

15th IBCAST 2018: Underwater Technologies

9th -13th January 2018

Technical Program (Tentative)

OVERVIEW

	0930 to 1100		1130 to 1300		1400 to 1630						
Day-1 January 09, 2018 Tuesday	REGISTRATION				Underwater Communication I						
					Dr. Songzou Liu	Dr. Niaz Ahmed	18UW 662	18UW 381	18UW 607		
Day-2 January 10, 2018 Wednesday	Oceanography			T E A	Underwater Communication II		Detection & Classification				
	Ibrahim Zia	Dr. Shafiq ur Rehman	M Imran Shahzad		Dr. Haixin Sun	18UW 554	Dr. Yaan Li	18UW 678	18UW 519	18UW 357	18UW 515
Day-3 January 11, 2018 Thursday	Underwater Vehicles			T E A	Invited Talk		Multi-Topic				
	Dr. Aleem Mushtaq	Dr. Suleman Mazhar	18UW 422		Capt (R) Javed Iqbal		18UW 275	18UW 524	18UW 544	18UW 81	18UW 52

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Day 1: January 9, 2018

0930 to 1300	REGISTRATION	
1300 to 1400	LUNCH	
1400 to 1630 Underwater Communication I	Review of Biologically inspired covert Underwater Acoustic Communication	Dr. Songzou Liu HEU, China
	Underwater Wireless Communication with Magnetic Coupling	Dr. Niaz Ahmed MY University, Islamabad
	Autocorrelation Based Modulation Recognition of PSK Signals for OFDM in Underwater Acoustics Communication	Sheraz Anwar Xiamen University, China
	Shallow Water Acoustic Channel Modeling and MIMO-OFDM Simulations	Zeeshan Baber HEU, China
	Comparison of DBR and L2-ABF Routing Protocol in Underwater Wireless Sensor Network	Ahmad Shaf COMSATS, Sahiwal

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Day 2: January 10, 2018

0930 to 1100 Oceanography	Coastal Sustainability with special reference to Coastal Dynamics and Climate Change Impacts along Pakistan Coast	Ibrahim Zia NIO, Karachi
	Ocean Energy Resources	Dr. Shafiq ur Rehman CESAT, Islamabad
	Empirical estimation of suspended solids concentration in the Indus Delta region	Muhammad Imran Shahzad COMSATS, Islamabad
1100 to 1130	TEA	
1130 to 1300 Underwater Communication II	Underwater Acoustic Communication	Dr. Haixin Sun Xiamen University, China
	Statistical Modeling of Underwater Acoustic Communication Channels in Shallow Waters	Hammad Hussain PNEC, Karachi
1300 to 1400	LUNCH	
1400 to 1630 Detection & Classification	Feature Extraction of Underwater Acoustic Signal Using Mode Decomposition and Measuring Complexity	Dr. Yaan Li NPU, China
	Fast and Accurate Classification of Underwater Acoustic Signals Using Multi-model Classifiers	Khizer Feroze IST, Islamabad
	Automated Association of Narrowband and Broadband Tracking in Passive Underwater Surveillance Systems	Umar Hamid COMSATS CIIT, Islamabad
	Performance Analysis of Parallelization Approaches for Optimized Parallel Delay-and-Sum Beamforming Algorithm	Aamir Shehzad CESAT, Islamabad
	Broad Band Impedance Matching Design Consideration for High Power Electro-Acoustic Transducer	Dr. Muhammad Yasin CESAT, Islamabad

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Day 3: January 11, 2018

0930 to 1100 Underwater Vehicles	Acoustic Positioning System for UUVs	Dr. Aleem Mushtaq PNEC, Karachi
	Development and testing of autonomous underwater vehicle for field robotics	Dr. Suleman Mazhar ITU, Lahore
	Optimal Steering Stabilization of an Autonomous Underwater Vehicle Using Nonlinear Output Feedback Control	Owais Kamal CESAT, Islamabad
1100 to 1130	TEA	
1130 to 1300	Creativity and Team Building	Capt (R) Javed Iqbal CESAT, Islamabad
1300 to 1400	LUNCH	
1400 to 1630 Multi Topic	Optimized Designing of Suspension System of Sonars against Irregular Wave Using FEA	Muhammad Zeeshan CESAT, Islamabad
	Mathematical Modeling for the Vertical Damping Analysis of Sonobuoy Lumped Suspension System	Dr Muhammad Fareed CESAT, Islamabad
	3-D CFD Based Design of an Underwater Vehicle	Ahmed Asees Aamir CESAT, Islamabad
	Design optimization of floating production storage and offloading platform (FPSO): A rational based approach	Dr. Fareed Majeed CESAT, Islamabad
	Optimum designing of cathodic protection systems of marine platforms	Dr. Kazim Altaf CESAT, Islamabad