

Marine Robotics Workshop

Friday 20th October, 2023, 11.45-13.30

hosted at the
Italian Conference on Robotics and Intelligent Machines
<http://www.i-rim.it>
Rome, Fiera di Roma, Pav. 5 Room O

Organizers

Alessandro Ridolfi	ISME - Univ. Firenze	alessandro.ridolfi@unifi.it
Gianluca Antonelli	ISME - Univ. Cassino	antonelli@unicas.it
Giovanni Indiveri	ISME - Univ. Genova	giovanni.indiveri@unige.it

Scope and format

Over 70% of our planet's surface is covered by water and over 96% of all Earth's water is in the oceans. The oceans host a wealth of natural resources and play a key role in environmental and climate change processes. Robotics may provide fundamental tools for studying, understanding, and exploiting the marine environment. Marine Robotics is characterized by specific challenges related to the adverse and harsh physical conditions (underwater pressure, waves, tides, currents, winds, salinity, biofouling, etc.) as well as technological issues (unavailability of electromagnetic transmissions underwater, low bandwidth acoustic communications, complex power management policies, etc.). This Workshop aims to cover the wide range of scientific, industrial and application interests regarding marine robotics. The language will be technical, but not academic to make the contents enjoyable by a not necessarily highly specialized audience. The speakers will illustrate recent trends and technologies and will provide a glance of possible future developments.

Program

Start	End	Friday 20 th October, 2023 @ I-RIM 3D	
11:45	11:55	Welcome, Alessandro Ridolfi, ISME - Univ. Firenze	Robotician, Assist. Professor
11:55	12:15	Davide Cosimo, Italian Navy (CSSN)	T.V., Italian Navy (CSSN)
12:15	12:35	Lino Magnoni, Fincantieri SpA	Head of Unmanned Systems Integration, Fincantieri SpA
12:35	12:55	Andrea Caffaz, Graal Tech Srl	Robotician, CEO, Graal Tech Srl
12:55	13:15	Gianluca Antonelli, ISME - Univ. Cassino	Robotician, Full Professor
13:15	13:30	Discussion	-