakar Rao, C.Raja Rao, S.Srinivasa Kumar	
13-02 A New Development of Compression Scheme for Database Sushil Kumar, Sarita S. Bhadauria, Roopam Gupta	14-02 Interference Cancellation when Directions-of-Arrival are Time-Varying Koshy George, Kiran S. Sajjenshetty	15-02 Improved Denoising of SAR Speckle images using Curvelets, over DT-CWT and Traditional Filters Dadi Hari Hara Santosh, V. N. Lakshmana Kumar, P. Surya Prasad	
13-03 False Positives in Intrusion Detection Systems Ganta Jacob Victor, Sreenivasa Rao Meda, V CH Venkataiah	14-03 Harmonic Injection Technique to Reduce Harmonic Kapil Kumar C. Dave	15-03 Dual Tree Wavelet Transforms in Image Compression R.Arokia Priya, S.Pnarote, A.V.Patil	
	14-04 Assessment of HMDS Concave Triangular Serrated CATRs by Changing Number of Serrations K.Krishna priya, T. V. Rama Krishna, P. Siddaiah, B.Prabhakara Rao		
13:30 – 14:30 LUNCH			
14:30 – 16:00 INVITED TALKS			
1. VLSI for Signal Processing - Prof. Vemuri Ranga, University of Cincinnati, USA			
2. Recent trends & Challenges in the Satellite Communications - Dr. M.Y.S. Prasad, Associate Director, SHAR			
16:00 – 16:15 TEA BREAK			

INTERNATIONAL CONFERENCE ON RF AND Signal Processing Systems (RSPS-2010)-Schedule			Saturday, 09 Jan 2010
16:15 – 17:00 Sessions 16, 17, 18			
Rose Hall	FED Conference Hall	Sunflower Hall	
Session-16: Mobile & Cellular Communication	Session-17: Image Processing- IV	Session-18: VLSI-II	
Session Chair: Prof. CB Rama Rao, NIT, Warangal	Session Chair: Prof. Madhvi Latha, JNTU, Hyderabad	Session Chair: Dr. S V Subbarao, GM, SHAR	
16-01 Simplified Base Station Implementation using Radio over Fiber S.R.Prasad, PP Kulkarni, AR Nigwekar	17-01 Accuracy Assessment of Knowledge Base and P-Tree Image Classification M.Seetha, Ravi Gottipati	18-01 A 3.1 to 4.85GHz Differential CMOS Low Noise Amplifier for Lower Band of UWB Applications V.Vaithianathan, J. Raja, R. Kavya, N. Anuradha	
16-02 A Critical Review of Position Fixing Techniques for Mobile Communications B. Prabhakar, S. Balaji, K.V.Murali Mohan, D.Krishna Reddy	17-02 Lossless Steganography for AMBTC - Compressed Color Images D.Kiran Kumar, E.V.Narayana	18-02 Attacking embedded systems through Electromagnetic Analysis K.Subbarao, M.Samuel Babu, J.K.R.Sastry, J.Sasi Bhanu, L.S.S.Reddy	
16-03 Performance Analysis of Coherent DS-CDMA in Nakagami Multipath Fading Channel S Anuradha, KVSS Reddy, S Sri Gowri	17-03 Reconstruction of Signal with Undersampling- Compressed Sampling T.S.R.Krishna Prasad, Y.V.N.Tulasi, A.Mallaiah	18-03 Power Control-based Locally customize Routing for MANET Hari Prabhat, Gupta S. V. Rao	
	17-04 Face Alignment Based on Two-Stage AAM Yang Jae Jun, Choi Sun Hyung, Kim Tae Ho		
17:00-17:45 VALEDICTORY FUNCTION			
Chief Guest: Dr. M Y S Prasad, Associate Director, SHAR			

SESSIONS DURING PRE-CONFERENCE TUTORIAL







SESSIONS ON THE FIRST DAY OF CONFERENCE (8th Jan)







At BANQUET









SESSIONS ON THE SECOND DAY (9th Jan)







VALEDICTORY FUNCTION







Dr M Y S Prasad Associate Director SHAR, attended as a Chief Guest and Dr.V.Mahalingam attended as Guest of Honor for valedictory. During Valedictory all the participants like Professors, Scientists, Research Scholars, Student and Women participants revealed their opinion about the Conference and their views with Organisation Committee. An excellent feedback was observed in terms of Hospitality, Transportation, Conducting the parallel sessions etc.,