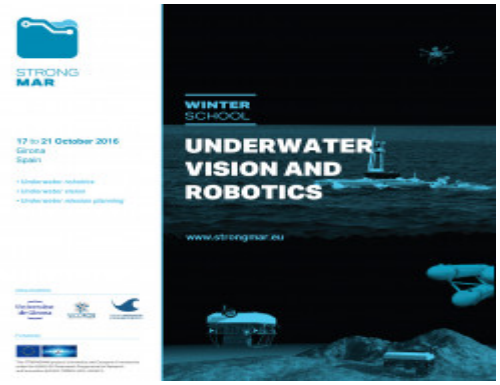
Winter School on Underwater Vision and Robotics

The Winter School on Underwater Vision and Robotics was held at Girona (Spain) from the 17th to the 21st of October 2016. It was organised by our partners of the Universitat de Girona (ViCOROB – Computer Vision and Robotics Research Group and CIRS – Girona Underwater Vision and Robotics Research Centre). The programme comprised lectures on underwater robotics, underwater vision and underwater mission planning; and hands-on training on underwater vision and underwater mission planning.



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INESC TEC is strongly committed to become a centre of excellence in maritime technology and, in particular, deep sea technology. It is strategically located, with fast access to deep sea, it has been steadily building up its skills, capabilities and resources, and is presently in the process of implementing an open research infrastructure (TEC4SEA), thus preparing itself to become capable of providing services and open access to the European academic and industrial communities and, thus, become a recognized European maritime research asset.

The STRONGMAR project aims at creating solid and productive links in the global field of marine science and technology between INESC TEC and established leading research European institutions, capable of enhancing the scientific and technological capacity of INESC TEC and linked institutions (as well as the capacity of partnering institutions involved in the twinning action), helping raising its staff's research profile and its recognition as a European maritime research centre of excellence.

These objectives will be fulfilled through a set of measures: summer schools, winter schools, short-term scientific meetings, long-term staff visits, networking meetings, workshops, conferences, technology transfer workshops with stakeholders, and

other dissemination activities. Therefore, the STRONGMAR project places INESC TEC as the pivot of a network of excellence, involving four European partners which are international leaders in deep sea technology.

The STRONGMAR project is coordinated by INESC TEC (Portugal), and the consortium comprises CINTAL (Portugal), the Heriot-Watt University (Scotland, United Kingdom), the NATO Science & Technology Organization (Belgium), the Universitat de Girona (Spain) and the University of Aberdeen (Scotland, United Kingdom).

The training strategy is based on sessions touching multidisciplinary aspects, followed by sessions focused on specific fields of expertise, allowing researchers to improve their knowledge and preparing them for the research and implementation challenges in the sea harsh environment.

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Lectures

• “Introduction to Underwater Vision”, Nuno Gracias, Rafael Garcia and Ricard Campos (UdG, ViCOROB, CIRS)

• “Path Planning”, Marc Carreras (UdG, ViCOROB, CIRS)

• “Topology Estimation and Global Alignment”, Ricard Campos, Nuno Gracias and Rafael Garcia (UdG, ViCOROB, CIRS)

• “COLA2 - Component Oriented Layered-based Architecture for Autonomy”, Narcís Palomeras (UdG, ViCOROB, CIRS)

Hands-on training

• COLA2 implementation, Narcís Palomeras and Juan Vega (UdG, ViCOROB, CIRS)

• Building a photomosaic, Ricard Campos and Rafael Garcia (UdG, ViCOROB, CIRS)

The school participants were all students and researchers from the Centre for Robotics and Autonomous Systems (CRAS) of INESC TEC, which presented and

discussed their research activities and interests.

More information at www.strongmar.eu.

Mots-clés

winter school, training, learning, twinning, R&D, cooperation, algorithms, statistics, data processing, research, development, testing, field trials, robotics, underwater technology, autonomous vehicles, AUV, autonomous underwater vehicles, underwater robotics, vision, underwater vision, underwater mission planning, COLA2, Component Oriented Layered-based Architecture for Autonomy, photomosaic

Pays

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Projets connexes

HORIZON 2020

PROJET

STRONGMAR

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