

16th IBCAST 2019: Underwater Technologies

8-12 January 2019

Technical Program (Tentative) Overview

	0930 to 1110				1130 to 1300				1400 to 1630							
Day-1 January 08, 2019 Tuesday	REGISTRATION										Underwater Acoustics					
							Dr. Yaan Li Dr. Haixin Sun 19UW 828 19UW 370 19UW 735 19UW 866 Shoaib Ali									
Day-2 January 9, 2019 Wednesday	Underwater Sensors				T E A	Harbour Hydrodynamics			Underwater Vehicles							
	Dr. He Xiping			19UW 59		19UW 859	19UW 876	Dr. Guoliang Yu		Dr. Salim Uddin Zahir		19UW 241	Dr. Zeeshan			
Day-3 January 10, 2019 Thursday	Marine Vehicles				T E A	Special Session			Multi Topic							
	Dr. Kamran Shah		Dr. Anwar ul Haque			19UW 129	Zeeshan Ghafoor		Capt (R) Javaid Iqbal		Dr. Nuzhat Khan Dr. Amna Ajaz 19UW 332 19UW 844 19UW 842					

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Day 1: January 8, 2019

0930 to 1300	REGISTRATION	
1300 to 1400	LUNCH	
1400 to 1630 Underwater Acoustics	Passive Tracking of Underwater Targets using Dual Observation Stations	Dr. Yaan Li NPU, China
	Underwater Communications	Dr. Haixin Sun Xiamen, University, China
	Application of Adaptive Filters in Sensor Array Processing for Underwater Applications	Umar Hamid CESAT, Islamabad
	Numerical Simulation of Sound Propagation in Shallow Water based on Normal Mode Theory	Ashfaq Ahmed Bhatti HEU, China
	Covert Mimicry Communication using Humpback Whale Song	Muhammad Bilal HEU, China
	A Comparative Analysis of the Latest Statistical Characterization Trends of Narrowband & Broadband Frequency Spectrum of Deep Sea Ambient Noise using Monte Carlo Simulation Method	Junaid Iqbal CESAT, Islamabad
	Innovative Solutions and Maritime Security Dynamics in the Indian Ocean Region	Shoaib Ali CESAT, Islamabad

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Day 2: January 9, 2019

0930 to 1110 Underwater Sensors	A High Displacement Ultrasonic Horn with a Cuboid Hole in the Front End	Dr. He Xiping Shaanxi Normal University, China
	An Online Calibration Method of INS and Doppler Sensors	Jingyang Liu BIT, China
	Wiring Arrangement Impact on Hydrophone Performance in a Polyurethane Tube	Shaheer Ahmed Gillani CESAT, Islamabad
	Energy Harvesting from the Piezoelectric Material behind the Bluff Body	Mujahid Saeed NUST, Islamabad
1110 to 1130	TEA	
1130 to 1300 Harbour Hydrodynamics	A new concept of Dynamic Torpedo Anchor	Dr. Guoliang Yu SJTU, China
	Concept for Development of a Harbour Hydrodynamics and Ocean Engineering Centre	Dr. Salim Uddin Zahir CESAT, Islamabad
	Hydrodynamic Loading for Harbour Protection	Ibrahim Naeem NUST, Islamabad
1300 to 1400	LUNCH	
1400 to 1630 Underwater Vehicles	Modelling and Controller Design for Unmanned Underwater Vehicle	Dr. Zeeshan Ali DUET, Karachi
	Robust Heading Stabilization and Control for a Class of Autonomous Underwater Vehicles using Nonlinear State Estimators	Owais Kamal CESAT, Islamabad
	Adaptive Tracking Controller Design for the Horizontal Planner Motion of an Autonomous Underwater Vehicle	Ghulam Nabi CESAT, Islamabad
	Modelling and Trajectory Tracking of Remotely Operated Underwater Vehicle using Higher Order Sliding Mode Control	Muhammad Usman Khalid CESAT, Islamabad
	Stability and Control of Nonlinear Mathematical Model of Unmanned Underwater Vehicle	Majid Hameed CESAT, Islamabad
	Various Techniques used for the Obstacle Avoidance in Unmanned Underwater Vehicles (UUVs): A Survey	Farhan Ahmed Quraishi CESAT, Islamabad

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Day 3: January 10, 2019

0930 to 1110 Marine Vehicles	Additive Manufacturing: Opportunities and Applications for Navy	Dr. Kamran Shah UET, Peshawar
	Redefining the Term – Hybrid for Ocean Aerial Vehicles designed on Archimedes Principle	Dr. Anwar ul Haque CESAT, Islamabad
	Part II- Optimum Designing of Cathodic Protection Systems of Marine Platforms	Dr. Kazim Altaf CESAT, Islamabad
1110 to 1130	TEA	
1130 to 1300 Special Session	Problem Solving and Decision Making	Zeeshan Ghafoor Riphah University , Isb
	Thinking Tools	Capt (R) Javaid Iqbal CESAT, Islamabad
1300 to 1400	LUNCH	
1400 to 1630 Multi Topic	Marine Debris Tracker: Help to Map Trash on Coastlines and Waterways to prevent it from impacting our Oceans	Dr. Nuzhat Khan NIO, Karachi
	Detection of Submerged Ferrous Anomaly via Non-Acoustic Passive & Active Surveillance	Dr. Amna Ajaz CESAT, Islamabad
	Translation of Steel Hull Induced Magnetic Signature Components with Roll, Pitch and Heading Motion	Sohrab Ghafoor CESAT, Islamabad
	Frequency and Amplitude Measurement of a Cantilever Beam Using Image Processing with a Feedback System	Farrukh Rasheed CESAT, Islamabad
	Condition Monitoring of Mechanical Wear through Friction Noise: A Review	Rameez Shahab CESAT, Islamabad