

CURRICULUM VITAE

Catarina Maria da Cunha de Eça Calhau Rolim

July, 2017

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1 Personal information

Name: Catarina Maria da Cunha de Eça Calhau Rolim

Nationality: Portuguese

E-Mail: rolim.catarina@tecnico.ulisboa.pt

Date of birth: November 3 1981

Gender: Female

1.1 Academic degrees

Date: 01/07/2011 – 19/02/2016

Degree: Ph.D. in Sustainable Energy Systems – Pass with Distinction

Field of Study:

- Ph.D. Thesis : “Impacts of adopting on board ICT and training on driving behaviour, safety, energy and environment: application to light duty vehicles and buses
- Skills: Driving behavior analysis, assessing the impacts of on-board monitoring devices, feedback and training on adoption of more efficient driving behaviors. Analysis on consequent impacts on energy consumption, pollutants emissions both for light and heavy-duty vehicles.

Supervisors: Prof. Tiago Farias and Dr. Patrícia Baptista (IDMEC- Instituto Superior Técnico, Technical University of Lisbon, Portugal).

Institution providing academic degree: MIT Portugal - Instituto Superior Técnico (Technical University of Lisbon), Av. Rovisco Pais 1, 1049-001 Lisboa (Portugal)

Date: 01/09/2010 – 30/06/2011

Degree: Advanced Specialization Diploma in Sustainable Energy Systems

Field of Study:

- Curricular units: Introduction to Engineering; Introduction to Economics; Energy in Transports; Economics Natural Resources and Environment; Energy, Environment and Sustainability, Renewable Energy Sources, Energy and Atmosphere, Project Evaluation and Externalities, Seminar I and II

Institution providing academic degree: MIT Portugal - Instituto Superior Técnico (Technical University of Lisbon), Av. Rovisco Pais 1, 1049-001 Lisboa (Portugal)

Level in national or international classification: 15/20

Date: 01/09/1999 – 30/10/2004

Degree: Bachelor's in Psychology, Educational field

Field of Study:

- Final Thesis: Parents Perception of their parental involvement in their children's education: impacts of gender and children's educational level. (Final thesis level: 18/20)
- Internship: October 2003 –July 2004 at Centro de Estudo e Apoio à Criança e à Família, working in an Early Intervention Team (children between 0-6 years), providing early intervention services to children with disabilities and/or in social risk and their families (Final internship grade: 16/20).

Institution providing academic degree: Instituto Superior de Psicologia Aplicada – ISPA (<http://www.ispa.pt/>), Rua Jardim do Tabaco, 1149-041 Lisboa (Portugal)

Level in national or international classification: 15/20

1.2 Professional experience

Date: 24/08/2016 – present

Occupation or position held: Post-Doctoral researcher scholarship at In+ Center for Innovation, Technology and Policy

Main activities: Research activities related with citizens' engagement in the promotion of sustainable cities solutions, mainly related with urban mobility, building retrofit measures, energy management systems, among others. Development of research activities on Demand Response Programs at a residential level, assessing peoples' willingness to adopt such programs and the impacts of their adoption in energy consumption and; assessment of consumers' perceptions and preferences related with energy efficiency improvements, incentive policies, new business models.

Name and address of employer: University of Lisbon, Instituto Superior Técnico, Av. Rovisco Pais, 1 1049-001 Lisboa (Portugal).

Date: 01/01/2016 – 30/04/2016

Occupation or position held: Researcher scholarship at the Mechanical Engineering Institute, Portugal

Main activities: Development of research activities in sustainable mobility, particularly in the development of an urban mobility platform, considering the use of ICT in the transportation context.

Name and address of employer: Instituto de Engenharia Mecânica – Pólo IST (<http://www.idmec.ist.utl.pt/>), Instituto Superior Técnico, Av. Rovisco Pais, 1 - Pav. de Mecânica I, 2º andar, 1049-001 Lisboa (Portugal).

Date: 01/01/2012 – 31/12/2015

Occupation or position held: Fundação para a Ciência e Tecnologia Doctoral Fellow and DTEA – IDMEC doctoral student (<http://dtea.ist.utl.pt/>)

Main activities: Development of Ph.D. program and participation in several research projects

Name and address of employer: DTEA - Transports, Energy and Environment (<http://dtea.ist.utl.pt/>), Instituto de Engenharia Mecânica – Pólo IST (<http://www.idmec.ist.utl.pt/>), Instituto Superior Técnico, Av. Rovisco Pais, 1 - Pav. de Mecânica I, 2º andar, 1049-001 Lisboa (Portugal)

Date: April 2009-December 2011

Occupation or position held: Researcher scholarship at the Mechanical Engineering Institute (IDMEC).

Main activities: Research in travel behaviour, in particular driving behaviour, using devices such as in-vehicle monitor assistants (e.g. CarChip Pro), and eco-driving information/training sessions, surveys, to promote behavioural changes assessing the impacts of these changes in energy consumption, pollutants emissions and safety performance.

Name and address of employer: DTEA - Transports, Energy and Environment (<http://dtea.ist.utl.pt/>), Instituto de Engenharia Mecânica – Pólo IST (<http://www.idmec.ist.utl.pt/>), Instituto Superior Técnico, Av. Rovisco Pais, 1 - Pav. de Mecânica I, 2º andar, 1049-001 Lisboa (Portugal).

Date: September 2008 – March 2009

Occupation or position held: Science and technology management scholarship at the Mechanical Engineering Institute (IDMEC).

Main activities: Support on project reports elaboration and planning of project dissemination events. Elaboration of surveys: people's perception and acknowledgment of new transports technologies (Hybrid, Plug-In and Electric vehicles); and evaluation and assessment of people's mobility and accessibility to pharmacies.

Name and address of employer: DTEA - Transports, Energy and Environment (<http://dtea.ist.utl.pt/>), Instituto de Engenharia Mecânica – Pólo IST (<http://www.idmec.ist.utl.pt/>), Instituto Superior Técnico, Av. Rovisco Pais, 1 - Pav. de Mecânica I, 2º andar, 1049-001 Lisboa (Portugal)

Date: January 2005 - December 2010

Occupation or position held: Translator

Main activities: Translation and documents revision, mainly from Spanish and English to Portuguese. Works include the collections: Lonely Planet Guides, Museums of the World, Human Body Atlas, History of Art, Management Leaders, Once upon a time... series, Great Philosophers, Deutsche Grammophon DVD Collection; Book of Psychology for all, among others.

Name and address of employer: João Quina Edições Soc. Unip. Lda (<http://www.joaquina.com/joaquina.html>), Av. da República, nº6 – 7ºEsq, 1050-191 Lisboa (Portugal)

Date: September 2007 – June 2008

Occupation or position held: Elementary English teacher

Main activities: Basics of English concepts to elementary school children (ages 6 to 10)

Name and address of employer: Espalha Ideias (<http://www.espalhaideias.pt/>), ANJE – Associação Nacional de Jovens Empresários, Rua António Luís Gomes, nº 14, 1495-120 Algés

Date: September 2006 – June 2007

Occupation or position held: Home tutoring

Main activities: Elementary and High School home tutoring services, providing students with productive learning skills.

Date: November 2006 – June 2007

Occupation or position held: Volunteer

Main activities: participation in the Project “Integrar e Promover”, that consisted in the creation of a support network for people in a dependent situation and collaboration in the project’s dissemination event.

Name and address of employer: FAÚMA – Associação de Amigos e Familiares dos Utentes Hospital Júlio de Matos

Date: March 2005 – December 2005

Occupation or position held: Part-time sales assistant

Main activities: Serving and advising costumers on the products sold at the shop.

Name and address of employer: Montado Alentejano

Date: 2002

Occupation or position held: Volunteer

Main activities: Participation in activities with children at Hospital Dona Estefânia

1.3 Grants

1. Post-Doctoral research grant from In+ Center for Innovation, Technology and Policy, Instituto Superior Técnico, University of Lisbon, from August 2016 to present.
2. Portuguese National Science Foundation Ph.D. scholarship reference SFRH/BD/80500/2011, January 2011 to December 2015.
3. Researcher scholarship at IDMEC, April 2009 to December 2010.
4. Science and technology management scholarship in the HyFleet:Cute Project, September 2008 to March 2009.

1.4 Personal skills and competences

Social skills:

- Good team working skills gained through academic and professional experience
- Good communication skills gained through participation in national and international conferences and teaching experiences
- Good adaptation to new work environments and new study fields

Languages:

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	C 2	Proficient user	C 2	Proficient user	C2	Proficient user	C 2	Proficient user	C 2	Proficient user
Spanish	C 1	Proficient user	C 1	Proficient user	B1	Independent user	B 1	Independent user	B 1	Independent user

Common European Framework of Reference (CEF) level

Certificates:

- Certificate in Advanced English (CAE) of the Level 2 Certificate in English (ESOL) Grade B (2008). reading: excellent, writing: excellent; speaking: excellent.
- Spanish Basic Level 1 at Instituto Cervantes, Lisbon - 9 values in 10 (sobresaliente)
- Spanish Basic Level 2 at Instituto Cervantes, Lisbon; -8 values in 10 (notable)
- Certificate of Pedagogical Aptitude (CAP) - 2011

Computer skills:

- Good command of Microsoft Office tools (Word, Excel, PowerPoint)
- Knowledge of IBM SPSS Software

Other skills:

- Workshop “Drivers psychological assessment- Avaliação Psicológica de Condutores”, promoted by the Departamento de Formação Permanente, Instituto Superior de Psicologia Aplicada (ISPA), June 2012.
- Sustainable Accessibility and Mobility course, promoted by Liga para a Protecção da Natureza, 2009
- Adobe InDesign CS2 software course promoted by Pós Gráficos; 2006
- Wall Street Institute English course, 2005.
- Driving licence(s): B

Scientific research

1.5 Scientific publications

1.5.1 *Articles in international journals*

1. Catarina Rolim, Patrícia Baptista, Gonçalo Duarte, Tiago Farias, João Pereira. Impacts of real-time feedback on driving behavior: a case-study of bus passenger drivers. *European Journal of Technology and Infrastructure*, Issue 17(3), May 2017, Pages 346-359.
2. Catarina Rolim, Patrícia Baptista, Gonçalo Duarte, Tiago Farias João Pereira, Real-time feedback impacts on eco-driving behaviour and influential variables in fuel consumption in a Lisbon urban bus operator. *IEEE Intelligent Transportation Systems Transactions*, Issue 99, March 2017, Pages 1-11.
3. Catarina Rolim, Patrícia Baptista, Gonçalo Duarte, Tiago Farias, João Pereira, Impacts of delayed feedback on eco-driving behavior and resulting environmental performance changes. *Transportation Research Part F – Traffic Psychology and Behavior*, Volume 43, October 2016, Pages 366-378
4. Gonçalo Duarte, Catarina Rolim, Patrícia Baptista, How battery electric vehicles can contribute to sustainable urban logistics: a real world application in Lisbon, Portugal. *Sustainable Energy Technologies and Assessments*, Volume 15, June 2016, Pages 71–78.
5. Patricia Baptista, André Pina, Gonçalo Duarte, Catarina Rolim, Gonçalo Pereira, Carlos Silva, Tiago Farias, From on-road trial evaluation of electric and conventional bicycles to comparison with others urban transport modes: case study in the city of Lisbon, Portugal, *Energy Conversion and Management*, Volume 92, 1 March 2015, Pages 10–18.
6. Rolim C., Baptista, P. Farias, T and Rodrigues, Ó. (2014). Electric vehicle adopters in Lisbon: motivation, utilization patterns and environmental impacts. *European Journal of Transport and Infrastructure Research*, 14 (3), 229-243, 2014.
7. C. Rolim, P. Baptista, G. Duarte, T. Farias, Y. Shifan. Quantification of the impacts of ecodriving training and real-time feedback on urban buses drivers' behavior: a Lisbon case study, *Transportation Research Procedia*, Volume 3, 2014, Pages 70–79
8. Patrícia Baptista, Sandra Melo, Catarina Rolim, Energy, Environmental and Mobility Impacts of Car-sharing Systems. Empirical Results from Lisbon, Portugal, *Procedia - Social and Behavioral Sciences*, Volume 111, 5 February 2014, Pages 28-37
9. Catarina C. Rolim, Patricia C. Baptista, Gonçalo O. Duarte, Tiago L. Farias, Impacts of On-board Devices and Training on Light Duty Vehicle Driving Behavior, *Procedia - Social and Behavioral Sciences*, Volume 111, 5 February 2014, Pages 711-720.
10. Patrícia Baptista, Catarina Rolim, Carla Silva, Plug-In Vehicle Acceptance and Probable Utilization Behaviour, *Journal of Transportation Technologies*, Vol. 2 No. 1, 2012, pp. 67-74.
11. Rolim, C., Gonçalves, G., Farias, T., Rodrigues, O. (2012). Impacts of electric vehicle adoption on driver behavior and environmental performance. *Procedia - Social and Behavioral Sciences*, Volume 54, 4 October 2012, Pages 706-715.

1.5.2 *Articles submitted to international journals*

1. Catarina Rolim and Patrícia Baptista. Comparing drivers' self-perception on driving behaviour changes with real world driving performance data. Submitted to *Travel Behaviour and Society*

2. M. Faria, C. Rolim, G. Duarte, T. Farias, P. Baptista. Assessing energy consumption impacts of traffic shifts based on real-world driving data. Submitted to Transportation Research Part D: Transport and Environment.
3. Catarina Rolim, Patrícia Baptista, Tiago Farias, João Pereira. An analysis on the influence of demographic variables on safety and environmental driving indicators: a case-study in Portugal. Submitted for publication at Accident Analysis and Prevention, September 2016.

1.5.3 *International book chapters*

1. Cecília Rocha, Sandra Melo, Catarina Rolim, Patrícia Baptista, Adoption of electric vehicles and impacts on noise, energy consumption and air pollution – a review from Portugal, Cost Action “NVH Analysis Techniques for Design and Optimization of Hybrid and Electric Vehicles” Book, Nuria Campillo-Davo and Ahmed Rassili (eds.), Shaker Verlag, 2016, Chapter 1, Annex 1B, pp 19-30.
2. Patrícia Baptista, Sandra Melo, Catarina Rolim, Car sharing systems as a sustainable transport policy: a case study from Lisbon, Portugal, Sustainable Urban Transport Book, Emerald, May 2015, pp205-227.

1.5.4 *Other publications*

1. Patrícia Baptista, Gonçalo Duarte, Catarina Rolim, Samuel Granadeiro State of Practice of Electric Vehicles and Charging Solutions, Internal Report within the PRIO.E – IDMEC/IST Partnership, May 2014.
2. Patrícia Baptista, Catarina Rolim, Marta Faria, State of Practice of Bike-sharing, Internal Report within the PRIO.E – IDMEC/IST Partnership, November 2012.

1.5.5 *Conference papers*

1. Diana Neves, Catarina Rolim, André Pina, Carlos A. Silva. Addressing the gap between individual and system wide demand response programs. 9th International Conference on Energy Efficiency in Domestic Appliances and Lighting – EEDAL, Irvine, California, USA, 13-15 September, 2017.
2. Catarina Rolim, Cátia Sousa, André Pina. Consumer insights on energy efficiency retrofit measures and business models. ISIE-ISSST 2017: Science in Support of Sustainable and Resilient Communities, Chicago, USA, 25-29 June, 2017.
3. Catarina Rolim, Joana Ribeiro, Renata Lajas, André Pina, Carlos Silva. Understanding citizens’ engagement and practices on sustainable mobility and energy efficiency in the deployment of smart cities infrastructures. Proceedings of Energy for Sustainability International Conference 2017. Designing Cities & Communities for the Future, Funchal, 8-10 February, 2017
4. Catarina Rolim, Gonçalo Duarte, Patricia Baptista, Tiago Farias, João Pereira, Impacts of real-time feedback on driving behavior: a case-study of bus passenger drivers, 14th International Conference on Travel Behaviour Research (IATBR), London, 19 July 2015 – 23 July 2015.
5. Mário Martins, Catarina Rolim, Patrícia Baptista and André Pina, Towards the electrification of the transportation sector: energy and environmental impacts in Portugal and Belgium, Energy for Sustainability 2015 - Sustainable Cities: Designing for People and the Planet, Coimbra, 14-15 May, 2015.

6. Gonçalo Duarte, Catarina Rolim, Patrícia Baptista, Real world application of EV in urban logistics: case study in Lisbon, Portugal, City Logistics and Sustainable Freight Transport Workshop, April 16-17, 2015.
7. P. Baptista, G. Duarte, G. Gonçalves, C. Rolim, ICT for mobility patterns and driver behaviour characterization: trial case-study in the city of Lisbon, Portugal, VPPC 2014 - IEEE Vehicle Power and Propulsion Conference, October 27-30, 2014.
8. C. Rolim, P. Baptista, G. Duarte, T. Farias, Y. Shiftan, Quantification of the impacts of eco-driving training and real-time feedback on urban buses drivers' behaviour: a Lisbon case study, Portugal, 17th Meeting of the European Working Group on Transportation, Seville, Spain, 2-4 July 2014.
9. C. Rolim, P. Baptista, O. Rodrigues, T. Farias, Lisbon's EV adopters: motivation, utilization patterns and environmental impacts, Proceedings of the EVS-27 - The 27th World Battery, Hybrid and Fuel Cell Electric Vehicle Symposium & Exhibition, Barcelona, Spain, Nov. 17-20, 2013.
10. C. Rolim, P. Baptista, G. Duarte, T. Farias, Impacts of on-board devices and training on Light Duty Vehicle Driving Behavior, 16th Meeting of the European Working Group on Transportation, Porto, 4-6 September 2013.
11. P. Baptista, S. Melo, C. Rolim, Energy, environmental and mobility impacts of car-sharing systems. Empirical results from Lisbon, Portugal, 16th Meeting of the European Working Group on Transportation, Porto, 4-6 September 2013.
12. Rolim, C., Gonçalves, G., Farias, T., Rodrigues, O. (2012). Impacts of electric vehicle adoption on driver behavior and environmental performance, 15th edition of the Euro Working Group on Transportation, Paris, 10-13 September, 2012.
13. Rolim, C. C., Shiftan, S., Farias, T. L., Impacts of Driving Behaviour on Environmental and Safety Performance, XVI Pan-American Conference of Traffic and Transportation Engineering and Logistics, 15-18 July 2010, Lisbon, Portugal.

1.5.6 *Conference presentations*

1. Diana Neves, Catarina Rolim, André Pina, Carlos A. Silva, Addressing the gap between individual and system wide demand response programs. Accepted for presentation at 9th International Conference on Energy Efficiency in Domestic Appliances and Lighting – EEDAL'17, Irvine, CA, USA, September 2017.
2. Catarina Rolim, Joana Ribeiro, Renata Lajas, André Pina, Carlos Silva, Understanding citizens' engagement and practices on sustainable mobility and energy efficiency in the deployment of smart cities infrastructures. Presentation at Energy for Sustainability International Conference 2017. Designing Cities & Communities for the Future, Funchal, 8-10 February, 2017
3. Catarina Rolim and Patrícia Baptista, Comparing driver self-evaluation with real world driving performance: an analysis of the influence of driver feedback, accepted for presentation at BEHAVE 2016 - 4th European Conference on Behaviour and Energy Efficiency, Coimbra, 8-9 September 2016.
4. Cecília Rocha, Catarina Rolim, Sandra Melo and Patrícia Baptista, Adoption of electric vehicles and impacts on noise, energy consumption and air pollution – a review from Portugal, ECOST-Meeting TUI 1105, Final Action Conference and MC meeting, Universidad Miguel Hernandez, Elche, Spain, April 6-7, 2016.
5. Catarina Rolim, Impacts of adopting on board ICT and training on driving behavior, safety, energy and environment: application to light duty vehicles and buses, 13º Encontro do Grupo de Estudos em Transportes, 4-5 January, Figueira da Foz, Portugal.

6. Mário Martins, Catarina Rolim, Patrícia Baptista and André Pina, Towards the electrification of the transportation sector: energy and environmental impacts in Portugal and Belgium, Energy for Sustainability 2015 - Sustainable Cities: Designing for People and the Planet, Coimbra, 14-15 May, 2015.
7. Gonçalo Duarte, Catarina Rolim, Patrícia Baptista, Real world application of EV in urban logistics: case study in Lisbon, Portugal, City Logistics and Sustainable Freight Transport Workshop, April 16-17, 2015.
8. P. Baptista, G. Duarte, G. Gonçalves, C. Rolim, ICT for mobility pattern and driver behaviour characterization: trial case-study in the city of Lisbon, Portugal, VPPC 2014 - IEEE Vehicle Power and Propulsion Conference, October 27-30, 2014.
9. G. Duarte, C. Rolim, P. Baptista, Research in energy in transports: from large scale mobility pattern and driver behavior characterization to alternative vehicle technologies, Energy at IST Conference, 12th September 2014.
10. Tiago L. Farias, Patrícia C. Baptista, Gonçalo N. Gonçalves, Catarina Rolim, Gonçalo Duarte, Miguel Aires, ICTs as a means to reach better mobility efficiency: the i2Dd (intelligence to drive) project, XI Congresso Nacional “Os Transportes, a Energia e o Ambiente”, ADFERSIT, 17th and 18th October 2013, Estoril, Portugal.
11. C. Rolim, P. Baptista, G. Duarte, T. Farias, Y. Shiftan, Quantification of the impacts of eco-driving training and real-time feedback on urban buses drivers’ behaviour: a Lisbon case study, Portugal, 17th Meeting of the European Working Group on Transportation, Seville, Spain, 2-4 July 2014.
12. P. Baptista, S. Melo, C. Rolim, Energy, environmental and mobility impacts of car-sharing systems. Empirical results from Lisbon, Portugal, 16th Meeting of the European Working Group on Transportation, Porto, 4-6 September 2013.
13. Patrícia Baptista, Gonçalo Duarte, Magno Mendes, Catarina Rolim, Tiago Farias, Scenarios for electric bicycle use: from on-road monitoring to possible impacts of large introduction, NECTAR Conference on Dynamics of Global and Local Networks, São Miguel Island, Azores (Portugal), 16-18 June 2013.
14. Catarina Rolim, Patrícia Baptista, Gonçalo Duarte, Tiago Farias, Yoram Shiftan, Impacts of on-board devices and training in urban passengers bus drivers – application to a case study, NECTAR Conference on Dynamics of Global and Local Networks, São Miguel Island, Azores (Portugal), 16-18 June 2013.
15. Rolim, C., Gonçalves, G., Farias, T., Rodrigues, O. (2012). Impacts of electric vehicle adoption on driver behavior and environmental performance, 15th edition of the Euro Working Group on Transportation, Paris, 10-13 September, 2012.
16. Melo, S., Rolim, C., Evaluating the effects of a car sharing system for freight transport users, submitted to the Smart Networks - Smooth Transport - Smiling People, NECTAR 2011 Conference, 18-20 May de 2011, Antwerp, Belgium.
17. Catarina Rolim, Tiago Farias, Gonçalo Gonçalves, Evaluation of the Impacts of New Generation Vehicles on Driving Behaviour and effects on Environmental and Safety Performance, 8º Encontro do Grupo de Estudos em Transportes, January 2011.
18. Rolim, C. C., Shiftan, S., Farias, T. L., Impacts of Driving Behaviour on Environmental and Safety Performance, accepted to the XVI Pan-American Conference of Traffic and Transportation Engineering and Logistics, 15-18 July 2010, Lisbon, Portugal.
19. Rolim, C. C., Gonçalves, G. A., Farias, T. L., Impacts of an In-vehicle Monitor Assistant on Driving Behaviour, 1st Transatlantic NECTAR Conference, 18 – 21 June 2009, Arlington, Virginia.

1.5.7 Posters

1. Patrícia Baptista, Catarina Rolim, Gonçalo Duarte, Assessment of electric mobility adequacy and energy requirements based on real world data, EVS29 Symposium, Montréal, Québec, Canada, June 19-22, 2016
2. Catarina Rolim, (2015). Impacts of adopting on board ICT and training on driving behavior, safety, energy and environment: application to light duty vehicles and buses. PhD Open Day, 1st Edition, November 2015
3. Rolim, C., Gonçalves, G., Farias, T., (2013). Impacts of electric vehicle adoption on driver behavior and environmental performance. 10^o Encontro do Grupo de Estudos em Transportes, January 2013.
4. Rolim, C., Baptista, P., Duarte, G., Farias, T., (2013). Impacts of on-board devices and training in passengers' transportation drivers – application to a case study. 10^o Encontro do Grupo de Estudos em Transportes, January 2013.
5. G. Pereira, P. Baptista, A. Pina, C. Rolim, G. Duarte, C. Silva, Fast charging electrical bicycles using the existing electric car charge network, Energy Night, May 2012.
6. Rolim, C. C., Gonçalves, G. A., Farias, T. L., Changing Driving Behaviour: effects of an in-vehicle monitor assistant, Qualidade do Ambiente Urbano: novos desafios, 8-9 October 2009, Bragança, Portugal.

1.5.8 *Thesis*

1. Ph.D. Dissertation: Catarina Rolim, Impacts of adopting ICT and training on driving behavior, safety, energy and environment: application to light-duty vehicles and buses, Universidade de Lisboa, Instituto Superior Técnico, Lisboa, Portugal, 2016
2. Bachelor's thesis: Catarina Rolim, Parents Perception of their parental involvement in their children's education: impacts of gender and children's educational level, Instituto Superior de Psicologia Aplicada, Lisboa, Portugal, 2004.

1.6 Other scientific activities

1.6.1 *Coordination and Participation in Research Projects*

International R&D Projects

Year: 2016-2020

***Project title:* Sharing Cities**

Project description: The main goal of this project is to promote a wide-scale deployment of smart city solution, shifting the thinking to decarbonized and local renewable and changing the way people think about the role of technology in cities, improving urban mobility, energy efficiency and reducing carbon emissions. The project will deploy in a holistic approach several measures considering citizens' engagement in the co-design of solutions, demonstrating the benefits of measures (eg. Electric and shared mobility, building retrofit measures, among others), linked together by an urban sharing platform that manages data collected.

Role in Project: Involvement in the WP dedicated to People, by recruiting participants, conduct of User Research approach and results analysis on the assessment of citizens' engagement and their perceptions and expectations towards the implementation of measures. Involvement in activities to develop a Digital Social Market to promote citizens' adoption and participation of solutions.

Year: 2014-2016

***Project title:* Cost Action: TU1105 - LNG_PT - NVH analysis techniques for design and optimization of hybrid and electric vehicles.**

Project description: The main goal of this project is to acquire, unify and coordinate necessary information about vehicle dynamics, drivability and noise, vibration & harshness (NVH) analysis technologies in view of the challenges posed by the hybrid and electric vehicles.

Role in Project: Participation on WG2, WG4 and WG5 packages focusing contributions on the assessment of users' behaviour and expectations towards hybrids and electric vehicles usage.

Year: 2014-2015

***Project title:* FR-EVUE Freight Electric Vehicles in Urban Europe**

Project description: The project will demonstrate solutions to the barriers currently inhibiting uptake of EVs in the sector and includes leading European researchers who will design and then implement a common pan-European assessment framework to understand the impacts of these solutions.

Role in Project: Participation in the IDMEC technical team

Funding: IDMEC ≈6 k€

Year: 2009-2011

***Project title:* InSity – Sustainable Mobility Indicators**

Project description: The main objective was to develop a methodology on how to analyze and account accessibility and equity concerning transport modes and mobility systems.

Role in Project: Development of a survey to assess user's perceptions towards mobility patterns

Funding: IDMEC 70K, financed by the European Community 6th Framework Research Programme

Year: 2006-2010

***Project title:* Hyfleet: CUTE – Hydrogen for Clean Urban Transportation in Europe**

Project description: The main goal of this project was to develop hydrogen powered bus technology to reduce energy consumption, through environmentally efficiently reproduced hydrogen.

Role in Project: Support in management tasks and report elaboration

Funding: IDMEC 55K, financed by the European Community 6th Framework Research Programme

Privately funded projects

Year: 2014-2016

***Project title:* Urban mobility platform**

Project description: Characterize existing urban mobility platforms and define best architecture according to stakeholder's interests

Partners: Brisa Inovação e Tecnologia and IDMEC

Role in Project: Participation in the IDMEC team

Funding: IDMEC ≈30 k€; Total ≈30 k€, funded by Brisa Inovação e Tecnologia

Year: 2014-2015

***Project title:* State of Practice of Electric Vehicles and Charging Solutions**

Project description: Characterize the current market of electric vehicles and of charging equipment

Partners: Prio.e and IDMEC

Role in Project: Participation in the IDMEC team

Funding: IDMEC ≈2 k€; Total ≈2 k€, funded by Prio.e

Year: 2014-2015

***Project title:* Efficient Fleet Challenge**

Project description: Eco-driving competition between 10 companies with 10 drivers each

Partners: IDMEC, IST, ITDS, GALP Energia

Role in Project: Participation in the IDMEC technical team

Funding: IDMEC ≈10 k€; Total ≈50 k€, funded by Portuguese Innovation Support Fund (FAI)

Year: 2014-2015

***Project title:* Energy and Environmental Impacts Quantification of the Lisbon Municipality Fleet**

Project description: Perform the characterization of the energy and environmental impacts of the Lisbon Municipality Fleet

Partners: Lisboa E-Nova and IDMEC

Role in Project: Participation in the IDMEC team

Funding: IDMEC ≈4 k€; Total ≈4 k€, funded by Lisboa E-Nova

Year: 2012

***Project title:* Monitoring the use of electric vehicles by early adopters**

Project description: Monitor the use of privately owned and company owned electric vehicles by survey before and after the adoption of the alternative vehicle technology

Partners: IDMEC and EMEL

Role in Project: Participation in the IDMEC team

Funding: IDMEC ≈2 k€ funded by EMEL

Year: 2012

***Project title:* Impacts of on-board devices and eco driving training on urban passengers bus drivers' behavior**

Project description: Develop data-processing methodologies related to driver monitoring information from the 100 instrumented vehicles in the Lisbon region

Partners: IDMEC and Rodoviária de Lisboa

Role in Project: Participation in the IDMEC team

Funding: N/A

Year: 2012

Project title: Characterization of worldwide usage of bike sharing systems Project - State of Practice of Bike-sharing systems

Project description: Perform a worldwide characterization of bike-sharing systems and development of analysis metrics

Partners: IDMEC and Prio.e

Role in Project: Participation in the IDMEC team

Funding: IDMEC \approx 1 k€ funded by Prio.e

Year: 2012-2013

Project title: Evaluation of car-sharing environmental and social impacts

Project description: Development of penetration scenarios of implementation and operation of car-sharing in the city of Lisbon to evaluate potential behavioral and environmental impacts of penetration

scenarios

Partners: IDMEC and Carristur

Role in Project: Participation in the IDMEC technical team

Funding: N/A

Year: 2011-2013

Project title: i2d - intelligence to drive Project

Project description: Technological development of on-board monitoring device and application in demo tests

Partners: IDMEC, ITDS and FAI

Role in Project: Participation in the IDMEC technical team

Funding: IDMEC \approx 50 k€, funded by Portuguese Innovation Support Fund (FAI)

Year: 2011

Project title: Monitoring of 5 pre-production Plug-in Toyota Prius in real world usage conditions

Project description: Monitoring the deployment in real world usage condition of 5 Toyota Prius Plug-in

Partners: IDMEC and Galp Energia

Role in Project: Participation in the IDMEC technical team

Funding: IDMEC \approx 10 k€, funded by Galp Energia

Year: 2011

Project title: Monitoring of vehicles in real world usage conditions

Project description: Development of a methodology to evaluate driving behaviour using in-vehicle monitor assistants, observing the potential impacts of driving patterns in fuel consumption and eco and safety driving performance indicators.

Partners: IDMEC and Galp Energia

Role in Project: Participation in the IDMEC technical team

Funding: IDMEC ≈10 k€, funded by Galp Energia

Year: 2010

Project title: School and Parental involvement in Safe and Ecological driving

Project description: Evaluation of behavior change through children and parents awareness of eco and safety driving rules

Partners: IDMEC and GARE

Role in Project: Participation in the IDMEC technical team

Funding: N/A

1.6.2 Reviewing activities in international journals

Revision of 10 papers for international peer-reviewed journals namely:

- Transactions on Intelligent Transportation Systems and Intelligent Transportation Systems Magazine (<http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6979>)
- AIMS Energy (<http://www.aimspress.com/journal/energy>)
- Journal of Intelligent Transportation and Urban Planning (<http://www.bowenpublishing.com/itup/>)
- International Journal of Injury Control and Safety Promotion (<http://www.tandfonline.com/toc/nics20/current>)

1.6.3 Reviewing activities in international conferences

- Review of 1 conference paper for the 14th World Conference on Transport Research
- Review of 2 conference papers for the 17th Meeting of the European Working Group on Transportation 2014
- Review of 6 conference papers for the 16th Euro Working Group on Transportation 2013

1.6.4 Events organization

- Collaboration in the organization of the 13th National Conference on Transportation, Grupo de Estudos em Transportes, 2016.

1.6.5 Member of Research Units

- Member of IN+ - Center for Innovation, Technology and Policy Research from 2016 as researcher.
- Member of LAETA - Associated Laboratory for Energy, Transports and Aeronautics (<http://www.idmec.ist.utl.pt/laeta/>) from 2011 – 2016, as a PhD student.

2 Teaching

2.1 Supervision of students

2.1.1 M.Sc.

Dates: February 2015 – ...

Student: Miguel Meirinhos

Title: Analysis of real world driving profiles for alternative technology adequacy

Institution: Instituto Superior Técnico, University of Lisbon, Portugal

Area: Master thesis in Mechanical Engineering

Role: Co-supervisor

Dates: March 2013 - June 2014

Student: Eduardo Mendonça

Title: ICT in the transportation sector: potential market, impact quantification, implementation scenarios in the Lisbon region

Institution: Instituto Superior Técnico, University of Lisbon, Portugal

Area: Master thesis in Environmental Engineering

Role: Co-supervisor