

CURRICULUM VITAE

PERSONAL INFORMATION

Surname(s) / First name(s) **NUNES SOARES, FILIPE JOEL**
Address **Rua Rainha Santa Isabel, nº 355, 8º AU**
4440 – 569 Valongo
Mobile **+351 968 860 489**
E-Mail **fjnsoares@gmail.com**
Nationality **Portuguese**
Date of Birth **25 / 07 / 1979**
Gender **Male**

WORK EXPERIENCE

- Dates *01 / 01 / 2015 – 31 / 08 / 2015*
- Name and address of the employer *Faculdade de Engenharia da Universidade do Porto – FEUP (www.fe.up.pt)*
Campus da FEUP
Rua Dr. Roberto Frias
4200 - 465 Porto, Portugal
 - Type of business or sector *University*
 - Occupation or position held *Assistant Professor*
 - Main activities and responsibilities
 - Professor of the course “Power Systems” of the Electrical Engineering MSc.

- Dates *01 / 08 / 2014 – 31 / 01 / 2015*
- Name and address of the employer *European Commission and Brazilian Ministry of Science, Technology and Innovation*
 - Type of business or sector *Research and Development*
 - Occupation or position held *Senior Expert*
 - Main activities and responsibilities
 - Analysis of European and Brazilian research activities related with CSP, wind power and Hydrogen production and storage, under the Sector Dialogues Program between European Union and Brazil.

- Dates *01 / 09 / 2012 (ongoing)*
- Name and address of the employer *Universidade Lusófona do Porto (www.ulp.pt)*
Rua Augusto Rosa, nº 24
4000-098 Porto
 - Type of business or sector *University*
 - Occupation or position held *Assistant Professor*
 - Main activities and responsibilities
 - Director of the Aerospace Engineering Sciences Degree.
 - Coordinator of the course “Computational Mathematics” of the Aerospace Engineering Sciences Degree.
 - Coordinator of the courses “Programming”, “Numerical Methods” and “Energy Markets” of the

Electrical Engineering and Energy Systems Degree.

- Coordinator of the courses “Programming” of the Civil Engineering and Environmental Engineering Degrees.
- Coordinator of the course “Information and Communication Technologies” of the Civil Protection Engineering Degree.

- Dates *01 / 10 / 2011 – 31 / 08 / 2012*
- Name and address of the employer Instituto Superior Politécnico Gaya (www.ispgaya.pt)
Av. dos Descobrimentos, 333
4400 – 103 Santa Marinha – Vila Nova de Gaia
- Type of business or sector Polytechnic University
- Occupation or position held Assistant Professor
- Main activities and responsibilities
 - Coordinator of the courses “Energy, Environment and Sustainability” and “Energy Management” of the Renewable Energy Degree.
 - Coordinator of the courses “Renewable Energies, Environment and Sustainability” and “Energy Storage and Microgeneration Technologies” of the Energy Management and Energy Efficiency MSc.

- Dates *01 / 11 / 2007 (ongoing)*
- Name and address of the employer INESC TEC (www.inesctec.pt) (formerly INESC Porto)
Campus da FEUP
Rua Dr. Roberto Frias
4200 - 465 Porto, Portugal
- Type of business or sector Research and Development
- Occupation or position held Senior Researcher / Project Manager
- Main activities and responsibilities
 - Project Coordinator of the H2020 project FEEdBACK - Fostering Energy Efficiency and Behavioural Change through ICT. This project was financed by the European Union under the H2020 Framework Program. The objectives of the FEEdBACK project are to develop, integrate and trial a wide range of energy focused ICT and behaviour modification applications, that will be used to engage energy users and permit them to understand and change their energy consumption related behaviour in three different built environments (Office/Research Labs, Schools, Domestic smart homes) in three climatic settings (northern Portugal, Mediterranean Spain, and northern Germany). (reference 768935)
 - Member of the research team of the project InteGrid - Demonstration of INTElligent grid technologies for renewables INTEgration and INTERactive consumer participation enabling INTERoperable market solutions and INTERconnected stakeholders. This project was financed by the European Union under the H2020 Framework Program. The InteGrid project is focused on bridging the gap between citizens, technology and the other players of the energy system. The project will demonstrate how DSOs may enable all stakeholders to actively participate in the energy market and distribution grid management and develop and implement new business models, making use of new data management and consumer involvement approaches. Moreover, the consortium will demonstrate scalable and replicable solutions in an integrated environment that enables DSOs to plan and operate the network with a high share of DRES in a stable, secure and economic way, using flexibility inherently offered by specific technologies and by interaction with different stakeholders. (reference 731218)
 - Leader of INESC TEC research team of the project GaMDER - Gamified Management of Distributed Energy Resources. This project was financed by the H2020 project ERIGrid and consisted on sending researchers from INESC TEC and Istanbul Technical University to test innovative user engagement and demand response concepts in the laboratory facilities of RSE. (reference 01.003-2016).
 - Member of INESC TEC research team and the team that prepared the proposal for the project ESGRIDS – Enhancing Smart GRIDs for Sustainability, under the P2020 Program. This project, with a total budget of 2.1 M€, will develop new scientific methodologies and solutions, using a multidisciplinary approach that involves the main actors of the smart grid, to meet the challenges of

the future electrical power system. (reference 03/SAICT/2015).

- Leader of INESC TEC research team of the project "Analysis of the EVs' Impacts on the MIBEL Prices". This work was developed for EDP Produção.
- Leader of the team that developed a methodology for losses allocation in networks with several generation facilities subjected to different regulatory regimes. This work was developed for RESUL.
- Leader of the team that developed a methodology for losses allocation in networks with wind farms subjected to different regulatory regimes. This work was developed for EDP Renováveis.
- Leader of INESC TEC research team and the team that prepared the proposal for the project SmartGuide – Defining Planning and Operation Guidelines for European Smart Distribution Systems, under the EU ERA-NET Smart Grid Plus Framework Program. This project focuses on the development of improved planning and operating guidelines for European smart grids, considering renewable energy sources and the demand that arise from smart market applications (e.g. demand response, frequency control and reserves management).
- Leader of INESC TEC research team and the team that prepared the proposal for the project GReSBAS – Grid Responsive Society Through Building Automation Systems, under the EU ERA-NET Smart Grid Plus Framework Program. The main objective of the GReSBAS project is to implement and demonstrate an innovative gamification system for promoting Demand Response (DR) actions in buildings. This system will use building automation technologies and advanced gamification techniques for end-user engagement in order to enable the active participation of building occupants/owners in DR schemes. An important emphasis will be given to DR programs capable of supporting and improving the operation of distribution grids, namely for the purpose of peak shaving and congestion management.
- Leader of INESC TEC research team and member of the team that prepared the proposal for the project SusCity: Urban data driven models for creative and resourceful urban transitions, funded by the Portuguese Foundation for Science and Technology (FCT) (reference MITP-TB/CS/0026/2013). This project aims at advancing the science of urban systems modelling and data representation supported by urban "big data" collection and processing, with the double objective of enabling and demonstrating a suite of new services that explore economic opportunities associated with the transition to sustainable urban systems.
- Leader of INESC TEC research team and member of the team that prepared the proposal for the project Optimization of DC Power Supply Systems. This work was developed for EDP Distribuição.
- Member of INESC TEC research team and the team that prepared the proposal for the project AnyPLACE – Adaptable Platform for Active Services Exchange, under the HORIZON 2020 Framework Program. This project, with a total budget of 3 M€, will develop a modular smart metering platform to provide a bidirectional service exchange gateway that enhances the interaction between end users, market representatives, electricity network operators and ICT providers. The proposed solution will allow performing energy remote metering (electricity, gas, heating and cooling), exploiting electricity networks in a more efficient manner and turning end users in active energy markets players through their engagement in demand response programs. The utilization of the AnyPLACE platform to actively manage and control electricity networks will also allow mitigating operational problems related with the variability of renewable based generation. (reference 646580).
- Leader of INESC TEC research team of the project ELECTRA – European Liaison on Electricity Committed Towards Long-term Research Activities for Smart Grids, approved by the European Union under the 7th Framework Program. The ELECTRA Integrated Research Programme on Smart Grids brings together the partners of the EERA Joint Programme on Smart Grids to reinforce and accelerate Europe's medium to long term research cooperation in this area and to drive a closer integration of the research programmes of the participating organisations and of the related national programmes. ELECTRA's joint research activity and collaborative support actions build on an established track record of collaboration and engagement. Together, the JP SG and ELECTRA will establish significant coherence across national research efforts critical to the stable operation of the EU power system of 2020+. ELECTRA will establish and validate proofs of concept that utilise flexibility from across traditional boundaries in a holistic fashion. In addition to the joint R&D activities, coordination work packages in ELECTRA build on existing efforts established through EERA and will significantly escalate these through the coordination and collaboration amongst EU leading research infrastructures, researcher exchange across EU and internationally, and actions on international cooperation. (reference 609687).
- Leader of INESC TEC research team of the project OTGEN Solar: PV and CSP Impacts in Future

Power Systems. This work was developed for EDP Produção.

- Leader of INESC TEC research team of the project PredictEV – Mobile Sensing and Reliable Prediction of Electric Vehicle Charging in Smart Grids. The PredictEV project will deliver key technical advancements for the reliable coordination of networked electrical vehicles (EVs) and smart urban power systems. The project shall combine and leverage the facilities of the Laboratory of Microgrids and Electric Vehicles at INESC TEC with large-scale simulation tools and the city-scale mobile sensor network developed by IT, which consists of an IEEE 802.11p and IPv6 compliant vehicular ad-hoc network with hundreds of GPS enabled nodes currently under deployment in Porto, Portugal. This project is financed by the Silicon Valley Community Foundation through Cisco University Research Program Fund under gift number 2011-90060.
- Member of the research team of the project Best Case. This project envisages a two level synergistic approach: 1) Strengthening the know-how in a set of core technologies within the electric energy system area and 2) Broadening the research scope to a set of enabling technologies from the Information and Communication Technologies (ICT) field. By embedding ICT with e energy system's core technologies, this project will leverage the development of a solid and mature Smart Grid concept with innovative solutions.
- Member of the research team of the project SuSAINABLE approved by the European Union under the 7th Framework Program. The SuSAINABLE project will develop and demonstrate a new grid operation paradigm, leveraging information from smart meters and short-term localized predictions to manage distribution systems in a more efficient and cost-effective way, enabling a large-scale deployment of variable distributed resources.
- Leader of INESC TEC research team of the project EFA-iCharge. This project has as main objective the development of an innovative bidirectional electric vehicle charging device which complies with the current existing standards related with electric vehicles and electricity grids fields of research and take into consideration the potential electric vehicle integration in the Smart Home concept and their participation in future Demand Response schemes.
- Leader of INESC TEC research team of the project STABALID approved by the European Union under the 7th Framework Program. The overall objective of the STABALID project is to facilitate the deployment of safe stationary batteries with energy content over 1 MWh and cell size larger than 10 Ah. To this end, a new testing procedure for stationary batteries that will become a new international standard document for this kind of energy system will be developed. The safety testing procedure will be developed based on a detailed risk analysis and the review of international existing standards (including those in preparation) applicable for stationary batteries. In addition, the consortium will propose a strategy and roadmap to establish a harmonized regulatory framework in order to allow a safe implementation, operation and end of life of large Li-ion batteries for grid applications. (reference 308896).
- Member of INESC TEC research team of the project ENERGEO. This project has as main objective the development of educational contents in the field of electricity, focusing mainly the characterization of the energy chain from the perspective of economic and environmental sustainability, for different audiences, to be made available on an online platform.
- Leader of INESC TEC research team that performed safety studies for a quarry crossed by power cables from a nearby wind farm. It was analyzed the possibility of inadvertent ignition of the quarry detonators due to the currents induced by power transmission cables and determined the safety distances to maintain between the power cables and the path of the detonators circuits. This work was developed for ENEOP 2.
- Leader of INESC TEC research team of the project SMAGIS: A Smart Energy Grid Integration System Configuration of an Energy Storage System in presence of RES Microgeneration, EDVs and Polygeneration, funded by the Portuguese Foundation for Science and Technology (FCT) (reference PTDC/SEN-ENR/113094/2009). In this work the interconnection of various technologies (wind, solar, biomass, plug-in hybrid electric vehicles and pure electric vehicles) to low voltage networks was examined and integrated in a single model. This integrated model has as main target the economic and environmental optimization of the resources utilization.
- Leader of INESC TEC research team of the project DYMONDS: Dynamic Monitoring and Decision Systems, funded by the Portuguese Foundation for Science and Technology (FCT) (reference CMU-PT/SIA/0043/2009). This project's main objective was developing a framework for designing and operating future smart distributed electric power systems. Such framework will be enabled by the next-generation Supervisory Control and Data Acquisition System (SCADA), referred to as the Dynamic Monitoring and Decision Systems (DYMONDS), which is fundamentally based on the

multi-layered sensing, communication and control.

- Member of INESC TEC research team that performed the electric vehicles forecasting studies to be included in the reformulated National Action Plan for Renewable Energies (PNAER), for the Ministry of Economy and Employment of the Portuguese Government.
- Member of INESC TEC research team and the team that prepared the proposal for the project MERGE – Mobile Energy Resources in Grids of Electricity approved by the European Union under the 7th Framework Program. This project, with a total budget of 4.5 M€, assessed the impacts that electric vehicles will have on the European Union electric power systems regarding planning, operation and market functioning. (reference RTD REG/K.2(2010)D/501450).
- Member of the team that performed studies, including steady state and dynamic stability analysis, to evaluate the technical feasibility of the expansion plans of renewable energy sources, namely wind and solar, in several islands of Cape Verde. This work was developed for Martifer.
- Member of INESC TEC research team and the team that prepared the proposal for the project REIVE: Smart Grids with Electric Vehicles, funded by the Portuguese Agency for Energy (ADENE) and by the Portuguese Innovation Support Fund (FAI). This project included the development of prototypes to connect electric vehicles and distributed generation to distribution grids. This project also included the development of a laboratorial infrastructure to test the prototypes and to evaluate the impacts that electric vehicles will have on the Portuguese electric power system regarding planning, operation and market functioning.
- Member of the research team and the team that prepared the proposal for the project MicroGrids+EV: Identification of Control and Management Strategies for Microgrids with Plugged-in Electric Vehicles, funded by the Portuguese Foundation for Science and Technology (FCT) (reference PTDC/EEA-EEL/103546/2008). This project focused on the management of electric vehicles connected to low voltage grids, through the exploitation and extension of the micro grid concept and the development of specific control and management strategies in order to help managing the electric power system. Additionally, new procedures were identified and exploited in order to make electric vehicles' batteries active participants in micro grid restoration services and voltage imbalance compensation during islanded operation.
- Member of INESC TEC research team of the project Green Islands: Power demand estimation and power system impacts resulting of fleet penetration of electric/plug-in vehicles, funded by the Portuguese Foundation for Science and Technology (FCT) (reference MIT-Pt/SES-GI/0008/2008). The project's main objective was to develop a model that allows estimating the electric grid demand resulting from the market penetration of electric based vehicles (plug-in vehicles, both pure electric and hybrid, and electrolysis hydrogen based fuel cell vehicles), along a specified time frame (from 2010 until 2050).
- Member of the research team responsible for the development of the project INOVGRID contracted by the Portuguese Distribution Network Operator (EDP Distribuição). The project was focused on the fields of Smart Metering and management of energy consumption, large scale integration of micro-generation systems in low voltage distribution networks and Smart-Grids. Within this project, the main activities that I was involved were: identification and definition of new control functionalities for the operation and control of distribution networks with large scale integration of distributed generation; adoption of Smart-Grid concepts / distribution network automation; and identification and economic evaluation of benefits resulting from micro generation and distributed generation integration in distribution network.
- Member of the team that developed a methodology for losses allocation in networks with wind farms subjected to different regulatory regimes. This work was developed for ENERSIS.
- Member of the team that developed a methodology for losses allocation in networks with wind farms subjected to different regulatory regimes. This work was developed for ENEOP 2.

• Dates 15 / 01 / 2006 – 31 / 12 / 2006

• Name and address of the employer Instituto Politécnico do Porto (www.ipp.pt)

- Type of business or sector Polytechnic University
- Occupation or position held Computer Studies Professor

• Dates 01 / 09 / 2003 – 31 / 10 / 2007

- Type of business or sector High School
- Occupation or position held Physics Teacher

EDUCATION AND TRAINING

- Dates 18 / 04 / 2012
- Title of qualification awarded Philosophy Doctor in Sustainable Energy Systems Engineering (focus on Smart Grids and Renewable Energy Sources) – Grade: Approved by Unanimity with Distinction
- Name and type of organisation providing education and training Massachusetts Institute of Technology | Portugal Program in the Faculty of Engineering of Porto University (FEUP), in association with Lisbon University (UL) and Lisbon Technical University (UTL)
 - Thesis
 - Title – “Impact of the Deployment of Electric Vehicles in Grid Operation and Expansion”
 - Supervisor – Professor J. A. Peças Lopes
- Dates 29 / 06 / 2007
- Title of qualification awarded Post-graduation in Electrical And Computer Engineering (Renewable Energies) – Grade: 15 (scale 0-20)
- Name and type of organisation providing education and training Faculty of Engineering of Porto University (FEUP)
- Dates 26 / 05 / 2004
- Title of qualification awarded Graduation in Physics – Grade: 15 (scale 0-20).
- Name and type of organisation providing education and training Faculty of Sciences of Porto University (FCUP)

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE Portuguese

OTHER LANGUAGE(S)

- English (Fluent – First Certificate in English, Ref. 136PT0050175)
- French (Basic)
- Spanish (Basic)

SOCIAL SKILLS AND COMPETENCES Team spirit, good ability to adapt to multicultural environments, good communication skills, self-taught, creative and autonomous.

COMPUTER SKILLS AND COMPETENCES

- Good programming skills using C, C++, Python and Visual Basic.
- Advanced knowledge on engineering tools: Matlab, Matlab/Simulink, PSS/E, Eurostag, Matpower, Autocad, Powerworld, Arena, Lingo.
- Basic knowledge on DPlan.
- Proficient use of basic IT resources like Microsoft Office.

DRIVING LICENCE B Category

ADDITIONAL INFORMATION

BOOKS

- F. J. Soares, "Integration of Electric Vehicles in Distribution Networks: Methodologies to Evaluate Impacts and Manage Electric Vehicles' Charging," LAP LAMBERT Academic Publishing, 2012.

BOOK CHAPTERS

- Manuel A. Matos, Luís Seca, A.G. Madureira, F.J. Soares, Ricardo J. Bessa, J. Pereira, J. Peças Lopes, "Control and Management Architectures," in "Smart Grid Handbook," John Wiley & Sons Ltd., 2016.
- Filipe J. Soares, P. M. Rocha Almeida, Matthias Galus, Pedro N. P. Barbeiro, João A. P. Lopes, "Active Management of Electric Vehicles Acting as Distributed Storage," in "Smart Grid Handbook," John Wiley & Sons Ltd., 2016.
- Filipe J. Soares, Pedro N. P. Barbeiro, Clara Gouveia, João A. P. Lopes, "Impacts of Plug-in Electric Vehicles Integration in Distribution Networks under Different Charging Strategies," in "Plug In Electric Vehicles in Smart Grids – Charging Strategies," Springer, 2015.
- F. J. Soares, P. M. Rocha Almeida, J. A. Peças Lopes, "Simulation of Electric Vehicles Motion Using a Stochastic Model: Assessment of Energy Requirements and Environmental Impacts," in "Grid Electrified Vehicles: Performance, Design and Environmental Impacts," Nova Science Publishers, 2013.
- F. J. Soares, P. M. Rocha Almeida, J. A. Peças Lopes, Rodrigo Garcia-Valle, "State of the Art on Different Types of Electric Vehicles," in "Electric Vehicle Integration into Modern Power Networks," Springer, 2012.
- F. J. Soares, P. M. Rocha Almeida, J. A. Peças Lopes, "Advanced Models and Simulation Tools to Address the Impacts of Electric Vehicles in the Power System (Steady State and Dynamic Behavior)," in "Electric Vehicle Integration into Modern Power Networks," Springer, 2012.
- P. M. Rocha Almeida, F. J. Soares, J. A. Peças Lopes, "Impacts of Large Scale Deployment of Electric Vehicles in the Electric Power System," in "Electric Vehicle Integration into Modern Power Networks," Springer, 2012.

PUBLICATIONS IN JOURNALS WITH
PEER-REVIEW PROCESS

- José Iria, Filipe Soares, Manuel Matos, Optimal supply and demand bidding strategy for an aggregator of small prosumers, In Applied Energy, 2017, , ISSN 0306-2619, <https://doi.org/10.1016/j.apenergy.2017.09.002>.
- F.J. Soares, D. Rua, C. Gouveia, J.A. Peças Lopes, "Electric Vehicles Charging Management and Control Strategies", IEEE Vehicular Technology Magazine, in press.
- P.M. Rocha Almeida, F.J. Soares, J.A. Peças Lopes, "Electric vehicles contribution for frequency control with inertial emulation", Electric Power System Research, Volume 127, October 2015, Pages 141–150.
- F.J. Soares, L. Carvalho, I.C. Costa, J.P. Iria, J.-M. Bodet, G. Jacinto, A. Lecocq, J. Roessner, B. Caillard, O. Salvi, "The STABALID project: Risk analysis of stationary Li-ion batteries for power system applications", Reliability Engineering & System Safety, Volume 140, August 2015, Pages 142–175.
- P.N. Pereira Barbeiro, H. Teixeira, J. Krstulovic, J. Pereira, F.J. Soares, "Exploiting autoencoders for three-phase state estimation in unbalanced distributions grids", Electric Power System Research, Volume 123, June 2015, Pages 108–118.
- C. Gouveia, D. Rua, F.J. Soares, C. Moreira, P.G. Matos, J.A. Peças Lopes, "Development and implementation of Portuguese smart distribution system", Electric Power System Research, Volume 120, March 2015, Pages 150–162.
- F. J. Soares, P. M. Rocha Almeida, "Quasi-real-time management of Electric Vehicles charging", Electric Power System Research, Volume 108, March 2014, Pages 293-303.
- Patrícia C. Baptista, Carla M. Silva, J.A. Peças Lopes, Filipe J. Soares, Pedro R. Almeida, "Evaluation of the benefits of the introduction of electricity powered vehicles in an island", Energy Conversion and Management, Volume 76, December 2013, Pages 541-553
- R. J. Bessa, M. A. Matos, F. J. Soares, J. A. Peças Lopes, "Optimized Bidding of a EV Aggregation Agent in the Electricity Market," Smart Grid, IEEE Transactions on, vol.3, no.1, pp.443-452, March 2012.
- E. T. Bower, J. A. Peças Lopes, F. J. Soares, D. Rua, N. Hatzigiorgiou, K. Strunz, M. Ferdowsi: Initial Findings of 'MERGE' (Mobile Energy Resources in Grids of Electricity), International Journal of Automotive Engineering, Vol.3, No.1, pp.35-40 (2012).
- Lopes, J.A.P.; Soares, F.J.; Almeida, P.M.R.; , "Integration of Electric Vehicles in the Electric Power System," Proceedings of the IEEE , vol.99, no.1, pp.168-183, Jan. 2011.

PUBLICATIONS IN OTHER JOURNALS

• J. A. Peças Lopes, F. J. Soares, Nikos Hatziargyriou, Erietta Zountouridou, Regine Belhomme, Vera Silva, John Whelan, Kai Strunz, David Poli, Pedro Almeida, Pablo Frias, Rafael Cossent, Jason Taylor, "Integration of Electric Vehicles in Electric Power Systems, CIGRE – Working Group C6.20", *ELECTRA Journal*, N^o. 283, December 2015.

• N. Hatziargyriou, V. Lioliou, J. A. Peças Lopes, F. J. Soares, D. Rua, P. M. Rocha Almeida, N. Downing, Ed Bower, K. Strunz, M. Ferdowsi, E. Abbasi, "Veículos elétricos: recursos móveis de energia", *Eletricidade Moderna*, Ano 39, N^o 448, July 2011.

PUBLICATIONS IN CONFERENCES WITH PEER-REVIEW PROCESS

• M. A. Zehir, S. Erpaytoncu, E. Yilmaz, D. Balci, A. Batman, M. Bagriyanik, U. Kucuk, F. J. Soares, A. Ozdemir, "Analysis of Consumer Expectations, Preferences and Concerns on Gamified Deployment of Demand Response in Turkey", *ELECO 2017*, Bursa, Turkey, December 2017.

• António Barbosa, José Iria, Fernando Cassola, António Coelho, João Portela, Ü. Küçük, A. G. Madureira, M. A. Zehir, A. Ozdemir, F. J. Soares, "GReSBAS project: A gamified approach to promote more energy efficient behaviours in buildings", *ELECO 2017*, Bursa, Turkey, December 2017.

• Fernando Cassola, José Iria, Hugo Paredes, Leonel Morgado, António Coelho, Filipe Soares, "Using choreographies to support the design process on the development of serious games to reduce electricity costs", *Gala Conference 2017*, Lisbon, Portugal, December 2017.

• B. D. Tavares, J. Sumaili, F. J. Soares, A. G. Madureira and R. Ferreira, "Assessing the impact of demand flexibility on distribution network operation," *2017 IEEE Manchester PowerTech*, Manchester, 2017, pp. 1-6. doi: 10.1109/PTC.2017.7981196

• N. Neyestani, F. J. Soares, R. Alves, F. S. Reis and R. Pastor, "Assessing the adaption of stochastic clearing procedure to a hydro-penetrated market," *2017 14th International Conference on the European Energy Market (EEM)*, Dresden, 2017, pp. 1-6. doi: 10.1109/EEM.2017.7982007

• António Coelho, Filipe Soares, Carlos Moreira, Bernardo Silva, "Primary Frequency Control in Future Power Systems - The ELECTRA Project Approach under the Web-of-Cells Concept", *IREP2017*, Espinho, Portugal, August 2017.

• Fabian Heymann, Carlos Perreira, Joel Soares, Vladimiro Miranda, "Spatial Load Forecasting of Electric Vehicle Charging using GIS and Diffusion Theory", *ISGT Europe 2017*, Turin, Italy, September 2017.

• Nilufar Neyestani, Filipe J. Soares, and Jose P. Iria, "Stochastic Market Clearing Model with Probabilistic Participation of Wind and Electric Vehicles", *ISGT Europe 2017*, Turin, Italy, September 2017.

• Fabian Heymann, Nilufar Neyasani, Joel Soares, Vladimiro Miranda, "Mapping the Impact of Daytime and Overnight Electric Vehicle Charging on Distribution Grids", *IEEE VPPC 2017*, Belfort, France, December 2017.

• António Coelho, Filipe Soares, Carlos Moreira and Bernardo Silva, "Primary Frequency Control in Future Power Systems", *2nd Symposium on Sustainable Energy Systems*, Porto, Portugal, June 2017.

• Antonio Barbosa, Filipe Soares, Jose Iria, Antonio Coelho and Fernando Cassola, "Project GReSBAS, initial installation of a test site", *2nd Symposium on Sustainable Energy Systems*, Porto, Portugal, June 2017.

• Fabian Heymann, Filipe Joel Soares and Vladimiro Miranda, "Integrated Spatial load forecasting for Distribution Network Planning", *2nd Symposium on Sustainable Energy Systems*, Porto, Portugal, June 2017.

• Bruna Tavares and Filipe Soares, "Potential of Demand Flexibility to Enhance Distribution Grids Operation", *2nd Symposium on Sustainable Energy Systems*, Porto, Portugal, June 2017.

• Nuno Fonseca, André Madureira, Filipe Soares, Bruna Tavares, Fabian Heymann and Ricardo Ferreira, "Defining Planning and Operation Guidelines for European Smart Distribution Systems", *2nd Symposium on Sustainable Energy Systems*, Porto, Portugal, June 2017.

• M. A. Zehir, M. H. Wevers, A. Batman, M. Bagriyanik, U.Kucuk, F.J.Soaers, A. Ozdemir, "A Novel Incentive-based Retail Demand Response Program for Collaborative Participation of Small Customers", *PowerTech 2017*, Manchester, UK, June 2017.

• P.M. Rocha Almeida, F.J. Soares, J.A. Peças Lopes, "Electric Vehicles in Automatic Generation Control for Systems with Large Integration of Variable Renewable Generation", *PES General*

Meeting, Chicago, USA, July 2017.

- J. P. Iria, Filipe Soares, Manuel A. Matos, "Trading Small Prosumers Flexibility in the Day-ahead Energy Market", PES General Meeting, Chicago, USA, July 2017.
- F. J. Soares, J. P. Iria, "Impact of PV for Self-consumption in the Day-ahead Market Spot Prices", 13th European Energy Market Conference – EEM 2016, Porto, Portugal, June, 2016.
- J. P. Iria, F. J. Soares, R. J. Bessa, "Optimized Demand Response Bidding in the Wholesale Market under Scenarios of Prices and Temperatures", Powertech 2015, Eindhoven, The Netherlands, June-July, 2015.
- Filipe J. Soares, J. P. Iria, J. A. Peças Lopes, "Energy Requirements of Electric Vehicles and Related Environmental Impacts", 10th Conference on Sustainable Development of Energy, Water and Environment Systems, Dubrovnik, Croatia, September-October, 2015.
- R.J. Bessa, M.A. Matos, F.J. Soares, "Framework for the Participation of EV Aggregators in the Electricity Market", IEEE International Electric Vehicle Charging Conference (IEVC) 2014, Florence, Italy, December, 2014.
- J. P. Iria, F. J. Soares, I. G. Franchin, N. Silva, "Development of a Novel Management System for Electric Vehicle Charging", IEEE International Electric Vehicle Charging Conference (IEVC) 2014, Florence, Italy, December, 2014.
- F. J. Soares, D. Rua, C. Gouveia, J. A. Peças Lopes, "Electric Vehicles Charging Management and Control Strategies", Vehicle Power and Propulsion Conference (VPPC) 2014, Coimbra, Portugal, October, 2014.
- P. N. Pereira Barbeiro, J. Krstulovic, H. Teixeira, J. Pereira, Filipe J. Soares, J. P. Iria, "State Estimation in Distribution Smart Grids Using Autoencoders", 2014 IEEE 8th International Power Engineering and Optimization Conference (PEOCO), Langkawi, Malaysia, March, 2014.
- J. P. Iria, Filipe J. Soares, A. G. Madureira, M. Heleno, "Availability of Household Loads to Participate in Demand Response", 2014 IEEE 8th International Power Engineering and Optimization Conference (PEOCO), Langkawi, Malaysia, March, 2014.
- Ivo C. Costa, Mauro A. da Rosa, Leonel M. Carvalho, Filipe J. Soares, Leonardo Bremermann, Vladimiro Miranda, "Probabilistic Analysis of Stationary Batteries Performance to Deal with Renewable Variability", 2014 International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), Durham, United Kingdom, July, 2014.
- Filipe J. Soares, J. P. Iria, A. G. Madureira, "Advanced Models and Algorithms for Demand Participation in Electricity Markets", North American Power Symposium (NAPS) 2014, Washington, United States of America, September, 2014.
- Filipe J. Soares, Pedro M. Rocha Almeida, Pedro Iria, João A. Peças Lopes, "Assessment of Energy Requirements and Environmental Impacts of Electric Vehicles", Energy for sustainability 2013, Coimbra, Portugal, September, 2013.
- F. J. Soares, J. A. Peças Lopes, "Online Algorithm to Coordinate Electric Vehicles' Charging with Renewable Power Generation", ISAP 2013, Tokyo, Japan, July, 2013.
- F. J. Soares, J. A. Peças Lopes, "Controlling Electric Vehicles in Quasi-Real-Time", Powertech 2013, Grenoble, France, June, 2013.
- P. M. Rocha Almeida, F. J. Soares, and J. A. Peças Lopes, "Electric Vehicles Contribution for Frequency Support in the Island of Flores", EEMSW2012, Açores, Portugal, September, 2012.
- F. J. Soares, "Evaluation of the Steady State Impacts of Electric Vehicles in Distribution Networks", StudECE 2012, Porto, Portugal, July, 2012.
- F. J. Soares, C. Gouveia, P. N. Pereira Barbeiro, P. M. Rocha Almeida, C. Moreira and J. A. Peças Lopes, "The MERGE Project: Impacts of Electric Vehicles on the Distribution System Steady-State Operation", SmartGreens 2012, Vila Nova de Gaia, Portugal, April, 2012.
- F. J. Soares, C. Gouveia, P. N. Pereira Barbeiro, P. M. Rocha Almeida, C. Moreira and J. A. Peças Lopes, "Smart Grids With Electric Vehicles: The Initial Findings of Project Reive", SmartGreens 2012, Vila Nova de Gaia, Portugal, April, 2012.
- F. J. Soares, P. M. Rocha Almeida, C. Gouveia, M. Ribeiro, P. N. Pereira Barbeiro, J. A. Peças Lopes, "Evaluating the impacts of Electric Vehicles and Micro-Generation in Distribution Networks", 3rd European Conference on Smart Grids and E-Mobility, Munich, Germany, October, 2011.

- R. J. Bessa, M. A. Matos, F. J. Soares, J. A. Peças Lopes, "Models for the EV aggregation agent business," PowerTech, 2011 IEEE Trondheim, Norway, 19-23 June 2011.
- P. M. Rocha Almeida, J. A. Peças Lopes, F. J. Soares, L. Seca, "Electric vehicles participating in frequency control: Operating islanded systems with large penetration of renewable power sources," PowerTech, 2011 IEEE Trondheim, Norway, 19-23 June 2011.
- Ed Bower, J. A. Peças Lopes, F. J. Soares, D. Rua, N. Hatzigiorgiou, K. Strunz, M. Ferdowsi, "MERGE (Mobile Energy Resources in Grids of Electricity) - A European Commission Funded Project Addressing the Impact of the Roll-out of Electric and Plug-in Hybrid Vehicles on Grid Infrastructure", EVTeC'11, Yokohama, Japan, May, 2011.
- P. M. Rocha Almeida, C. L. Moreira, F. Soares, J. A. Peças Lopes, "Exploiting the Potential of Electric Vehicles to Improve Operating Conditions in Islanded Grids", CIGRE 2011, Bologna, Italy, 13-15 September 2011.
- P. Barbeiro, F.J. Soares, L. Seca, A.G. Madureira, J.A. Peças Lopes, "Siting and Sizing of energy storage systems to maximize DG integration in MV distribution networks", CIGRE 2011, Bologna, Italy, 13-15 September 2011.
- C.L. Moreira, B. Silva, F.J. Soares, L. Seca, J.A. Peças Lopes, "Inertial control in off-shore wind farms connected to AC networks through multi-terminal HVDC grids with VSC", CIGRE 2011, Bologna, Italy, 13-15 September 2011.
- F. J. Soares, J. A. Peças Lopes, P. M. Rocha Almeida, C. L. Moreira, L. Seca, "A stochastic model to simulate electric vehicles motion and quantify the energy required from the grid", Power Systems Computation Conference (PSCC), Stockholm, Sweden, August, 2011.
- D. Rua, D. Issicaba, F. J. Soares, P. M. R. Almeida, R. J. Rei, J. A. P. Lopes, "Advanced Metering Infrastructure functionalities for electric mobility," Innovative Smart Grid Technologies Conference Europe (ISGT Europe), 2010 IEEE PES, Gothenburg, Sweden, 11-13 Oct. 2010.
- R. J. Rei, F. J. Soares, P. M. R. Almeida, J. A. Peças Lopes, "Grid interactive charging control for plug-in electric vehicles," Intelligent Transportation Systems (ITSC), 2010 13th International IEEE Conference on, Madeira, Portugal, 19-22 Sept. 2010.
- N. Hatzigiorgiou, J. A. Peças Lopes, F. J. Soares, D. Rua, P. M. Rocha Almeida, N. Downing, E. Bower, K. Strunz, M. Ferdowsi, E. Abbasi, V. Lioliou, "Mobile Energy Resources in Grids of Electricity: the EU MERGE Project", 2nd European Conference on Smart Grids and E-Mobility, Brussels, Belgium, October, 2010.
- F. J. Soares, P. M. Rocha Almeida, J. A. Peças Lopes, L. Seca, C. L. Moreira, "A Technical Management and Market Operation Framework for Electric Vehicles Integration into Electric Power Systems", 2nd European Conference on Smart Grids and E-Mobility, Brussels, Belgium, October, 2010.
- Pereira Barbeiro, P.N.; Moreira, C.L.; Soares, F.J.; Rocha Almeida, P.M.; , "Evaluation of the impact of large scale integration of micro-generation units in low and Medium Voltage distribution networks," Innovative Technologies for an Efficient and Reliable Electricity Supply (CITRES), 2010 IEEE Conference on, Boston, United States of America, 27-29 Sept. 2010.
- Soares, F.J.; Lopes, J.A.P.; Almeida, P.M.R.; , "A Monte Carlo method to evaluate electric vehicles impacts in distribution networks," Innovative Technologies for an Efficient and Reliable Electricity Supply (CITRES), 2010 IEEE Conference on, Boston, United States of America, 27-29 Sept. 2010.
- J. A. Peças Lopes, P. M. Rocha Almeida, F. J. Soares, C. L. Moreira, "Electric Vehicles in Isolated Power Systems: Conceptual Framework and Contributions to Improve the Grid Resilience", CMTEE 2010 – Conference on Control Methodologies and Technology for Energy Efficiency, Vilamoura, Portugal, March, 2010.
- Almeida, P.M.R.; Lopes, J.A.P.; Soares, F.J.; Vasconcelos, M.H.; , "Automatic Generation Control operation with electric vehicles," Bulk Power System Dynamics and Control (iREP) - VIII (iREP), 2010 iREP Symposium, Búzios, Rio de Janeiro, Brazil, 1-6 Aug. 2010.
- J. A. Peças Lopes, P. M. Rocha Almeida, F. J. Soares, N. Hatzigiorgiou, "Electric Vehicles Grid Integration Under the MicroGrid Concept", European Conference on Smart Grids and E-Mobility, Würzburg, Germany, June, 2009.
- Lopes, J.A.P.; Soares, F.J.; Almeida, P.M.R.; Baptista, P.C.; Silva, C.M.; Farias, T.L.; , "Quantification of technical impacts and environmental benefits of electric vehicles integration on

electricity grids," Advanced Electromechanical Motion Systems & Electric Drives Joint Symposium, 2009. ELECTROMOTION 2009. 8th International Symposium on, Lille, France, 1-3 July 2009.

- J. A. Peças Lopes, F. J. Soares, P. M. Rocha Almeida, A. M. Moreira da Silva, "Smart Charging Strategies for Electric Vehicles: Enhancing Grid Performance and Maximizing the Use of Variable Renewable Energy Resources", EVS24 - The 24th International Battery, Hybrid and Fuel Cell Electric Vehicle Symposium & Exhibition, Stavanger, Norway, May 2009.

- Peças Lopes, J.A.; Rocha Almeida, P.M.; Soares, F.J.; , "Using vehicle-to-grid to maximize the integration of intermittent renewable energy resources in islanded electric grids," Clean Electrical Power, 2009 International Conference on, Capri, Italy, 9-11 June 2009.

- Lopes, J.A.P.; Soares, F.J.; Almeida, P.M.R.; , "Identifying management procedures to deal with connection of Electric Vehicles in the grid," PowerTech, 2009 IEEE Bucharest, Bucharest, Romania, June 28 2009-July 2 2009.

PUBLICATIONS IN OTHER CONFERENCES / POSTERS

- F. J. Soares, "European Actions Related with CSP, Wind and Hydrogen", Sector Dialogues European Union – Brazil, 2015. (Technical Report)

- F. J. Soares, "Integration of Electric Vehicles in Electric Power Systems", CIGRE – Working Group C6.20, 2013. (Technical Report)

- F. J. Soares, "Impact of the Deployment of Electric Vehicles in Grid Operation and Expansion", 3rd Annual MIT-Portugal Program Conference: Excellence in Engineering for Innovation in Global Markets, Guimarães, Portugal, May, 2012. (Poster)

- F. J. Soares, "Impact of V2G systems in grid operation and expansion", 2nd Annual MIT-Portugal Program Conference: Creating Value through Systems Thinking, Porto, Portugal, September, 2010. (Poster)

- F. J. Soares, "Impact of V2G systems in grid operation and expansion", Ciência 2010, Lisbon, Portugal, July, 2010. (Poster)

- F. J. Soares, "Impact of V2G systems in grid operation and expansion", Sustainable energy systems & electric mobility research platform and network - e2 research net, Lisbon, Portugal, November, 2009. (Poster)

- F. J. Soares, "Impact of V2G systems in grid operation and expansion", 1st Annual MIT-Portugal Program Conference: Engineering for Better Jobs, Lisbon, Portugal, July, 2009. (Poster)

- A. M. Moreira da Silva, F. J. Soares and P. M. Rocha Almeida, "Smart Charging Strategies for EVs: Defining Pathways for the Green Islands Case Study", 2nd Transatlantic Conference on Renewable Energy, Açores – Portugal, April, 2009. (Poster)

- F. J. Soares, P. M. Rocha Almeida and A. M. Moreira da Silva, "Smart Charging Strategies for EVs: Enhancing Grid Performance and Maximizing the Use of Renewable Energy Resources", Alliance for Global Sustainability Meeting 2009, Zurich, Switzerland, January 2009. (Poster)

CHAIR/SCIENTIFIC COMMITTEE MEMBER IN CONFERENCES

- Member of the Scientific Program Committee of the "Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion – MEDPOWER 2018", Dubrovnik, Croatia, November, 2018.

- Chair of the Panel Session "Defining Planning and Operation Guidelines for Future Smart Distribution Grids – The SmartGuide Project", ISGT Europe 2017, Torino, Italy, September, 2017.

- Member of the International Scientific Committee of the "First International Conference On Electrical, Electronics and Control Engineering – EECE 2016", December, 2016.

- Chair of the Session "Electric Vehicles Charging Infrastructures and Grid Integration", IEEE International Electric Vehicle Charging Conference (IEVC) 2014, Florence, Italy, December, 2014.

- Co-Chair of the Session "Electric Vehicles and Hybrid Storage Systems", CIGRE Symposium, Lisbon, Portugal, April, 2013.

- Chair of the Session "Smart Grids", SmartGreens 2012, Vila Nova de Gaia, Portugal, April, 2012.

INVITED PRESENTATIONS / LECTURES

- Invited speaker in the event LABORA 2017 and III China-Portugal Energy R&D Seminar, organized by EDP, Cascais, Portugal, October, 2017. Presentation title: Impact of Electric Vehicles in the Day-Ahead Spot Prices.

- Invited speaker in the Special Session "GReSBAS – Grid Responsive Society Through Building Automation Systems" in PowerTech 2017, Manchester, UK, June, 2017. Presentation title: Building Automation and Gamification for Energy Efficiency.

- Lecturer and coordinator of the Demand Response module in the course “Campus REN: Programa Avançado Energia – Eletricidade” of the Portuguese Transmission System Operator – Rede Elétrica Nacional (REN), Porto, Portugal, July, 2017. Presentation title: Advanced Models and Algorithms for Demand Participation in Electricity Markets.
- Invited speaker in the Annual Massachusetts Institute of Technology-Portugal Annual Conference: Light – Designed by Nature, Transformed by Science, Universidade Nova de Lisboa, Lisboa, Portugal, June, 2015. Presentation title: Research Towards Urban Sustainability.
- Invited speaker in the Science and Technology Week of the National Agency for Scientific and Technological Culture (Ciência Viva), Universidade Lusófona do Porto, Porto, Portugal, November, 2015. Presentation title: Aerospace Engineering in Portugal.
- Lecturer in the course Microgrids and Smart Metering of the Portuguese Energy Services Regulatory Entity (ERSE), Porto, Portugal, October, 2015. Presentation title: Advanced Models and Algorithms for Demand Participation in Electricity Markets
- Invited speaker in the International Conference Energy and Mobility for Smart Cities, Cascais, Portugal, November, 2015. Presentation title: Electric Mobility Economy in Portugal.
- Invited speaker in the Sector Dialogues European Union – Brazil Meeting, Brasília, Brasil, December, 2014. Presentation title: Concentrated Solar Power, Wind Power and Hydrogen Production and Storage in Europe.
- Invited lecturer in Energy and Environment Policy MSc program, Faculty of Engineering of the University of Porto, Porto, Portugal, October, 2014. Presentation title: Electric Mobility.
- Invited speaker in the 2nd Edition of the Days of Electrical Engineering, Faculty of Engineering of the University of Porto, Porto, Portugal, April, 2014. Presentation title: Smart Grids and Electric Vehicles Laboratories.
- Lecturer in the EES-UETP course entitled “Microgrids – the building block of a smarter grid”, Porto, Portugal, June, 2014. Presentation title: Advanced Models and Algorithms for Demand Participation in Electricity Markets.
- Lecturer in the EES-UETP course entitled “Energy Storage in Power Systems: Technologies, Applications and Future needs”, Lausanne, Switzerland, February, 2014. Presentation title: Controlling and managing V2G and V2H.
- Invited speaker in the Science and Technology Week of the National Agency for Scientific and Technological Culture (Ciência Viva), Universidade Lusófona do Porto, Porto, Portugal, November, 2014. Presentation title: Aerospace Engineering in Portugal.
- Invited speaker in the conference “GENERG – 25 Years”, Lisbon, Portugal, June, 2014. Presentation title: The Future of Renewable Energy.
- Invited speaker in the Science and Technology Week of the National Agency for Scientific and Technological Culture (Ciência Viva), Universidade Lusófona do Porto, Porto, Portugal, November, 2013. Presentation title: Electric Vehicles Integration in Electricity Networks.
- Invited speaker in the 10th Edition of the University of Porto's ECE Back to Basics Colloquium, Faculty of Engineering of the University of Porto, Porto, Portugal, October, 2013. Presentation title: Electric Vehicles (and other Distributed Resources) and Electricity Markets.
- Lecturer in the International SDEWES 2013 Summer School on Integration of Electric Vehicles into Energy Systems with a high share of Renewable Energy Sources, in the course “Integration of Electric Vehicles into Grid Systems and Smart Charging”, Dubrovnik, Croatia, September, 2013. Presentation title: Integration of Electric Vehicles into Grid Systems and Smart Charging.
- Invited speaker in the Science and Technology Week of the National Agency for Scientific and Technological Culture (Ciência Viva), Universidade Lusófona do Porto, Porto, Portugal, November, 2012. Presentation title: Electric Vehicles Integration in Electricity Networks.
- Invited speaker in the 8th Edition of the University of Porto's ECE Back to Basics Colloquium, Faculty of Engineering of the University of Porto, Porto, Portugal, November, 2012. Presentation title: Electric Vehicles: System Operators vs. Aggregators.
- Lecturer in the 13th Edition of the European PhD School, in the course “Power Electronics for Electrical Machine and Energy Control”, Gaeta, Italy, May/June 2012. Presentation title: Impacts from Large Scale Deployment of Electric Vehicles.
- Invited speaker in the 3rd Annual Massachusetts Institute of Technology-Portugal Program

Conference: Excellence in Engineering for Innovation in Global Markets, Guimarães, Portugal, May, 2012. Presentation title: Integration of Electric Vehicles in Distribution Networks.

- Invited speaker in the “Doctoral Program in Sustainable Energy Systems” of the Doctoral Program Massachusetts Institute of Technology|Portugal of the Faculty of Engineering of the University of Porto, Porto, Portugal, May, 2012. Presentation title: Electric Vehicles: System Operators vs. Aggregators.

- Invited speaker in the “Doctoral Program in Engineering and Public Policy” of the Doctoral Program Carnegie Mellon|Portugal of the Faculty of Engineering of the University of Porto, Porto, Portugal, November, 2011. Presentation title: Integration of EV in Distribution Networks.

- Lecturer in the EES-UETP course entitled “Impact of Large Scale Deployment of Electric Mobility in Power System Operation and Planning”, Porto, Portugal, October, 2011. Presentation title: Integration of EV in Distribution Networks: Impact Analysis and Advanced Control Solutions.

- Lecturer in the EES-UETP course entitled “Electric Vehicle Integration into Modern Power Network”, Copenhagen, Denmark, September, 2010. Presentation title: Smart charging strategies for efficient management of the grid and generation systems.

- Invited speaker in the conference “Energy 2020 – A 10 Years Objective”, Lisbon, Portugal, February, 2010. Presentation title: Integration of Electric Vehicles in Electricity Networks.

- Invited speaker in the conference “Science 2009 Meeting”, Lisbon, Portugal, July, 2009. Presentation title: Integration of Electric Vehicles in Electricity Networks.

AWARDS

- Best Paper Award, “Electric Vehicles Charging Management and Control Strategies”, Vehicle Power and Propulsion Conference (VPPC) 2014, Coimbra, Portugal, October, 2014.

- Poster and Pitch Presentation: Honourable Mention, “Impact of the Deployment of Electric Vehicles in Grid Operation and Expansion”, 3rd Annual MIT-Portugal Program Conference: Excellence in Engineering for Innovation in Global Markets, Guimarães, Portugal, May, 2012.

- Best Student Paper Award, “Smart Grids with Electric Vehicles: The Initial Findings of Project Reive”, SmartGreens 2012, Vila Nova de Gaia, Portugal, April, 2012.

- Best Poster Award, “Smart Charging Strategies for EVs: Defining Pathways for the Green Islands Case Study”, 2nd Transatlantic Conference on Renewable Energy, Açores – Portugal, April, 2009.

- Portuguese Foundation for Science and Technology (FCT) – (2009 / 2011) Doctoral Fellowship for the Massachusetts Institute of Technology | Portugal Program, Portugal.

EXPERIENCE AS SCIENTIFIC ADVISER

- Supervisor of the PhD Thesis of António Coelho, “Multi-Energy Systems for Sustainable Cities”, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Porto, Porto, Portugal, (ongoing).

- Co-supervisor of the PhD Thesis of Fabian Heymann, “ Spatial Load Forecasting of Electric Vehicle Charging using GIS and Diffusion Theory ”, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Porto, Porto, Portugal, (ongoing).

- Co-supervisor of the PhD Thesis of José Iria, “Enabling Active Demand Response in Smart Grids”, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Porto, Porto, Portugal, (ongoing).

- Co-supervisor of the MSc Thesis of Diogo Soares, “Architecture Optimization of DC Power Supply Systems”, Department of Electrical and Computer Engineering, Faculty of Engineering, University of Porto, Porto, Portugal, (ongoing).

- Supervisor of the ERASMUS + internship at INESC TEC of Sebastien Roersch, from the University of Würzburg, under the topic “Calculate Potential of Solar Power in Portugal with Remote Sensing Data”, 2017.

- Supervisor of the ERASMUS + internship at INESC TEC of Inja Hunjet, from the University of Zagreb, under the topic “Development of an interactive model to support energy policies assessment in Croatia”, 2017.

- Supervisor of the ERASMUS + internship at INESC TEC of Francesco Beghello, from the University of Genova, under the topic “New market models envisaging the exploitation of controllable loads for ancillary services provision”, 2016-2017.

- Co-supervisor of the MSc Thesis of Ana Dionísio, “Development of Demand Side Management Strategies to Support the Operation of Distribution Networks”, Department of Electrical and

EXPERIENCE AS THESIS/PROJECT
EVALUATOR / REVIEWER

Computer Engineering, Faculty of Engineering, University of Porto, Porto, Portugal, 2013.

- Co-supervisor of the MSc Thesis of Pedro Nuno Pereira Barbeiro, "Evaluation of the Impact of Large Scale Integration of Micro-generation Units in Low and Medium Voltage Distribution Networks", Department of Electrical and Computer Engineering, Faculty of Engineering, University of Porto, Porto, Portugal, 2010.
- Evaluator of Horizon 2020 proposals for the Research Executive Agency (REA) of the European Commission.
- Project Evaluator for the Croatian Science Foundation since February 2015.
- Member of the External Jury of the of the PhD Thesis of Miguel Ángel López Pérez, "Analysis and Operation of Smart Grids with Electric Vehicles", supervised by José Antonio Aguado Sánchez and Sebastián de la Torre Fazio under the Doctoral Program in Mechatronic Engineering of the Systems and Automation Engineering Department, Higher Technical School of Industrial Engineering, University of Malaga, April 2014.
- Reviewer for several scientific journals and magazines, such as: IEEE Transactions on Power Systems, IEEE Transactions on Smart Grids, IEEE Transaction on Sustainable Energy, IEEE Signal Processing Magazine, Elsevier Electric Power System Research, Elsevier Robotics and Autonomous Systems, Elsevier Sustainable Energy, Grids and Networks, Elsevier Transportation Research Part A: Policy and Practice, Elsevier International Journal of Electrical Power & Energy Systems, Environmental Engineering and Management Journal, Wiley International Transactions on Electrical Energy Systems, among others.
- Reviewer for several international conferences, such as: PSCC, Powertech, EUROCON, MELECON, ENERGYCON, PEOCO, SMARTGREENS, SmartGridComm, VPPC, EEM, ISAP, among others.