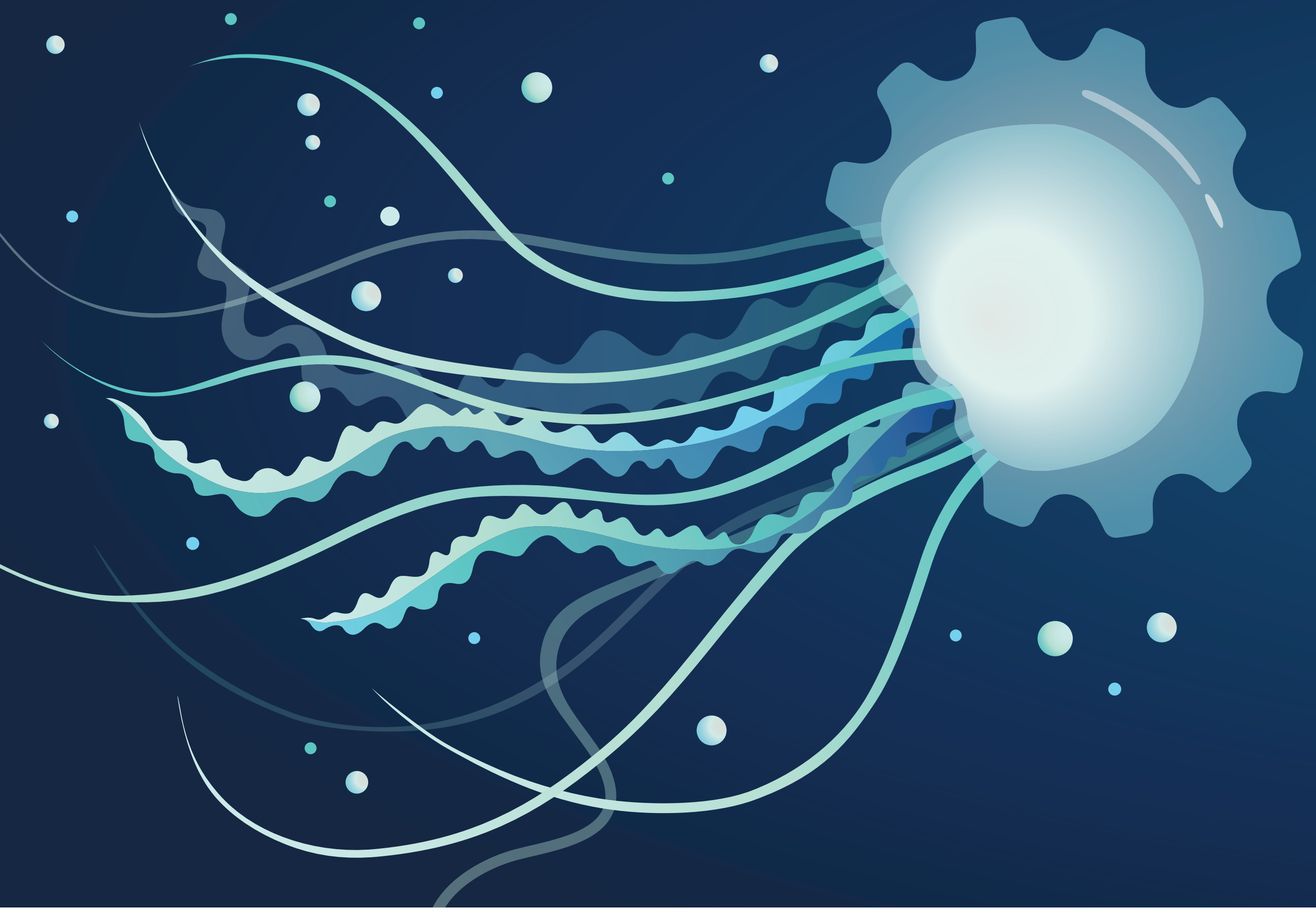

2022 BREAKING THE SURFACE

25.09. - 2.10.
Biograd na Moru, Croatia

14th INTERNATIONAL INTERDISCIPLINARY FIELD WORKSHOP OF MARITIME ROBOTICS AND APPLICATIONS

	SUNDAY, 25.09.	MONDAY, 26.09.	TUESDAY, 27.09.	WEDNESDAY, 28.09.	THURSDAY, 29.9.	FRIDAY, 30. 9.	SATURDAY, 1.10.
09:00 - 09:15		Opening session	Motion capture for underwater communication and diver health monitoring *Iain Anderson*	Deep learning computer vision-based obstacle detection for autonomous boats *Matej Kristan*	Developing imaging technologies to search for, discover, and understand life in the deep sea *Kakani Katija*	Welcome	
09:15 - 09:30		The Chagos Remote Ocean Voyager Expedition (C-Rove) *Bridget Buxton*					
09:30 - 09:45							
09:45 - 10:00		The role of acoustics in underwater robotics *Nuno Cruz*	Monitoring biodiversity with a wired underwater camera *Neven Cukrov*	Development of a secure, interoperable and highly scalable standard for underwater acoustic communications *Jeff Neasham*	Fantastic cold – water corals and where to find them *Johanna Järnegren*	Clean Ocean Mission *Mr. Iain Shepherd*	
10:00 - 10:15						Ocean Technology Funding 1/2	
10:15 - 10:30							
10:30 - 11:00		COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	
11:00 - 11:15		Autonomous platforms for oceanographic data collection *Riccardo Gerin*	Control of Autonomous Underwater Vehicles for Hydrobatics *Ivan Stenius, Sriharsha Bhat*	Integrated observations and monitoring solutions for exploration and sustainable exploitation of marine abiotic resources *Marzia Rovere*	AUVROVA-autonomous low-cost resident inspection underwater drone concept *Kjetil Eik*	Ocean Technology Funding 2/2	
11:15 - 11:30							
11:30 - 11:45							
11:45 - 12:00		Longterm deployment – does AUV really need to surface *Antonio Vasilijevic*	Data Policy and Challenges for Marine Robotics *Roberta Ferretti, Simona Aracri*	Company Presentation *MDM Team*	Heterogeneous Autonomous Robotic System in Viticulture and Mariculture *Zdenko Kovačić, Nadir Kapetanović*	Ocean observation technologies Company pitches	FIELD TRIP
12:00 - 12:15							
12:15 - 12:30							
12:30 - 13:00		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
13:00 - 13:45							
13:45 - 14:00		T1 Intro - Getting started with Reeds, the world's largest dataset for perception algorithms *Reeds*	T3 Intro - "Work Class" ROVs for Underwater Operations *MARS*	T5 Intro - Marine object detection using MARUS generated dataset *Ivan Lončar, Natko Kraševac, Juraj Obradović*	T7 Intro - Guidance and control of UMVs *CNR, MONUSEN*	Public, stakeholders, users presentations	
14:00 - 14:15							
14:15 - 14:30							
14:30 - 14:45		T2 Intro - Underwater localization of acoustic sources – principles and approaches *challange, INESC-TEC*	T4 Intro - Multibeam echosounder (MBES) *GEOMAR*	T6 intro - Localization challenge *challenge, University of Haifa*			
14:45 - 15:00							
15:00 - 15:15							
15:15 - 15:30		BREAK	BREAK	BREAK	BREAK	COFFEE BREAK	
15:30 - 16:00		T1 Reeds T2 INESC-TEC DEMO H2O	T3 MARS T4 GEOMAR DEMO KTH	T5 simulator, Ivan Lončar T6 University of Haifa DEMO MDM Team	T7 CNR DEMO Buoys DEMO ASV Korkyra	Panel discussion	
16:00 - 16:30							
16:30 - 17:00	REGISTRATION					Challenge presentations	
17:00 - 17:30							
17:30 - 18:00							
18:00 - 18:30	WELCOME DRINK						
18:30 - 19:00							
19:30 - 20:30	DINNER	DINNER	DINNER	DINNER	DINNER	GALA DINNER AND CLOSING CEREMONY	
20:30 - 21:00		IEEE OES UNIZG PARTY	WOMEN IN BLUE		PUB QUIZ		
From 21:00						BTS KARAOKE NIGHT	

LABUST CUST IEEE OES IEEE Oceanic Engineering Society Interreg Italy - Croatia InnovaMare European Regional Development Fund EUROPEAN UNION MONUSEN