MARIE SKŁODOWSKA-CURIE POSTDOCTORAL FELLOWSHIPS 2021

EXPRESSION OF INTEREST FOR HOSTING MARIE CURIE FELLOWS

HOST INSTITUTION

NOVA University Lisbon | Information Management School

RESEARCH GROUP AND URL

MagIC
https://www.novaims.unl.pt/magic/

SUPERVISOR (NAME AND E-MAIL)

Tiago Oliveira
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SHORT CV OF THE SUPERVISOR

Tiago Oliveira is a Full Professor of Information Management, Associate Dean for Research and Doctoral Studies at the NOVA Information Management School (NOVA IMS), and Coordinator of the Ph.D. in Information Management. His research interests include technology adoption, digital divide, privacy and adoption of sustainable technologies. He has published papers in several academic journals and conferences, including Information & Management, Tourism Management, Decision Support Systems, Government Information Quarterly, Computers in Human Behavior, Journal of Business Research, Information Technology & People, Information Systems Frontiers, International Journal of Information Management, Journal of Global Information Management, Industrial Management & Data Systems, Computers in Industry, among others. Tiago has authored more than 150 scientific articles in Journals and conference proceedings. Tiago has more than 14,000 citations (https://scholar.google.com/citations?user=RXwZPpoAAAAJ).

5 SELECTED PUBLICATIONS

- Neves, C., & Oliveira, T. (2021). Drivers of consumers' change to an energy-efficient heating appliance (EEHA) in households: Evidence from five European countries. Applied Energy, 298, 117165;

- Neves, J., & Oliveira, T. (2021). Understanding energy-efficient heating appliance behavior change: The moderating impact of the green self-identity. Energy, 225, 120169;

- Rodrigues, J., Ruivo, P., & Oliveira, T. (2021). Mediation role of business value and strategy in firm performance of organizations using software-as-a-service enterprise applications. Information & Management, 58(1), 103289;

- Oliveira, T., Barbeitos, I., & Calado, A. (2021). The role of intrinsic and extrinsic motivations in sharing economy post-adoption. Information Technology & People;

- Oliveira, T., Thomas, M., & Espadanal, M. (2014). Assessing the determinants of cloud computing adoption: An analysis of the manufacturing and services sectors. Information & Management, 51(5), 497-510.

PROJECT TITLE AND SHORT DESCRIPTION

Heating Appliances Retrofit Planning (HARP)

(H2020-LC-SC3-EE-2018, Project ID 847049)

The main idea behind the project is to motivate individuals to plan the replacement of their often old and inefficient heating appliances, with more efficient alternatives. Among the 126 million boilers installed in the EU, a staggering 60% are inefficient (performing as a C or lower energy class) but individuals are rarely aware of the inefficiency of their heating systems and associated costs.

Through an application the HARP project will enable individuals to get an indication of the labelling classification of their heating system. The application will also provide an estimation of the costs associated with their heating system, related to, for instance, energy consumption or maintenance. The application will also give an overview of the most efficient alternatives available on the market, along with a list of their benefits, such as energy and costs savings, reduction of CO_2 emissions, improvement of indoor air quality or noise reduction. Finally, HARPa will list the incentives and financial support available at national level to replace inefficient heating appliances with a more efficient alternative. The application will be available in two different versions, a basic one for consumers, and an advanced one dedicated to professionals who, in turn, will be coached to provide a more detailed guidance to consumers regarding the replacement solutions tailored to their needs.

Intelligent interconnection of prosumers in positive energy communities with twins of things for digital energy markets (TwinERGY) (H2020- LC-SC3-EC-3-2020, Project ref. 957736) – This project enables positive changes on how citizens and communities consume energy by empowering them to track their energy use and to proactively participate in the market. We provide a suite of innovative tools to predict citizens' consumption patterns and their comfort preferences, analysing the flexibility potential that individuals, buildings and communities can provide to the electrical grid thus maximising their aggregated value. This information facilitates the design of a personalised demand response strategy that allows citizens and communities to save on their energy bill without impacting their comfort and ordinary activities. Citizens and communities should play an active role in the energy market. TwinERGY takes into account their concerns, needs and priorities to build together solutions for today's energy challenges. Through co-creation and participatory sessions, we bring citizens together to co-design, test and evaluate the TwinERGY solutions, while promoting more green and sustainable energy practices and behaviours.

Bee2WasteCrypto (call 04/SI/2019, Project ref. 45933) - The project aims to develop a differentiating and intuitive IT tool, which, based on high resolution data on waste production, allows Regional Waste Management Entities (RWMUs) to design and manage optimal decentralized solutions for each region, and even promoting more sustainable waste production and sorting behavior. The project has the following specific objectives: Provide RWMUs with the ability to design the best set of technologies to be used in the context of their operation, namely in terms of the quality and quantity of waste generated and the materials to be produced from waste processing, according to environmental and economic criteria; Develop an IT system to facilitate Pay-As-You-Throw (PAYT) systems, together with the use of blockchain technologies to produce reliable information that allows for the establishment of "recycling fee credits", similarly to carbon credits in the energy sector, based on the performance of each RWMU regarding national recycling rate targets; A Token, eventually based on a "cryptocurrency", designed to use Blockchain technologies that pay for sustainable individual behavior when returning waste for recycling or reuse, as well as to promote PAYT solutions. The project is based on Data Science, with the objective of determining the best combination of technologies that maximize the recovery of waste, through local strategies, but with a global scope.

SCIENTIFIC AREA WHERE THE PROJECT FITS BEST

Management Information Systems: Social Sciences and Humanities (SOC) and Information Science and Engineering (ENG).