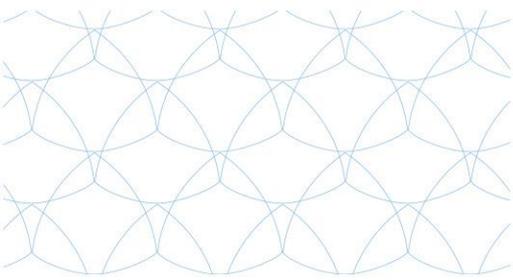


EXCELLABUST
EXCELLING LABUST IN MARINE ROBOTICS

INNOVATION MANAGEMENT TRAINING 1

18 July 2016

Consiglio Nazionale delle
Ricerche



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1. VENUE

CNR Research Area in Genoa - Sala Leonardo, 11th floor
Address: Via De Marini 6, 16149 Genoa, Italy

2. SCHEDULE

Day 1: 18 July 2016 (Monday) - Patent: a tool to promote innovation (basic fundamentals)

09:15 - 09:45	Participant registration. Meet and greet coffee
09:45 - 10:00	Presentation and introduction to IPR Training Session by Silvia Cella, Alessia Naso
10:00 - 10:30	Overview on Intellectual Property Rights (IPR) by Silvia Cella, Alessia Naso
10:30 - 11:00	Patent system: rules and rights by Silvia Cella, Alessia Naso
11:00 - 11:30	Patent requirements: Novelty and Inventive Step by Silvia Cella, Alessia Naso
11:30 - 11:45	BREAK
11:45 - 12:15	Patent procedures @ European Patent Office (EPO) by Silvia Cella, Alessia Naso
12:15 - 12:45	IPR in EU-Projects by Raffaella Beroldo
12:45	LUNCH BREAK

3. LECTURE DESCRIPTION:

1. Presentation and introduction to IPR Training Session

In this lecture we will give a first glance on Intellectual Property Rights and we will highlight the basic principles of the patent systems and the protection of inventions.

2. Overview on Intellectual Property Rights (IPR)

We will present an overview of the different forms of Intellectual Property for protecting your research results and for giving value to your ideas. We will briefly introduce the legal rights conferred by patents, trademarks, registered designs, copyright and trade secrets, as well as what they protect and how to obtain them.

3. Patent system: rules and rights

We will focus our lecture on the main aspect on the Patent system: inventorship and co-ownership, priority date and publication, duration and country validation.

4. Patent procedures @ European Patent Office (EPO)

This lecture will present the procedures to apply for a European patent application according to the European Patent Convention (EPC) or to apply for an international patent application through the PCT (Patent Co-operation Treaty) way: filing, Search Report and examination, granting and validation.

5. IPR in EU-Projects

This lecture will focus on the importance of the IP Management in Horizon 2020 at the proposal stage.

4. DESCRIPTION OF THE PARTNER INSTITUTION:



The CNR is a public organization with a duty to carry out, promote, transfer and improve research activities. CNR is distributed all over Italy through a network of institutes aiming at promoting its competences and at facilitating contacts and cooperation with local firms and organizations. The Institute of Studies on Intelligent Systems for Automation (CNR- ISSIA) focuses its research on topics as robotics, automation, signal and image processing, measurement and decision support systems based on soft-computing techniques for complex applications. CNR-ISSIA has particular experience in the development of unmanned marine vehicles for observation, sampling, exploration and protection application, as well as in acoustic and imagery data fusion and analysis for environment modeling and multi-dimensional reconstruction.



CNR-ISSIA has almost twenty years of research experience in the field of marine robotics, supported by the development of Remotely Operated Vehicles, Unmanned Surface Vehicles and underwater manipulators such as: Roby (1990-1992); Roby2 (1992-1997), an ROV with depth rating of 200 m, currently exhibited at the National Museum of Antarctica in Genova; Romeo (1997-today), a high manoeuvrability ROV with depth rating of 500 m; Charlie (2003-today), an unmanned catamaran originally designed for sampling sea surface microlayer; ALANIS (2008-today), an unmanned RIB-like vessel designed for the monitoring of coastal areas; AMADEUS work-cell, consisting of a couple of 7 degrees of freedom electro-mechanical underwater manipulators (EC Project AMADEUS - Advanced manipulation for deep underwater sampling, 1997-'99). These robots were exploited in scientific campaigns in Antarctica, Arctic and Mediterranean, validating different operational conditions of remote control, including satellite Internet-based tele-operation. Among other topics, research activity is focused on optical and acoustic motion estimation, development of specific devices, and cooperative control of teams of vehicles. CNR- ISSIA was partner of the EC FP7 Innovative Product Concepts project MINOAS - Marine INSpection rObotic Assistant System, for the development of a vessel-inspection system based on multiple cooperative vehicles and virtual reality; EC FP7-SME CART - Cooperative Autonomous Robotic Towing system, a robotized system for the recovery of the towing line of distressed vessels. CNR is currently partner of the EC FP7-ICT MORPH - Marine robotic system of self-organizing logically linked physical nodes, a new concept for cooperative UUVs; the EC FP7 Collaborative Project CADDY - Cooperative autonomous diving buddy, for the diver operations support by means of cooperative robotic platforms. CNR is coordinator of the Italian Flagship Project RITMARE focused on research activities related to marine and maritime science and technologies. CNR is partner of the Italian project MARIS - Marine Autonomous Robotics for InterventionS, focused on cooperative underwater mobile manipulation.

5. BIOGRAPHIES OF LECTURERS



Silvia Cella

Website: <http://www.cnr.it/sitocnr/IICNR/Innovazione/Valorizzazione.html>

Email: silvia.cella@cnr.it

Silvia Cella has a degree in physics and a master science in materials science. In 2002 she started working in Italy for a public research organization at its Technology Transfer Office, dealing with the protection and the exploitation of research results and gaining over the years skills on IPR's management. In addition to the activities of patent support and IPR portfolio management, she has experience in negotiation assistance and drafting of technology transfer agreements (i.e. patent and know-how license agreements, confidentiality agreement - NDA & MTA, consortium agreement etc.) and also in IPR management in collaborative and industrial research contracts.



Alessia Naso

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Alessia Naso has a degree in Biology and a Doctorate in Material Science and Technology. Just graduated she conducted research activities in the field of biophysics, molecular biology and biotechnology. Since 2008 she started working at CNR Technology Transfer Office, dealing with the protection and the exploitation of research results and gaining over years skills on IPR's management (patents, new plant varieties, trademarks). In addition to the activities of patent support and IPR portfolio management, she has experience in negotiation assistance and drafting of technology transfer agreements (i.e. patent and know-how license agreements, confidentiality agreement - NDA & MTA, consortium agreement etc.) and also in IPR management in collaborative and industrial research contracts.



Raffaella Beroldo

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Raffaella Beroldo: Person in charge of the "Office for technical and financial support to the project planning, the procurement and the management of the outside funds" for ISSIA's branches. The activity done since year 2002 on V-VI-VII European Framework Programme, National and Regional Programmes was to the support the Scientific Network in monitoring the grant opportunities, proposals submission, legal/financial monitoring during the life-cycle of EU projects, definition of roles and responsibilities and management structure in the project, content analysis of contract between the funding body and the consortium, negotiation of projects, contract management and amendments, check of the compliance of the project budget and expenditures with the programme financial rules. She has been in charge as delegated member for the Italian State to participate to the European Synchrotron Radiation Facility (ESRF) Administrative Financial Committee for the Year

2007-2008. She has been a member of the *External user group for the new grant management system (SyGMa)* for Horizon 2020 arranged by the European Commission. Since 2012, she is member of the Management Supporting Team of CoCoNet Project (GA no. 287844). She is European Commission independent expert for R&I (id EX2013D138353).