# **Research Activities**

Faculty of Engineering of Porto University Department of Informatics Engineering João Correia Lopes

I've worked in INESC Porto, DCS Glasgow, FEUP / INESCTEC.

Search Results for Projects [FEUP]
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## **Projects**

- ILIAD A data-intensive, cost-effective Digital Twin of the Ocean (H2020-EU.3.2-SOCIETAL CHALLENGES, 101037643, February 2022 – ongoing)
- EUROCC National Competence Centres in the framework of EuroHPC (H2020-JTI-EuroHPC-2019-2, GA951732, September 2020 ongoing)
- EPOSSP European Plate Observing System Sustainability Phase (H2020-INFRADEV-2018-2020, 871121, February 2020 – ongoing)
- iReceptor+ Architecture and tools for the query of antibody and T-Cell receptor sequencing data repositories for enabling improved personalized medicine an immunotherapy (H2020-SC1-2018-Single-Stage-RTD, 825821, January 2019 – ongoing)
- EUCAN-CONNECT A federated FAIR platform enabling large-scale analysis of high-value cohort data connecting Europe and Canada in personalized health (H2020-SC1-2018-Single-Stage-RTD, 824989, 1st January 2019 31st December 2023)
- C4G Colaboratório para as Geociências (FEEI/FCT-01/SAICT/2016/22151, 15th June 2017—11th June 2021)
- MELOA Multi-purpose/Multi-sensor Extra Light Oceanography Apparatus (H2020-SC5-2016-2017-RIA, 776825, December 2017 – February 2022)
- e-WindLidar Making lidar data FAIR, (IRPWIND WP3 Lidar Data Modelling and Architecting Web Platform, Grant agreement nº 609795, July 2017 January 2018)
- windscanner.pt Infraestrutura Nacional WindScanner (NORTE-01-0145-FEDER-022207 (PINFRA/22207/2016), 23rd October 2017 – 20th October 2021)
- RECAP preterm REsearch on Children and Adults born Preterm (H2020-SC1-2016-RTD, 733280, January 2017 – September 2021)
- TAIL Research data management from creation to deposit and sharing (PTDC/EEI-ESS/1672/2014, POCI-01-0145-FEDER-016736, 30th May 2016 30th November 2019)
- iCare4Depression I Care for Depression: Blending face-to-face psychotherapy with internet and mobile digital solutions (PTDC/MHC-PCL/1991/2014, POCI-01-0145-FEDER-016840, 1st June 2016 29th February 2020)
- NEWA New European Wind Atlas Joint Programme (ERA-NET Plus, topic FP7-ENERGY.2013.10.1.2, NEWA/0001/2014, 1st March 2015 – 28th February 2020)
- E-COMPARED European-COMPARative Effectiveness research on online Depression (FP7-HEALTH.2013-INNOVATION-1, 603098, 1st January 2014 30th June 2016)
- WindScanner.eu The European WindScanner Facility (FP7-INFRASTRUCTURES, 312372, 2012 2015)
- TICE.Mobilidade Sistema de mobilidade centrado no utilizador (SI IDT—13843/2011, 2011 2014)
- EcoPlanner Plataforma de gestão ecoeficiente (SI IDT—13085/2011, 2011 2013)
- MOBILES MOBILidade Eléctrica Sustentada (SI IDT—5730/2009, 2009 2011)
- ICT4Depression User-friendly ICT Tools to Enhance Self-Management and Effective Treatment of Depression in the EU (FP7—248778, 2010 2012)
- ROBOTVIGIL Robot Vigilante (SI IDT—7905/2010, 2010 2011)
- ILP-Web-Service Um serviço web baseado num sistema de indução de programas de lógica

(PTDC/EIA/70841/2006, 2008 - 2010)

- DBPreserve Data Warehouses for the Long-term Preservation of Institutional Electronic Records and Databases (PTDC/CCI/73166/2006, 1st October 2007 31st December 2009)
- MEDSI Management Decision Support for Critical Infrastructures (IST—506991, 2005 2006)

#### **INESC Porto**

Since 19th June 1985, I'm doing research at Instituto de Engenharia de Sistemas e Computadores (INESC Porto) in Information Systems, Databases and Software Engineering. At the moment I'm a researcher of Information and Computer Graphic Systems (USIG).

## **Computing Science Department, University of Glasgow**

From October 1991 to January 1995, I was doing research in Persistent Programming, in the FIDE project, University of Glasgow, Department of Computing Science, working in my PhD in the Persistence and Distribution Group.

### **PhD Thesis**

My PhD degree in Computing Science was awarded in June 1997 by University of Glasgow.

Title: An Architecture for the compilation of Persistent Polymorphic Reflective Higher-order Languages

Supervisor: Malcolm Atkinson

**Thesis**: My thesis is that an intermediate representation designed to enable high level optimisations and easy code generation can effectively support persistent reflective higher-order polymorphic languages in the context of Scalable Persistent Foundations, namely that it supports longevity, safety and persistence. This was demonstrated by presenting an initial design of such a compilation system and identifying and validating its crucial features by prototyping.

You may have a look at the Abstract, or Bibliography (41kB, ps.gz).

J. Correia Lopes

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