



POLAR ROBOTICS TRAINING

“Arctic Campaign preparation”
19th April 2018
University of Zagreb

VENUE

University of Zagreb
Faculty of Electrical Engineering and Computing



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691980.



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PREREQUISITES FROM PARTICIPANTS

None

SCHEDULE

Day 1: 19th April 2018 (Thursday)

15:00 – 15:20	Meet and greet coffee
15:20 – 15:30	Introduction of the expert and the attendees
15:30 – 16:30	Session 1: EXCELLABUST field training @ Svalbard - campaign preparation: logistic and technical aspects- Massimo Caccia
16:30– 17:00	Session 2: Presentation of CNR Institute of Marine Engineering – Massimo Caccia



POLAR ROBOTICS TRAINING PLANNED OUTCOMES:

- How to manage a field robotics campaign in polar environment
- being aware of the impact of logistic preparation
- being aware of preliminary technical work
- being prepared for the field training foreseen for May 2018
- Lesson learned

LECTURE DESCRIPTION:

Session 1 – EXCELLABUST field training @ Svalbard - campaign preparation: logistic and technical aspects

Description of Dirigibile Italia station, including how to reach and accommodation

Campaign preparation

- Logistics: travel & accommodation, lab booking, support vessel booking, material transportation
- Rule compliance: radio frequencies, ...
- Robotics: robot preparation, new tools design & development

Campaign organisation

- draft plan of operations

Session 2 – Presentation of CNR Institute of Marine Engineering (CNR-INM)

Mission and vision of CNR-INM

Impact on EXCELLABUST

Opportunities for CNR – UNIZG cooperation



BIOGRAPHIES OF LECTURERS



Massimo CACCIA

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Director of CNR-ISSIA since October 16th 2013. Principal investigator of the projects: "SEa Surface Autonomous MODular unit" funded by the National Program of Research in Antarctica (2002-2004), "Harbour and coastal underwater anti-intrusion system" funded by IARP-FESR (2005-07), "Unmanned Multipurpose Vessel" funded by the Scientific and Technological Park of Liguria (2007-08), EC projects MINOAS, CART and MORPH (regarding CNR contribution), funded by EC. He is member of the Steering Committee of the EC project EXCELLABUST, and of the Advisory Board of the EC project BRIDGES. He was NOC-Chair of the 9 th IFAC Conference on Manoeuvring and Control of Marine Craft and Exhibit Co-Chair for the organization of the MTS/IEEE Oceans'15 Genova Conference. From 2010 he is member of the IFAC Technical Committee 7.2 Marine Systems. From 2010 to 2011 he was member of the Technical Scientific Committee on innovation in shipyards of the Italian Ministry of Infrastructures and Transport. From 2011 to 2017 he was member of the Board of Directors of the Ligurian District of Marine Technologies. From 2014 to 2016 he was designated chair of the topics group 'Marine robotics' in euRobotics AISBL. From 2018 he is CapTech Governmental Expert in CapTech Guidance, Navigation and Control (GEM 04 GNC) in the framework of the European Defence Agency.
