



LUCAS PEREIRA

RESEARCH FELLOW

ITI, LARSyS, Técnico Lisboa

CO-FOUNDER AND MACHINE LEARNING LEAD

BrightCuriosity Lda (prisma.com)

CITIZENSHIP

Portugal

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GOOGLE SCHOLAR

<https://goo.gl/M7Guxq>

EDUCATION

PHD IN COMPUTER SCIENCE - 2016

University of Madeira / Madeira-ITI, Portugal

Thesis: Hardware and Software Platforms for Deploying and Evaluation Non-Intrusive Load Monitoring Systems

Advisor: Nuno Jardim Nunes (University of Madeira / Madeira-ITI), Mario Bergés González (Carnegie Mellon University)

MSC IN COMPUTER SCIENCE - 2011

University of Madeira / Madeira-ITI, Portugal

Thesis: Low Cost Non-Intrusive Home Energy Monitoring

Advisor: Nuno Jardim Nunes (University of Madeira / Madeira-ITI)

ENGINEERING DEGREE IN INFORMATICS - 2007

University of Madeira, Portugal

Thesis: Fox - Visual Business Intelligence for the Web 2.0

Advisors: Pedro Campos (University of Madeira), Duarte Freitas (Anturio Corporation)

PROFESSIONAL EXPERIENCE

RESEARCH FELLOW, APRIL 2019 - ONGOING

ITI, LARSyS, Técnico Lisboa, University of Lisbon

VISITING ASSISTANT PROFESSOR, OCTOBER 2017 - JULY 2019

University of Madeira

POST-DOCTORAL RESEARCHER, JANUARY 2017 - MARCH 2019

Madeira Interactive Technologies Institute

CO-FOUNDER AND DATA SCIENCE LEAD, JUNE 2015 - ONGOING

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INFORMATICS ENGINEER, DECEMBER 2007 - JANUARY 2010

Information Systems and Communications Department
Câmara de Lobos City Hall

HONOURS AND AWARDS

SCIENTIFIC EMPLOYMENT STIMULUS GRANT, 2019 (TOP 12%)

Portuguese Foundation for Science and Technology

BEST ORAL PRESENTATION, 2018

International NILM Workshop 2018

INDIVIDUAL DOCTORAL GRANT, 2011 - 2015

Portuguese Foundation for Science and Technology

RESEARCH GRANTS

FUTURE INDUSTRIAL KITCHEN (FIK), 2018 - 2019

Madeira 14-20 / FEDER, MI420-01-0247-FEDER-000018

<https://futurekitchen.m-iti.org>

SMART ISLAND ENERGY SYSTEMS (SMILE), 2017 - 2021

Horizon 2020, GA 731249

<https://www.h2020smile.eu>

SME INSTRUMENT - PHASE 1, 2015 - 2016

Horizon 2020, SME Instrument

TEACHING EXPERIENCE

COMMUNICATION AND MULTIMEDIA - UNIVERSITY OF MADEIRA, SPRING 2019

Introduction to multimedia tools, content creation and management. Web accessibility and data privacy protection. Course delivered in Portuguese.

PROGRAMMING PARADIGMS - UNIVERSITY OF MADEIRA, FALL 2017

Introductory programming course to the different engineering and mathematics majors at the the University of Madeira. Course delivered in English and Portuguese.

PHD STUDENTS

LUÍSA BARROS (UNIVERSITY OF MADEIRA), 2019/2020 - ONGOING

Thesis: Smart-Charging of Electric Vehicles in Isolated Grids. In co-supervision with Dionisio Barros (University of Madeira)

PHD THESES EXAMINER

SANDY ABREU (ELECTRICAL AND COMPUTER ENGINEERING, UNIVERSITY OF LISBON) PROPOSAL - FEBRUARY 2020

Thesis: Improving Machine Learning Prediction and Forecasting Models Used in Photovoltaic Monitoring Systems

RESEARCH ASSISTANTS

EDUARDO GOMES, JANUARY 2019 - ONGOING

Project: MITIExcell

JOÃO GOIS, DECEMBER 2019 - ONGOING

Project: MITIExcell

ZITA ABREU, AUGUST 2019 - NOVEMBER 2019; AUGUST 2020 - ONGOING

Project: MITIExcell

FÁBIO VASCONCELOS, APRIL 2019 - FEBRUARY 2020

Project: Future Industrial Kitchen and MITIExcell

VITOR AGUIAR, OCTOBER 2018 - SEPTEMBER 2019

Project: Future Industrial Kitchen

MASTER STUDENTS

NUNO VELOSA (UNIVERSITY OF MADEIRA), 2020/2021 - ONGOING

Thesis: Exploring the potential of social agents and distributed ledger technologies for load balancing in community energy systems. In co-supervision with Filipe Quintal (University of Madeira)

MANUEL PEREIRA (UNIVERSITY OF MADEIRA), 2020/2021 - ONGOING

Thesis: Exploring the potential of machine-learning and earth observations data for climate change mitigation. In co-supervision with Filipe Quintal (University of Madeira)

JONATHAN CAVALEIRO (UNIVERSITY OF MADEIRA), 2019/2020 - ONGOING

Thesis: SimSMILE: Platform for Battery Energy Storage System (BESS) Simulation and Integration. In co-supervision with Filipe Quintal (University of Madeira)

DONOVAN COSTA (UNIVERSITY OF MADEIRA), 2017/2018 - ONGOING

Thesis: Collaborative Semi-Automatic Labelling for Non-Intrusive Load Monitoring Datasets. In co-supervision with Filipe Quintal (University of Madeira)

MIKOLAJ KRUTNIK (UNIVERSITY OF LISBON), 2019/2020

Thesis: Energy Services for the Food Industry. In co-supervision with Nuno Nunes (University of Lisbon) and Van Malcolm Yadack (Koena Tech)

DINO VASCONCELOS (UNIVERSITY OF MADEIRA), 2017/2018 - 2019/2020

Thesis: Electric Vehicle Smart Charging. In co-supervision with Dionisio Barros (University of Madeira)

FAYAZ AHMED (UNIVERSITY OF LISBON), 2018/2019

Thesis: Assessing the Value Proposition of Disaggregated Electricity Consumption Data through Real-World Deployments. In co-supervision with Nuno Jardim Nunes (University of Lisbon)

RODOLFO GONÇALVES (UNIVERSITY OF MADEIRA), 2013/2014 - 2014/2015

Thesis: *OpenDataHub: An Open Dataset Management System*. In co-supervision with Nuno Nunes and Filipe Quintal (University of Madeira) | now at blip.pt

MSC THESES EXAMINER

DIOGO CRUZ (INFORMATICS ENGINEERING, UNIVERSITY OF MADEIRA), 2020

Thesis: *User Interfaces and Methods for Visual Search in Images*

BACHELOR STUDENTS

JOÃO PEREIRA (UNIVERSITY OF MADEIRA), 2019/2020

Project: *Perceptions of sustainable development web-platform*.

MANUEL PEREIRA (UNIVERSITY OF MADEIRA), 2018/2019

Project: *dsCleaner: A Python Library to Clean, Preprocess and Convert Non-Intrusive Load Monitoring Datasets*.

NUNO VELOSA (UNIVERSITY OF MADEIRA), 2018/2019

Project: *Multimedia File Format for Data Analytics in Smart Energy Grids*.

MICHAEL CAVALEIRO (UNIVERSITY OF MADEIRA), 2018/2019

Project: *Map My Drive web-platform*

REVIEWING AND EDITING

REVIEWER IN JOURNALS

Nature Scientific Data: 2020

IEEE Access: 2019, 2020

IEEE Transactions on Industrial Informatics: 2019, 2020

IEEE Transactions on Smart Grid: 2020

IEEE Journal of Modern Power Systems and Clean Energy: 2020

Elsevier Advanced Engineering Informatics: 2019

Elsevier Applied Energy: 2019, 2020

Elsevier Energy and Buildings: 2017, 2018, 2019

Elsevier International Journal of Electrical Power and Energy Systems: 2018, 2019, 2020

Elsevier Energy and AI: 2020

Elsevier Sustainable Cities and Society: 2020

ACM Transactions on Intelligent Interactive Systems: 2016, 2020

Wiley International Journal of Energy Research: 2020

MDPI Buildings: 2015

MDPI Energies: 2013, 2014, 2015, 2018, 2019, 2020

MDPI Future Internet: 2018, 2019

MDPI Sensors: 2012, 2018, 2019, 2020

MDPI Sustainability: 2018

MDPI Technologies: 2018

MDPI Urban Science: 2018

MDPI Smart Cities: 2020

REVIEWER IN CONFERENCES

ACM Conference on Designing Interactive Systems - DIS 2020

IEEE International Conference on Artificial Intelligence and Virtual Reality - AIVR 2018, 2019, 2020

IEEE International Conference on Smart Computing - SmartComp 2018, 2019, 2020

IFIP Conference on Sustainable Internet and ICT for Sustainability - SustainIT 2017

IEEE PES Power Africa Conference - PowerAfrica 2017, 2018, 2019

ACM Conference on Computer-Supported Cooperative Work and Social Computing - CSCW 2017, 2018, 2019

ACM Conference on Intelligent User Interfaces - IUI 2015, 2017, 2018, 2019, 2020, 2021

ACM International Conference on Embedded Systems for Energy-Efficient Buildings - BuildSys 2014

ACM CHI Conference on Human Factors in Computing Systems - CHI 2014, 2015

ACM SIGCHI Conference on Mobile Human-Computer Interaction - Mobile HCI 2012, 2013

ACM SIGCHI Symposium on Engineering Interactive Computing Systems - EICS 2014, 2015

ACM SIGCHI Symposium on User Interface Software and Technology - UIST 2014

International Conference on ICT for Sustainability - ICT4S 2014

ACM Nordic Conference on Human-Computer Interaction - NordiCHI 2014

REVIEWER IN WORKSHOPS

International Workshop on Non-Intrusive Load Monitoring - NILM Workshop 2016, 2020
ACM Workshop On Embedded Systems For Energy-Efficient Buildings - BuildSys 2012, 2013

EDITOR IN CONFERENCE PROCEEDINGS

The Fifth IFIP Conference on Sustainable Internet and ICT for Sustainability - 2017

EDITOR IN JOURNALS

Guest Editor: MDPI Energies - Special Issue on Energy Data Analytics for Smart Meter Data
Guest Editor: Wiley Engineering Reports - Selected papers from the 3rd International Conference in Engineering Applications 2019 (ICEA19)
Guest Editor: Wiley Greenhouse Gases: Science and Technology - Special Issue on ICEA-Energy and Sustainability 2019
Guest Editor: Springer Computing - Special Issue on Highlights of ES2DE and IWOB1 2017 - Extended Versions of Selected Best Papers

CONFERENCE ORGANIZATION

VICE-PROGRAM CHAIR:

The Fifth IFIP Conference on Sustainable Internet and ICT for Sustainability - SustainIT 2017

LOCAL ORGANIZING COMMITTEE:

Advances in Computer Entertainment Technology - ACE 2014
IEEE Energy and Sustainability in Small Developing Economies - ES2DE 2017, 2018

TECHNICAL PROGRAM COMMITTEE:

ACM Conference on Designing Interactive Systems - DIS 2020
IEEE International Conference on Artificial Intelligence and Virtual Reality - AIVR 2018, 2019, 2020
ACM Conference on Intelligent User Interfaces - IUI 2017, 2018, 2019, 2020, 2021
IEEE International Conference on Smart Computing - SmartComp 2018, 2019, 2020
International Workshop on Non-Intrusive Load Monitoring - NILM Workshop 2016, 2020

TECHNICAL SESSION CHAIR:

International Workshop on Non-Intrusive Load Monitoring - NILM Workshop 2018
IEEE Energy and Sustainability in Small Developing Economies - ES2DE 2017

PUBLICATIONS

JOURNALS

1. **Pereira, L.**, Cavaleiro, J., Barros, L. (2020) "Economic Assessment of Solar-Powered Residential Battery Energy Storage Systems: The Case of Madeira Island, Portugal" *Applied Sciences*, MDPI, doi: 10.3390/app10207366
2. **Pereira, L.**, Nunes, N. (2020) "An Empirical Exploration of Performance Metrics for Event Detection Algorithms in Non-Intrusive Load Monitoring", *Sustainable Cities and Society*, Elsevier, doi: 10.1016/j.scs.2020.102399
3. Faustine, A., **Pereira, L.**, Klemenjak, C. (2020) "Adaptive Weighted Recurrence Graphs for Appliance Recognition in Non-Intrusive Load Monitoring", *Transactions on Smart Grid, IEEE*, doi: 10.1109/TSG.2020.3010621
4. Faustine, A., **Pereira, L.** (2020) "Multi-label Learning for Appliance Recognition in NILM using Fryze-Current Decomposition and Convolutional Neural Network", *Energies*, MDPI, doi: 10.3390/en13164154
5. Faustine, A., **Pereira, L.** (2020) "Improved Appliance Classification in Non-Intrusive Load Monitoring Using Weighted Recurrence Graph and Convolutional Neural Networks", *Energies*, MDPI, doi: 10.3390/en13133374
6. Câmara, E., **Pereira, L.** (2020) "PB-NILM: PinBall Guided Deep Non-Intrusive Load Monitoring", *Access, IEEE*, doi: 10.1109/ACCESS.2020.2978513
7. Hashmi, Md U., Deka, D., Bušić, A., **Pereira, L.**, Backhaus, S. (2020) "Arbitrage with power factor correction using energy storage", *Transactions on Power Systems, IEEE*, doi: 10.1109/TPWRS.2020.2969978

8. **Pereira, L., Nunes, N. (2019)** “Understanding the practical issues of deploying energy monitoring and eco-feedback technology in the wild: Lesson learned from three long-term deployments.”, *Energy Reports, Elsevier*, doi: 10.1016/j.egy.2019.11.025
9. **Pereira, L. (2019)** “NILMPeds: A Performance Evaluation Dataset for Event Detection Algorithms in Non-Intrusive Load Monitoring”, *Data, MDPI*, doi: 10.3390/data4030127
10. Pereira, M., Velova, N., **Pereira, L. (2019)** “dsCleaner: A Python Library to Clean, Preprocess and Convert Non-Intrusive Load Monitoring Datasets”, *Data, MDPI*, doi: 10.3390/data4030123
11. Torabi, R., Rodrigues, S., Cafôfo, N., **Pereira, L.**, Quintal, F., Nunes, N., Morgado-Dias, F. **(2018)** “A global monitoring system for electricity consumption and production of household roof-top PV systems in Madeira”, *Neural Computing and Applications, Springer*, doi: 10.1007/s00521-018-3832-3
12. Baptista, D., Shanawaz Mostafa, S., **Pereira, L.**, Sousa, L., Morgado-Dias, F. **(2018)** “Implementation Strategy of Convolution Neural Networks on Field Programmable Gate Arrays for Appliance Classification Using the Voltage and Current (V-I) Trajectory”, *Energies, MDPI*, doi: 10.3390/en11092460
13. **Pereira, L.**, Nunes, N. **(2018)** “Performance Evaluation in Non-Intrusive Load Monitoring: datasets, metrics and tools - a review”, *WIREs Data Mining and Knowledge Discovery, John Wiley & Sons*, doi: 10.1002/widm.1265
14. Scott, M., **Pereira, L.**, Oakley, I. **(2014)** “Show Me or Tell Me: Designing Avatars for Feedback”, *Interacting with Computers, Oxford Academic*, doi: 10.1093/iwc/iwu008
15. Barreto, M., Szóstek, A., Karapanos, E., Nunes, N. J., **Pereira, L.**, Quintal, F. **(2014)** “Understanding Families’ Motivations for Sustainable Behaviors”, *Computers in Human Behavior, Elsevier*, doi: 10.1016/j.chb.2014.07.042

CONFERENCES

16. Barros, L., Barreto, M., **Pereira, L. (2020)** “Understanding the challenges behind Electric Vehicle usage by drivers - a case study in the Madeira Autonomous Region” in *Proceedings of the International Conference of ICT for Sustainability 2020, ICT4S '20*
17. Hashmi, Md U., Cavaleiro, J., **Pereira, L.**, Bušić, A. **(2020)** “Sizing and Profitability of Energy Storage for Prosumers in Madeira, Portugal” in *Proceedings of the Eleventh Conference on Innovative Smart Grid Technologies, ISGT '20*
18. Hashmi, Md U., Deka, D., Bušić, A., **Pereira, L.**, Backhaus, S. **(2019)** “Co-optimizing Energy Storage for Prosumers Using Convex Relaxations”, in *Proceedings of the 20th International Conference on Intelligent Systems Applications to Power Systems, ISAP '19*
19. Klemenjak, C., Reinhardt, A., **Pereira, L.**, Berges, M., Makonin, S., Elmenreich, W. **(2019)** “Electricity Consumption Data Sets: Pitfalls and Opportunities”, in *Proceedings of the 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation, BuildSys '19* [notes paper]
20. **Pereira, L.**, Cavaleiro, J. **(2019)** “On the Value Proposition of Battery Energy Storage in Self-Consumption Only Scenarios: A Case-Study in Madeira Island”, in *Proceedings of the IEEE 45th Annual Conference of the Industrial Electronics Society, IECON '19*
21. Barreto, M., **Pereira, L.**, Quintal, F. **(2019)** “The Acceptance of Energy Monitoring Technologies – The Case of Local Prosumers”, in *Proceedings of the International Conference of ICT for Sustainability 2019, ICT4S '19*
22. Hashmi, Md U., **Pereira, L.**, Bušić, A. **(2019)**, “Energy Storage in Madeira, Portugal: Co-optimizing for Arbitrage, Self-Sufficiency, Peak Shaving and Energy Backup”, in *Proceedings of the 13th IEEE PowerTech 2019, PowerTech '19*

23. **Pereira, L.**, Gonçalves, R., Quintal, F., Nunes, N.J. (2018) "Data Storage and Maintenance Challenges: The Case of Advanced Metering Infrastructure Systems", in *Proceedings of the International Conference of ICT for Sustainability 2018, ICT4S '18*
24. **Pereira, L.**, Ribeiro, M., Nunes, N.J. (2017) "Engineering and Deploying a Hardware and Software Platform to Collect and Label Non-Intrusive Load Monitoring Datasets", in *Proceedings of the Fifth IFIP International Conference on Sustainable Internet and ICT for Sustainability, SustainIT '17*
25. **Pereira, L.** (2017) "Developing and Evaluating a Probabilistic Event Detector for Non-Intrusive Load Monitoring", in *Proceedings of the Fifth IFIP International Conference on Sustainable Internet and ICT for Sustainability, SustainIT '17*
26. **Pereira, L.**, and Nunes, N.J. (2017) "A Comparison of Performance Metrics for Event Classification in Non-Intrusive Load Monitoring", In *Proceedings of the IEEE International Conference on Smart Grid Communications, SmartGridComm '17*
27. Quintal, F., **Pereira, L.**, Nunes, N.J. and Nisi, V. (2015) "What-a-Watt: Exploring Electricity Production Literacy Through a Long Term Eco-Feedback Study", In *Proceedings of the Fourth IFIP Conference on Sustainable Internet and ICT for Sustainability, SustainIT '15*, [short paper]
28. **Pereira, L.**, Quintal, F., Gonçalves, R. and Nunes, N.J. (2014) "SustData: A Public Dataset for ICT4S Electric Energy Research," In *Proceedings of the International Conference of ICT for Sustainability 2014, ICT4S '14*
29. Quintal, F., **Pereira, L.**, Nunes, N.J., Nisi, V. and Barreto, M. (2013) "WATTSBurning: Design and Evaluation of an Innovative Eco-feedback System" In *Proceedings of the IFIP TC13 Conference on Human-Computer Interaction, INTERACT '13*
30. Quintal, F., Barreto, M., Nunes, N.J., Nisi, V. and **Pereira, L.** (2013) "WattsBurning on my Mailbox: A Tangible Art Inspired Eco-feedback Visualisation for Sharing Energy Consumption" In *Proceedings of the IFIP TC13 Conference on Human-Computer Interaction, INTERACT '13* [short paper]
31. **Pereira, L.**, Quintal, F., Barreto, M. and Nunes, N.J. (2013) "Understanding the Limitations of Eco-feedback: A One Year Long-term study" In *Proceedings of the ACM / IEEE Conference on Human Factors in Computing & Informatics, SouthCHI '13*
32. **Pereira, L.**, Quintal, F., Nunes, N.J. and Berges, M. (2012) "The Design of a Hardware-software Platform for Long-term Energy Eco-feedback Research" In *Proceedings of the ACM SIGCHI Symposium on Engineering Interactive Computing Systems, EICS '12*
33. **Pereira, L.** and Nunes, N.J. (2012) "Low Cost Framework for Non-Intrusive Energy Monitoring and Research" In *Proceedings of the International Conference on Smart Grids and Green IT Systems, SmartGreens '12* [short paper]
34. Nunes, N.J., **Pereira, L.**, Quintal, F. and Bergés, M. (2011) "Deploying and Evaluating the Effectiveness of Energy Eco-feedback Through a Low Cost NILM Solution" In *Proceedings of the International Conference on Persuasive Technology, Persuasive '11*
35. Campos, P., Sousa, F., **Pereira, L.**, Perestrelo, C. and Freitas, D. (2007) "Cross-Media User Interfaces for Controlling the Enterprise - The EAGLE Integrated System" In *Proceedings of the International Conference on Enterprise Information Systems, ICEIS '07* [short paper]

WORKSHOPS

36. Gois, J., Klemenjak, C., **Pereira, L.** (2020) "On the Relationship between Seasons of the Year and Disaggregation Performance", In *Proceedings of the 5th International Workshop on Non-Intrusive Load Monitoring, NILM '20*
37. Faustine, A., **Pereira, L.**, Bousbiat, H., Kulkarni, S. (2020) "UNet-NILM: A Deep Neural Network for Multi-tasks Appliances State Detection and Power Estimation in NILM", In *Proceedings of the 5th International Workshop on Non-Intrusive Load Monitoring, NILM '20*

38. Hashmi, Md U., Deka, D., **Pereira, L.**, Bušić, A. (2020) "Energy Storage Optimization for Grid Reliability", In *e-Energy '20: Proceedings of the Eleventh ACM International Conference on Future Energy Systems, Energy Storage' 20*
39. **Pereira, L.**, Nunes, J.N. (2018) "Comparison of Performance Metrics for Event Detection Algorithms in NILM", In *Proceedings of the 4th International Workshop on Non-Intrusive Load Monitoring, NILM '19*
40. Nunes, N.J., **Pereira, L.** and Nisi, V. (2015) "Towards using Low-Cost Opportunistic Energy Sensing for Promoting Energy Conservation" In *Proceedings of the Fostering Smart Energy Applications Workshop, FSEA '15* [position paper]

EXTENDED ABSTRACTS, POSTER AND DEMO ABSTRACTS

41. **Pereira, L.**, Aguiar, V., Vasconcelos, F. (2019) "Future Industrial Kitchen: Challenges and Opportunities", in *Proceedings of the 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation, BuildSys '19* [abstract paper]
42. Vasconcelos, F., Aguiar, V., **Pereira, L.**, (2019) "Ultrasonic Waste Monitoring in the Future Industrial Kitchen", in *Proceedings of the 17th ACM Conference on Embedded Networked Sensor Systems, SenSys '19* [poster]
43. **Pereira, L.** (2019) "A Mouse (H)Over a Hotspot Survey: An Exploration of Patterns of Hesitation through Cursor Movement Metrics", *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems, CHI 2019* [poster]
44. Quintal, F., Scuri, S., Barreto, S., **Pereira, L.**, Vasconcelos, D., Pestana, D. (2019) "", *Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems, CHI 2019* [poster]
45. Barros, L., **Pereira, L.**, and Pyakurel, P. (2018) "On the Challenges of Charging Electric Vehicles in Domestic Environments", *Proceedings of the 9th International Conference on Future Energy Systems, e-Energy '18* [poster]
46. **Pereira, L.**, Chisik, Y. (2017) "A Mouse over a Hotspot Survey: An exploration of perceptions of electricity consumption and patterns of indecision", in *Proceedings of the Fifth IFIP International Conference on Sustainable Internet and ICT for Sustainability, SustainIT '17*, [work-in-progress]
47. **Pereira, L.** (2017) "EMD-DF: A Data Model and File Format for Energy Disaggregation Datasets", In *Proceedings of the ACM International Conference on Systems for Energy-Efficient Built Environments, BuildSys '17* [poster]
48. Ribeiro, M., **Pereira, L.**, Quintal, F. and Nunes, N.J. (2016) "SustDataED: A Public Dataset for Electric Energy Disaggregation Research", In *Proceedings of ICT for Sustainability 2016, ICT4S '16* [poster]
49. **Pereira, L.** and Nunes, N.J. (2015) "Towards Systematic Performance Evaluation of Non-Intrusive Load Monitoring Algorithms and Systems" In *Proceedings of the Fourth IFIP Conference on Sustainable Internet and ICT for Sustainability, SustainIT '15* [doctoral consortium]
50. **Pereira, L.** and Nunes, N.J. (2015) "Semi-automatic labeling for Non-Intrusive Load Monitoring Datasets" In *Proceedings of the Fourth IFIP Conference on Sustainable Internet and ICT for Sustainability, SustainIT '15* [poster]
51. Quintal, F., **Pereira, L.**, Jorge, C. and Nunes, N.J. (2015) "EnerSpectrum: Exposing the source of energy through plug-level eco-feedback" In *Proceedings of the Fourth IFIP Conference on Sustainable Internet and ICT for Sustainability, SustainIT '15* [poster]
52. **Pereira, L.**, Nunes, N. and Bergés, M. (2014) "SURF and SURF-PI: A File Format and API for Non-Intrusive Load Monitoring Public Datasets" In *Proceedings of the 5th International Conference on Future Energy Systems, e-Energy '14* [poster]

53. Quintal, F., **Pereira, L.**, Nunes, N. and Nivi, V. (2014) "What a watt: Where does my electricity comes from?", In *Adjunct Proceedings of the International Working Conference on Advanced Visual Interfaces, AVI '14* [demo]
54. **Pereira, L.** (2013) "Towards Automating the Performance Evaluation of Non-Intrusive Load Monitoring Systems" In *Proceedings of the International Conference on ICT for Sustainability, ICT4S '13* [doctoral consortium]
55. Quintal, F., Nisi, V., Nunes, N.J., Barreto, M. and **Pereira, L.** (2012) "HomeTree - An Art Inspired Mobile Eco-feedback Visualization" In *Proceedings of the International Conference on Advances In Computer Entertainment Technology, ACE '12* [demo]
56. Gouveia, L., **Pereira, L.**, Scott, M. and Oakley, I. (2012) "Eco-Avatars: Visualizing Disaggregate Home Energy Usage" In *ACM Conference of Designing Interactive Systems, DIS '12* [demo]
57. Quintal, F., **Pereira, L.** and Nunes, N.J. (2012) "A Long-term Study of Energy Eco-feedback Using Non-Intrusive Load Monitoring" In *Proceedings of the International Conference on Persuasive Technology, Persuasive '12* [poster]

SELECTED TALKS

1. "SoCoL: Semi-automatic Collaborative Labelling for NILM datasets" (2018), European Non-Intrusive Load Monitoring Workshop, Duisburg, Germany

MEMBERSHIPS AND AFFILIATIONS

MEMBERSHIPS

Ordem dos Engenheiros de Portugal (Portuguese Order of Engineers)	[2011 - present]
IEEE	[2011 - present]
ACM	[2017 - present]