

## Day 1: January 9, 2012

14:00 – 15:00 <b>Invited Talk #1</b>	Optimal beamforming matrices for interferometer alignment using nuclear norm approximation	<i>Dr. Liu Rongke</i> China
15:00 - 15:40 <b>Antenna-I</b>	<b>ANT 01:</b> Low Profile Circularly Polarized Side-Fed Bifilar Helix Antenna	<i>Sana Iqbal</i> SUPARCO
	<b>ANT 02:</b> Spherical Embedded Antenna for Conformal Applications	<i>Abdul Mueed</i> NPU China
15:40 – 16:00	<b>TEA BREAK</b>	
16:00 - 16:20 <b>Antenna-II</b>	<b>ANT 03:</b> Transmission Characteristics of Wearable Broadband Textile Dielectric Resonator Antennas in Body Area Network	<i>Syeda Hiba Hussain Mashhadi</i> CESAT Islamabad

## Day 2: January 10, 2012

9:30 – 10:30 <b>Invited Talk #2</b>	EM Wave Propagation modeling for radar system applications	<i>Dr. Levent Sevgi</i> Turkey
10:30 – 11:10 <b>SAR-I</b>	<b>SAR 01:</b> Design and development of coherent data logging system for offline SAR processor	<i>Fakhar Ahsan</i> CESAT Islamabad
	<b>SAR 02:</b> Design and Development of a 32 element X-Band Phased Array Antenna for Airborne & Space Borne SAR Payloads	<i>A.K.M. Shafaat Ali</i> SUPARCO
11:10 - 11:30	<b>TEA BREAK</b>	
11:30 – 12:10 <b>SAR-II</b>	<b>SAR 03:</b> System Level Design of Synthetic Aperture Radar for UAV's	<i>Saqib Ejaz</i> CESAT Islamabad
	<b>SAR 04:</b> ISAR imaging of rotating targets using pencil back-projection method	<i>Fatima Arneeb</i> NPU China
12:10 – 13:10 <b>RF &amp; MICROWAVE-I</b>	<b>RF 01:</b> Design and Realization of 10 <sup>th</sup> order (10-4-4) Self Equalized dual-mode waveguide Channel Filter	<i>Muhammad Latif</i> SUPARCO
	<b>RF 02:</b> Klopfenstein Tapered 2-18GHz Micro strip Balun	<i>Ahsaan Rizvi</i> NUST
	<b>RF 03:</b> Design & Realization of Direct Coupled Ku-band waveguide iris Filter using Coupling Matrix Model	<i>Muhammad Latif</i> SUPARCO
13:10 - 14:00	<b>LUNCH BREAK</b>	
14:00 – 15:40 <b>RF &amp; MICROWAVE-II</b>	<b>RF 04:</b> Thermal Considerations in High Power Microwave Amplifiers Design	<i>Hira Naz</i> SUPARCO
	<b>RF 05:</b> General Optimization Algorithm for Reduction of Coupling Matrix Of Chebyshev Filtering Functions	<i>Muhammad Latif</i> SUPARCO
	<b>RF 06:</b> High Performance Compact Microwave Filters for Space Applications	<i>Javeria Zaidi</i> SUPARCO
	<b>RF 07:</b> A Compact Diplexer for Telemetry and Tele-command transmitter-Receive System for Space Applications	<i>Dr. Umair Naeem</i> SUPARCO
	<b>RF 08:</b> Synthesis and Implementation of Quadruplet Filter with Microstrip Technology	<i>Muhammad Salman Yousaf</i> SUPARCO
15:40 - 16:00	<b>TEA BREAK</b>	
16:00 - 16:20 <b>Signal Processing-I</b>	<b>SP 01:</b> Doppler Shift Compensation Techniques for LEO Satellite On-board Receivers	<i>Dr. Umair Naeem</i> SUPARCO

## Day 3: January 11, 2012

9:30 – 10:30 <b>Invited Talk #3</b>	Hyper Spectral remote sensing image compression	<i>Dr. Feng Yan</i> China
10:30 – 11:10 <b>Signal Processing-II</b>	<b>SP 02:</b> Channel Equalization for Discrete Wavelet Multitone Transceiver in Wireline Channels	<i>Arsia Khan</i> COMSATS, Lahore
	<b>SP 03:</b> Development of 1553 Mux Bus Simulation Analysis Algorithm	<i>Dr. Amir Hussain</i> CESAT Islamabad
11:10 - 11:30	<b>TEA BREAK</b>	
11:30 - 12:30 <b>Radar Signal Processing</b>	<b>RSP 01:</b> Design and Implementation of adaptive Beam Former for phased array Radar over DSP Kit	<i>Muhammad Amir Shafiq</i> CESAT Islamabad
	<b>RSP 02:</b> Hardware Implementation of Analog Beam former for Phased Array Radar (PAR)	<i>Hamid Ali Mirza</i> CESAT Islamabad
	<b>RSP 03:</b> Millimeter Wave FMCW Radar for Foreign object debris (FOD) Detection at Airport Runways	<i>Ghulam Mehdi</i> Beihang University, China
12:30 - 13:10 <b>Communication Systems-I</b>	<b>CS 01:</b> Wavelet OFDM –A Solution for reliable communication in a Frequency Selective Rayleigh Fading Channel	<i>Tabassum Nawaz Bajwa</i> COMSATS Institute of IT, Lahore
	<b>CS 02:</b> Analysis of AODV and DSR Routing Protocol of WSN for Monitoring application	<i>Shoaib ur Rehman</i> The University of Faisalabad
13:10 - 14:00	<b>LUNCH BREAK</b>	
14:00 - 15:00 <b>Communication Systems-II</b>	<b>CS 03:</b> A forced Routing information modification module for preventing back hole attacks in wireless Ad Hoc Networks	<i>Muhammad Raza</i> KGGDC Karachi, Pakistan
	<b>CS 04:</b> A Simulation Analysis of Nodes Mobility and traffic load Aware Routing Strategy in Aeronautical Ad Hoc Networks	<i>Lei Lei</i> University of Aeronautics and Astronautics, Nanjing, China
	<b>CS 05:</b> Ultra Wide Band Radio DWDM rings with photonic UWB pulse generation and transmission in presence of non-linearities	<i>Ateeq Mumtaz</i> UET Taxila
	<b>CS 06:</b> Stochastic Geometry of Thinned Nodes in Ad Hoc Networks	<i>Dr. Aamir Hasan</i> Air University Islamabad
15:00 - 15:40 <b>Miscellaneous-I</b>	<b>MISC 01:</b> Radiated Emission Analysis of Cable Interconnecting Different Subsystems	<i>Jawad Yousaf</i> Institute of Space Technology Islamabad, Pakistan
15:40 - 16:00	<b>TEA BREAK</b>	
16:00 - 16:40 <b>Miscellaneous-II</b>	<b>MISC 02:</b> Indoor Positioning System using Ultrasonics	<i>Sana Latif</i> Behria University, Islamabad
	<b>MISC 03:</b> Open Sensor platform: Integration of sensors and mobile phones	<i>Awais Munawar</i> IAA Air University



9<sup>th</sup> **IBCAST-2012**  
International Bhurban Conference on Applied Sciences & Technology  
9-12 January, 2012



# 9<sup>th</sup> IBCAST, January 9-12, 2012

## Wireless Communication & Radar Technical Program (Tentative)

Day	Session (9:30-11:10)			Session (11:30-13:10)						Session (14:00-15:40)						Session (16:00-16:40)	
	1hr	40 min								1hr	40 min						
(1) 9 <sup>th</sup> Jan	REGISTRATION		INAUGURAL CEREMONY					LUNCH	Invited Talk #1 Dr. Liu Rongke (China)		Antenna-I		Antenna-II				
(2) 10 <sup>th</sup> Jan	Invited Talk #2 Dr. Levent Sevgi (Turkey)	SAR-I		SAR-II		RF & Microwave-I			RF & Microwave-II					Signal Processing-I			
		SAR-01	SAR-02	SAR-03	SAR-04	RF-01	RF-02		RF-03	RF-04	RF-05	RF-06	RF-07	RF-08	SP-01	----	
(3) 11 <sup>th</sup> Jan	Invited Talk #3 Dr. Feng Yan (China)	Signal Processing-II		Radar Signal Processing			Communication System-I		Communication System-II			Misc-I	Misc-II				
		SP-02	SP-03	RSP-01	RSP-02	RSP-03	CS-01	CS-02	CS-03	CS-04	CS-05	CS-06	MISC-01	MISC-02	MISC-03		

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