

Marine Robotics Workshop

Friday 7th October, 2022, 10.00-13.00

hosted at the
Italian Conference on Robotics and Intelligent Machines
<http://www.i-rim.it>
Rome, Istituto Superiore Antincendi, room 19

Organizers

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, fouling, etc.) as well as technological issues (unavailability of electromagnetic transmissions underwater, low bandwidth acoustic communications, complex power management policies, etc.). The Workshop's aim is to cover the wide range of scientific, industrial and application interests regarding marine robotics. The language will be technical, but not academic aiming at making 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 7 th October, 2022 @ I-RIM 3D	
10:00	10:10	Welcome, Prof. Gianluca Antonelli, Univ. Cassino	
10:10	10:30	Simonetta Frascetti, Univ. Napoli Federico II	Biologist
10:30	10:50	Mirko Stifani, Italian Navy	Cdr Navy
10:50	11:10	Vincenzo Calabrò, MDM	Robotician
11.20	11.40	coffee break	
11:40	12:00	Gianluca Antonelli, ISME - Univ. Cassino	Robotician
12:00	12:20	Chiara Petrioli, Wsense	Founder & CTO, Wsense SRL.
12:20	12:40	Barbara Davidde, Beni culturali	Archaeologist
12:40	end	Discussion	