1. SHORTBIO

Joaquim Souta got his Ph.D. degree in Surveying Engineering from the University of Porto (and TUDelft), in 2010, writing his thesis on the “Potential of integrating PSInSAR Methodologies in the Detection of Surface Deformation”, and the Master degree in Surveying Engineering from the University of Porto, in 2001, working in the DEM Extraction using Radargrammetry. In 2010, he became Assistant Professor and joined the Department of Engineering of Sciences and Technology School of the University of Trás-os-Montes and Alto Douro (UTAD), as lecturer in Surveying Engineering (including, among other topics: Remote Sensing, GIS, Topography, Technical Drawing and Programming. He is author of some national publications on GIS and Topography. Nowadays, his main interest focus on the use of Unmanned Aerial Vehicles (UAV) for forest and agriculture applications, especially with regard to image processing algorithms, using RGB, NIR, multi and hyperspectral, Thermal and LiDAR sensors. In summary, precision agriculture and forestry, remote sensing, in-field sensing and applied machine learning are among his main interests.

He is the leader of UTAD’s UAV group, being involved in several research projects with total funds exceeding 7 M€.

2. PUBLICATIONS (only last 3 years)

2.1. JCR


2.2. ISI/Scopus (only last 3 years)

(Submitted) Telmo Adão, Emanuel Peres, Joaquim Sousa, Luís Magalhães, Luís Pádua, “Procedural Modelling of Buildings Composed of Arbitrarily Shaped Floor-plans: Background, Progresses, Contributions and Challenges of a Methodology Oriented to Cultural Heritage”, Digital Applications in Archaeology and Cultural Heritage (DAACH), Elsevier, ISSN: 2212-0548.


3. FINANCED RESEARCH PROJECTS

REVEAL: Drones for supporting traffic accident evidence acquisition by Law enforcement agents (2018-2020). 542.217,50€ financed by the ERDF through the Operational Programme for Competitiveness and Internationalisation – COMPETE 2020 under the PORTUGAL 2020 Partnership Agreement and through the Portuguese National Innovation Agency (ANI) as a part of project (Nº 33113) - Project Leader.

Landslide Identification, Geohazards Monitoring and Risk Assessment using Advanced, Multi-Source, Earth Observation Techniques (2017-2020). Dragon 4 Project: +1.000.000,00€ Financed by the European Space Agency (ESA) and The National Remote Sensing Center of China(NRSCC). European Project Leader. (14 institutions involved – 7 Europeans and 7 Chinese – and more than 40 researchers).

PARRA – Integrated platform for monitoring and evaluation of flavescence dorée disease (2016-2019). 1.043.231,24 € financed by the ERDF through the Operational Programme for Competitiveness and Internationalisation – COMPETE 2020 under the PORTUGAL 2020 Partnership Agreement and through the Portuguese National Innovation Agency (ANI) as a part of project (Nº 3447) – Project Leader.

INNOVINEandWINE – Vineyard and Wine Innovation Platform (2016-2020). 4.500.000,00€ financed by the European Regional Development Fund (ERDF) and North 2020 – North Regional Operational Program, as part of project (NORTE–01–0145–FEDER–000038) – Member of the Research Team.

Olive and olive oil operation group (2016-2019). 328.039,53 € financed by the European Regional Development Fund (ERDF) and North 2020 – North Regional Operational Program - Member of the Research Team.

Road Accident Information Simplification using Drones – Part I (2017). 74.990,00€ financed by the National Road Safety Authority - Project Leader.

Road Accident Information Simplification using Drones – Part II (2018). 400.000,00€ financed by the National Road Safety Authority - Project Leader.