

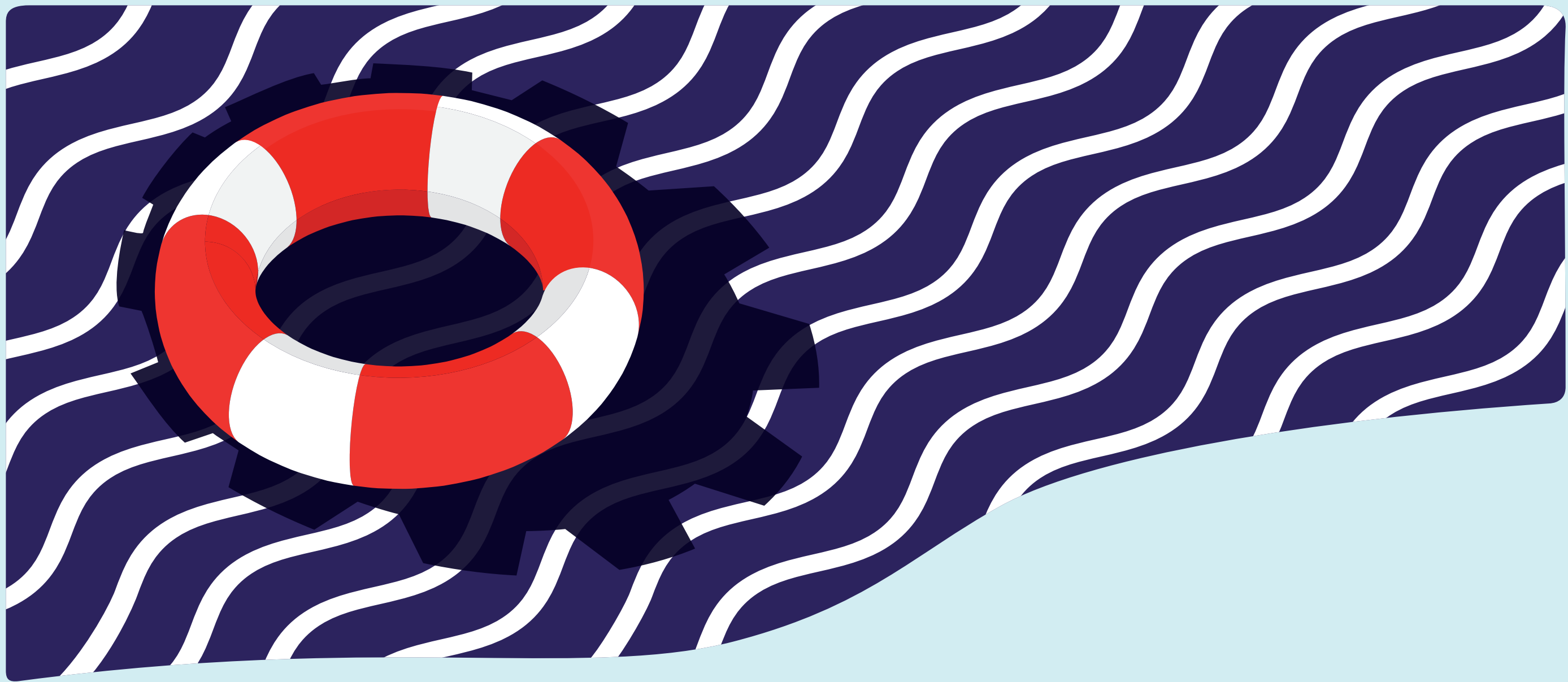
2021

26.09. - 3.10.

Biograd na Moru, Croatia

BREAKING THE SURFACE

13th INTERNATIONAL INTERDISCIPLINARY FIELD WORKSHOP OF MARITIME ROBOTICS AND APPLICATIONS



	SUNDAY, 26.09.	MONDAY, 27.09.	TUESDAY, 28.09.	WEDNESDAY, 29.09.	THURSDAY, 30.10.	FRIDAY, 01.10.	SUNDAY, 26.09.
09:00 - 09:15		OPENING SESSION	Whaling in the European Arctic 1600-1900 – technological innovation and adaptation <i>Øyvind Ødegård</i>	Interreg Italy-Croatia Project InnovaMare	Introduction to the workshop – The challenge of data processing from marine observatories <i>Roei Diamant</i>	Underwater Hyperspectral Imaging as a Tool for Benthic Habitat Mapping <i>Aksel Alstad Mogstad</i>	
09:15 - 09:30		Robots for Karstic Exploration <i>Lionel Lapierre</i>			Introduction to the workshop – The need for standardization in marine observatories <i>Nuno Alexandre Cruz</i>		
09:30 - 09:45							
09:45 - 10:00					Management and processing of geophysical data from continuous monitoring onboard the ship NRP Sagres <i>Susana Barbosa</i>	Data Driven Methods for Deriving Bathymetric Maps from Side-Scan Sonars <i>John Folkesson</i>	
10:00 - 10:15		Leveraging ocean data harvesting by heterogenous robotic organizations and autonomous vehicles as sensor carrying platforms <i>Asgeir J. Sørensen, E. Bremnes</i>	Making sense of marine and maritime processes through intelligent information acquisition and sharing <i>Ioannis Kyriakides</i>	T7 intro – ADRIATIC <i>Đula Nad</i>	Open discussion and dissemination of data		
10:15 - 10:30							
10:30 - 10:45			COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	
10:45 - 11:00		COFFEE BREAK					
11:00 - 11:15		Low cost does not come cheap: Working towards a low cost deep-sea autonomous observation system <i>Ralf Bachmayer</i>	Multidisciplinary applications of robotic solutions in shallow coastal environments <i>Fantina Madricardo, Francesca De Pascalis</i>	Underwater Human Robot Interaction (U-HRI): An overview of the history, challenges, and methods <i>Andreas Birk</i>	Quality assurance for data from the THEMO marine observatory <i>Roei Diamant</i>	An ROV revolution? Using the new generation of low-cost battery powered ROVs for subsea archaeological work <i>Graham Scott</i>	
11:15 - 11:30							
11:30 - 11:45						Robotic systems in mariculture <i>Nenad Antolović, Nikša Glavić</i>	
11:45 - 12:00			Formal and risk-based methods for designing, testing and verifying autonomous marine control systems <i>Renan G. Maidana, Thomas Johansen, Tobias R. Torben, Asgeir J. Sørensen</i>	Informative spatial sampling with autonomous underwater vehicles <i>Jo Eidsvik</i>	Using AUVs for in-situ calibration of sensors onboard marine observatories <i>Nuno Alexandre Cruz</i>		
12:00 - 12:15		Titanic Revisited <i>Bridget Buxton</i>					
12:15 - 12:30			Underwater Archaeology at BTS: A Decade of Innovation <i>Bridget Buxton, Jacob Sharvit</i>	Explorations in AI for Marine Robotics <i>Kanna Rajan</i>	Open discussion and dissemination of data	Accurate qLBL acoustic positioning of multiple fast moving underwater targets in confined waters <i>Konstantin Kebkal, Oleksiy Kebkal</i>	FIELD TRIP
12:30 - 12:45		Present status and achievements at the Swedish Maritime Robotics Centre SMaRC – An invitation to collaborate <i>Ivan Stenius</i>					
12:45 - 13:00							
13:00 - 14:30		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
14:30 - 14:45			T2 intro – AI ZEROCALIBER: Edge Computing for Maritime IoT <i>Ilias Alexopoulos</i>	T5 intro – LSTS Toolchain: Overview and e-Infrastructure Access <i>Maria Costa</i>	ODYSSEA: Operating a Network of Integrated Observatory Systems in the Mediterranean Sea <i>Georgios Sylaios</i>	T6 intro: Citizen engagement: learning by imitation in marine robotics <i>CNR-INM Genova Robotics & AI team</i>	
14:45 - 15:00							
15:00 - 15:15		T1 intro – KTH: Using Physics-informed Learning for Nonlinear System Identification of Underwater Robots <i>Sriharsha Bhat, Christopher Sprague</i>	T3 intro - Marine Unity Simulator <i>Ivan Lončar</i>	COMPANY PRESENTATION HYDROMEA <i>Igor Martin, Alexander Bahr</i>	New Findings from the DeepLev Deepwater Marine Observatory <i>Ayah Lazar</i>	T5 intro – CYPRUS SUBSEA: Efficient and scalable sensor-platform integration <i>Ehsan Abdi</i>	
15:15 - 15:30							
15:30 - 16:00					THEMO – Science Discoveries from the First Three Years of Observations <i>Steve Dimarco</i>		
16:00 - 16:30					Panel discussion on challenges of collaboration between marine observatories		
16:30 - 17:00		COMPANY DEMO H2ORobotics products <i>Iva Kutleša</i>	DEMO 2 Project Hektor – Korkyra <i>Nadir Kapetanović</i>	T7 hands-on		DEMO 3 Evologics	
17:00 - 17:30	REGISTRATION	DEMO 1 PLURATO SAILFIN	T2 hands-on	T5 hands-on		T6 hands-on	
17:30 - 18:00		T1 hands-on	T3 hands-on	COMPANY DEMO Hydromea		T5 hands-on	
18:00 - 18:30	WELCOME DRINK						
19:30 - 20:30	DINNER	DINNER	DINNER	DINNER	DINNER	CLOSING CEREMONY	
20:30 - 21:00						GALA DINNER	
From 21:00		IEEE OES UNIZG PARTY	WOMEN IN BLUE		BTS KARAOKE NIGHT		

