

## Formulário Relatório Final - Componente Científica

[Componente Científica Lacrada com Sucesso a 29-05-2015]

<< Voltar Formulário Relatório Final

### 1. Identificação do Projecto

**Referência do Projecto:** PEst-OE/EEI/LA0009/2013

**Investigador Responsável:** João José dos Santos Sentieiro

**Instituição Proponente:** Associação do Instituto Superior Técnico para a Investigação e o Desenvolvimento (IST-ID)

**Data de Início:** 01-01-2013 **Data de Fim:** 31-12-2014 **Financiamento Concedido:** €2.376.044,00

### 2. Caracterização Sumária do Projecto

#### Objectivos do Projecto (indicar endereço electrónico do(s) site(s) criado(s), quando aplicável)

The research activities of the LARSyS are organized in five thematic areas: A-Complex Systems in Engineering and Fundamental Sciences; B-Sustainable Urban Systems and Technologies; C-Sustainable Energy, Environment, and Economic Development; D-Ocean Systems Technology; and E-Ocean Resources and Ecosystems. These, in turn, are supported scientifically by the eleven research groups that compose the LARSyS: IMAR-Centre of IMAR of the University of the Azores; CREMINER- Centre of Mineral Resources, Mineralogy, and Crystallography of the University of Lisbon; LEES-Laboratory for Energy and Environmental Studies of the Center for Innovation, Technology and Policy Research at Instituto Superior Técnico (IN /IST); LTPM-Laboratory of Technology Policy, and Management of Technology of IN /IST; LTCES-Laboratory of Thermofluids, Combustion and Energy Systems of IN /IST; DSOR - Dynamical Systems and Ocean Robotics Laboratory of the Institute for Systems and Robotics at IST (ISR/IST); ESBE-Evolutionary Systems and Biomedical Engineering of ISR/IST; IRS-Intelligent Robots and Systems of ISR/IST; SIPG-Signal and Image Processing Group of ISR/IST; VisLab - Computer and Robot Vision Laboratory of ISR/IST; and CAMGSD-Center for Mathematical Analysis, Geometry and Dynamical Systems of IST. Thematic area A addresses challenging theoretical problems in a number of topics that include: Nonlinear Systems and Optimization problems, motivated by engineering applications in control, estimation, and decision theory that are the core of important research activity pursued at the DSOR, SIPG, and VisLab; Fluid Dynamics and Turbulence, particularly in chaos and turbulence problems, also addressed by LTCES; and Mathematical Methods for Fundamental Science and Engineering, involving modern techniques of algebraic, differential, and symplectic geometry, and nonlinear differential equations with a view to applications such as signal and image processing on manifolds, in strong collaboration with the SIPG and VisLab. Random matrix theory also encompasses a set of powerful tools, which are key to the design of modern engineering systems. Thematic area B provides a comprehensive approach to R&D focused on the following topics: Surveillance and Activity Monitoring; Urban Metabolism: Natural resources usage in economic activities; Networked Robot Systems; Human- Environment Interaction; and Distributed Inference in Sensor Networks and Environmental Surveying. The contributions from these broad areas will provide the diversity and richness that foster cooperation across research groups and visionary multidisciplinary research. Thematic area C is intended to undertake multidisciplinary research aiming at developing complex engineering systems and technologies to promote sustainability, namely in terms of the needs to secure socio-economic development and the quality of the environment, creating a more prosperous and sustainable society. In this context, enabling technologies are developed and assessed under a systems view, comprising the use and environmental implications of materials, energy, and products in modern societies. The work programme of thematic area D sets forth the key goal of carrying out research and development work in ocean technology, with a view to scientific and commercial applications. At a technological level we strive to bring advances in robotics, communications, complex systems, and information theory to bear on the development of advanced marine systems and platforms that will afford marine scientists far more efficient tools than available today to study the ocean and its frontiers. Portugal holds the exclusive jurisdiction and economic rights of a large area of the Atlantic seafloor. A major goal is to increase the relatively limited national knowledge on marine resources and the functions and services of ocean and deep-sea ecosystems. In thematic area E the research work focuses on key issues of ecosystem functioning in a time of change, anthropogenic climate change, and the exploitation of ocean biotic and mineral resources. The latter activity includes bio-telemetry studies of top predators along with the mapping of key habitats; study of systems geochemistry and genesis, evolution, and utilization of the earth's crust, the Earth's surface to the ocean seafloor; experimental research in the areas of genomics, proteomics, immunology, ecological toxicology, molecular biology, physiology, and calcification processes; gene expression and physiological reactions in deep sea vent animals; husbandry and experimentation with deep-water corals. Under this thematic area, emphasis is given to the development and application of scientific knowledge on marine life conservation and sustainable use of living resources of the North Atlantic, including the slopes of the islands, deep sea, all adopting an open ocean ecosystem perspective.

#### Breve descrição das actividades desenvolvidas bem como dos desvios ocorridos durante a execução do projecto

During the period of 2013-14, LARSyS has continued developing research activities in the context of the different groups/units as well as in the framework of the thematic areas of the Associate Laboratory. These activities are described in detail in the following sections. In what follows we summarize the main highlights and indicators during the last two years. a) Key Achievements of the LARSyS Units during the 2013-14 Period The ISR/LARSyS has been involved in 9 EC FP7 projects (TRIDENT, MORPH, RoboSoM, HANDLE, FIRST-MM, Dicores, POETICON, 2 coordinated by ISR – RoCKIn and MOnarCH) covering topics such as cooperative formation control of autonomous marine vehicles (AMVs), underwater mobile manipulation, humanoid navigation, coordination and grasping using vision and inertial sensors, robot competitions and interaction between human groups and a networked robot system; an ESA project MVFLAU using S-estimators applied to the real time estimation of inertia and center of mass of spacecrafts; and 14 national projects (including 1 QREN and 1 CMU-Portugal) covering topics such as video surveillance networks, managing the extended Portuguese continental platform, integration of EEG and fMRI data, with applications in epilepsy and motor activity, algorithms for Integrated Ultra Short Baseline and Inertial Navigation Systems with applications to AMVs, development and validation of filters for SLAM, with application to unmanned aerial vehicles and development of a new nonlinear filter structure for distributed underwater Terrain-Aided Navigation. These projects involve multiple groups within LARSyS and illustrate the visibility and the quality of the research work carried out by the LARSyS investigators. In the area of Industrial Ecology and Sustainability, IN /LARSyS has further developed the income approach to carbon, with worldwide calculations at the regional and country level. The Research Program on Urban Metabolism and Sustainable Cities (UMSC) was launched and advances were made in urban metabolism, with new applications in Asian and Latin American cities. Economic, environmental and social analysis of the impact of the Portuguese recycling sector was carried out. In the area of Thermofluids, Combustion and Energy Systems experiments addressed two-phase heat transfer in microchannels, pool boiling over micro structured surfaces, dynamics of the wettability of patterned and natural surfaces; flame diagnostics, propagation and control; and Flame acoustics. In the area of Technology Policy and Management a new set of data was explored for the period 1970-2010 in Portugal. The results show the need to consider the co-evolution of brain gain, brain drain and brain circulation over time and space. In addition, the analysis focused on patterns of knowledge production and diffusion, looking specifically at the role of new technology based firms, towards revisited industrial policies. IMAR-Az/LARSyS has, under FP7 project MORPH, and in cooperation with ISR/IST, completed the first stage towards the joint development of a pioneer underwater robotic system based on the integration of multiple marine robotic nodes carrying different sensors and capabilities to map inaccessible habitats and biological communities of cold water-corals in vertical cliffs and overhangs. The concept of a seamount dedicated to science was consolidated. The seamount Condor observatory is now the only running experiment in the world of its kind, allowing a holistic study of seamount ecosystems. There is a special issue of the journal Deep-Sea Research II dedicated to this problem. LARSyS is involved in the international effort for defining the basic requirements for environmental assessment of deep-sea mining, being a WP coordinating partner at the FP7 project MIDAS. The research activities of CAMGSD/LARSyS developed along three main areas: Dynamical Systems; Geometry and Topology; and

NonLinear Analysis and Differential Equations. The contribution of this Center to the total number of publications by Portuguese researchers in international scientific journals in these areas continues to be very significant. During 2013-2014 the members of CAMGSD published 8 books or monographs, 184 articles in international scientific journals and 15 communications in refereed proceedings. In addition, 62 other submitted publications were accepted in international journals and will appear soon. Moreover the Center organized 19 international conferences and maintained 11 periodic seminars. M-ITI/LARSyS has deployed and evaluated several digital art installations to understand the possibilities of art in engaging people and raising awareness for sustainable behaviors. Also several publications report on the use of tangible games for promoting sustainable behavior and work with children in the education domain was developed aiming to foster sustainable values. At the technical level, several non-intrusive load monitoring and transportation sensors were tested in a real-world scenario to detect energy and transportation related behaviors. Work continued on the development of a distributed architecture for motor and cognitive neuro-rehabilitation (rehabNet) for the elderly. In the area of creative media, several digital art installations were deployed and tested in real-world scenarios. The MStoryG panel was installed in the airport of Madeira and tested with passengers to understand their adoption and engagement with repurposed technology. In 2013, M-ITI/LARSyS was awarded one of the first pilot EU grants for an ERA Chair in a total of funding of 2,35M€ for a period of 5 years (LEAPFROG HCI-DI). Our recruiting efforts led to the hiring of Christopher Csikszentmihályi, a leading researcher in HCI and Design Innovation known for developing political technologies that rebalance power between citizens, corporations, and governments. Creminer/LARSyS has focused, particularly, in the fields of (1) seabed mineral exploration; (2) study of mineral deposits on land, mostly, but not exclusively, on the Iberian Pyrite Belt; (3) on experimental development, with the stable isotope lab, and (4) on public outreach, where Centro Ciência Viva do Lousal stands out. Creminer members have completed extremely influential presentations, including in the most relevant scientific bodies and also in political organizations such as the European Parliament. b) Advanced training, community building and outreach Throughout this period, LARSyS has nurtured the dimension of advanced training as one of the pillars of its activities. This has been done at the MSc and (mostly) doctoral levels and includes the partnerships with the MIT, CMU, UTAustin and EPFL. In the period 2013-14, an outstanding number of 5 FCT Doctoral Schools with the LARSyS units acting as leaders in most cases, have been approved for funding: - "Robotics, Brain and Cognition" (ISR), - "Networked Interactive Cyber Physical Systems" (ISR and MITI), - "Sustainable Energy Systems" (IN), - "Digital Media" (MITI) - "Engineering Design and Advanced Manufacturing Systems" (IN). In 2013 and 2014, LARSyS organized its Annual Workshop, hosted at the Pavilhão do Conhecimento - Agência Ciência Viva, a very successful and lively event that gathered more than 100 researchers, doctoral students, international researchers and representatives from the industry and from LARSyS spinoff companies. The 2013 and 2014 Workshops have encompassed different types of sessions: (i) identification of strategic topics; (ii) interaction with industries and other stakeholders; (iii) innovation-oriented panels and discussions with spin-offs and (iv) scientific presentations and promotion of synergies amongst LARSyS researchers. c) Deviations from the original plan There are no major deviations relative to the plan foreseen initially. However it should be noted that the LARSyS FCT funding has been significantly reduced when compared to recent years. While this has not apparently had an immediate impact in several performance indicators, it has hampered the capacity to attract and sustain young researchers at the doctoral and post-doctoral levels and has created obstacles concerning the participation in international conferences and the possibility to purchase and maintain a sophisticated research infrastructure. In spite of the renovated effort to capture external funds by all LARSyS units and groups, we share the concern that such important and sudden reductions in the funding will undoubtedly impact negatively on LARSyS future research capacity and output.

#### Objetivos atingidos

Altogether, the LARSyS objectives have been attained in the different units and research groups. In the period under consideration, LARSyS units have produced 63 Doctoral graduates and over 658 papers in prestigious international journals. We have now 5 international doctoral programs partially funded by FCT and involving premium universities like the MIT, CMU, UTAustin and EPFL. These programs demonstrate the commitment of LARSyS towards advanced training and international cooperation. During 2013-14, LARSyS has produced several key results as described in the sections dedicated to the detailed activities our groups and thematic areas but we have also strengthened our involvement with top international partners and the development of a cutting edge research infrastructure in the various areas. The unique multidisciplinary nature of LARSyS, including science, engineering and economic domains has produced many innovative research questions and results which are now paving the way for future collaborations and endeavours at the national and international levels.

#### Realização Financeira (justificação sumária dos desvios ocorridos durante a execução do projecto)

There were no major changes in the 2013-14 as compared with the approved proposal. However the unexpected cut in funding for the whole period that was communicated in the beginning of 2013, had a substantial impact on the hiring of new researchers and update of existing research infrastructures, in spite of the effort undertaken to secure additional research funds.

### 3. Instituições que Participam no Projecto

Designação	Nº Pessoas Mês	Desistiu
Associação do Instituto Superior Técnico para a Investigação e o Desenvolvimento (IST-ID)	363	
Fundação da Faculdade de Ciências da Universidade de Lisboa (FFC/FC/UL)	16	
IMAR - Instituto do Mar (IMAR)	88	
MITI - Madeira Interactive Technologies Institute - Associação (Madeira-ITI)	57	

### 4. Equipa de Investigação

Nome	Cargo Função	Tarefas	%Tempo	Dt. Entrada	Dt. Saída	Desistiu
João José dos Santos Sentieiro	Inv. Responsável		5%			
Ana Sofia Oliveira Henriques Moita	Investigador		100%			
Diogo Luís de Castro Vasconcelos de Aguiar Gomes	Investigador		50%			
Vanda Alexandra Santos do Carmo	Investigador		50%			
Hugo Duarte Alves Horta	Investigador		100%			
Miguel Rosa Oliveira Panão	Investigador		80%			

António Luis Nobre Moreira	Investigador		50%			
Maria Marti Sanchez	Investigador		10%			
Jorge Ricardo Botelho de Medeiros	Investigador		100%			
José Manuel Vergueiro Monteiro Cidade Mourão	Investigador		50%			
Carlos Manuel Guilherme Lage Teixeira	Investigador		100%			
Ricardo Filipe Chorão da Silva Vieira	Investigador		100%			
Inês do Carmo Alves Martins	Investigador		100%			
Nelson Ricardo Perdigão Pereira	Investigador		100%			
Ricardo Piedade Abreu Serrão Santos	Investigador		70%			
Ana Rosa Rebelo Trancoso	Investigador		100%			
Alberto Adrego Pinto	Investigador		10%			
Margarida Maria Nunes Silva R. M. Mendes Lopes	Investigador		50%			
Joana Serra da Luz Mendonça	Investigador		25%			
António Miguel Areias Dias Amaral	Investigador		100%			
Roger Francis Picken	Investigador		50%			
Carlos Miguel da Costa Fernandes	Investigador		100%			
Manuel Frederico Tojal Valsassina Heitor	Investigador		15%			
Carlos Jorge Ferreira Silvestre	Investigador		50%			
José Alberto Rosado Santos Victor	Investigador		50%			
Luis Manuel Gonçalves Barreira	Investigador		50%			
Tiago Morais Delgado Domingos	Investigador		50%			
Agostinho Claudio da Rosa	Investigador		50%			
Paulo Manuel Cadete Ferrão	Investigador		50%			
Leonor Pires Marques Oliveira Godinho	Investigador		50%			
Raul Manuel Cordovil Cordeiro Vinagre	Investigador		50%			
Paulo Jorge Coelho Ramalho Oliveira	Investigador		50%			
Carlos Filipe Justo Moura	Investigador		100%			
Maria da Conceição Carvalho Magalhães	Investigador		100%			
José Joaquim Delgado Domingos	Investigador		50%			
Eduardo José Louçã Florêncio Isidro	Investigador		60%			
Fernando Paulo Estrela Pinho Almeida	Investigador		50%			
José Antonio Agapito Ruiz	Investigador		10%			
Vitorino Jorge Castelo Ramos	Investigador		10%			
Jorge Sebastião Lemos Carvalho Buescu	Investigador		10%			
Vitor Manuel Vieira Lopes	Investigador		20%			
Joël Jean-Michel BRIED	Investigador		100%			
Raul Bettencourt	Investigador		100%			

<b>Pedro Manuel Agostinho Resende</b>	Investigador		50%			
<b>Silvia Nogueira da Rocha Ravasco dos Anjos</b>	Investigador		50%			
<b>Gabriel Paulo Alcantara Pita</b>	Investigador		50%			
<b>Edgar Caetano Fernandes</b>	Investigador		50%			
<b>Teodoro José Pereira Trindade</b>	Investigador		100%			
<b>Maria Esmeralda Rodrigues de Sousa Dias</b>	Investigador		50%			
<b>Helena Maria Campos Martins</b>	Investigador		50%			
<b>Carlos Alberto Varelas da Rocha</b>	Investigador		50%			
<b>João Luís Pimentel Nunes</b>	Investigador		50%			
<b>Patrícia Margarida Piedade Figueiredo</b>	Investigador		50%			
<b>Miguel Tribolet de Abreu</b>	Investigador		50%			
<b>Ricardo Pina Schiappa de Carvalho</b>	Investigador		50%			
<b>João Fernando Cardoso Silva Sequeira</b>	Investigador		50%			
<b>Nuno Manuel de Castro Santos Arantes e Oliveira</b>	Investigador		100%			
<b>Michael Joseph Paluch</b>	Investigador		50%			
<b>Jorge dos Santos Salvador Marques</b>	Investigador		50%			
<b>João Manuel Farinha Ramos</b>	Investigador		25%			
<b>Rosa Isabel Sena Neves Gomes Durão Dias</b>	Investigador		50%			
<b>José António da Cruz Pinto Gaspar</b>	Investigador		50%			
<b>António Manuel dos Santos Pascoal</b>	Investigador		50%			
<b>Fernando José Arraiano de Sousa Barriga</b>	Investigador		40%			
<b>Pedro Jorge Sequeira Cardoso</b>	Investigador		20%			
<b>Waldyr Muniz Oliva</b>	Investigador		30%			
<b>Henrique Manuel dos Santos Silveira de Oliveira</b>	Investigador		50%			
<b>Fernando Manuel Pestana da Costa</b>	Investigador		50%			
<b>Sérgio Manuel Machado Jesus</b>	Investigador		50%			
<b>João Luís Gonçalves Dias Ferreira Alves</b>	Investigador		50%			
<b>Eduardo Leopoldo Fermé</b>	Investigador		50%			
<b>Leonel Domingos Telo Nóbrega</b>	Investigador		50%			
<b>João Pedro Castilho Pereira Santos Gomes</b>	Investigador		50%			
<b>José António Maciel Natário</b>	Investigador		50%			
<b>Duarte Nuno Jardim Nunes</b>	Investigador		50%			
<b>Maria Cristina Carvalho de Aguiar Câmara</b>	Investigador		50%			
<b>Nelson Estêvão Martins</b>	Investigador		100%			
<b>Friedrich Hermann Zabel</b>	Investigador		60%			
<b>Orlando Camargo Rodríguez</b>	Investigador		50%			
<b>Jorge Manuel Verdilhão Figueiras</b>	Investigador		40%			

Paulo Jorge da Rocha Pinto	Investigador		50%			
Rui Conde de Araújo Brito Prieto da Silva	Investigador		100%			
Rui António Loja Fernandes	Investigador		50%			
Gustavo Rui Gonçalves Fernandes de Oliveira Granja	Investigador		50%			
Valentina Furtado Leal da Costa	Investigador		50%			
Pedro Ferreira dos Santos	Investigador		50%			
Nuno Miguel Matos Ramos Martins	Investigador		50%			
Humberto Manuel Dias Lopes	Investigador		50%			
Maria da Conceição Pizarro de Melo Telo Rasquilha Vaz Pinto	Investigador		50%			
Cristiano José da Palma Soares	Investigador		10%			
José Leonel Linhares da Rocha	Investigador		10%			
Pedro Alves Martins Rodrigues	Investigador		50%			
João Manuel dos Anjos Gonçalves	Investigador		50%			
Ricardo António de Oliveira Pascoal	Investigador		100%			
José Carlos Pedro Cardoso Matias	Investigador		50%			
Sergio Stefanni	Investigador		100%			
Jorge Filipe Drumond Pinto da Silva	Investigador		50%			
Pedro Alves Martins da Silva Girão	Investigador		50%			
Carlos Armindo Arango Florentino	Investigador		50%			
Luis Pereira de Quintanilha e Mendonça Dias Torres Magalhães	Investigador		50%			
Muriela Hinard de Padua	Investigador		100%			
Mário Rui Rilho de Pinho	Investigador		50%			
Jorge das Neves Duarte	Investigador		50%			
Tânia Alexandra dos Santos Costa e Sousa	Investigador		50%			
Oriana Frederica Rasteiro Magano Lopes Rodrigues	Investigador		100%			
Rita Maria Ferreira da Fonseca	Investigador		45%			
Fernando Manuel Rosmaninho Morgado Ferrão Dias	Investigador		50%			
Ana Margarida de Lencastre Godinho Cannas da Silva	Investigador		50%			
João Paulo Neves Monteiro dos Santos	Investigador		50%			
Maria Joana Mendes Bordalo Ventura	Investigador		50%			
Ana Cristina Malheiro Casimiro	Investigador		50%			
António João Freitas Gomes da Silva	Investigador		50%			
Luis Manuel Marques Custódio	Investigador		50%			
Paulo Jorge Maia dos Santos	Investigador		50%			
Vera Cristina Assis dos Santos Monteiro Fernandes	Investigador		50%			

João Filipe Dias Rodrigues	Investigador		100%			
Marko Stosic	Investigador		90%			
Paulo Alexandre Valentim Semião	Investigador		10%			
Rodrigo Martins de Matos Ventura	Investigador		50%			
Mónica da Silva Cameirão	Investigador		50%			
Alexandre José Malheiro Bernardino	Investigador		50%			
Pedro Miguel Marques Francisco Lopes	Investigador		50%			
Fernando Nuno Costa Tempera	Investigador		100%			
Rui Pedro da Silva Cabrita Carpentier	Investigador		50%			
Carlos Manuel Nunes de Carvalho	Investigador		50%			
Gonçalo Violante Rodrigues	Investigador		10%			
José Luís Martins Borges e Fachada	Investigador		50%			
FERNANDA MARIA RAMOS DA CRUZ MARGARIDO	Investigador		50%			
João Alberto Gil Pereira	Investigador		50%			
Rita Maria Mendes de Almeida Correia da Cunha	Investigador		100%			
Bruno Duarte Damas	Investigador		50%			
Carlos Alberto Pinto-Ferreira	Investigador		50%			
Manuel Fernando Cabido Peres Lopes	Investigador		10%			
Carlos Augusto Santos Silva	Investigador		50%			
Pedro Miguel dos Santos Santana Forte Vaz	Investigador		10%			
Pedro Afonso Agostinho dos Santos	Investigador		100%			
Marco Arien Mackaaij	Investigador		50%			
Maria João Costa Almeida Quintão Pereira Braga	Investigador		10%			
Plinio Moreno López	Investigador		100%			
Mário Abel Carreira Gonçalves	Investigador		50%		26-04-2013	
Pedro Filipe Pereira Campos	Investigador		50%			
João Paulo Salgado Arriscado Costeira	Investigador		50%			
Jorge Miguel Rodrigues Fontes	Investigador		100%			
João Paulo da Silva Pinharanda Gonçalves Magalhaes	Investigador		100%			
Helena Maria de Noronha Krug	Investigador		50%			
Álvaro Manuel Madureira pinto	Investigador		50%			
Carlos Alberto da Costa Almeida	Investigador		40%			
João Maria da Cruz Teixeira Pinto	Investigador		50%			
João Manuel Saldanha Palhoto de Matos	Investigador		50%			
Pedro Miguel Santos Gonçalves Henriques	Investigador		50%			
José Manuel da Silva Ferreira	Investigador		50%			

Luis Camilo do Canto de Loura	Investigador		10%			
Rui Miguel Rodrigues Saramago	Investigador		50%			
António Manuel Atalaia Carvalheiro Serra	Investigador		50%			
Pedro Miguel de Matos da Silva Santos	Investigador		50%			
João Paulo Fernandes Teixeira	Investigador		50%			
Mahendra Prasad Panthee	Investigador		10%			
Maria João Simões Nunes Borges Teixeira	Investigador		50%			
Gabriel Esperança Pires	Investigador		50%			
Claudia Valls Anglés	Investigador		50%			
Bruno Namorado de Oliveira	Investigador		10%			
Sang Seon Kim	Investigador		10%			
Gui Manuel Machado Menezes	Investigador		80%			
Maria Isabel Lobato de Faria Ribeiro	Investigador		25%			
Pedro Manuel Urbano de Almeida Lima	Investigador		50%			
Jorge Manuel Rodrigues de Sancho Relvas	Investigador		50%			
Pedro Manuel Quintas Aguiar	Investigador		50%			
Victor Alberto Neves Barroso	Investigador		20%			
Johannes Martinus Hubertina du Buf	Investigador		50%			
Cristina Maria Marta Rosa Pedroso	Investigador		10%			
Carlos Filipe Gomes Bispo	Investigador		50%			
Alexandra de Carvalho dos Santos Garcia Guerreiro	Investigador		50%			
Cristian Gabriel Munteanu	Investigador		10%			
Telmo Alexandre Fernandes Morato Gomes	Investigador		100%			
Margarida Maria das Neves Estevao Baia	Investigador		50%			
Irma Margarida Andrade Cruz Espregueira Cascão	Investigador		100%			
Luis Filipe de Pinho Oliveira e Costa	Investigador		100%			
Isabel Maria Silveira Ribeiro da Costa	Investigador		50%			
Isabel Maria Amaral Costa	Investigador		25%			
Luis Miguel Guerreiro Galla Gaspar	Investigador		50%			
Raul Carlos Godinho Santos Jorge	Investigador		40%		18-06-2013	
Kim Holland	Investigador		20%			
Carlos Manuel Pinho Lucas de Freitas	Investigador		50%			
Ana Natália Domingues Dias	Investigador		100%			
Ágata Sofia de Carvalho Marques Alveirinho Dias	Investigador		100%			
Susana Dias Brandão	Investigador		100%			
Gonçalo José Monteiro Marques	Investigador		100%			
Cristina Isabel Correia Diogo	Investigador		50%			

<b>Maria Margarida Campos da Silveira</b>	Investigador		50%			
<b>Juha Hans Videman</b>	Investigador		50%			
<b>Helena Maria Sobreiro de Azevedo Isidro</b>	Investigador		30%			
<b>Maria Ana Almeida Colaço</b>	Investigador		100%			
<b>Mónica Cordeiro de Almeida e Silva</b>	Investigador		100%			
<b>Francisco José Sepúlveda de Gouveia Teixeira</b>	Investigador		50%			
<b>Octavio Emanuel Barros Moura Melo</b>	Investigador		100%			
<b>Alexandra Guedes da Rosa</b>	Investigador		100%			
<b>Lina Maria Mateus de Oliveira</b>	Investigador		50%			
<b>RENATO PAULO MARTINS BETTENCOURT</b>	Investigador		100%			
<b>SANDRA ELISABETE GARCIA DA SILVA</b>	Investigador		60%			
<b>SANDRA ANDRADE</b>	Investigador		100%			
<b>RICARDO NUNO GARCIA DOS SANTOS MEDEIROS</b>	Investigador		100%			
<b>JOSE ANTONIO RODRIGUES PEREIRA</b>	Investigador		50%			
<b>Miguel Angelo Gaspar do Couto Chancerelle de Machete</b>	Investigador		100%			
<b>Tânia Sofia Ferreira de Oliveira</b>	Investigador		50%			
<b>Alierta Maria Gonçalves Rosa Pereira</b>	Investigador		50%			
<b>Carmelina Maria da Silva Lima Leal</b>	Investigador		100%			
<b>Maria Domitília Carlos da Rosa</b>	Investigador		50%			
<b>Maria de Fátima Bettencourt Mendes</b>	Investigador		100%			
<b>Humberto Macedo Rodrigues</b>	Investigador		60%			
<b>José da Costa Rodrigues Branco</b>	Investigador		50%			
<b>Leslie Patrick Gallagher</b>	Investigador		30%			
<b>Luís Carlos Nunes Pires</b>	Investigador		50%			
<b>Manuel Fernandes Garcia Serpa</b>	Investigador		70%			
<b>Norberto Manuel Cabral Serpa</b>	Investigador		60%			
<b>Paulo Gilberto Silva Azevedo e Castro</b>	Investigador		50%			
<b>Paulo José Gonçalves Martins</b>	Investigador		100%			
<b>Carla Sofia Marques Chainho Dâmaso</b>	Investigador		50%			
<b>David Sardinha Andrade de Aveiro</b>	Investigador		50%			
<b>Andreia Filipa Domingues Braga Henriques</b>	Investigador		100%			
<b>Pedro Miguel de Azevedo Ribeiro</b>	Investigador		100%			
<b>Isabel Maria Gonçalves Lourtie</b>	Investigador		50%			
<b>Luis Amorim Coelho Sebastiao</b>	Investigador		100%			
<b>Jacinto Carlos Marques Peixoto do Nascimento</b>	Investigador		100%			
<b>Marko Beko</b>	Investigador		20%			

Ana Catarina Henriques da Silva Gonçalves	Investigador		100%			
Hongfei Gong	Investigador		10%			
Miguel Simões Torres Preto	Investigador		50%			
Maria Inês Ferreira Silva da Cruz	Investigador		100%			
Lourenço Manuel Jorge Azevedo	Investigador		100%			
Paulo Jorge Vieira	Investigador		100%			
Maria Adelaide da Rosa Andrade	Investigador		100%			
Victor Manuel da Rosa	Investigador		50%			
José Gabriel Ferreira Matos	Investigador		100%			
Marco Pedro da Rosa	Investigador		100%			
Nuno Miguel Pinho da Silva	Investigador		100%			
Rogério dos Santos Largo	Investigador		25%			
Paulo Alexandre da Silva Felisberto	Investigador		50%			
João Paulo dos Santos Caldeira	Investigador		10%			
João Manuel de Freitas Xavier	Investigador		50%			
Joao Miguel Raposo Sanches	Investigador		50%			
Manuel Cecílio Rufino	Investigador		100%			
Bruno João Nogueira Guerreiro	Investigador		100%			
Fernando Manuel Fernandes Melicio	Investigador		20%			
Mirko De Girolamo	Investigador		50%			
Alexandre Jorge Bonito de Carvalho Calapez	Investigador		100%			
Bruno Miguel Simões Carvalho Cardeira	Investigador		100%			
José Miguel Carrusca Mendes Lopes	Investigador		30%			
Ana Filipa Alfaia Marques	Investigador		100%			
Pedro Viçoso Fazenda	Investigador		50%			
Ricardo Daniel Rita Beira	Investigador		50%			
João Miguel Fernandes Rodrigues	Investigador		50%			
João Miguel Pires Ventura	Investigador		30%			
Roberto Célio Lau Lam	Investigador		50%			
Helen Rost Martins	Investigador		50%			
Ernesto Saias Soares	Investigador		10%			
Cláudia Inês Botelho de Oliveira	Investigador		100%			
SHEILA SANDON	Investigador		10%			
ARMANDO DE AZEVEDO CALDEIRA-PIRES	Investigador		100%			
Filipe Jorge Monteiro de Mora Porteiro	Investigador		50%			
Vitor Diogo da Costa Saraiva	Investigador		10%			
Lucian Radu	Investigador		10%			
Cyntia Coquelet Pinto Mourão	Investigador		20%			
Rafael Silva Sasportes	Investigador		50%			
Joao Pedro Pereira Boavida	Investigador		50%			
Luciana de Melo Santos Génio	Investigador		100%			

<b>Bruno Henrique Prazeres de Melo e Maia</b>	Investigador		10%			
<b>Ricardo Jorge dos Santos Ferreira</b>	Investigador		100%			
<b>Hugo Ricardo Nabais Tavares</b>	Investigador	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-09-2013		
<b>Thomas Gernot Baier</b>	Investigador		10%			
<b>João Lopes Costa</b>	Investigador		50%			
<b>Karl Jonas Patrik Hornstein</b>	Investigador		100%			
<b>Daria Gennadyevna Migotina</b>	Investigador		100%			
<b>Pedro Tiago Martins Batista</b>	Investigador		100%			
<b>Manuel Ricardo de Almeida Rodrigues Marques</b>	Investigador		100%			
<b>Marina Parra Carreiro e Silva</b>	Investigador		100%			
<b>Nuno José Mota Clímaco Pereira</b>	Investigador		100%			
<b>Vânia Andreia Malheiro Proença</b>	Investigador		90%			
<b>Olga Maria Ribeiro de Carvalho</b>	Investigador		100%			
<b>Joao Manuel Queiroz Faria de Oliveira Batista</b>	Investigador		10%			
<b>João Miguel Barreto Nestal Esteves</b>	Investigador		100%			
<b>Rachel Anne Dawe Martins</b>	Investigador		100%			
<b>Porfírio Simões de Carvalho e Silva</b>	Investigador		100%			
<b>Veronica Rodrigues Costa Neves</b>	Investigador		100%			
<b>Sílvia Patricia Pena Lino</b>	Investigador		100%			
<b>Bruno Miguel Gregório Rodrigues</b>	Investigador		50%			
<b>Rafael Domingos Garanito Luís</b>	Investigador		50%			
<b>Alexandra Penedo de Sousa Marques</b>	Investigador		100%			
<b>João Gama Monteiro</b>	Investigador		100%			
<b>Pedro Walmsley Frejlich</b>	Investigador		10%			
<b>Nuno Maria Carvalho Pereira Fernandes Fachada</b>	Investigador		50%			
<b>Marco Paulo Pinheiro Miranda</b>	Investigador		50%			
<b>Ricardo Jorge Duarte Nunes</b>	Investigador		100%			
<b>Maria Teresa Sousa Barros Cerqueira</b>	Investigador		100%			
<b>António Pedro Rodrigues de Aguiar</b>	Investigador		50%			

Maurício Duarte Luís Reis	Investigador		50%			
Juan Pablo Roggiero Ayala	Investigador		10%			
David Alexandre Cabecinhas	Investigador		100%			
João Filipe Machado Almeida	Investigador		100%			
Andre da Silva Graca Arroja Neves	Investigador		5%			
Lina Maria Pestana Leão de Brito	Investigador		50%			
RADOSLAW MARCIN CZAJA	Investigador		100%			
Adriana Isabel Marques da Ressurreição	Investigador		50%			
Verónica Rita Antunes de Soares Quítalo	Investigador		10%			
Catarina de Matos Casimiro Egreja	Investigador		100%			
Emmanuel Pierre Roland Arand	Investigador		60%			
Christopher Kim Pham	Investigador		100%			
Frederic WLA Vandepierre	Investigador		100%			
Daphne Valérie Cuvelier	Investigador		50%			
Maria João Alves de Oliveira da Cruz	Investigador		100%			
Joana Maciel	Investigador		100%			
Riou Virginie	Investigador		100%			
Carlos José Gonçalves Braga	Investigador		100%			
Ruth Margaret Higgins	Investigador		100%			
Patrícia Alexandra da Silva Amorim	Investigador		50%			
Rui Carlos Rosa	Investigador		50%			
Ângela Maria Lourenço Canha	Investigador		50%			
Dália Cristina Cunha Reis	Investigador		50%			
Ana Margarida Pinto dos Santos	Investigador		100%			
Gonçalo Ferreira Cardoso	Investigador		100%			
HUGO MIGUEL CAVALEIRO DIOGO	Investigador		100%			
Helena Margarida Guerra Pinheiro Vieira Reis	Investigador		100%			
Susana Raquel Carvalho Ferreira	Investigador		10%			
Luis Montesano	Investigador		10%			
EVA LÚCIA MARTINS GRAÇA	Investigador		100%			
Vânia Cristina Henriques Silvério	Investigador		100%			
Samuel Pedro de Oliveira Niza	Investigador		100%			
Carla Maria do Rosário Costa	Investigador		100%			
Larry LeRoy Constantine	Investigador		50%			
susana paula gomes luis gonzaga	Investigador		50%			
Ana Isabel Amaral Janeiro Viegas Ferreira	Investigador		100%			
Cláudia Alexandra Magalhães Soares	Investigador		100%			
André Alves Pina	Investigador		100%			
Andrea Catarina Marques Gaspar	Investigador		100%			
Giampiero Salvi	Investigador		10%			

Sandra Cristina Amador Pinelas Ferreira da Silva	Investigador		10%			
Carlos Manuel dos Santos Gonçalves Rito	Investigador		10%			
Filomena Maria Simões Patrício de Almeida Viegas	Investigador		100%			
Augusto José Rabelo Almeida Santos	Investigador		100%			
Matteo Taiana	Investigador		100%			
Loic Thierry Bamdé	Investigador		100%			
Vahid Hassani	Investigador		100%			
Pedro Arroz Correia Bonifácio Serra	Investigador		100%			
Paula Cristina Marques Lourinho	Investigador		50%			
David Miguel Pêgas Afonso	Investigador		100%			
José manuel rocha fontes	Investigador		100%			
Sérgio Daniel Gonçalves Gante Brás	Investigador		100%			
Rodrigo Crisóstomo Pereira Belo	Investigador		100%			
Tatiana Raquel Alves Valada	Investigador		100%			
antónio carlos jardim valente	Investigador		50%			
Hana Gerbelová	Investigador		100%			
Daniela Andreia dos Santos Couto	Investigador		100%			
Inês Filipa Santos Barros	Investigador		100%			
Hugo Miguel Gomes da Silva	Investigador		40%			
Dusan Jakovetic	Investigador		100%			
Artur Carlos Ferreira Alho	Investigador		100%			
Gabriele Terrone	Investigador		100%			
Jorge Miguel Dias de Almeida Rodrigues Soares	Investigador		100%			
Nuno Ricardo Estrela Gracias	Investigador		10%			
Ian Oakley	Investigador		50%			
Mon-Chu Chen	Investigador		50%			
Duarte Cordeiro Ferreira Osório de Aragão	Investigador		100%			
Daniela Filipa Pontes Guerra dos Santos	Investigador		100%			
Gonçalo Nuno Ramos Ferreira de Gouveia	Investigador		100%			
Nestor Catano Collazos	Investigador		50%			
Daniel Wiesmann	Investigador		100%			
David Martinez Torres	Investigador		100%			
Alessia Mandini	Investigador		100%			
Dario Antonio Bacellar Figueira	Investigador		100%			
Sérgio Daniel Gonçalves Melo Pequito	Investigador		100%			
Inês Nunes de Sousa	Investigador		100%			
Alexandre Joao Borralho Domingues	Investigador		100%			
Nuno Ricardo Barroso de Freitas	Investigador		10%			
Gonçalo Pinto Mendes	Investigador		100%			
valentina nisi	Investigador		50%			
Jaime Afonso do Nascimento Carvalho Martins	Investigador		100%			

Daniela Filipa Gonçalves Pamplona	Investigador		100%			
Pramod Kumar Maurya	Investigador		100%			
Mohammadreza Bayat	Investigador		100%			
Rui Filipe Cardoso Guerreiro	Investigador		100%			
David José da Silva Aresta Belo	Investigador		100%			
Jonas Ruesch	Investigador		100%			
João Vicente Teixeira de Sousa Messias	Investigador		100%			
Marcin Wojciech Szamotulski	Investigador		100%			
José Nuno Ferreira Maia Pereira	Investigador		50%			
José Jerónimo Moreira Rodrigues	Investigador		100%			
Pinar Oguz Ekim	Investigador		100%			
Pedro David Pereira da Fonseca	Investigador		100%			
Bruno Filipe Araújo Lacerda	Investigador		100%			
AAMIR AHMAD	Investigador		100%			
André González Cabrera Honório Serrenho	Investigador		100%			
Tiago Filipe Pires Gaspar	Investigador		100%			
Eva Giacomello	Investigador		100%			
António Maria Raso da Cunha e Lorena	Investigador		100%			
Diana Sofia de Oliveira Catarino	Investigador		100%			
Mara Schmiing	Investigador		100%			
Ricardo Miguel da Silva Teresa Ribeiro	Investigador		50%			
Ruben Martinez Cantin	Investigador		10%			
Maria Luísa Pereira Soares	Investigador		50%			
João Ricardo Silva Carvalho	Investigador		100%			
RUTE MARIA ANTUNES MATOS	Investigador		100%			
Ricardo da Silveira Cabral	Investigador		100%			
João Filipe de Castro Mota	Investigador		100%			
Pedro Miguel Correia Guerreiro	Investigador		100%			
Patrick Kwadwo Agyapong	Investigador		100%			
Brandon Mauch	Investigador		100%			
Rathapon Saruthirathanaworakun	Investigador		100%			
Rita de Carvalho Paleta	Investigador		100%			
Andreas Johannes Häusler	Investigador		100%			
João Tiago Pereira Nunes José	Investigador		100%			
Giovanni Saponaro	Investigador		100%			
Nuno Miguel S. A. S. Sarmento	Investigador		100%			
CÉLIA LEE	Investigador		15%			
João Pedro de Matos Rodrigues	Investigador		50%			
Ana Catarina Fidalgo Barata	Investigador		50%			
Henrique Ribeiro Delgado da Silva	Investigador		30%			
Simone Renee Ashby	Investigador		50%			

<b>Carlos Filipe Fernandes Isidoro</b>	Investigador		25%		
<b>Sónia Vieira Dias Barbosa Lopes</b>	Investigador		100%		
<b>João Paulo Maurício Pimentel</b>	Investigador		50%		
<b>Jorge Miguel dos Santos Ribeiro</b>	Investigador		25%		
<b>Lucia Bongiorno</b>	Investigador		30%		
<b>Gabriel Czerwonka Lopes Cardoso</b>	Investigador		50%		
<b>Ricardo Nuno Melo de Carmo Vaz</b>	Investigador		100%		
<b>Sérgio Ricardo Gomes</b>	Investigador		100%		
<b>Manya Vital Afonso</b>	Investigador		100%		
<b>Clara Ângela Magalhães Loureiro</b>	Investigador		100%		
<b>Dragana Bajovic</b>	Investigador		100%		
<b>Filipa Andreia Sequeira Mesquita</b>	Investigador		100%		
<b>Michele Cirafici</b>	Investigador		100%		
<b>Joaquim Manuel Cunha Correia</b>	Investigador		15%		
<b>Miguel Ângelo Pires Farrajota</b>	Investigador		100%		
<b>Nuno Miguel Pereira Gomes</b>	Investigador		100%		
<b>Qiwei Han</b>	Investigador		100%		
<b>Janaína Gomes de Merícia</b>	Investigador		100%		
<b>Mário Alexandre Nobre Saleiro</b>	Investigador		100%		
<b>Gonçalo Nuno Santos Neto da Graça</b>	Investigador		100%		
<b>Anastasios Spiliotopoulos</b>	Investigador		100%		
<b>Sebastian Guttenberg</b>	Investigador		100%		
<b>Sabina Zejnilovic</b>	Investigador		100%		
<b>André Filipe Jorge Pinto</b>	Investigador		50%	15-05-2013	
<b>Duarte da Cruz Baptista Dias</b>	Investigador		50%		
<b>Alessandro Saccon</b>	Investigador		100%		
<b>João Carlos Galvão dos Reis</b>	Investigador		30%		
<b>João Miguel Dias Marques Semedo</b>	Investigador		25%		
<b>Nelson Figueiredo de Pinho</b>	Investigador		100%		
<b>João Carlos Seixas Marques</b>	Investigador		100%		
<b>Joana Carolina Sequeira Pinto</b>	Investigador		50%		
<b>Pedro Gonçalo Soares Vieira</b>	Investigador		50%		
<b>Filipe Manuel Azinhal Funenga</b>	Investigador		25%		
<b>Nelson Henrique Quintas Batalha</b>	Investigador		100%		
<b>David Manuel Silva Martins</b>	Investigador		100%		
<b>Ehsan Zamanizadeh</b>	Investigador		100%		
<b>Julian Richmond Hanna</b>	Investigador	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...)	50%	01-01-2013	

		Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)				
Jorge Daniel Grenha Teixeira	Investigador		90%			
Inês Varela Aniceto	Investigador		100%			
stefania patrizi	Investigador		100%			
Levon Robert Nurbekyan	Investigador		100%			
Miguel Maria Castro Melo Godinho de Matos	Investigador		100%			
Moinul Islam Zaber	Investigador		100%			
Farid Bozorgnia	Investigador		100%			
Filippo Cagnetti	Investigador		100%			
Eduardo Jose Castanheira Beira	Investigador		100%			
Jayant Venkatanathan	Investigador		100%			
Michelle Grace Scott	Investigador		100%			
Yoram Itzhak Chisik	Investigador		50%			
Arminda da Conceição dos Santos Guerra e Lopes	Investigador		50%			
Filipa Baumberg Gouveia de Almeida Alves	Investigador		100%			
José Gouveia Pereira Corujeira	Investigador		100%			
Augusto Emanuel Abreu Esteves	Investigador		100%			
Ana Bela Batista dos Santos	Investigador		50%			
Danesh Tarapore	Investigador		100%			
Nuno Miguel Banheiro Moutinho	Investigador		50%			
Pedro Daniel Graça Casau	Investigador		100%			
Bruno Miguel da Silva Paz Gomes	Investigador		100%			
Ana Sofia Correia Fernandes	Investigador		40%			
Nuno Miguel da Costa de Sousa Leite	Investigador		50%			
Miguel Lourenço Rodrigues	Investigador		50%			
Marco Filipe Pinto Leite	Investigador		50%			
João Eduardo Carvalho da Silva	Investigador		20%			
Tiago Santos Veiga	Investigador		100%			
Salman Ijaz Siddiqui	Investigador		100%			
Roberto Nuno Silva Sousa	Investigador		100%			
Mary Alejandra Luiz Barreto	Investigador		100%			
Cláudia Sofia Lola Simões	Investigador		50%			
Carlos Rui Peres Palma Neves	Investigador		50%			
João Miguel Nunes Botelho	Investigador		100%			
Amâncio Lucas Sousa Pereira	Investigador		100%			
Karnik Mayur Prabhakar	Investigador		100%			

Filipe Magno Gouveia Quintal	Investigador		100%			
Ken Keane	Investigador		100%			
Carlos Jorge Andrade Mariz Santiago	Investigador		50%			
João Pedro Forjaco Jorge	Investigador		50%			
Zita Dulce de Gouveia Pacheco	Investigador		100%			
Per Jakob Rogstadius	Investigador		100%			
Sérgio Martins Simões Dias	Investigador		50%			
Nicolas Orantin	Investigador		100%			
Mariana Pedroso Branco	Investigador		100%			
Miguel Costa do Carmo	Investigador		100%			
Matias Luis del Hoyo	Investigador		100%			
Sergi Bermúdez i Badia	Investigador		50%			
Nélia Cristina da Costa Mestre	Investigador		100%			
Rahul Pandharipande	Investigador		100%			
Evangelos Karapanos	Investigador		50%			
João Pedro Botelho Castela da Costa	Investigador		100%			
Pedro Miguel Ribeiro Góis	Investigador		100%			
Teresa Inês Gonçalves Murta	Investigador		50%			
Feng Zhou	Investigador		50%			
João Tiago Pinto de Almeida Dias da Fonseca	Investigador		100%			
Teresa Isabel Pinto Filipe Gonçalves	Investigador		100%			
Emanuel Ey Vaz Vieira	Investigador		100%			
Ron Johannes Carolus Maria Salden	Investigador		100%			
Ricardo Manuel Florindo Galego	Investigador		100%			
Manuel Miguel Pereira da Silva Moreno	Investigador		100%			
Ana Lúcia dos Santos Faria	Investigador		100%			
Helder Guerreiro Marques da Silva	Investigador		30%			
Valentina Kirienko Fernandes de Matos	Investigador		100%			
Shree Ram Prakya	Investigador		100%			
Kasim Terzic	Investigador		100%			
David Lobato Bravo	Investigador		100%			
Javier Pinilla-Dutoit	Investigador		100%			
Caitlin Almeida Forschner	Investigador		100%			
Carlos André Rodrigues Gomes	Investigador		100%			
João Pedro Santos de Carvalho	Investigador		50%			
Joao Nuno Vieira Figueiredo	Investigador		50%			
Carlos Alexandre Pereira Carreiras	Investigador		100%			
Michel Mauricio Mendes Cánovas	Investigador		50%			
Sérgio Rui da Silva Agostinho	Investigador		50%			
João Pedro Baptista Mendes	Investigador		50%			
Bruno Miguel Morgado Martins	Investigador		50%			
João Paulo Neves Leal	Investigador		100%			

<b>Carlos Alberto Falé Cabral</b>	Investigador		50%			
<b>Luis Miguel Antunes Martins</b>	Investigador		100%			
<b>Mónica Isabel Marreiros Inácio</b>	Investigador		100%			
<b>Ryan James Turner</b>	Investigador		100%			
<b>Francisco Manuel de Melo Sousa Jarnac de Freitas</b>	Investigador		100%			
<b>Colleen Angela Horin</b>	Investigador		100%			
<b>Ivonne Astrid Peña Cabra</b>	Investigador		100%			
<b>Carla Patrícia Ramos Nunes</b>	Investigador		100%			
<b>Miguel Nascimento de Brito Alves</b>	Investigador		10%			
<b>Filipe Fernandes Veiga</b>	Investigador		50%			
<b>Martim Cristina de Serpa Brandão</b>	Investigador		50%			
<b>Ravin Luis de Souza</b>	Investigador		50%			
<b>Tony John Pitcher</b>	Investigador		20%			
<b>Vânia Patricia Silva Relvas</b>	Investigador		100%			
<b>Evangelos Niforatos</b>	Investigador		100%			
<b>Paola Parretti</b>	Investigador		100%			
<b>Gay Sébastien</b>	Investigador		50%			
<b>Cátia Alexandra Pinto Cardoso</b>	Investigador		100%			
<b>emanuele teodori</b>	Investigador		100%			
<b>Sandy Carmo Relva Rodrigues Abreu</b>	Investigador		100%			
<b>Gregory Ruiz</b>	Investigador		5%			
<b>Vlad Constantin Coroama</b>	Investigador		100%			
<b>José Manuel das Neves Rodrigues</b>	Investigador		100%			
<b>Giorgio Trentinaglia</b>	Investigador		100%			
<b>João Pedro do Carmo Boavida</b>	Investigador		100%			
<b>David Freire Lazera</b>	Investigador		100%			
<b>Helder Filipe Rodrigues Miranda</b>	Investigador		100%			
<b>Filipe Manuel Rodrigues Casal</b>	Investigador		100%			
<b>Paulo Lima Brasil Maia de Loureiro</b>	Investigador		100%			
<b>Govindraj Chavan</b>	Investigador		100%			
<b>João Manuel Dias Delgado</b>	Investigador		100%			
<b>Catarina Janeiro Machado</b>	Investigador		100%			
<b>António Eduardo Carreiro Furtado</b>	Investigador		100%			
<b>Diogo Simão Bouça Duarte</b>	Investigador		50%			
<b>Ana Milene Mestre Vieira</b>	Investigador		100%			
<b>Pedro César Alves Guerreiro Godinho Agostinho</b>	Investigador		50%			
<b>Miguel Santos Serafim</b>	Investigador		50%			
<b>Francisco Fernandes Castro Rego</b>	Investigador		100%			
<b>Slavisa Tomic</b>	Investigador		100%			
<b>Bruno Barros Moreira</b>	Investigador		20%			
<b>Miguel Amador Rosa</b>	Investigador		100%			
<b>Rúben Hugo de Freitas Gouveia</b>	Investigador		100%			

Sandra Hasanefendic	Investigador		100%			
Duarte Nuno de Freitas Pinto	Investigador		100%			
Alberto José Antunes Varela Velez Grilo	Investigador		100%			
Virginia Odilia Batista Catanho de Sousa	Investigador		100%			
Bruno Miguel Mendes Fonseca	Investigador		50%			
Ricardo Manuel Raposo dos Santos	Investigador		50%			
Pedro Emanuel Antunes Vicente	Investigador		50%			
Paula Alexandra Leal Abrantes Araújo	Investigador		50%			
Susana Rita de Sousa Santana	Investigador		100%			
Jorge Alexandre Marques Santana	Investigador		50%			
Bruno Miguel Almeida Tibério	Investigador		50%			
Tiago Coutinho de Almeida Milhano	Investigador		50%			
Marco Paulo da Silva Prata	Investigador		50%			
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Marta Maria Cannas Henriques da Silva e Sousa	Investigador		100%			
Nuno Miguel Faria Martins Cegonho	Investigador		10%			
Rui Jorge Araújo Alves	Investigador		100%			
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António Miguel Abreu Ribeiro Henriques	Investigador		100%			
Miguel António Mendes Nunes Vaz	Investigador		100%			
Filipe André Martins de Freitas	Investigador		100%			
Henrique Ramalho Monteiro Latourrette Pombeiro	Investigador		100%			
Francisco Miguel Rodrigues Machado	Investigador		100%			
Alexandre Miguel Castanheira Aires da Silva	Investigador		30%			
Olga Lyra	Investigador		100%			
André Filipe de Carvalho Gonçalves	Investigador		100%			
Francisco Silveira Botelho de Vilhena da Cunha	Investigador		15%			
Rita Gonçalves Simões Marteleira	Investigador		100%			
Anabela Costa Reis	Investigador		100%			
João Mário Raposo Gaudêncio Campos	Investigador		50%			
Jinjun Li	Investigador		100%			
Carlos Eduardo Santos Tribuna	Investigador		100%			
Hildegardo José Quintal Noronha	Investigador		100%			
Ricardo André de Almeida Gomes	Investigador		10%			
Ricardo Nuno Araujo Sol de Jesus	Investigador		100%			
Daniela Zeppilli	Investigador		100%			
António Miguel Gonçalves Belguinha	Investigador		100%			

Rui Miguel Martins de Oliveira	Investigador		100%			
Manuel António Ferreira da Silva	Investigador		100%			
Anastasiya Strembitska	Investigador		100%			
Sofia Raquel Pereira de Sousa Esménio	Investigador		100%			
Matic Žirovec	Investigador		100%			
Diogo Manuel Franco Gonçalves Molarinho Carmo	Investigador		100%			
Pedro Gil de Almeida Rodrigues	Investigador		100%			
Marta Joana Cunha Ribeiro	Investigador		100%			
Joel Oliveira Reis	Investigador		100%			
Nuno Miguel Vieira Pinto de Carvalho	Investigador		100%			
Cátia Rubina Sousa Jardim Gouveia	Investigador		100%			
Mário João de Sousa Brito	Investigador		100%			
Gustavo Pereira Fernandes	Investigador		50%			
Jaime Carreira Bernardo	Investigador		100%			
Bernardo de Mascarenhas Santos Passos de Sousa	Investigador		100%			
Athanasios Vourvopoulos	Investigador		100%			
Robert J. Brock	Investigador		5%			
Pedro Tomás Mendes Resende	Investigador		50%			
Jose Carlos Castillo Montoya	Investigador		100%			
meysam basiri	Investigador		100%			
Diogo Alexandre Rolo	Investigador		50%			
Luis Alberto Freitas Telo	Investigador		100%			
Rúben José Rodrigues Mendonça	Investigador		100%			
Pedro Dionísio Valente	Investigador		100%			
Sílvia Patrícia Romão Moreira Fernandes	Investigador		100%			
Luis Miguel Oliveira Caldeira	Investigador		100%			
Clinton Luis Jorge	Investigador		100%			
Aquilino de Sousa Viveiros	Investigador		100%			
Pedro Alexandre Cruz Sousa	Investigador		100%			
Mara Sofia Gomes Dionisio	Investigador		100%			
Edmundo Ferreira	Investigador		100%			
João Manuel Medeiros Rodeia	Investigador		100%			
Jayakorn Vongkulbhisal	Investigador		100%			
Pedro Faisca Renda Coelho Santos	Investigador		50%			
Amanda Zacarias Marinho	Investigador		100%			
Helena Pereira Barbosa	Investigador		100%			
André Gonçalo Liberato Folgado	Investigador		100%			
Somayah Shahrabadi	Investigador		100%			
Tiago Manuel Vilas de Sousa	Investigador		100%			
Luka Lukic	Investigador		100%			
Vítor Manuel Ornelas Magalhães	Investigador		100%			

<b>Cristina Maria dos Reis Alves de Oliveira</b>	Investigador		100%			
<b>Brian Woodbury Swenson</b>	Investigador		100%			
<b>Ye Mao</b>	Bolseiro		100%			
<b>John Huerta</b>	Bolseiro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-01-2013		
<b>Marco Morandotti</b>	Bolseiro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-04-2013		
<b>João Manuel Melo Silva Gueifão</b>	Bolseiro		100%			
<b>André Tiago Ventura Tomás</b>	Bolseiro		100%			
<b>Renato Manuel Pereira Negrinho</b>	Bolseiro		100%			
<b>Lucas Schmitt Balthazar</b>	Bolseiro		100%			
<b>João tiago Martins Pereira de Almeida Saúde</b>	Bolseiro		100%			
<b>Guilherme Henrique Caçador Ramos</b>	Bolseiro		100%			
<b>Juan Pablo Quijano Lotero</b>	Bolseiro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-01-2013		

<b>Farzaneh Eftekhari</b>	Bolseiro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-11-2013		
<b>Ricardo Adriano Ribeiro</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-02-2013		
<b>Frederico Abecasis David Cardigos</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-10-2013		
<b>João Lemos Gomes Canning Clode</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-01-2013		

<b>Filipe Santiago Cal</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-01-2013		
<b>Daniel Luís Laurens Viegas</b>	Outro		100%			
<b>Juliana Fernandes da Silva</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-01-2013		
<b>Daniel de Matos Silvestre</b>	Outro		100%			
<b>Andrea Alessandretti</b>	Outro		100%			
<b>Maria de Fátima Dias Pereira Martinho</b>	Outro		100%			
<b>Sinan Eden</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-01-2013		
<b>João Alexandre Gonçalves Quintas</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and	100%	01-06-2014		

		Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)				
<b>Pedro António Duarte Marques Lourenço</b>	Outro		100%			
<b>Rui Miguel Horta Pimentel de Figueiredo</b>	Outro		100%			
<b>Miguel Filipe Silva Ribeiro</b>	Outro		100%			
<b>Ana Cristina Resendes Maia</b>	Outro		100%			
<b>Filipe Baptista de Morais</b>	Outro		100%			
<b>Pedro Miguel Maravilha Morgado</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-03-2012		
<b>Filipe Miguel Oliveira de Jesus</b>	Outro		100%			
<b>Ana Margarida Caetano Ruela</b>	Outro		100%			
<b>Rodolfo Telo Martins de Abreu</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-01-2013		
<b>Luca Baglivo</b>	Outro		100%			
<b>Berta Solé Nadal</b>	Outro		100%			
<b>Bárbara Quaresma Paulino</b>	Outro		100%			
<b>Ana Sofia Duarte Correia</b>	Outro		100%			
<b>Pedro Miguel Otão Pereira</b>	Outro		100%			
<b>José Francisco Marques Tojeira</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...)	100%	01-01-2013		

		<p>*** Signal and Image Processing Group ***  VisLab - Computer and Robot Vision  Laboratory *** Ocean Systems Technology  *** Sustainable Urban Systems and  Technologies *** Complex Systems in  Engineering and Fundamental Sci(...) ***  Ocean Resources and Ecosystems ***  Sustainable Energy, Environment, and  Economic Deve(...) *** Center for  Mathematical Analysis, Geometry and  Dyn(...) *** Madeira Interactive  Technologies Institute (M-ITI)</p>				
<b>Alexandra Rosário de Jesus Cruz de Almeida Frazão</b>	Outro	<p>Centre of IMAR of the University of the  Azores/ De(...) *** Centre of Mineral  Resources, Mineralogy and Crysta(...) ***  DSORL - Dynamical Systems and Ocean  Robotics Labor(...) *** Evolutionary Systems  and Biomedical Engineering *** Intelligent  Robots and Systems *** Laboratory for  Energy and Environmental Studies at(...) ***  Laboratory of Technology Policy and  Management of (...) *** Laboratory of  Thermofluids, Combustion and Energy (...)  *** Signal and Image Processing Group ***  VisLab - Computer and Robot Vision  Laboratory *** Ocean Systems Technology  *** Sustainable Urban Systems and  Technologies *** Complex Systems in  Engineering and Fundamental Sci(...) ***  Ocean Resources and Ecosystems ***  Sustainable Energy, Environment, and  Economic Deve(...) *** Center for  Mathematical Analysis, Geometry and  Dyn(...) *** Madeira Interactive  Technologies Institute (M-ITI)</p>	100%	01-01-2013		
<b>Alexandre Gomes Pereira Antunes</b>	Outro	<p>Centre of IMAR of the University of the  Azores/ De(...) *** Centre of Mineral  Resources, Mineralogy and Crysta(...) ***  DSORL - Dynamical Systems and Ocean  Robotics Labor(...) *** Evolutionary Systems  and Biomedical Engineering *** Intelligent  Robots and Systems *** Laboratory for  Energy and Environmental Studies at(...) ***  Laboratory of Technology Policy and  Management of (...) *** Laboratory of  Thermofluids, Combustion and Energy (...)  *** Signal and Image Processing Group ***  VisLab - Computer and Robot Vision  Laboratory *** Ocean Systems Technology  *** Sustainable Urban Systems and  Technologies *** Complex Systems in  Engineering and Fundamental Sci(...) ***  Ocean Resources and Ecosystems ***  Sustainable Energy, Environment, and  Economic Deve(...) *** Center for  Mathematical Analysis, Geometry and  Dyn(...) *** Madeira Interactive  Technologies Institute (M-ITI)</p>	100%	01-06-2013		
<b>Maria Cristina Rodrigues Perry Nava</b>	Outro	<p>Centre of IMAR of the University of the  Azores/ De(...) *** Centre of Mineral  Resources, Mineralogy and Crysta(...) ***  DSORL - Dynamical Systems and Ocean  Robotics Labor(...) *** Evolutionary Systems  and Biomedical Engineering *** Intelligent  Robots and Systems *** Laboratory for  Energy and Environmental Studies at(...) ***  Laboratory of Technology Policy and  Management of (...) *** Laboratory of  Thermofluids, Combustion and Energy (...)  *** Signal and Image Processing Group ***  VisLab - Computer and Robot Vision  Laboratory *** Ocean Systems Technology  *** Sustainable Urban Systems and  Technologies *** Complex Systems in  Engineering and Fundamental Sci(...) ***  Ocean Resources and Ecosystems ***  Sustainable Energy, Environment, and  Economic Deve(...) *** Center for  Mathematical Analysis, Geometry and  Dyn(...) *** Madeira Interactive  Technologies Institute (M-ITI)</p>	100%	01-01-2013		
<b>Elizabeth Atchoi Figueira Pires de Carvalho</b>	Outro	<p>Centre of IMAR of the University of the  Azores/ De(...) *** Centre of Mineral  Resources, Mineralogy and Crysta(...) ***  DSORL - Dynamical Systems and Ocean  Robotics Labor(...) *** Evolutionary Systems  and Biomedical Engineering *** Intelligent  Robots and Systems *** Laboratory for  Energy and Environmental Studies at(...) ***  Laboratory of Technology Policy and  Management of (...) *** Laboratory of  Thermofluids, Combustion and Energy (...)  *** Signal and Image Processing Group ***</p>	100%	01-01-2013		

		VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)				
<b>João Pedro Tojal Loia Soares Silva</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	15%	01-01-2014		
<b>Diogo Brandão Amorim</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-04-2013		
<b>Francisco Javier Rodriguez Lera</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	10-02-2014		
<b>Fábio Dario Vieira Baptista</b>	Bolseiro do projecto		100%			
<b>David Sanz</b>	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of	100%	01-09-2014		

		Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)				
Ana Catarina Prates de Sousa	Bolseiro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	02-05-2014		
João Luís Lopes Furtado	Bolseiro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-05-2014		
Pedro Fontoura Correia de Oliveira	Outro	Centre of IMAR of the University of the Azores/ De(...) *** Centre of Mineral Resources, Mineralogy and Crysta(...) *** DSORL - Dynamical Systems and Ocean Robotics Labor(...) *** Evolutionary Systems and Biomedical Engineering *** Intelligent Robots and Systems *** Laboratory for Energy and Environmental Studies at(...) *** Laboratory of Technology Policy and Management of (...) *** Laboratory of Thermofluids, Combustion and Energy (...) *** Signal and Image Processing Group *** VisLab - Computer and Robot Vision Laboratory *** Ocean Systems Technology *** Sustainable Urban Systems and Technologies *** Complex Systems in Engineering and Fundamental Sci(...) *** Ocean Resources and Ecosystems *** Sustainable Energy, Environment, and Economic Deve(...) *** Center for Mathematical Analysis, Geometry and Dyn(...) *** Madeira Interactive Technologies Institute (M-ITI)	100%	01-09-2014		

#### 5. Indicadores de Realização Física

Indicadores	Quantidade realizada
<b>A - Publicações</b>	
Livros	58

Artigos em revistas internacionais	658
Artigos em revistas nacionais	28
<b>B - Comunicações</b>	
Comunicações em encontros científicos internacionais	601
Comunicações em encontros científicos nacionais	134
<b>C - Relatórios</b>	55
<b>D - Organização de seminários e conferências</b>	74
<b>E - Formação avançada</b>	
Teses de Doutoramento	63
Teses de Mestrado	191
Outras	14
<b>F - Modelos</b>	8
<b>G - Aplicações computacionais</b>	17
<b>H - Instalações piloto</b>	3
<b>I - Protótipos laboratoriais</b>	34
<b>J - Patentes</b>	2
<b>L - Outros</b>	

## 6. Publicações

Ano	Publicações	URL
2013	Ver PDF Publicações no Ponto 9	<a href="#">N/A</a>
2014	Ver PDF Publicações no Ponto 9	<a href="#">N/A</a>

## 7. Equipamento

Equipamento	Nº Recibo	Data	Observações
Kit Para Servidor	NLE00231	22-02-2013	
Router RV	8834/L	24-05-2013	
Disco Externo	0030182013060000/002292	28-06-2013	
Computador Portátil	80/2013	29-07-2013	
Sensor Top URG	911772PT	17-09-2013	
Adaptador PCI para PC	571/2013C	21-10-2013	
Televisor	45	18-12-2013	
Unidade de disco rígido	131708	28-11-2013	
Computador Portátil	1300/000171	12-12-2013	
Oculus Development Kit	1300/00037	05-12-2013	
Toshiba P50-A-12Z, i7-4700MQ,8GB,1TB, 15,6",WIN8,1 64 Bits	1300/000181	19-12-2013	
MATERIAL INFORMÁTICO	RD0224L1308008	02-08-2013	
Placa de potência da câmara de fluxo laminar TELSTAR	14318	04-08-2013	
Aparelho pH S220 completo Electrodo InLab Solids	11100769	23-05-2013	
Grupo frigorífico carroçado	424/2013	25-06-2013	
Indicador Comptronc	15464	31-07-2013	
Toshiba Tecra R940-1GP	85	10-11-2013	
Toshiba Satellite L850-1PD	130419	03-01-2013	
Computador HP Pavilion 500-003EP e HP 22XI-Monitor LED IPS 54,6cm - 21.5"	1943	21-11-2013	
1 computador Portátil Asus	52550	06-06-2013	
1 Mini PC Smart TV	2433905	20-06-2013	
1 Impressora 3D	2132	01-03-2013	
4 câmaras de filmar	770	04-02-2013	
1 Terminal Board	INV-310113	31-01-2013	
1 Tablet Samsung	FT AVG503/018617	14-08-2013	
1 Airmouse	62920	20-10-2013	
1 Wiimote	TVAUY063/116358	09-11-2013	
Braço Robótico	1400/000031	28-08-2014	
Braço Robótico II	1400/000057	22-12-2014	
MAC e Outro Equipamento Informático	198	25-02-2014	

EQUIP MAC MINI KEYBOARD MOUSE	140088	17-03-2014	
Microfone para Robot	2014/967	19-03-2014	
Router	921	14-05-2014	
SYNOLOGY Servidor Discos	1026	23-05-2014	
Computador Portátil MAC 15"	614	28-05-2014	
Motores - Mão Robótica	FA005262	22-07-2014	
Placa Electrónica - Mão Robótica	100000009	31-07-2014	
Computador Apple MacBook Pro	140299	18-08-2014	
UPS - Sala de Servidores	R01/157	18-09-2014	
Sensor USB Adapter	20141015-0023	15-10-2014	
Computador Portátil Toshiba	2478	06-11-2014	
7 Monitores DELL	R01/172	07-11-2014	
Computador portátil MAC	30182014110000/000881	14-11-2014	
Video projector	82	20-11-2014	
2 Monitores	7618/2014A	25-11-2014	
4 Computadores DELL	VFT 1011410847	25-11-2014	
COMPUTADORES ACESSORIOS	100000000572014	01-12-2014	
3 Monitores SAMSUNG	FAC 1	03-12-2014	
Estante Encaixe Cinza	FAC 5	04-12-2014	
Cabo Rede UTP	FAC 5	04-12-2014	
2 Cadeiras Signo Costas Altas	FAC 5	04-12-2014	
Monitores Discos	2752	03-02-2014	
Processador INTEL; Controlador	1400/000128	04-12-2014	
Luxímetro Modelo Luxemeter	M-668	09-12-2014	
3 Câmaras Kinect para WINDOWS	M-668	09-12-2014	
2 Tripés de Alumínio Preto Manfrotto	M-668	09-12-2014	
TV LED SAMSUNG	1351D	05-12-2014	
Computador Portátil APPLE MACBOOK	417D	04-12-2014	
WESTERN DIGITAL MY BOOK ESSENTIAL	18657 / L	05-12-2014	
ASUS VIVO PC VC60-B035M	18657 / L	05-12-2014	
Dermatoscópio Digital	2014/1748	18-12-2014	
Discos Memória	670	18-12-2014	
12 Monitores ASUS VS278Q 27"	24108	29-12-2014	
Televisão LG LED 42" FULL HD	24108	29-12-2014	
VIVOPC VC60 BLAK CORE 13	24108	29-12-2014	
Suporte de Chão NAPOFIX para Televisão	24108	29-12-2014	
Disco Externo NAS SEAGATE STORAGE	24108	29-12-2014	
UPS EATON ELLIPSE ECO	24108	29-12-2014	
2 Impressoras Multifunções HP COLOR	24	29-12-2014	
Videoprojector LG PH300	24	29-12-2014	
3 Scanners DR-C120 A4 ADF DUPLEX	R01/202	29-12-2014	
DT9828-8Channel USB Powered Thermocouple DAQ Module.	167178	02-10-2014	
NB Toshiba Tecra Z40-A-113	14000330	29-04-2014	
Contentor MVE XC - 34/18	411/2014	27-05-2014	
NB Toshiba Tecra Z40-A-113	14000330	29-04-2014	
Contentor MVE XC - 34/18	411/2014	27-05-2014	
Transmissor e sonda de oxigénio	16052	14-05-2014	
Olympus camara TG-3	E/141451	18-06-2014	
Toshiba P50-103	FA14/36062	06-11-2014	
Toshiba-Satellite S50-B-131	733/2014	31-07-2014	
Mini Power supply	9060333631	12-06-2014	
BS 2004 Dry Shipper	2014/359	26-06-2014	
Coluna semi opreparativa 250x 10mm	57913	14-07-2014	
Câmara video 120GB	20130306	28-07-2014	
HP envy 15-J100	FA14/67391	31-07-2014	
Câmara video 120GB	20130306	28-07-2014	
HP envy 15-J100	FA14/67391	31-07-2014	

Nikon maq.D5300 c/AF18-140 VR	11A852	26-05-2014	
Sistema de aquírios	1406/2014	12-03-2014	
MS surface Pro 3 I5-4200U/8/256SSD	FA14/185056	12-09-2014	
Computador Archimedes	72-2014	12-10-2014	
Balança ICS425k-6SM/DR/f Balança ICS425K-15LA/DR/F	1104152	12-10-2014	
Alador North Lifth LH200	700A	12-12-2014	
Notebook HP 650 I5-4210M	683	15-12-2014	
Acessórios para instalação frigorífica	2014/883	15-12-2014	
Espectrofotómetro	F110028402	17-12-2014	
Máquina fotográfica Pan TZ55	4152	28-12-2014	
AQUISICAO SERVIDOR DE DISCO P/ CENTRO	RD0224L1412014	29-12-2014	
EQUIPAMENTO DE REDE HP 2620-48 SWITCH	RD0224L1412015	23-12-2014	
SERVIDOR HP DL380p Gen8	RD0224L1412016	22-12-2014	
6 PC EM PECAS	RD0224L1411014	10-12-2014	
HP OFFICEJET PRO 6830 eAIO	RD0224L1411008	11-11-2014	
IMPRESSORA HP Officejet 6700 Premium eAio	RD0224L1410025	24-10-2014	
IMPRESSORA HP OFFICEJET 6700 PREMIUM	RD0224L1407009	09-07-2014	
IMPRESSORA HP Deskjet 2540 All-in-One	RD0224L1411014	19-11-2014	
Amplificador, circulador, antena, adaptador IVA intracomunitário	A/8560	04-07-2014	
Espectrofotómetro CM-700d (placa de calibração branco, mascaras de medida 8mm e 3mm, adaptador de corrente; coreira, cabo USB e adaptador, esfera integradora de 40mm, fonte de Luz lâmpada de xenon)	439	05-12-2014	
Calibração metais preciosos, Calib. em ligas metálicas, Calib. terras raras, Colimador de Feixe de Raio-X, Purga de He	472	21-05-2014	
UPS Tri-Mono Eaton	207 D	23-07-2014	
Computador Dell	331 D	17-10-2014	
Kingston SSDNOW V300 240GB, SSD Samsung 840 EVO	466 D	31-12-2014	
1 Sensor Kinetic Windows V2	1062141011	11-10-2014	

#### 8. Descrição detalhada das actividades desenvolvidas

Nome	Descrição
<a href="#">Relatório Final Estratégico_2013-2014.pdf</a>	Final Scientific Report 2013-2014

#### 9. Ficheiros Anexos (opcional)

Nome	Ponto do RF	Descrição
<a href="#">Publications LARSyS 2013.pdf</a>	6	Publications LARSyS 2013
<a href="#">Publications LARSyS 2014.pdf</a>	6	Publications LARSyS 2014
<a href="#">Research Team LARSyS 2013-2014.pdf</a>	4	Research Team LARSyS 2013-2014