

Curriculum Vitae

Nuno Manuel Garcia dos Santos

March 2018

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Abbreviations and acronyms

A3ES	<i>Agência de Avaliação e Acreditação do Ensino Superior</i>
AAL	<i>Ambient Assisted Living</i>
AAPELE	<i>Architectures, Algorithms and Platforms for Enhanced Living Environments</i>
AdmS	<i>Administração de Sistemas</i>
AFTEBI	<i>Associação para a Formação Tecnológica e Profissional da Beira Interior</i>
ALLab	<i>Assisted Living, Computing and Telecommunications Laboratory</i>
AS	<i>Análise de Sistemas</i>
ASI	<i>Análise de Sistemas de Informação</i>
AVA	<i>Ambientes de Vida Assistidos</i>
BDE	<i>Bolsa de Doutoramento em Empresa</i>
BI	<i>Bolsa de Investigação</i>
BIC	<i>Bolsa de Iniciação Científica</i>
BioEng	<i>Licenciatura em Bioengenharia</i>
BSAFE-Lab	<i>Law enforcement, Justice and Public Safety Research and Technology Transfer Laboratory</i>
BSc	<i>Bachelor of Science</i>
CFIUTE	<i>Centro de Formação Interação UBI Tecido Empresarial</i>
CieBio	<i>Ciências Biomédicas</i>
ECATI	<i>Escola de Comunicação, Arquitetura, Artes e Tecnologias da Informação</i>
EI	<i>Licenciatura em Engenharia Informática</i>
ESCM	<i>Escola Secundária Campos Melo (Campos Melo High School)</i>
FCT	<i>Fundação para a Ciência e Tecnologia</i>
InfMed	<i>Informática Médica</i>
IPG	<i>Instituto Politécnico da Guarda</i>
IT	<i>Instituto de Telecomunicações</i>
IW	<i>Licenciatura em Informática Web</i>
MEI	<i>Mestrado em Engenharia Informática</i>
MSc	<i>Master of Science</i>
NINF	<i>Núcleo de Informática da Universidade da Beira Interior</i>
PhD	<i>Philosophy Doctor</i>
PhD EI	<i>Doutoramento em Engenharia Informática</i>
Proj	<i>Projecto</i>
RAD	<i>Regulamento de Avaliação Docente</i>
RedTel	<i>Redes de Telecomunicações</i>
RSI	<i>Redes e Serviços Internet</i>
SD	<i>Sistemas Distribuídos</i>
TCD	<i>Tecnologias de Cloud e Datacenter</i>
TI	<i>Tecnologias da Internet</i>
TIC4TELCO	<i>Tecnologias de Informação e Comunicação para o Sector das Telecomunicações</i>
TPB	<i>Tópicos de Processamento de Biosinais</i>
TRI	<i>Tecnologias de Redes Informáticas</i>
TSI	<i>Licenciatura em Tecnologias e Sistemas de Informação</i>
UBI	<i>Universidade Beira Interior</i>
ULHT	<i>Universidade Lusófona de Humanidades e Tecnologias</i>

Preliminary note

This document is the *Curriculum Vitae* of Nuno Manuel Garcia dos Santos, reporting to the date shown in the front page. This document has been organized as follows: the first section contains the identification and a summary of relevant information; section two contains the description of the scientific, technological and cultural activities; section three presents a summary of the teaching and pedagogic activities; section four lists other activities that are relevant for the mission of the University of Beira Interior, Nuno's current employer. Section five presents conclusions and current ongoing research activities that have not yet produced publishable results; it also discusses future lines of research and submitted projects that have not received yet an evaluation.

Expressions that are not in English appear italicized, and when appropriate, its translation to English is provided. Abbreviations and acronyms are provided in page *vi*.

1. Introduction

1.1. Identification

Name: Nuno Manuel Garcia dos Santos

Name used in publications: Nuno M. Garcia *or* Nuno Garcia.

Place and date of birth: Castelo Branco, Portugal, the 22nd November 1965.

Professional Address: *Universidade da Beira Interior*, Computer Science Department, 6200-001 Covilhã, Portugal.

Contacts: telephone: +351-912-552-009

professional email addresses:

ngarcia@di.ubi.pt, ngarcia@ubi.pt, ngarcia@it.ubi.pt, nuno.garcia@ulusofona.pt

personal email address: *ngarcia@ngarcia.net*.

1.2. Academic degrees

November 2008: Doctor of Philosophy in Computer Science and Engineering by the University of Beira Interior (UBI), Covilhã, Portugal, with the thesis "Architectures and Algorithms for IPv4/IPv6-compliant Optical Burst Switching Networks", approved by unanimity. Supervisors: Mário Marques Freire (UBI) and Paulo Miguel Pereira Nepomucemo Monteiro (University of Aveiro and Head of Research at Nokia Siemens Networks Portugal). The PhD work was developed *in situ* at the Research and Development Unit of Siemens SA, Alfragide, Portugal (and in time Siemens Networks SA and Nokia Siemens Networks SA), funded by a Siemens and the Portuguese Foundation for Science and Technology (FCT, *Fundação para a Ciência e Tecnologia*) through a Doctoral Grant in Companies BDE (*Bolsa de Doutoramento em Empresa*).

July 2004: Degree (5-year Bachelor of Science, *Honors*) in Mathematics and Computer Science, UBI.

1.3. Current professional occupation

Vice-Dean, Faculty of Engineering, *Universidade Beira Interior* (UBI), Covilhã, Portugal.

As Vice-Dean of the Faculty of Engineering, he has the task of assisting the Dean of the Faculty, Dr. Sílvio Mariano, in the duties that are specific to the Dean, as defined in the Statutes of the University (Art. 30, *Despacho Normativo 45/2008*, published in the *Diário da República*, 2^a Série, N^o 168, 1 September 2008).

Assistant Professor at the Faculty of Engineering, Department of Computer Science, UBI, Covilhã, Portugal.

As assistant professor at UBI, he teaches undergraduate and graduate courses in the areas of computer networks and Ambient Assisted Living / Biosignal processing. He also supervises students at the undergraduate and graduate levels.

Invited Associate Professor at the *Escola de Comunicação, Arquitetura, Artes e Tecnologias da Informação* (ECATI) at the *Universidade Lusófona de Humanidades e Tecnologias* (ULHT), Lisbon, Portugal.

As invited associate professor at ULHT, he currently teaches one hour per week for the *Trabalho Final de Curso* (Final Project) at the Computer Science Engineering and Management Informatics undergraduate courses.

Researcher at the *Instituto de Telecomunicações* (IT), UBI, Covilhã, Portugal.

IT has a delegation in Covilhã at UBI as the university is one of its members. In this context, the Assisted Living Computing and Telecommunications Laboratory (ALLab) is a research team that is hosted within the Networks Architecture and Protocols research group of IT. He is a researcher of IT since January 2008.

Coordinator of ALLab, Assisted Living, Computing and Telecommunications Laboratory, IT and UBI.

ALLab (<https://allab.it.ubi.pt/>) was created in February 2010 to provide a research ground on computing and telecommunications for Ambient Assisted Living (AAL). Funded in 2010 as a research team, the laboratory occupies room 6.9 of Pole 6 of UBI, where two PhDs supervise the research of a team of more than twenty graduate and undergraduate students. At this date, ALLab is the research home for six PhD students, ten MSc students, and more than ten undergraduate students. ALLab has frequent cooperation with several European universities and research institutes, as well as with industry, as shown by the affiliation of the authors in published papers. As founder and coordinator, he defines and supervises research activities and manages the grants and projects the laboratory has successfully won, and that are described in detail forward.

Executive Committee Coordinator of BSAFE Lab, Law Enforcement, Justice and Public Safety Laboratory, UBI.

BSAFE Lab (<http://bsafe.ubi.pt/bsafelab/index.php>) was created in January 2014 as a flexible research structure and its hosted at the Computer Science department because the first projects it submitted were based on the idea of the use of sensors to monitor and track the location of inmates. The Executive Committee sits one representative from UBI (Nuno M. Garcia, Coordinator), one representative from Innovative Prison Systems Lda (Pedro das Neves), a Portuguese company with interests in this area, and one representative from Microsoft Portugal (Pedro Pinto Lourenço). Funded in 2014 BSAFE Lab joins nine PhDs and two PhD students from the Social Sciences, the Health Sciences and the Engineering around five currently on going ERASMUS+ projects. As co-founder and coordinator, he

supervises research activities and manages the grants and projects the laboratory has successfully won, and that are described in detail forward.

Coordinator and trainer of the Cisco Academy at UBI.

In November 2010, he founded the Cisco Academy at the Computer Science department in UBI. The Cisco Academy has since been providing complementary training in the CCNA courses, in particular CCNA1, CCNA2, CCNA3 and CCNA4, and also in the Linux Essentials course. Since its creation, the Cisco Academy has organized over 40 courses, teaching 428 students, both students from UBI and students from industry and external at UBI, as the Academy also allows the enrolment of external students and professionals. As chair, he manages all training activities and the budget of the academy, including the planning of the continuous training for the trainers and the plans to provide suitable equipment to the academy. He also promotes the celebration of cooperation agreements with companies and industry to train their collaborators at the Cisco Academy. A list of such agreements is provided in section 4.2. Also as coordinator of the Cisco Academy, in October 2013 he signed an agreement to establish a Pearson VUE Authorized Center (site ID 70992) at UBI, as a mean to further enable industry certification to the students and trainers of the Cisco Academy and to the surrounding community. Since its creation, Cisco Academy at UBI has generated over 68.000€ in income and now has one fully equipped CISCO Laboratory and another semi-equipped laboratory at the facilities of the university's training department, CFIUTE (*Centro de Formação Interação UBI Tecido Empresarial*). As trainer at the Cisco Academy, he has obtained the following certifications (Cisco ID: CSC012808868):

August 2016: Cisco Certified Network Associate Security (CCNA Security);

March 2016: Cisco Certified Network Professional (CCNP);

August 2015: Cisco Certified Network Professional (CCNP Switching);

May 2015: Cisco Certified Network Associate (CCNA).

1.4. Online Curriculum Vitae and scientific publication links

- <http://www.researcherid.com/rid/A-8476-2010>
- <http://scholar.google.pt/citations?user=eCOZ3t8AAAAJ>
- https://www.researchgate.net/profile/Nuno_Garcia
- <https://ubi.academia.edu/NunoGarcia>
- <http://orcid.org/0000-0002-3195-3168>
- http://www.informatik.uni-trier.de/~ley/pers/hd/g/Garcia:Nuno_M=.html
- http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=p_Authors:.QT.Garcia,%20Nuno%20M..QT.&newsearch=true
- <http://www.ubi.pt/Pessoa/2170>

1.5. Academic activities

January 2018 – October 2021: Appointed Vice-Dean of the Faculty of Engineering, UBI.

November 2017 – October 2019: Elected secretary of the Computer Science Department Scientific Commission, UBI.

September 2015, October 2012 and October 2011: Invited Associate Professor at the Addis Ababa University (AAU), Addis Ababa, Ethiopia, chairing the Advanced Topics in Computer Science curricular unit for the PhD course in Software Engineering.

August 2015 – September 2015: Invited Associate Professor at the *Universiti Teknologi Malaysia*, Johor Bahru and Kuala Lumpur, Malaysia.

October 2012 – October 2013: Director of the Computer Science Engineering Bachelor of Science degree program, UBI.

July 2012 – October 2012: Full time Associate Professor, ULHT.

May 2012 – October 2012: Elected member of the Scientific Council of the Computer Science and Information Systems Department of the ECATI, ULHT.

May 2012 – October 2012: Elected member of the Pedagogical Council of the Computer Science and Information Systems Department of the ECATI, ULHT.

May 2011 – May 2012: Elected member of the Pedagogical Council of the Computer Science and Information Systems Department of the ECATI, ULHT.

May 2011 – May 2012: Elected member of the Scientific Council of the Computer Science and Information Systems Department of the ECATI, ULHT.

November 2010 – today: Certified instructor for the following courses at the Cisco Academy at UBI, of which stand all the Cisco Certified Network Associate (CCNA) and Cisco Certified Network Professional (CCNP) courses: IT Essentials: PC Hardware and Software, CCNA R&S: Introduction to Networks, CCNA R&S: Routing and Switching Essentials, CCNA R&S: Scaling Networks, CCNA R&S: Connecting Networks, CCNA R&S 6.0 Bridging, CCNA Discovery 1: Networking for Home and Small Business, CCNA Discovery 2: Working at a Small-to-Medium Business or ISP, CCNA Discovery 3: Introducing Routing and Switching In the Enterprise, CCNA Discovery 4: Designing and Supporting Computer Networks, CCNA Exploration 1: Network Fundamentals, CCNA Exploration 2: Routing Protocols and Concepts, CCNA Exploration 3: LAN Switching and Wireless, CCNA Exploration 4: Accessing the WAN, CCNA Security, CCNP ROUTE: Implementing IP Routing, CCNP SWITCH: Implementing IP Switching, CCNP TSHOOT: Maintaining and Troubleshooting IP Networks, Networking Essentials, Introduction to the Internet of Everything, Introduction to IoT, IoT Fundamentals: Connecting Things, IoT Fundamentals: Big Data & Analytics, IoT Fundamentals: Hackathon Playbook, Introduction to Cybersecurity, Cybersecurity Essentials, Get Connected, Smart Grid Essentials, Packet Tracer Know How 1: Packet Tracer 101,

Mobility Fundamentals, NDG Linux Essentials, NDG Linux I, NDG Linux II, CPA - Programming Essentials in C++, CLA - Programming Essentials in C, Computing for Schools.

September 2010 – today: Member of the Scientific Council of the Computer Science Department of UBI.

May 2010 – today: Invited researcher at the Textile and Paper Materials Research Unit (UMTP), Faculty of Engineering, UBI.

February 2010 – August 2011: Invited Assistant Professor at the Faculty of Engineering, Department of Computer Science, UBI.

December 2009 – December 2011: Member of the Pedagogical Council of the ULHT.

December 2009 – 2011: Member of the Scientific Council of the Course on Computer Engineering, ULHT.

December 2009 – 2011: Member of the Scientific Council of the Course on Management Informatics, ULHT.

March 2009 – June 2012: Full time Assistant Professor, ULHT.

March 2009 – August 2009: Invited Assistant Professor, *Universidade Autónoma de Lisboa* (UAL), Lisbon, Portugal.

February 2009 – July 2009: Invited Professor chairing the curricular unit of Communication and Information Systems, *Escola Superior de Saúde*, Polytechnic Institute of Guarda (IPG), Guarda, Portugal.

September 2007 – February 2009: Invited Assistant Professor, ULHT.

September 2007 – October 2012: Researcher, Research Centre for Applied Communication, Culture and New Technologies (*Centro de Investigação em Comunicação Aplicada, Cultura e Novas Tecnologias - CICANT*), ULHT.

September 2007 – March 2009: Assistant Professor, Department of Science and Technologies, UAL.

July 2004 – November 2008: *PhD* student, University of Beira Interior, while member of the Research Department of Siemens SA, Lisbon, Portugal. His advisors were Mário M. Freire, *PhD* (UBI) and Paulo P. Monteiro, *PhD*, Head of Research of *Siemens SA* (Portugal) and faculty member at the University of Aveiro, Aveiro, Portugal.

February 2004 – February 2010: member of the *Network and Multimedia Computing Group (NMGC)*, IT branch at UBI.

2002 – 2004: elected member of the Senate of the University of Beira Interior, representing the students of the Scientific and Pedagogical Unit of the Exact Sciences of the University of Beira Interior, Covilhã, Portugal.

2002 – 2004: elected member of the General Assembly of the University of Beira Interior, Covilhã, Portugal.

1.6. Other professional relevant experience

December 2012 – December 2016: Head of Laboratory at EyeSee Lda., Lisbon, Portugal.

In 2012 EyeSee (<http://www.eyeseesolutions.com/>) established a cooperation agreement with UBI, in which the company declared its intention to develop research at UBI through the funding of scholarships and laboratory equipment. Since December 2012 and as head of EyeSee Laboratory, he coordinated the research work of students who receive scholarships from EyeSee. The EyeSee project at UBI has been funded with over 38.000€

August 2008 – April 2010: Head of Research, Plux, *Engenharia de Biosensores, Lda.*, Covilhã and Lisbon, Portugal.

As Head of Research of PLUX, his role consisted in developing new solutions and new products that could be marketable, to engage in communications with the prospective and current customers, and also to contribute to the CE marking of some of the company's products.

December 2007 – July 2008: System Architect in the Operations and Business Software Department, Element Operation unit, *Nokia Siemens Networks Portugal SA*, Lisbon, Portugal.

As System Architect at Nokia Siemens Networks he was responsible for the verification of specifications for several high-end Siemens routers.

April 2007 – December 2007: OSS/Networks Team Leader of the Development Center Portugal of *Nokia Siemens Networks SA*, Lisbon, Portugal.

As Research Team Leader at Nokia Siemens Networks he was responsible for the coordination and prosecution of the research goals for a team of four researchers.

July 2004 – November 2007: member of the Research Department of the Development Center Portugal of *Nokia Siemens Networks SA*, Lisbon, Portugal.

As member of the Research team at Nokia Siemens Networks he was responsible for developing research that was aligned with both the academic goals of his *PhD* but also with the commercial and research interests of the company.

1988 – 2004: founder and administrator of the companies *Tropical Software Lda.* and *International Software Lda.*, Covilhã, Portugal.

As administrator of these companies he was responsible for all aspects of company life, including finances, relations with customers and suppliers, and in *Tropical Software*, he was responsible for the development and research of new software products, managing a team of programmers.

1.7. Other personal relevant experience

Mai 2017 – May 2018: member of the Board of Directors of the *Associação de Antigos Alunos Universitários da Beira Interior*.

January 2017 – December 2017, January 2016 – December 2016: member of the Fiscal Council of the *Associação de Antigos Alunos Universitários da Beira Interior*.

September 2015 – September 2016: appointed President of the Division 9 for the Portuguese Lions Centre North District (D115CN), for the 2015-2016 term.

April 2015 – April 2016: elected Secretary of the *Lions Clube da Covilhã*, for the 2015-2016 term.

April 2014 – April 2015: elected President of the General Assembly of the *Lions Clube da Covilhã*, for the 2014-2015 term.

July 2013: Councillor representing Non-Commercial Support Group (NCSG) at the Generic Names Supporting Organization (GNSO) of the ICANN (Internet Corporation for Assigned Names and Numbers (ICANN), during the 47th ICANN Meeting at Durban, South Africa.

April 2013 – April 2014: elected Vice-President of the *Lions Clube da Covilhã*, for the 2013-2014 term.

November 2012: member of the Membership Affairs Team of the Non-Commercial Users Constituency (NCUC) of the Generic Names Supporting Organization (GNSO) of the Internet Corporation for Assigned Names and Numbers (ICANN) for the 2012-2013, 2013-2014, and 2014-2015 term.

November 2011 – November 2012: elected member of the Executive Committee of the Non-Commercial Users Constituency (NCUC) of the Generic Names Supporting Organization (GNSO) of the Internet Corporation for Assigned Names and Numbers (ICANN), representing Europe (2017) for the 2011-2012 term.

2011 – 2012: Member elected of the General Council of the *Escola Secundária Frei Heitor Pinto*, Covilhã, Portugal.

April 2011 – April 2012: elected Vice-President of the *Lions Clube da Covilhã*, for the 2011-2012 term.

April 2010 – April 2011: elected Secretary of the *Lions Clube da Covilhã*, for the 2010-2011 term.

February 2011: Registered as trainer at the *Conselho Científico-Pedagógico da Formação Contínua* with the number CCPFC/RFO-28790/11 for the areas A40 (Computer Science) and C15 (Education Technologies-Computer Science, Application of Computer Science).

2009 – 2011: Member elected of the General Council of the *Escola Secundária Frei Heitor Pinto*, Covilhã, Portugal.

April 2009 – April 2010: elected Vice-President of the *Lions Clube da Covilhã*, for the 2009-2010 term.

January 2009: renewal of the Certificate as Professional Trainer (*Certificado de Aptidão Profissional, CAP*) n. EDF 1973/98 DC, issued by the Portuguese Institute of Employment and Professional Training (*Instituto do Emprego e Formação Profissional - IEFPP*).

June 2003 – June 2004: elected President of the *Lions Clube da Covilhã*, Portugal, for the 2003-2004 term.

November 2002 – November 2003: elected President of the Computer Science Group (*Núcleo de Informática da Universidade da Beira Interior - NINF*) for the 2002/2003 term.

2002 – today: Member of the *Lions Clube da Covilhã*.

June 1998: receives the Certificate of Professional Trainer n. EDF 1973/98 DC, issued by the IEFPP .

1997 – 2011: serves as a President, President of the General Assembly and other positions in several local and national associations, including parents' associations.

1.8. Languages

Written and spoken fluently: Portuguese, English, French and Spanish.

Basic understanding, reading and writing: Italian.

Some understanding, reading and writing: German.

1.9. Other information

Member of the Internet Corporation for Assigned Names and Numbers (ICANN) Non-Commercial Users Constituency (NCUC, <https://community.icann.org/display/gnsononcomstake/Membership>).

Member of the Internet Society (ISOC).

Has visited the following countries: Andorra, Angola, Austria, Brazil, Belgium, Bulgaria, Croatia, Cyprus, Denmark, Egypt, England, Ethiopia, Estonia, Finland, France, Germany, Greece, Guinea-

Bissau, Ireland, Italy, Lichtenstein, Lithuania, Macedonia (FYRoM), Malaysia, Malta, The Nederland, Norway, Poland, Romania, Russia, San Marino, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and the United States of America.

2. Scientific activity

2.1. Scientific work

PhD Thesis

Architectures and Algorithms for IPv4/IPv6-compliant Optical Burst Switching Networks, Nuno Manuel Garcia dos Santos, PhD thesis submitted to the University of Beira Interior in candidature for the Degree of Doctor of Philosophy in Computer Science and Engineering, advisors Dr. Mário Marques Freire and Dr. Paulo Miguel Nepomuceno Pereira Monteiro, 7 November 2008.

Patents

He is the co-author of eight patents and eleven patent records, being the main author in five of these (his name appears in bold).

International and European Patents

Mário M. Freire, Przemyslaw Lenkiewicz, **Nuno M. Garcia**, Paulo P. Monteiro, José R. Santos, “Method and Device for Processing Data in an Optical Network and Communication System Comprising Such Device”,

International Patent WO 2009/156409, 2009; and

European Patent EP 2139262 A1, 2009.

Mário Freire, **Nuno Garcia**, Marek Hajduczenia, Paulo Monteiro, Henrique Silva, “Monitoring Method and Apparatus of Processing of a Data Stream with High Rate/Flow”,

International Patent WO 2008/052583 (A1), 2008; and

European Patent EP 1780955 A1, 2007.

Mário Freire, **Nuno Garcia**, Marek Hajduczenia, Pedro Inácio, Paulo Monteiro, Henrique Silva, “Methods for estimating self-similarity degree and related estimator”,

European Patent EP 1983687 (A1), 2008.

Mário Freire, **Nuno Garcia**, Marek Hajduczenia, Pedro Inácio, Paulo Monteiro, Henrique Silva, “Method for detection of malign intrusions in a communication system and related detector”,

European Patent EP 1983714 (A1), 2008.

Mário Freire, **Nuno Garcia**, Marek Hajduczenia, Paulo Monteiro, Henrique Silva, “Method for Aggregating a Plurality of Data Packets with Different IP Formats and Machine for Performing Said Method”,

International Patent WO 2007/118594 (A1), 2007; and

European Patent EP 1848172 (A1), 2007.

Mário Freire, **Nuno Garcia**, Paulo Monteiro, José M. R. R. Santos, “Method for the Transmission of Data Packets by Means of an Optical Burst Switching Network and Network Nodes for an Optical Burst Switching Network”,

International Patent WO 2006/072406-A1, 2006.

USA Patents

Mário Freire, **Nuno Garcia**, Paulo Monteiro, José M. R. R. Santos, “Method for the Transmission of Data Packets by Means of an Optical Burst Switching Network and Network Nodes for an Optical Burst Switching Network”,

USA Patent US 7817919 (B1), 2010.

Portuguese Patents

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Publications in web pages

He has authored three entries at the online encyclopaedia www.techopedia.com on:

- “Optical Burst Switching” (available at <http://www.techopedia.com/definition/25332/optical-burst-switching-obs>), 2014;
- “Optical Packet Switching” (available at <http://www.techopedia.com/definition/27135/optical-circuit-switching-ocs>), 2014;
- “Wavelength Division Multiplexing” (available at <http://www.techopedia.com/definition/3451/wavelength-division-multiplexing-wdm>), 2014.

Published reviews on books, and on scientific papers published in magazines, journals and conference proceedings

Since 2006, he has published in Reviews.com, an Association for Computing Machinery (ACM) associated web site (http://www.reviews.com/browse/browse_reviewers.cfm?reviewer_id=123106) the following peer-reviewed reviews on books and scientific papers:

- Review on The Monte Carlo Database System: stochastic analysis close to the data Jampani R., Xu F., Wu M., Perez L., Jermaine C., Haas P. ACM Transactions on Database Systems 36 (3): 1-41, 2011. Type: Article, published at http://www.computingreviews.com/review/review_review.cfm?review_id=140085&CFID=5157268&CFTOKEN=63775721, 24 April 2012;
- Review on Opening up education: the collective advancement of education through open technology, open content, and open knowledge, Iiyoshi T., Kumar M., The MIT Press, Cambridge, MA, 2010. 504 pp. Type: Book, published at http://www.reviews.com/review/review_review.cfm?review_id=139184, 27 June 2011;
- Review on Designing location-based learning experiences for people with intellectual disabilities and additional sensory impairments, Brown D., McHugh D., Standen P., Evett L., Shopland N., Battersby S. Computers & Education 56 (1): 11-20, 2011. Type: Article, published at http://www.reviews.com/review/review_review.cfm?review_id=138798, 16 February 2011;
- Review on Theorizing on the treatment of time in simulation gaming; Lainema T. Simulation and Gaming 41 (2): 170-186, 2010. Type: Article, published at http://www.reviews.com/review/review_review.cfm?review_id=138507, 21 October 2010;
- Review on Sequential art for science and CHI; Rowland D., Porter D., Gibson M., Walker K., Underwood J., Luckin R., Smith H., Fitzpatrick G., Good J., Walker B., Chamberlain A., Rennick Egglestone S., Marshall J., Schnädelbach H., Benford S. CHI EA 2010 (Proceedings of the 28th International Conference on Human Factors in Computing Systems (Extended Abstracts), Atlanta, GA, Apr 10-15, 2010) 2651-2660. 2010. Type: Proceedings, published at http://www.reviews.com/review/review_review.cfm?review_id=138226, 5 August 2010;
- Review on Benefits of optical bypass in WDM networks with hybrid optical-and-electronic switching node architecture; Vesarach P., Saengudomlert P. AINTEC 2009 (Proceedings of the Asian Internet Engineering Conference, Bangkok, Thailand, Nov 18-20, 2009) 85-92. 2009. Type: Proceedings, published at http://www.reviews.com/review/review_review.cfm?review_id=137982, 10 May 2010;
- Review on Route optimization in optical burst switched networks considering the streamline effect; Chen Q., Mohan G., Chua K. Computer Networks: The International Journal of Computer and Telecommunications Networking 52 (10): 2033-2044, 2008. Type: Article, published at http://www.reviews.com/review/review_review.cfm?review_id=137874, 30 March 2010;
- Review on Epidemic protocols for pervasive computing systems: moving focus from architecture to protocol; Mogensen M. M-PAC 09 (Proceedings of the International Workshop on Middleware for Pervasive Mobile and Embedded Computing, Urbana Champaign, Illinois, Nov 30, 2009) 1-4. 2009. Type: Proceedings, published at http://www.reviews.com/review/review_review.cfm?review_id=137839, 22 March 2010;
- Review on Mule 2: a developer's guide; Delia P., Borg A., Apress, Berkeley, CA, 2008. 164 pp. Type: Book, published at http://www.reviews.com/review/review_review.cfm?review_id=137018, 26 June 2009;

- Review on Simulation and the Monte Carlo method (Wiley Series in Probability and Statistics); Rubinstein R., Kroese D., Wiley-Interscience, 2007. 304 pp. Type: Book, published at http://www.reviews.com/review/review_review.cfm?review_id=136016, 3 September 2008;
- Review on Reservoir simulation: mathematical techniques in oil recovery (CBMS-NSF Regional Conference Series in Applied Mathematics); Chen Z., Society for Industrial and Applied Mathematics, Philadelphia, PA, 2007. 227 pp. Type: Book, published at http://www.reviews.com/review/review_review.cfm?review_id=135807, 8 July 2008;
- Review on Crowd simulation; Thalmann D., Musse S., Springer-Verlag New York, Inc., Secaucus, NJ, 2007. Type: Book, published at http://www.reviews.com/review/review_review.cfm?review_id=135762, 26 June 2008;
- Review on Advancing social simulation: the first world congress; Takahashi S., Sallach D., Rouchier J., Springer-Verlag New York, Inc., Secaucus, NJ, 2007. 354 pp. Type: Book, published at http://www.reviews.com/review/review_review.cfm?review_id=135565, 8 May 2008;
- Review on Parallel processing for scientific computing (Software, Environments and Tools); Heroux M., Raghavan P., Simon H., Society for Industrial and Applied Mathematics, Philadelphia, PA, 2006. 397 pp. Type: Book, published at http://www.reviews.com/review/review_review.cfm?review_id=134579, 30 July 2007;
- Review on High performance computing in science and engineering '05; Nagel W., Jäger W., Resch M., Springer-Verlag New York, Inc., Secaucus, NJ, 2005. 340 pp. Type: Book, published at http://www.reviews.com/review/review_review.cfm?review_id=134200, 26 April 2007;
- Review on Integrating network-calculus-based simulation with packet-level simulation for TCP-operated networks; Kim H. Computer Networks: The International Journal of Computer and Telecommunications Networking 50 (12): 1995-2012, 2006. Type: Article, published at http://www.reviews.com/review/review_review.cfm?review_id=133656, 1 December 2006;
- Review on Analysis of state-independent importance-sampling measures for the two-node tandem queue; Boer P. ACM Transactions on Modeling and Computer Simulation 16 (3): 225-250, 2006. Type: Article, published at http://www.reviews.com/review/review_review.cfm?review_id=133418, 10 October 2006.

White papers, reports and prototypes

R. Couto, A. Pinheiro, N. Garcia, “InventALLab-web tool for inventory tracking”, ALLab, Assisted Living Computing and Telecommunications Laboratory, IT/UBI, Covilhã, Portugal, available from <http://allab.di.ubi.pt/inventallab>, June 2011.

R. Couto, N. Garcia, “CE Marking - A synthesis of the conformance CE marking on medical devices”, ALLab - Assisted Living Computing and Telecommunications

Laboratory, IT/UBI, Covilhã, Portugal, available from http://allab.di.ubi.pt/download.php?d=allab_ce_marking.pdf, March 2011.

Bibliometry

The number of citations of a scholar is one of the most important metrics to assess the impact his/her publications have in the opinion of other researchers, and is therefore considered one of the most important validation criteria for a publishing scientist. Nevertheless, there is research that stresses that citations should not be the only criteria for the assessment of quality of the scientific work. There have been reported cases of authors that are so prolific that their metrics are plainly impossible to achieve in normal scenarios.

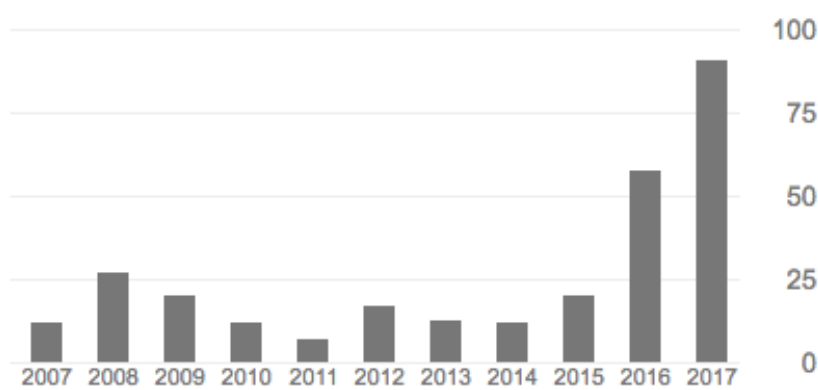


Figure 1-number of citations per year according to Google Scholar as of 31 December 2017.

Having said this, the author is aware that his metrics have much room to improve, and efforts in this sense have been made in a continued manner. This is reflected in the increase in number of citation since 2014, as seen in Figure 1. The decrease since 2008 is the consequence in the decrease in the publishing activities as a result of the workload of establishing the new research laboratory and building up the research team from the ground, associated to the focus on a new scientific area.

Google Scholar reports a total of 356 citations since 2005; previous to that date, the author had no publications. The link to the author profile in Google Scholar is <https://scholar.google.pt/citations?user=eCOZ3t8AAAAJ&hl=en>.

2.2. Coordination and participation in scientific projects

Coordination of funded scientific projects

Since 2010, he has participated as Principal Investigator, Coordinator, Local Coordinator or Researcher of several European or national Research projects. The approval ratios for the different ERASMUS+ projects are around 10% and for the COST Action are around 5%, according to the last reported data. The funds he directly manages for these projects surpass the 2M€. The list of projects is as follows:

- September 2016-August 2019: Local Coordinator and Researcher of the ERASMUS+ project MenACE “Mental health, aging and palliative care in European prisons”, lead by *HOSPICE Casa Sperantei*, Braşov, Romania, partners include *the HOSPICE Casa Sperantei*, Romania, Helse Bergen Haukeland University Hospital, Norway, *Administratia Nationala a Penitenciarelor*, Romania, European Organisation of Prison and Correctional Services (EuroPris), The Netherlands, Qualify Just - IT Solutions and Consulting Lda., Portugal, *De Federale Overheidsdienst Justitie - Le Service Public Federal Justice*, Belgium, *Universidade da Beira Interior*, Portugal, and the *Direção-Geral de Reinserção e Serviços Prisionais*, Portugal, total budget 289.886€, budget managed at UBI 41.070€;
- November 2015-October 2018: Principal Investigator, Project Coordinator, Local Coordinator of ERASMUS+ FORWARD LOOKING project EIGEP “European Interaction Guidelines for Education Professionals when working with Children in Juvenile Justice Learning Contexts”, partners include *Universidade da Beira Interior*, Portugal, IPS Innovative Prison Systems Lda, Portugal, *Centrul Pentru Promovarea Invatarii Permanente*, Romania, *Administratia Nationala a Penitenciarelor*, Romania, *Psichologinės paramos ir konsultavimo centras*, Lithuania, and TITAN, United Kingdom, total budget 524.461€;
- July 2015-July 2018: Principal Investigator, Project Coordinator, Local Coordinator of ERASMUS+ project R2PRIS “Radicalization Prevention in Prisons”, partners include *Universidade da Beira Interior*, Portugal, IPS Innovative Prison Systems Lda, Portugal, *Ceza Ve Tevkifevleri Genel Mudurlugu*, Turkey, European Organisation of Prison and Correctional Services (EuroPris), The Netherlands, *Kriminalomsorgen Directorate* of Norwegian Correctional Service, Norway, *Service Public Fédéral Justice*, Belgium, *Administratia Nationala a Penitenciarelor*, Romania, *Centrul Român de Studii Penitenciare*, Universitatea De Vest Din Timisoara, Romania, and International Correction and Prison Association, Belgium, total budget 330.526€;
- September 2014-September 2017: Principal Investigator, Project Coordinator, Local Coordinator of ERASMUS+ project ECOPRIS “Ecological Economics in Prison Work Administration”, partners include *Universidade da Beira Interior*, Portugal, *Penitenciarul Timisoara*, Romania, *Centrul Pentru Promovarea Invatarii Permanente*, Romania, Qualify Just - IT Solutions and Consulting Lda, Portugal, *Universitatea De Vest Din Timisoara*, Romania, *Ceza Ve Tevkifevleri Genel Mudurlugu*, Turkey, European Organisation of Prison and Correctional Services (EuroPris), The Netherlands and *Direção-Geral de Reinserção e Serviços Prisionais*, Portugal, total budget 342.255€;
- September 2014-September 2017: Local Coordinator and Researcher of the ERASMUS+ project IDECOM “Innovation, Development and Communication for a better education in Prison System”, lead by *Penitenciarul Timisoara*, Romania, partners include the Department of Penitentiary Institutions Moldova, Moldova, *Centrul Pentru Promovarea Invatarii Permanente*, Romania, IPS - Innovative Prison Systems, Portugal, *Universitatea De Vest Din Timisoara*, Romania, *Ceza Ve Tevkifevleri Genel Mudurlugu*, Turkey, European Organisation of Prison and

Correctional Services (EuroPris), The Netherlands, and *Universidade da Beira Interior*, total budget 300.857€, budget managed at UBI 42.999€;

- November 2013-November 2017: COST Action IC1303-“Architectures, Algorithms and Platforms for Enhanced Living Environments (AAPELE)”, funded by the COST Office through the European Science Foundation and starting in 2015, funded by the COST Association through the European Commission Horizon 2020 program (http://www.cost.eu/domains_actions/ict/Actions/IC1303?management); Chair of the COST Action (elected); estimated budget for the four year period, approx. 650K€;
- 2012: QREN project EyeSee, Blending Seamlessly Advertising in Video, 2012-2014 (National QREN project lead by EyeSee Lda, Lisbon); Researcher and Project Coordinator at the University of Beira Interior; total project funding: n/a; total managed funds at UBI: approx. 150K€;
- 2011: TICE-Healthy, 2011-2014 (National project number 13842), Researcher and Project Coordinator at the University of Beira Interior, total project funding 6.673.235,60€; total managed funds at UBI: approx. 160K€;
- 2010: CIFANG - Research on Communication, Information Framework and Algorithms for Physiological Signals on Next-Generation Networks, (Institute of Telecommunications internal project, 2010-2010); Main Researcher; total project funding 6K€.

Participation in funded scientific projects

Since 2000, he has participated or is participating as Researcher of several European or national scientific research projects. The list of projects is as follows:

- October 2017-October 2021: by appointment of the Portuguese Minister of Education and Science, representative of Portugal in the COST Action “Indoor living space improvement: Smart Habitat for the Elderly” (SHELD-ON) CA16226, funded by the COST Office through the European Science Foundation and through European Commission Horizon 2020 Program;
- January 2017-February 2017: Invited Researcher at the PIMRA *Procedure Innovative per il Monitoraggio Remoto della Attività motoria e cardiovascolare di soggetti in terapia riabilitativa a seguito di un incidente cardiovascolare, in ambiente ambulatoriale o domestic* (Innovative procedures for remote monitoring of motor and cardiovascular activities of subjects in rehabilitation therapy following a cardiovascular accident, at home or in an outpatient environment), Principal Investigator Dr. Ennio Gambi, *Università Politecnica delle Marche*, Ancona, Italy.
- September 2016-September 2018: Smarter Cardiac Sensing via Integrated Signal Processing (SmartHeart), IT internal project; the Principal Investigator is Miguel Coimbra (IT Porto), the project team members are Pedro Brandão (IT Porto), Hugo Silva (IT Lisbon), Nuno Garcia (IT Covilhã), Nuno Pombo (IT Covilhã) and Sandra Mattos (*Real Hospital Português*, Recife, Brazil); total project funding 58.810€;

- January 2014-December 2017: by appointment of the Portuguese Minister of Education and Science, representative of Portugal in the COST Action IC1307-“The European Network on Integrating Vision and Language (iV&L Net)”, funded by the COST Office through the European Science Foundation and through European Commission Horizon 2020 Program;
- April 2013-September 2014: by appointment of the Portuguese Minister of Education and Science, representative of Portugal in the action COST IC1002-“Multilingual and Multifaceted Interactive Information Access (MUMIA)”, funded by the COST Office through the European Science Foundation;
- 2013-2015: SIVIC: *Sistema Portátil Integrado de Vigilância Cardiovascular* / Wearable Integrated Cardiovascular Surveillance System (National Project, FCT PTDC/EEI-ELC/1838/2012, 2013-2015); Researcher; total project funding 195.083€;
- 2013-2014: Strategic project - LA 8 - 2013-2014 (National project reference PEst-OE/EEI/LA0008/2013; 2013-2014); Researcher; total project funding: 3,177,938.00€; (http://www.fct.pt/apoios/unidades/consulta/vglobal_projecto.phtml.en?idProjecto=132939&idElemConcurso=7582); total managed funds at IT: approx. 5K€;
- 2011-2012: Strategic project - LA 8 - 2011-2012 (National project reference PEst-OE/EEI/LA0008/2011; 2011-2012); Researcher; total project funding: 5.972.054€; (http://www.fct.pt/apoios/projectos/consulta/vglobal_projecto.phtml.en?idProjecto=123257&idElemConcurso=4652); total managed funds at IT: approx. 5K€;
- 2010: iDTV-HEALTH: Inclusive services to promote health and wellness via digital interactive television (National Project, UTA-Est/MAI/0012/2009, 2010-2013); Researcher; total project funding 185K€;
- 2010: ADOPT_DTV: Barriers to digital television adoption in the context of the digital switchover (National Project, FCT PTDC/CCI-COM/102576/2008, 2009-2010); researcher; total project funding 87.692€;
- March 2008-March 2012: Financial Rapporteur (elected) of the COST IC0703 action-“Traffic Monitoring and Analysis: theory, techniques, tools and applications for the future networks”;
- February 2008-March 2012: by appointment of the Portuguese Minister of Science and Technology, representative of Portugal in the action COST IC0703-“IC0703-“Traffic Monitoring and Analysis: theory, techniques, tools and applications for the future networks”, funded by the European Science Foundation;
- 2008: TRAMANET: Traffic and Trust Management in Peer-to -Peer Networks (National Project, FCT PTDC/EIA/73072/2006, 2008-2010); researcher; total project funding 80.400€;
- 2006-2007: Member of the expert list for the action COST IC0703-“Traffic Monitoring and Analysis: theory, techniques, tools and applications for the future networks” funded by the European Science Foundation and promoted by the *Forschungszentrum Telekommunikation Wien* (FTW), Austria;

- 2005: NSN OBS Optical Burst Switching (National Project, 2005-2008); researcher; total project funding n/a;
- 2004: CONDENSE: IPv4/IPv6-Compliant Optical Burst Switching Network Design with Enhanced Signalling Architectures (National Project, FCT POSC/EEA-CPS/60247/2004, 2004-2007); researcher; total project funding 32K€;
- 2000: ROLI Project, submitted by *Associação Portuguesa de Radiodifusão* to the POSI program; Project web site <http://www.radios.pt>; Coordinator. (National Project, 2000-2005); researcher; total project funding n/a;
- 2000: DELFIM, Portuguese Association of Professional Trainers; (National Project, 2000-2002); regional coordinator and researcher; total project funding n/a.

2.3. Scientific community recognition

Awards and Honours

Since 2005, he has been awarded the following awards and honours:

- October 2017: awarded a Short Term Scientific Mission grant from the COST IC1303 STSM Committee, with the value of 1400€;
- March 2017: Centennial Silver Lion award from the Lions International;
- March 2017: Classified as “Excellent” by the University of Beira Interior, for the 2014-2016 period, following the *Regulamento de Avaliação Docente-RAD*;
- January 2017: awarded a Short Term Scientific Mission grant from the COST IC1303 STSM Committee, with the value of 1500€;
- April 2016: Cisco Instructor Excellence Award 2015, Advanced Level, awarded to the performing top 25% Cisco Academy instructors world-wide;
- October 2015: semi-finalist at the “*Prémio Open Mind ESEGUR, Inovação no Setor da Segurança*”, with the project “Pre-alarm System”, mentoring the team of students composed by Hugo Rodrigues, David Séneca Ferreira, Filipe Delgado, Micael Costa, António Cunha;
- March 2015: Cisco Instructor Excellence 2014, awarded to the performing top 10% Cisco Academy instructors world-wide;
- July 2014: 2nd place award *Poliempreende* by the Polytechnic Institute of Castelo Branco, Portugal, a prize awarded to the team Márcia Andrade, Ivan Pires, Rute Crisóstomo and Nuno Garcia, for the project “Functional App Test”;
- April 2014: Classified as “Excellent” by the University of Beira Interior, for the 2011-2013 period, following the *Regulamento de Avaliação Docente-RAD*;

- April 2014: awarded an Early Stage Researcher Grant by the COST Office to attend the Epigenetics: From Bench to Bedside conference, held in Athens (Greece) from 05 to 08 May 2014;
- March 2014: Cisco Instructor Excellence 2013, awarded to the performing top 10% Cisco Academy instructors world-wide;
- January 2008: Best Paper Award to the paper "The Ethernet frame payload size and its effect on IPv4 and IPv6 traffic", Nuno M. Garcia, Mário M. Freire, Paulo P. Monteiro, published The International Conference on Information Networking 2008 (ICOIN 2008), 23-25 January 2008, Busan, South Korea;
- January 2005-December 2007: Doctoral scholarship awarded by the *Fundação para a Ciência e Tecnologia* (Portuguese Science and Technology Foundation - FCT) and by Siemens SA / Nokia Siemens SA (grant number SFRH/BDE/15527/2004);
- March 2006: with Paulo P. Monteiro and Marek Hajduczenia, receives the Siemens Innovation and Excellence R&D Award 2005, for their work on self-similarity of data signals;
- April 2005: following a proposal of the Scientific Council of the *Universidade da Beira Interior*, receives the award of best graduate student of Mathematic and Computer Science in the year of 2004;
- 2014-2016: Several productivity prizes awarded by IT in a total value of 14.125€ as a result of the publication of papers in international magazines or journals indexed by ISI Web of KnowledgeSM and because of the publication of books in international scientific publishers.

Editorial activity in scientific magazines or journals

He is member of the Editorial Review Board of the International Journal of E-Health and Medical Communications (IJEHMC), published by IGI-Global. He is also co-editor in Special Issues of indexed ISI Web of Knowledge magazines, as described in sub-section 2.1.6.

Reviewing activity in scientific magazines or journals

He has performed reviews in the following scientific magazines or journals:

- Reviewer for the Journal of Sensor and Actuator Networks, MDPI (not indexed);
- Reviewer for the European Journal of Information Systems (Q1 Information Systems, H Index 76), Palgrave Macmillan Ltd.;
- Reviewer for the IEEE Access Magazine (Q1 Computer Science, H Index 12), IEEE;
- Reviewer for the IEEE Communication Magazine (Q1 Computer Networks and Communications, H Index 170), IEEE;

- Reviewer for the IEEE Sensors Journal (Q1 Instrumentation, H Index 69), IEEE;
- Reviewer for the IET Communications (Q3 Computer Science Applications, H Index 45), The IET;
- Reviewer for the International Journal of Communication Systems (Q2 Computer Network and Communications, H Index 28), John Wiley & Sons;
- Reviewer for the Computer Networks journal (Q2 Computer Networks and Communications, H Index 93), Elsevier;
- Reviewer for the Journal of Optical Networking (Q2 Computer Networks and Communications, H Index 39), Optical Society of America;
- Reviewer for the Optical Switching and Networking journal (Q2 Computer Networks and Communications, H Index 19), Elsevier;
- Reviewer for the ComputerReviews.com, an affiliated of the Association for Computing Machinery (ACM), with several published reviews;
- Reviewer for the eLearning Europa publications (<http://www.elearningeuropa.info>, <http://www.elearningpapers.eu>).

Technical Program Committee participation

He is or was member of over 100 Technical Program Committees for international scientific conferences. The detailed list of these conferences can be found in ANNEX A-Detailed peer reviewing activities.

Coordination of committees of scientific events

He is or was coordinator or co-coordinator of the following scientific events:

- SMARTHEART: Real-time technologies for cardiac signal processing, Workshop Co-Chair, Rome, Italy, 3-7 May 2018, to be held in conjunction with the 26th European Signal Processing Conference EUSIPCO 2018 (www.eusipco2018.org);
- Workshop on Protocols, Applications and Platforms for Enhanced Living Environments, PAPELE 2017, Workshop Co-Chair, Lisbon, Portugal, 8 May 2017, to be held in conjunction with IFIP/IEEE International Symposium on Integrated Network Management IM 2017 (<http://papele.eu/>);
- The third edition of the International Workshop on Enhanced Living Environments, ELEMENT-2016, Workshop Co-Chair, in conjunction with 2016 IEEE 12th International Conference on

Intelligent Computer Communication and Processing (ICCP 2016), 8 September 2016, Cluj-Napoca, Romania (<http://aapele.eu/element2016/>);

- The second edition of the International Workshop on Enhanced Living Environments, ELEMENT-2015, Workshop Co-Chair, in conjunction with ICT Innovations 2015, 1-3 October 2015, Ohrid, Macedonia (<http://www.aapele.eu/element2015/>);
- The first edition of the International Workshop on Enhanced Living Environments, ELEMENT-2014, Workshop Co-Chair, in conjunction with the 6th International Conference on Mobile Networks and Management (MONAMI 2014), 24 September 2014, Würzburg, Germany (<http://www.aapele.eu/element2014/>);
- Session Chair in The Sixth IEEE and IFIP International Conference on Wireless and Optical Communications Networks (WOCN2009), 28 - 30 April 2009, Cairo, Egypt.

Participation on committees of scientific events

He is or was member of the committees for the following scientific events:

- Member of the Committee for the COST Connect on Next Generation Internet (NGI), COST Association, 12-13 September 2017, Brussels, Belgium;
- Member of the Scientific Committee for the AAL/COST/MYBL workshop on Ageing and Technologies, COST Association, 9-10 February 2017, Brussels, Belgium;
- Member of the Organizing Committee for the COST Action IC1303 AAPELE Working Group 3 meeting in St. Gallen, 27 September 2016, St. Gallen, Switzerland;
- Member of the Organizing Committee for the COST Action IC1303 AAPELE Working Group 3 meeting in London, 11-12 June 2015, London, England;
- Member of the panel The Next Generation Internet - Finding Solutions to the Problems of Evolution and Migration Path for a Mobile Planet in the The Sixth IEEE and IFIP International Conference on wireless and Optical Communications Networks (WOCN2009), 28 - 30 April 2009, Cairo, Egypt.

He is also member of the Elsevier Advisory Panel.

Activity as evaluator of scientific projects

He has acted as evaluator for the following organizations:

- 2017 - Appointed as member of the panel of evaluators for the Bulgarian National Science Fund;
- 2017 - Appointed as member of the evaluation panel for the RIPE NCC Community Projects Fund (<https://www.ripe.net/support/cpf/ripe-ncc-community-projects-fund>);

- 2014 - Appointed as Expert in the evaluation panel for new COST Actions, COST Office and COST Association, Brussels, Belgium;
- 2014 - Appointed as Reviewer to the competitive research-funding program Impulse Fund, University of Leuven, Belgium.

Activity as invited speaker in scientific events

He has been invited as speaker or as keynote talk at the following scientific events:

- Research and challenges for AAL, *Jornadas de Bioengenharia*, UBI, 3 May 2017, Covilhã, Portugal;
- The vision for a Personal Digital Life Coach, *Jornadas de InfoWeb*, UBI, 5 April 2017, Covilhã, Portugal;
- Research on Biosignals at ALLab, *VIII Jornadas Nacionais de Ciências Biomédicas*, UBI, 9 March 2017, Covilhã, Portugal;
- PDLC Personal Digital Life Coach, Università Politecnica delle Marche, 16 February 2017, Ancona, Italy;
- Biosignal collection with BITalino, Università Politecnica delle Marche, 6 February 2017, Ancona, Italy;
- Expectances for AAL for the next 10 and 20 years, invited speaker at the special session Expectances for AAL and Enhanced Living Environments for 2025/2030, AAL Forum 2016, 28 September 2016, St. Gallen, Switzerland;
- *Medir biosinais: resultados recentes e investigação actual no ALLab* (Measuring biosignals: recent results and current research at ALLab), invited speaker, NINF, UBI, 24 November 2016, Covilhã, Portugal;
- *Sessão Final da 5ª edição do Fórum para a Sociedade da Informação - Governação da Internet*, member of the invited panel, co-organized by FCT, ANACOM, APDSI, DNS.PT, ERC, IAPMEI and by the Portugal ISOC Chapter, 23 November 2016, Lisbon, Portugal;
- Net neutrality, IANA transition, ICANN accountability, invited panel member, Internet Society Portugal Chapter, 12 May 2015, Lisbon, Portugal;
- Innovation in Health and Wellbeing: A Roadmap to the Design of a Personal Digital Life Coach, Keynote talk, World Usability Day event, University of Tallinn, 13 November 2015, Tallinn, Estonia;
- A Roadmap to the Design of a Personal Digital Life Coach, Keynote Speaker, The 7th International Conference covering topics in ICT Innovations, 1-4 October 2015, Ohrid, R. Macedonia;

- The change and challenge of the Internet: Internet governance, the governments and the politics on the Internet, Invited speaker, Open class, *Universitatea de Vest din Timișoara*, 10 November 2015, Timisoara, Romania;
- Net neutrality, IANA transition, ICANN accountability, invited panel member, Internet Society Portugal Chapter, 12 May 2015, Lisbon, Portugal;
- The Penitentiary Systems in Intelligent Society: challenges and opportunities, Technology and modernization opportunities of the penitentiary systems, B2CITIZens Association, 13 January 2015, Lisbon, Portugal;
- Internet Governance: current multistakeholder model, future trends and call for action, *Universitatea de Vest din Timișoara, Institut de Cercetare Asociat Facultății de Științe Politice, Filosofie și Științe ale Comunicării*, 21 January 2015, Timișoara, Romania;
- eHealth and Big Data, Polytechnic Institute of Portalegre, Operations Research and Big Data (OR&BD2014), 9 September 2014, Portalegre, Portugal;
- Presentation of the research of ALLab and EyeSeeLab, invited speaker, Department of Electronics and Multimedia Communications, Faculty of Electrical Engineering and Informatics, Technical University of Kosice, 24 April 2014, Kosice, Slovakia;
- *Governança da Internet* (Internet Governance), *Fórum para a Sociedade da Informação*, panel member, 4th June 2014, Lisbon, Portugal;
- Is Internet Access a Human Right?, invited speaker, Workshop 4, EuroDIG 2013, Lisbon, Portugal;
- Ambient Assisted Living (AAL), invited speaker, *II Jornadas de Bioengenharia* (II Bioengineering Conference), 15 May 2013, UBI, Covilhã, Portugal;
- Internet Governance, invited panel member, Portuguese Internet Governance Forum, FCT and Internet Society ISOC Portugal, 10 July 2012, Lisbon, Portugal;
- Challenges and Opportunities in Ambient Assisted Living, invited Poster, Nuno M. Garcia, PEMED, COST Conference on Personalised Medicine: Better Healthcare for the Future, 17-22 June 2012, Larnaca, Cyprus (available at <http://www.cost.eu/download/pemedposters>);
- Internet of the Future, invited speaker, Nuno M. Garcia, 14 October 2011, PhD Seminar invited talk, Addis Ababa University, Addis Ababa, Ethiopia (available at http://allab.it.ubi.pt/download.php?d=Future_Internet.pdf);
- Traffic Monitoring and Analysis, communication, Nuno M. Garcia, 8 February 2011, invited speaker, SITI Brainstorm Sessions, ULHT, Lisbon, Portugal (available at http://recil.ulusofona.pt/bitstream/handle/10437/1272/traffic_analysis.pdf?sequence=1);
- Mobile computing activities with wireless sensors at PLUX, invited speaker at an open class, Nuno M. Garcia, 12 December 2009, *Escola Superior de Tecnologia da Guarda*, IPG, Guarda, Portugal;

- Future Scenary for Video over IP Transport Networks (*Redes de Transporte de Vídeo sobre IP: Cenários de Futuro*), TDT - *Seminário de Alta Definição / Broadcast Digital*, invited speaker, Nuno M. Garcia, 28 January 2009, *Audatório Victor de Sá - Biblioteca Universitária*, ULHT, Lisbon, Portugal;
- Architectures and Algorithms for IPv4/IPv6-compliant Optical Burst Switching Networks, invited speaker at an open class, Nuno M. Garcia, 17 December 2008, ULHT, Lisbon, Portugal.

3. Teaching and pedagogical activities

3.1. Teaching activities

Since 2012, teaching activities at the university level have been mostly focused on Computer Networks, Internet Technologies and Final Project courses at the undergraduate level, on Software Engineering and Advanced Networks at the MSc level, and on Advanced Topics for Engineering, Biosignal Processing and Ambient Assisted Living at the PhD level.

A small resume of these activities can be described as follows, in chronological order for the starting of the activities, still on-going:

- 2007-today: teaching undergraduate BSc, MSc and PhD courses at UBI (since 2010), BSc courses at ULHT (since 2007);
- 2010-today: instructor at the Cisco Academy at UBI;
- 2010-today: trainer at the *Centro de Formação da Associação de Escolas da Beira Interior*;

and, for activities currently terminated:

- 2007-2016: teaching undergraduate BSc courses at UAL, PhD courses at Addis Ababa University (Addis Ababa, Ethiopia) and MSc courses at IPG
- 2006-2008: instructor for several modules at the post-secondary level V technologic specializations course (*Curso de Especialização Tecnológica - CET*);
- October 1987 - August 1994, April 2002 - August 2002: Computer Science teacher and Computer Science group leader at secondary high schools, Covilhã, Portugal.

In the second semester of 2015/2016 there were no teaching activities at UBI as he allowed to have a sabbatical leave for that semester.

Detailed class names and courses taught can be found in the table in ANNEX B-Detailed teaching activities.

Coordination of curricular units in BSc courses

Since 2007/2008 he has coordinated sixteen curricular units at BSc courses, spanning very different topics in Computer Science, from Communication and Information Systems for the BSc course in Nursing, to Programming for the BSc courses in Computer Science Engineering, Management Informatics, Bioengineering and Biomedical Sciences, passing by Computer Networks and Software Engineering to the Computer Science Engineering BSc course.

Weighting the topics taught with the sum of the number of students, Table 1 can present an approximate estimation of the teaching effort by scientific area.

Table 1 - summary of teaching activities coordinated in BSc courses.

Topic / Area	Number of students	Number of curricular units	Number of semesters
Computer Networks	863	9	19
Programming	834	4	10
Software Engineering	165	3	6
Databases	138	1	1
Project (all areas)	40	1	1
Medical Informatics	4	1	1

The first column describes the area of Computer Science where the different curricular units were taught, the second column contains the number of students in this area, the third and fourth columns contain the number of curricular units considered for each area and the number of semesters where these units were taught.

The files for the curricular units taught in the last 2 years can be viewed in ANNEX C.

Coordination of curricular units in MSc and post-graduate courses

Since 2007/2008 he has coordinated eleven curricular units at MSc and post-graduate courses, spanning mostly three areas in Computer Science: Computer Networks, Programming and Software Engineering. The following table, sorted by number of students, summarizes the coordination activities in curricular units for MSc and post-graduate courses. The column contents are similar to Table 1.

Table 2 - summary of teaching activities coordinated in MSc courses.

Topic / Area	Number of students	Number of curricular units	Number of semesters
Computer Networks	122	5	8
Software Engineering	91	5	7
Programming	22	2	3

The files for the curricular units taught in the last 2 years can be viewed in ANNEX C.

Coordination of curricular units in PhD courses

Since 2014/2015 he has coordinated 2 curricular units at the PhD course on Computer Science Engineering at UBI, focusing on the areas of Ambient Assisted Living and on Biosignal Processing. Additionally, he has been invited to coordinate the curricular unit of Advanced Topics in Computer Science at the PhD course on Computer Engineering, Software Engineering track, Addis Ababa University, Addis Ababa, Ethiopia. Additional details can be found in ANNEX B-Detailed teaching activities.

The files for the curricular units taught in the last 2 years can be viewed in ANNEX C.

Other pedagogic activities in curricular units

The details for the teaching activities can be found in ANNEX B-Detailed teaching activities. The following table presents a summary of the curricular units taught while being coordinated by another colleague. The data is organized in similar order as for Table 1.

Table 3 - summary of other teaching activities while being coordinated.

Topic / Area	Number of students	Number of curricular units	Number of semesters
Programming	386	2	7
Computer Networks	327	5	8
Project (all areas)	139	1	14
Databases	48	1	1

Evaluation of the pedagogic activity and approval rates

The University of Beira Interior has implemented a quality assurance system that is partially based on questionnaires that students are invited to fill when each semester ends. One of the questionnaires students are asked to reply is focused on the assessment of the student's perception of the teacher. From 2010/2011 until 2012/2013 this questionnaire had 10 statements with which the student could agree or not. In 2013/2014 the questionnaire had only 6 statements that can be mapped to statements 1, 2, 6, 7, 8 and 9 of the previous years. These questionnaires had 4 possible replies: 'totally disagree', 'disagree', 'agree' and 'totally agree'. The original Portuguese statements and their translation to English are shown in Table 4.

In 2014/2015 and 2015/2016, there is a new set of 9 statements and the assessment grid has now 7 options, from 1 meaning 'totally disagree', to 7 meaning 'totally agree'.

The new set of statements is shown in Table 5. The first column contains the original statement in Portuguese and the second column contains their translation into English.

Table 4-statements in quality assessment questionnaires, 2010/2011 to 2012/2013.

Original statement in Portuguese	English translated statement
1. <i>O/A docente cumpre o horário estabelecido para as aulas</i>	The teacher respects the class schedule
2. <i>O/A docente está disponível para atender/apoiar os estudantes no horário estabelecido</i>	The teacher is available to talk to / support students in the defined office hours
3. <i>O/A docente aborda com clareza os conteúdos programáticos</i>	The teacher addresses clearly the course subjects
4. <i>O/A docente dedica aos conteúdos programáticos o tempo suficiente para a sua compreensão</i>	The teacher gives the course subjects the adequate amount of time to allow its comprehension
5. <i>Nas suas explicações, o/a docente tem em conta o nível de conhecimentos dos estudantes</i>	In his/her explanations, the teacher keeps in mind the level of knowledge of the students
6. <i>As aulas estão bem preparadas e organizadas</i>	Classes are well prepared and organized
7. <i>O/A docente estimula a participação e o pensamento crítico dos estudantes</i>	The teacher stimulates student's participation and critical thinking
8. <i>O/A docente estabelece uma relação de respeito com os estudantes</i>	The teacher establishes a relation of respect with the students
9. <i>O/A docente analisa com os estudantes os resultados da avaliação e esclarece dúvidas</i>	The teacher analyses the results of the evaluation with the students and clears existing doubts
10. <i>Em geral, estou satisfeito(a) com a leção do(a) docente</i>	In general, I am happy with this teacher's classes

The University's *Regulamento de Avaliação Docente (RAD)* (Teachers Assessment Regulation) foresees two thresholds, the first one when responses are at least 80% positive (sum of the 'agree' and 'totally agree' replies) and the second one when positive responses are between 50% (inclusive) and 80% (exclusive).

For 2014/2015 and 2015/2016 questionnaires, RAD is not clear as it has not been applied yet, therefore, it is assumed that totally positive replies correspond to replies ranging from 5 to 7 in the initial 1 to 7 scale.

Table 5-statements in quality assessment questionnaires, 2013/2014 onward.

Original statement in Portuguese	English translated statement
1. <i>Estabelecimento das regras de funcionamento e de avaliação da UC, no início do semestre/ano</i>	Establishment of the working and assessment rules of the curricular unit at the beginning of the year
2. <i>Organização e estruturação dos conteúdos e atividades da UC</i>	Organization and structure of the contents and activities of the curricular unit
3. <i>Clareza na exposição dos conteúdos programáticos</i>	Clarity while discussing the curricular unit syllabus
4. <i>Cumprimento dos horários estabelecidos para as aulas</i>	Respect of the class schedule
5. <i>Promoção da reflexão crítica dos estudantes</i>	Promotion of the critical thinking of the students
6. <i>Disponibilidade para o atendimento aos estudantes</i>	Availability to receive students in office hours
7. <i>Utilização das tecnologias de informação e comunicação (Moodle, páginas web, e-learning, etc.)</i>	Use of information and communication technologies (Moodle, web pages, e-learning, etc.)
8. <i>Respeito pelos estudantes</i>	Respect for students
9. <i>Cumprimento das regras de funcionamento e de avaliação acordadas com os estudantes</i>	Abiding the working and assessment rules agreed with the students

Table 6 and Table 7 show the ratios of responses for of all replies for the curricular units taught from 2010/2011 until 2013/2014 and from 2014/2015 to 2015/2016, respectively. It can be seen that except for the case of the statement 7 for the year 2012/2013 (72.73%) all the replies are over the 80% threshold.

As to the approval rates, Table 8 shows the ratios of approved / enrolled and approved / evaluated for the curricular units taught at UBI since 2010. The difference between these two ratios is that not all students that enrol are evaluated. As Table 8 shows, the smallest approval ratio for approved / enrolled is 67.5%, for the Project curricular unit. All the students who did not approve at this curricular unit were never subjected to evaluation although they were formally admitted to exam, due to the particular characteristics of this curricular unit. The smallest approval approved / evaluated ratio is 71.43% for the curricular unit Topics on Processing Biosignals, a Computer Science Engineering PhD course curricular unit. In this case, from the seven enrolled students, two failed to deliver the final assessment, and therefore were not approved.

In Table 8 the first column contains the school year, the second column contains the abbreviation and semester of the curricular units taught (1S standing for 1st Semester, and 2S standing for 2nd Semester), the third column contains the abbreviation of the names of the courses the curricular unit belongs to, and the fourth and fifth columns contain the ratios for number of approved students over number of enrolled students and number of approved students over number of evaluated students.

The abbreviations and initialisms are included in the respective sections at the beginning of this document.

Table 6-ratios of replies to quality assessment questionnaires, 2010/2011 to 2013/2014.

English translated statement	Ratio of totally agree + agree over total replies			
	2010/2011	2011/2012	2012/2013	2013/2014
1. The teacher respects the class schedule	98,04%	100,00%	100,00%	100,00%
2. The teacher is available to talk to / support students in the defined office hours	98,00%	100,00%	100,00%	100,00%
3. The teacher addresses clearly the course subjects	92,16%	87,50%	90,91%	n/a
4. The teacher gives the course subjects the adequate amount of time to allow its comprehension	92,00%	87,50%	100,00%	n/a
5. In his/her explanations, the teacher keeps in mind the level of knowledge of the students	94,12%	93,75%	100,00%	n/a
6. Classes are well prepared and organized	86,27%	87,50%	72,73%	100,00%
7. The teacher stimulates student's participation and critical thinking	94,12%	93,33%	100,00%	100,00%
8. The teacher establishes a relation of respect with the students	98,04%	100,00%	100,00%	100,00%
9. The teacher analyses the results of the evaluation with the students and clears existing doubts	97,92%	100,00%	100,00%	n/a
10. In general, I am happy with this teacher's classes	98,04%	93,75%	90,91%	100,00%

Table 7 - ratios of replies to quality assessment questionnaires, 2014/2015 to 2015/2016.

English translated statement	Ratio of totally agree + agree over total replies	
	2014/2015	2015/2016
Establishment of the working and assessment rules of the curricular unit at the beginning of the year	100,00%	100,00%
Organization and structure of the contents and activities of the curricular unit	100,00%	100,00%
Clarity while discussing the curricular unit syllabus	100,00%	92,31%
Respect of the class schedule	100,00%	100,00%
Promotion of the critical thinking of the students	100,00%	92,31%
Availability to receive students in office hours	100,00%	100,00%
Use of information and communication technologies (Moodle, web pages, e-learning, etc.)	100,00%	100,00%
Respect for students	100,00%	100,00%
Abiding the working and assessment rules agreed with the students	100,00%	100,00%

Table 8-Approved over Enrolled and Approved over Evaluated approval ratios, UBI.

Year	CU (Semester)	Course name	App / Enr	App / Eval
2010/2011	ASI (1S)	MEI	100,00%	100,00%
	RSI (2S)	EI	76,27%	76,27%
	TRI (1S)	TSI	85,71%	97,30%
2011/2012	TI (1S)	TSI+EI	74,73%	76,40%
	AS (1S)	TSI	85,00%	100,00%
	SD (2S)	EI	83,72%	87,80%
	TRI (1S)	TSI	84,21%	88,89%
2012/2013	ASI (1S)	MEI	96,77%	100,00%
	TI (2S)	TSI+EI	72,53%	91,67%
	RSI (2S)	EI	78,72%	84,09%
2013/2014	AdmS (1S)	TSI	92,31%	100,00%
	RedTel (1S)	TIC4TELCO	100,00%	100,00%
	InfMed (2S)	BioEng	100,00%	100,00%
	RSI (2S)	EI	81,03%	92,16%
	TRI (1S)	TSI	70,00%	100,00%
2014/2015	AVA (1S)	PhD EI	77,78%	77,78%
	RC (1S)	EI	81,67%	87,50%
	RedTel (1S)	TIC4TELCO	100,00%	100,00%
	TPB (1S)	PhD EI	71,43%	71,43%
	Proj (2S)	EI	67,50%	75,00%
	RSI (2S)	IW	76,19%	88,89%
	TCD (2S)	MEI	100,00%	100,00%
	TRI (2S)	TSI	100,00%	100,00%
2015/2016	AVA (1S)	PhD EI	100,00%	100,00%
	Prog (1S)	CieBio+BioEng	99,24%	99,24%
	RC (1S)	EI	86,89%	91,38%
	TPB (1S)	PhD EI	100,00%	100,00%

Considering the sum of all enrolled, evaluated and approved students, the average is 84.23% and 90.02% for the approved / enrolled and approved / evaluated ratios, respectively.

3.2. Pedagogic Activities

Production of teaching materials

The Computer Science department at UBI provides an anchor for professors to host their professional websites. UBI also provides an online Moodle platform to host and manage classes, nevertheless, the content published inside Moodle is not available to students that are not registered at UBI, making this unsuitable to use with ERASMUS students who sometimes face administrative registration problems and also creating difficulties to the dissemination of produced content. Therefore, a choice was made to host the teaching documents at <http://www.di.ubi.pt/~ngarcia>.

At this website, several links are standard for each curricular unit. At the start page, a link to facilitate the schedule of meetings with students is provided. In each curricular unit page, several links and contents are stored, including:

- a) Link to an online form to record student registration data;
- b) Link to an online form to record the student attendance at a particular class;
- c) Files with theoretical notes;
- d) Files with practical laboratory exercises;
- e) Files with practical exercises solution sheets;
- f) Files with frequency tests and/or exams with solutions;
- g) An online spreadsheet with current grades for students;
- h) An online spreadsheet to allow the scheduling of defences of practical assessments;
- i) Files with live recordings of classes.

To ensure that the students attend the minimum number of classes as defined in the curricular unit's assessment criteria, the recording of a student's attendance to any particular class is made by means of an online form. At the end of each class, the professor announces a unique "class word", that the student must use afterwards as proof of his/her attendance in the classroom. The method is not infallible, but neither are the classical paper attendance sheets that need to be signed. At the end of the semester, the data is collected from the online spreadsheet and adequate filters are applied to identify the students' attendance numbers.

As support of the coordinated curricular units, and following the before mentioned procedures, he has produced documentation to support presential and remote classes as shown in Table 9. The first column described the name of the curricular unit; the second column describes the last published year; the third column describes the items that were produced and are available in the curricular unit's web page. Except when noted, these contents are hosted at the Computer Science Department at UBI, accessible at the web address <http://www.di.ubi.pt/~ngarcia/aulas.html>.

Table 9 - produced teaching materials for the coordinated curricular units.

Curricular unit	Last published year	Produced materials								
		a	b	c	d	e	f	g	h	i
Computer Networks	2017/2018	✓	✓	✓	✓	✓	✓	✓	✓	
Implementation (*)	2016/2017	✓	✓	✓	✓	✓	✓	✓	✓	✓
Programming	2017/2018	✓	✓	✓	✓	✓	✓	✓	✓	
Administration of System in Networks	2017/2018	✓	✓	✓	✓		✓	✓	✓	
Safety Issues and Regulations (*)	2016/2017	✓	✓	✓	✓	✓	✓	✓	✓	✓
Advanced Topics in Computer Science	2015/2016			✓						
Cloud and Data Center Technologies	2014/2015	✓	✓	✓		✓	✓			
Networks and Internet Services	2014/2015	✓	✓	✓	✓		✓	✓		
Telecommunications Networks	2014/2015	✓	✓	✓	✓		✓	✓		
Computer Networks Technologies	2013/2014	✓	✓	✓	✓		✓	✓		
System Administration	2013/2014	✓	✓	✓	✓		✓	✓		
Analysis of Information Systems	2012/2013	✓		✓	✓					
Internet Technologies	2012/2013	✓	✓	✓	✓	✓	✓	✓		
Ubiquitous Computing	2012/2013			✓						
Databases	2009/2010			✓						

(*) published at the Blackboard platform hosted by the University of Zuid.

3.3. Evaluation of the BSc course in Computer Science Engineering from A3ES

In the 2012/2013 school year, the Portuguese agency for accreditation, A3ES, started the accreditation process for the undergraduate course of Computer Science Engineering. While Course Director, he coordinated the process of compilation, insertion and validation of the information of the Computer Science Engineering BSc course. He also attended the presential meetings with the A3ES Accreditation Committee during their visit to UBI. As a result, the Computer Science Engineering course was accredited for the period of 5 years.

3.4. Innovating in and adding value to teaching activities

Proposed new or reformulated curricular units or short courses

He has defined or coordinated the team that defined the syllabus of the following curricular units (or courses):

- New curricular unit on *Dispositivos médicos e interoperabilidade* (Medical devices and interoperability), 1st curricular year of the Master Course in Tele-Health (submitted to approval), UBI, 2016;

- New curricular unit on eHealth 3.0, 1st curricular year of the Master Course in Tele-Health (submitted to approval), UBI, 2016;
- New course on Research Methods in Human-Computer Interaction, Training School, managed by Tallinn University, Tallinn, Estonia, held in Dubrovnik, Croatia, the 11-15 July 2016, 2016;
- New course on AAL, AAPELE Training School, managed by *Université Toulouse 3 Paul Sabatier*, Castres, France, held in Castres, France, 29 June-1 July 2015;
- New curricular unit on Implementation, 2nd curricular year of the Master of Science in Care and Assistive Technology course, joint degree from the universities of Fontys (Nederland), Zuyd (Nederland), Saxion (Nederland), Satakunta (Finland), Tampere (Finland), and UBI (Portugal), curricular unit coordinator, 2015;
- Reformulated curricular unit on *Programação* (Programming), 2nd curricular year of the Bachelor of Science course in Bioengineering, and also 2nd curricular year of the Bachelor of Science course in Biomedical Sciences, UBI, curricular unit coordinator, 2015;
- New curricular unit on Safety Issues and Regulations, 2nd curricular year of the Master of Science in Care and Assistive Technology course, joint degree from the universities of Fontys (Nederland), Zuyd (Nederland), Saxion (Nederland), Satakunta (Finland), Tampere (Finland), and UBI (Portugal), curricular unit team leader, 2015;
- New short course on *Introdução à Programação em Python* (Introduction to programming in Python), Summer Course, UBI, 2015;
- New curricular unit on *Redes de Computadores* (Computer Networks), 2nd curricular year of the Bachelor of Science course in Computer Science Engineering course, UBI, curricular unit coordinator, 2013;
- New curricular unit on *Programação para dispositivos móveis* (Programming for mobile devices), Web Informatics BSc course, UBI, 2013;
- New curricular unit on *Tecnologias de Cloud e Data Center* (Cloud Computing and Data Center Technologies), 1st curricular year of the Master of Science course in Computer Science and Engineering course, University of Beira Interior, curricular unit coordinator, 2012.

Creation of new teaching laboratories

Cisco Academy classrooms

After the creation of the Cisco Academy at UBI, it was important to create a laboratory to support the classes for the Cisco Networking academy curricula. As the starting budget for the Cisco Academy was null, in 2012 and in 2013, he celebrated agreements with AFTEBI and with LIDL in order to receive equipment that was donated to the university and now is installed in the two Cisco Academy classrooms at CFIUTE, UBI. In total, the Cisco Academy classrooms have installed the following equipment:

- 6 IBM servers including model X342, X346, X346 and 8671-7AX

- 6 CISCO Routers 2501
- 12 CISCO Switches including models WS-CZ950G-Z9-EZ, WS-C3548-XL-EM, Catalyst 2900 XL, Catalyst Express 500 and 3500.

The two Cisco Academy classrooms located at CFIUTE now support the activities of the Cisco Academy, but also serve as teaching laboratories to other courses taught in the Computer Science Department, e.g. the course TIC4TELCO, and in CFIUTE.

Additional network equipment has been installed in the Networks Laboratory in the building of the Computer Science Department. Here the lab has received the following equipment:

- 9 Cisco Routers 1941
- 9 Cisco Switches Catalyst 2960 Plus

Assisted Living Computing and Telecommunication Laboratory

As of the creation of the ALLab, it was necessary to equip the laboratory with the equipment to pursue its research goals. The initial equipment was purchased with the support of the *Instituto de Telecomunicações* through the project CIFANG. Additional equipment was purchased with internal projects funding and with funding from international and national projects such as TICE.Healthy or UBI-BioSignals. The equipment is currently installed in room 6.9 of the Pole 6 building of UBI and includes the following:

- Biosignal acquisition devices: 3 BioPlux devices (two devices with 8 channels, one device with 4 channels), 12 BITalino devices
- Printers: 1 Ultimaker 3D printer, 1 ink-jet printer with scanner, 1 laser printer
- Computers: 12 laptop computers, 3 servers
- Other support equipment: 1 data show, 1 soldering station, 3 multimeters, and 2 UPS.

Proposed new courses

He was member of the team that created the following courses:

- *Tele-Saúde* (Tele-health), a MSc course to be deployed at UBI in 2017/2018. This course has been submitted to the approval of the A3ES - *Agência de Avaliação e Acreditação do Ensino Superior*;
- Care and Technology, a MSc course deployed in 2016/2017 by the universities of Fontys (Nederland), Zuyd (Nederland), Saxion (Nederland), Satakunta (Finland), Tampere (Finland), and UBI (Portugal). He was member of the team that created the course curriculum, where the classes are taught in a mixed online and presential manner, as the students get to spend one campus week

in all the universities that are part of the MSc consortium; the Master in Care and Technology was approved by the Dutch higher education authority. <http://www.master-ct.eu/>;

- *Tele-Saúde* (Tele-health), a post-graduate course to be deployed by the University of Limoges, France, and UBI. This course was expected to start in 2016/2017, but its start was delayed to 2017/2018. The course was approved by the French higher education authority. <https://www.ubi.pt/curso/1011>;
- *Informática Web* (Web Informatics), a BSc course started in 2014 at UBI. He was part of the team that created the proposal for the curriculum of the course. <https://www.ubi.pt/curso/969>.

Public Database

As support to the research activities at ALLab, the collected data in experiments is anonymized, annotated and published in the ALLab public repository. This is done as a contribute to foster additional research but also to allow the replication of the research carried out at ALLab. The UBI-Biosignals database was published in 2014, but includes data from the first experiments in 2010. The published files contain data for accelerometry, electrocardiography, electromyography, and electrodermal activity collected in humans, among others. The UBI-Biosignal database is referenced in the papers that disclose the research that originated the data. The files can be found in a wiki-like structure hosted at https://allab.it.ubi.pt/mediawiki/index.php/Main_Page.

Activity as invited speaker in pedagogic events

He has been invited as speaker or to give a keynote talk at the following pedagogic and/or dissemination events:

- My COST experiences, *Fundação para a Ciência e Tecnologia*, University of Aveiro, 4 March 2015, Aveiro, Portugal;
- E-Recruitment - *Plataformas digitais de apoio ao emprego* (E-Recruitment-digital platforms for employment support), communication, Pombo N., Garcia N., 15 May 2014, seminar invited talk, *2ª Feira do Emprego e do Empreendedorismo, Instituto Politécnico de Castelo Branco* (Polytechnic Institute of Castelo Branco) (IPCB-ESGIN), Idanha-a-Nova;
- *Profissões com Futuro-investigação no ALLab e EyeSeeLab* (Professions with Future-research at ALLab and EyeSeeLab), communication, Pombo N., Garcia N., 16 May 2014, seminar invited talk, Feira de Ensino, Empreendedorismo, Emprego e Juventude, 16 May 2014, Celorico da Beira, Portugal;
- *Segurança na Internet* (Security in the Internet), communication, Tiago Simões, Alexandre Pinheiro, Nuno M. Garcia, Internet Safety Week, *Escola Secundária Campos Melo* (ESCM), February 2012, Covilhã, Portugal;

- Wearable wireless device for interface control, poster, Nuno M. Garcia, Rafael Couto, Alexandre Pinheiro, 27 September 2011, Health Innovation & Technology Transfer Showcase, University of Minho, Braga, Portugal (available at http://allab.it.ubi.pt/images/documents/A2_Wearable_wireless_device_for_interface_control_EN.pdf);
- *Sistema de interação Mista Web+SMS para monitorização e treino de estilos de vida* (Mixed Web+SMS interaction system for monitoring and training of life styles), poster, Nuno M. Garcia, Rafael Couto, Alexandre Pinheiro, Francisco Viana, 27 September 2011, Health Innovation & Technology Transfer Showcase, University of Minho, Braga, Portugal (available at http://allab.it.ubi.pt/images/documents/A2_Sistema_de_Interac%C3%A7%C3%A3o_Mista_Web_SMS_para_Monitoriza%C3%A7%C3%A3o_Treino_Estilos_Vida_PT.pdf);
- *Estimação de gasto energético durante actividade física* (Estimation of energy expenditure during physical activity), poster, Virginie Felizardo, Pedro Diniz Gaspar, Nuno M. Garcia, 27 September 2011, Health Innovation & Technology Transfer Showcase, University of Minho, Braga, Portugal (available at http://allab.it.ubi.pt/images/documents/A2_Estimacao_do_gasto_energetico_durante_actividade_fisica.pdf);
- *Auto-semelhança de ECG no diagnóstico de patologias cardíacas* (ECG self-similarity in the diagnostic of cardiac pathologies), poster, Paula Sousa, Nuno M. Garcia, Miguel Castelo Branco, 27 September 2011, Health Innovation & Technology Transfer Showcase, University of Minho, Braga, Portugal (available at http://allab.it.ubi.pt/images/documents/A2_Auto_semelhan%C3%A7a_de_ECG_no_diagn%C3%B3stico_de_patologias_cardiacas.pdf);
- *Investigação em Ambientes Assistidos* (Research on Ambient Assisted Living), communication to high school students, José Silvestre Ribeiro Secondary School, Idanha-a-Nova, 28 February 2011;
- The 1024 tricks to be a Computer Science Engineer, communication, Nuno M. Garcia, 9 March 2010, Faculty of Engineering, Department of Computer Science, UBI, Covilhã, Portugal (available from <http://allab.it.ubi.pt/download.php?d=os1024truques.pdf>);
- *A Internet do Futuro* (The Internet of the Future), communication, Nuno M. Garcia, 24 June 2009, Centro de Formação Militar e Técnica da Força Aérea Portuguesa, Base Aérea da Ota, Ota, Portugal;
- *Segurança na Internet: coisas a fazer e coisas a evitar hoje e no futuro* (Security in Internet: things to do and things to avoid today and in the future), Safe Internet Day, communication, Nuno M. Garcia, 10 February 2009, *Escola Secundária Frei Heitor Pinto*, Covilhã, Portugal.

3.5. Advisory and supervision

Advisory of Doctor of Philosophy students

He is advisor for the following Doctor of Philosophy degree students:

- Gonçalo Marques, PhD student in Computer Science Engineering, UBI, thesis title “Internet of Things Architecture for Enhanced Living Environments”, co-advised by Dr. Zdenka Babic (University of Banja Luka, Bosnia and Herzegovina), expected conclusion in June 2020;
- Virginie Felizardo, PhD student in Computer Science Engineering, UBI, thesis title “Context-aware algorithms for Diabetes or Prediabetes prediction and diagnosis support in Ambient Assisted Living”, co-advised by Dr. Imen Megdiche (*Université Paul Sabatier*, Toulouse, France), expected conclusion in June 2020;
- Dmytro Vasyanovych, PhD student in Computer Science Engineering, UBI, thesis title “Sensors and devices for the automatic identification of human emotions”, co-advised by Dr. Maria da Graça Proença Esgalhado (UBI), expected conclusion in June 2020;
- Seble Esseynew, PhD Student in Computer Science Engineering, University of Addis Ababa (AAU), Ethiopia, thesis title “Value Based Ethical Framework for Software Requirements Engineering”, co-advised by Dr. Dida Midekso (AAU), expected conclusion June 2019;
- Mesfin Workineh, PhD Student in Computer Science Engineering, University of Addis Ababa (AAU), Ethiopia, thesis title “Cloud Suitability Framework for Migrating Legacy Software System”, co-advised by Dr. Dida Midekso (AAU), expected conclusion June 2019;
- Melaku Girma, PhD Student in Computer Science Engineering, AAU, Ethiopia, thesis title “Enhancing Agile for Large Scale Projects”, co-advised by Dr. Dida Midekso (AAU), expected conclusion June 2018;
- Ivan Miguel Serrano Pires, PhD student in Computer Science Engineering, UBI, thesis title “Multi-sensor Data Fusion in Mobile Devices for the Identification of Activities of Daily Living”, co-advised by Dr. Francisco Flórez-Revuelta (University of Alicante, Spain), expected conclusion in June 2018.

He is co-advisor for the following Doctor of Philosophy degree students:

- António Júlio Padez, PhD student in Textile Engineering, UBI, advisor Dr. Madalena Rocha Pereira (UBI), title of the thesis “*Ergonomia e modelação de produtos funcionais de vestuário com integração de biosensors* (Ergonomy and modelling of functional clothing with the integration of biosensors)”, expected conclusion in June 2020;
- Filipa Craveiro, PhD student in Textile Engineering, UBI, advisor Dr. José Lucas (UBI), title of the thesis “*Interpretação das cores pelos indivíduos/crianças daltónicas em catálogos virtuais de moda* (Interpretation of colours by daltonic adults and children in fashion virtual catalogues)”, expected conclusion in June 2020.

Advisory of Master of Science students

He is or was advisor for the following Master of Science degree students:

- Fábio Machado, MSc student in Computer Science Engineering, UBI, dissertation title “Assessment of the performance of a special User Datagram Protocol”, expected conclusion September 2018;
- Fábio Santos, MSc student in Computer Science Engineering, UBI, dissertation title “Measurement of biosignals using Radar-on-a-Chip systems”, co-advised by Dr. Nuno Pombo (UBI), expected conclusion September 2018;
- Pedro Jesus, MSc student in Computer Science Engineering, UBI, dissertation title “*Uso de Kinect para captura e análise de dados para o exercício de mobilidade Timed Up and Go (Mobility exercise Timed Up and Go data analysis using Kinect captured data)*”, co-advised by Dr. Nuno Pombo (UBI), September 2017;
- Nuno Galego, MSc student in Informatic Engineering, ULHT, dissertation title “Study of efficiency of IPv4 versus IPv6 communications within the Portuguese Academic Network RCTS”, co-advised by dr. Carlos Friaças (FCCN), April 2017;
- Celina Micaela Alexandre, MSc student in Computer Science Engineering, UBI, dissertation title “Collection and analysis of biosignals in open environments”, September 2016;
- Filipe Miguel Carrão Gonçalves, MSc student in Computer Science Engineering, UBI, doing his dissertation work in enterprise environment at Deloitte Lisbon, dissertation title “Core Solutions Transformation”, November 2015;
- Daniel Sabugueiro Oliveira, MSc student in Computer Science Engineering, UBI, dissertation title “Training and monitoring of life-styles using interactive communications platforms”, September 2014;
- Hugo Veiga, MSc student in Computer Science Engineering, UBI, dissertation title “Platform for monitoring Interactive Voice Response statistics”, September 2014;
- Mary Abina Karikari, MSc student in Computer Science Engineering, UBI, dissertation title “Analysis of web protocols evolution on Internet traffic”, June 2014;
- Micael João da Silva Santos, MSc student in Computer Science Engineering, UBI, dissertation title “*Uso da Entropia de Shannon para classificação de zonas artificiais ou naturais em imagens (Use of Shannon’s entropy for classification of artificial or natural areas in images)*”, October 2013;
- David Jorge Cardoso Pereira, MSc student in Computer Science Engineering and Information Systems, ULHT, dissertation title “EZ-BUD *Orçamentação na Nuvem (EZ-BUD Budgeting in the Cloud)*”, February 2013;
- Ivan Pires, MSc student in Computer Science Engineering, UBI, dissertation title “*Aplicação móvel e plataforma Web para suporte à estimação do gasto energético em actividade física (Mobile application and web platform for support to the estimation of the energetic expenditure in physical activity)*”, July 2012;

- Ricardo Ferreira, MSc student in Software Engineering and Information Systems, ULHT, dissertation title "*Testes e qualidade de software, melhores práticas aplicadas à indústria de desenvolvimento de software* (Tests and software quality, best practices applied to the software development industry)", May 2011;
- Paula Sousa, MSc student in Biomedical Sciences, UBI, dissertation title "Assessment of the state of health by the measurement of a set bio physiological signals", November 2010.

He is or was co-advisor for the following Master of Science degree students:

- Márcio Rodrigues, MSc student in Medicine, UBI, dissertation title "*A aplicabilidade das redes neuronais no prognóstico vital de doentes com insuficiência cardíaca, pela análise da variabilidade da frequência cardíaca* (The applicability of neural networks in the vital prognosis of patients with heart insufficiency through the analysis of heart rate variability)", advised by Dr. Miguel Castelo-Branco (UBI), July 2017;
- Catarina Lopes Vicente, MSc student in Fashion Design, UBI, dissertation title "*O design de calçado e a impressão 3D* (Shoe design and 3D printing)", advised by Dr. José Lucas (UBI), June 2016;
- Liliana Vicente, MSc student in Psychology, UBI, dissertation title "*Impacto das SMS na inteligência emocional e na inteligência espiritual em alunos do ensino superior* (Impact of SMS in the emotional intelligence and in spiritual intelligence in university students)", advised by Dr. Maria da Graça Proença Esgalhado (UBI), September 2014;
- Diana Patrícia Sabugueiro Oliveira, MSc student in Pedagogical Supervision (Psychology), UBI, dissertation title "*A eficácia da intervenção por SMS na auto-regulação da aprendizagem e da auto-eficácia académica geral em estudantes do ensino superior* (The efficacy of SMS intervention in learning auto-regulation and in academic general self-efficacy for university students)", advised by Dr. Maria da Graça Proença Esgalhado (UBI), September 2014;
- Virginie Felizardo, MSc student in Electrotechnical and Computer Engineering, UBI, dissertation title "Acquisition of physiological parameters to assess the caloric expenditure using an accelerometer", advised by Dr. Pedro Diniz (UBI), November 2010.

Advisory of Bachelor of Science final project and internship students

Since 2007 he has advised or is advisor of 57 projects and 11 internships for students concluding the BSc in Computer Science related courses. Most of these projects are related to Ambient Assisted Living, but many are also on Internet technologies, and a few include some electronics or robotics. The internships involved mainly small local companies, with one exception, and the students were expected to show their skills as IT staff in real working environments.

The advisory of the projects included preparing the project proposal, its planning and deployment, and of course, accompanying the students throughout the process. Some projects were further developed as business plans and one of the projects was invited to present a working demonstration at the Congress of the *Associação Portuguesa para o Desenvolvimento da Comunicação* (APDC, 2014).

Apart from the supervision tasks, the advisory of internships included visits to the student in the hosting company and meeting with the student's company supervisor.

Details of the advisory of Bachelor of Science final project and internship students can be found in ANNEX D.

Scientific supervisory of research scholarships

Since 2012 he has supervised over 30 scholarships, awarded after public competitive calls, ranging from Scientific Initiation Grants to PhD Student Grants. These scholarships have been funded by publicly funded projects but also through cooperation agreements celebrated between UBI and private companies. The overall funds assigned to these scholarships exceed 250K€. Details of the scientific supervisory activities can be found in ANNEX E-Detailed scientific supervisory of scholarships.

Participation in juries for Academic degrees

Since 2010 he was member of three juries for PhD exams, over 25 juries for MSc exams, and 9 BSc juries for exams on final projects or internship report evaluations. The scientific areas for the PhD and MSc exams cover a wide span of scientific areas, from Software Engineering to Biosignal Analysis, including robotics, computer networks and medicine. The PhD exams took place in Portugal, France and Italy, and the MSc and BSc exams took place in universities and polytechnic institutes in Portugal, but mostly at the University of Beira Interior.

He was also member of the Professional Assessment Jury exams at the *Escola Secundária Frei Heitor Pinto*, Covilhã, Portugal, invited as Personality of Recognized Merit, in July 2014, July 2012 and July 2010.

Details of the participation in juries for Academic degrees can be found in ANNEX F-Detailed participation in juries for PhD, MSc and BSc exams.

3.6. Participation in pedagogic projects in other institutions

As mentioned previously, he has been invited to lecture classes or isolated courses in several national and foreign universities. Among these, stand the following:

- Invited Associated Professor (in accumulation and with permission from the Rector of UBI) at ULHT (2012 to 2016);
- Consultant in New Technologies for the *Agrupamento de Escolas Escalada*, Pampilhosa da Serra, Portugal (2016);
- Consultant in Information and Communications Technologies for the *Agrupamento de Escolas do Fundão*, Fundão, Portugal (2015, 2016);
- Lecturer at the Summer School organized by the University of Tallinn, Tallinn, Estonia, held in Dubrovnik, Croatia (2016);
- Invited Associate Professor at the Addis Ababa University (AAU), Addis Ababa, Ethiopia (2011, 2012, 2015);
- Invited Associate Professor at the *Universiti Teknologi Malaysia*, Johor Bahru and Kuala Lumpur, Malaysia (2015);
- Lecturer at the Polytechnic Institute of Guarda, Guarda, Portugal (2008, 2012, 2013);
- Member of the Pedagogical and Scientific Councils of ECATI, ULHT (2011, 2012);
- Member of the General Council for the Escola Secundária Frei Heitor Pinto, Covilhã, Portugal (2011, 2012);
- Member of the Pedagogical Council of ULHT (2009).

4. Other activities relevant for the Mission of the University

4.1. Management activities

He has performed the following management activities, some of which have been previously mentioned:

- February 2018 – today: Senior Researcher at ALLab, IT and UBI.
- January 2018 – today: Vice-Dean of the Faculty of Engineering, UBI;
- December 2017 – today: member of the Scientific Commission for the MSc Bioengineering Course, UBI;
- December 2017 – today: member of the Accreditation Commission for MSc Bioengineering Course, UBI;
- November 2017 – today: Elected as Secretary of the Scientific Department Commission for the Computer Science Department, UBI;
- January 2014 – today: co-Founder and Chair of the Executive Committee of BSAFE-Lab, UBI;
- November 2013 – November 2017: Chair of the COST Action IC1303-AAPELE, COST Association, Brussels, Belgium;
- 2012/2013: BSc Computer Science Engineering Course Director, UBI;
- November 2010 – today: Coordinator of the Cisco Academy at UBI;
- October 2010 – today: Member of the Scientific Council of the Computer Science Department of UBI;
- February 2010 – February 2018: Founder and coordinator of ALLab, IT and UBI.

4.2. Transference of Knowledge and Technology

In the context of his activity as teacher and researcher, he is often invited to speak at public events, in particular those already listed in section 2.3.9. He has also been interviewed for public television, local radios, national and local newspapers and corporate publications, as for example, the interview to the Observador newspaper (<http://observador.pt/especiais/a-internet-vai-ser-privatizada/>, 2015), or the magazine celebrating the 20th anniversary of the Olisipo SA (Lisbon, Portugal) magazine (https://issuu.com/olisipo/docs/olisipo_20_anos_pag.22-23, 2015).

Following the Mission of the university, he has celebrated and is responsible for cooperation agreements with the following companies or organizations:

- Portugal Telecom SA, to provide training to their collaborators via the Cisco Academy at UBI, 2015;

- PCMedic / Higher Functions Lda, to provide training to their collaborators via the Cisco Academy at UBI, 2015;
- AMI Santos Informática Lda, Covilhã, Portugal, to research on the development of Web platforms for business support, funds transferred to UBI aprox. 3.000€, 2015;
- IT-Staff Lda. to provide training to their collaborators via the Cisco Academy at UBI, 2014;
- Follow Inspiration Lda, Covilhã, Portugal, to research on methods for autonomous navigation of indoor robots, 2014;
- *Associação de Diabéticos da Serra da Estrela*, to support the research on the assessment of the diabetic foot condition, 2014;
- Favvus, IT HR SA, Lisbon, Portugal, to research on platforms for Rapid Application Development, funds transferred to UBI aprox. 12.000€, 2014;
- True-Kare *Serviços e Equipamentos Lda*, Lisbon, Portugal, to research on a new screen loader for elderly persons for their new line of products, funds transferred to UBI aprox. 5.000€, 2014;
- Eyesee Solutions Lda, Lisbon, Portugal, to research and develop a method to seamlessly integrate advertising in dynamic video and in images, funds transferred to UBI aprox. 38.000€, 2013;
- SFLAG *Sistemas de Informática Lda.*, Castelo Branco, Portugal, to research and develop a communication system between personal devices and a central service, funds transferred to UBI aprox. 5.000€, 2013.

The activities that take place under these protocols involve the generation of knowledge and the transference of some of this knowledge to the economy, either in the form of improved processes, products or systems, or in the form of new products. These protocols often also integrate a component of funding from the companies to the university, as shown in some entries in sub-section 2.2.1 and the coordinated funded scholarships whose list can be found in ANNEX E-Detailed scientific supervisory of scholarships.

In addition to the work with companies and organizations external to UBI, in 2011 he was co-founder of HackLab-Cvl, a registered Hackerspace composed mostly by students from different engineering courses at UBI (<https://wiki.hackerspaces.org/Hacklab-Cvl>). This is a student lead group, only loosely supervised by the founders. Among others, HackLab-Cvl has promoted the following activities:

- Arduino programming workshop (2015);
- Linux installation workshop (2015);
- Building a quadcopter (2015);
- TechDays, a two day conference (2015);
- Construction of an Arcade Machine; this machine is often used in promotion events by the Public Relations department of UBI (2012).

5. Conclusion

5.1. Current ongoing research activities

Activities at ALLab and at BSAFE-Lab include the prosecution of the projects that are currently being funded, including the COST IC1303, the five ERASMUS+ projects, and also, the research that is carried out in the context of PhD and MSc projects. As a result of the impact of the COST Action IC1303 AAPELE, the research at ALLab tends to be focused in areas around Enhanced Living Environments, with a strong participation of colleagues from European universities and from industry.

These research activities can be summarized in the following lines:

- Identification of activities of daily living, with the goal of increasing the accuracy of the identification tools and make them usable in future Enhanced Living Environment scenarios. The team around this research is composed by Nuno Garcia (PhD), Francisco Flórez-Revuelta (PhD, *Universidad de Alicante*, Spain), Nuno Pombo (PhD), Susanna Spinsante (PhD, *Università Politecnica delle Marche*, Italy), and Ivan Pires (MSc, PhD student). This research is coming to its conclusion and PhD student who is addressing this topic is expected to finish the writing of his thesis in the next few months;
- Identification of human emotions using wearable sensors and devices, with the goal of allowing the identification of human emotions without resorting to video or facial expressions. The team around this research is composed by Nuno Garcia (PhD), Maria da Graça Esgalhado (PhD, Psychology Department, UBI) Nuno Pombo (PhD), Jettie Hoonhout (PhD, Philips Research, Nederland), and Dmytro Vasyanovych (MSc, PhD student). This tool will be further used in the construction of a Personal Digital Life Coach;
- Seamless integration of things in the Internet of Things, with the goal of allowing the communication of distributed agents throughout an Enhanced Living Environment, aiming to further contribute to context and environment aware personal computing. The team who is addressing this research problem includes Nuno Garcia (PhD), Zdenka Babic (PhD, University of Banja Luka, Bosnia and Herzegovina), Nuno Pombo (PhD) and Gonçalo Marques (MSc, PhD student). The results of this research will further enhance the multi-agent nature of future Enhanced Living Environment solutions;
- Exploration of metrics of entropy and self-similarity on multiple biosignal to infer prognostic outcome in patients. Previous research and previous IP has shown that self-similarity measurements can be applied to assess the health degree of a person. Preliminary results are promising and allow the inference of outcomes for several patients. Further research is necessary to extend these tools into the hospitals, as to make them usable and useful. A research team composed by Miguel Castelo-Branco (MD, PhD, Health Sciences Department, UBI), Nuno Garcia (PhD), Nuno Pombo (PhD), Márcio Rodrigues (MSc student in medicine) and Nuno Pereira (PhD student) is addressing this research problem. The cooperation of the *Centro Hospitalar da Cova da Beira* is important as they provide the biosignal files from patients at the Intensive Care Unit;

- Development of predictive algorithms for health without resorting to *omics, with the goal of allowing the integration of software algorithms based in biosignal analysis as auxiliary diagnostic tools. This research is responsibility of a team composed by Nuno Garcia (PhD), David Clifton (PhD, Oxford University, UK), Nuno Pombo (PhD), Mario Drobnics (MSc Austrian Institute of Technology, Austria), and Virginie Felizardo (MSc, PhD student);
- Use of infrared photography to assess the potential of breastfeeding for a new mother. The problem to address here is that new mothers are often afraid of their inability to breastfeed, and the goal is to device a system that can provide a metric on the potential for breastfeeding for a specific woman. This research is led by Dr. Martinez, head of the Obstetrics and Gynaecology unit at the *Centro Hospitalar da Cova da Beira, Covilhã, Portugal*. Preliminary results are promising and there is a team composed by Martinez de Oliveira (MD, PhD, Health Sciences Department, UBI), Ana Gouveia (PhD, Health Sciences Department, UBI), Nuno Pombo (PhD), Nuno Garcia (PhD), two nurses, a PhD student and a BSc student that is focusing on this research.

These six lines of research are directly managed by the author, and are complementary to other lines of research currently being developed in ALLab. Of special relevance are also the research on complex event discovery in biosignals and the use of artificial intelligence tools to synthesize and analyse biosignals.

In line with this, the following papers have been submitted:

- Stepping into the Era of Personal Big Data: a Roadmap to the Design of a Personal Digital Life Coach, Nuno M. Garcia, Nuno Pombo, Torsten Braun, Francisco Flórez-Revuelta, Ivan Chorbev, Susanna Spinsante, David Lamas, Rossitza Goleva, submitted to *Journal of Medical Internet Research* (Q1, Medical Informatics, 4.532), received the 1st reviews with a review and resubmit request, it will be resubmitted in March 2018;
- Recognition of Activities of Daily Living based on the Environmental Analysis using Audio Fingerprinting Techniques: a Systematic Review, Ivan M. Pires, Rui Santos, Nuno Pombo, Nuno M. Garcia, Susanna Spinsante, Francisco Florez-Revuelta, Rossitza Goleva, Eftim Zdravesvsky.

5.2. Currently submitted/to be submitted international projects

The following projects have been submitted or are in the process of submission:

- To the COST Association: European Network on Predictive Algorithms for Health (ENPAH). This proposal is led by the author and is composed of 21 proposers from 15 COST Countries. The proposal is designed around the perspective of narrowing the gap between algorithms for health, big data and sensor devices such as smartphones and smartwatches (submission deadline September 2017);
- INTERREG *Optimización de un Ambiente Arquitectónico con condiciones de Seguridad y Habitabilidad para ancianos*, with *Universidad San Pablo CEU de la Fundación Univesitaria San Pablo CEU, Universidade do Porto, Universidade da Beira Interior*.

5.3. Future lines of research

Non-exhaustively, these are some of the future research lines at ALLab:

- Use of sub-mm Radar-on-a-Chip to develop biometric and diagnostic tools. With the expected decrease in price of Radar-on-a-Chip devices, it is expectable that current research can be expanded to address important issues for both ALLab and BSAFE-Lab, such as *e.g.* non-voluntary invisible biometry and Radar based diagnostic tools;
- Use of infrared photography as a diagnostic and biometric tool. Infrared cameras have also seen a sharp decrease in price and this will allow the integration of such equipment in diagnostic and detection solutions;
- Assessment of the performance for a new protocol based on UDP. A new protocol based on UDP has been devised and a concept paper will be submitted to a magazine or journal in the coming weeks. This protocol is based on the use of different ports to transmit and receive UDP packets, allowing the receiver to infer if packet loss has occurred or not, as well as to implement basic packet reordering. In the second semester of 2017 a MSc student will build a simulator that will prove (or not) the merits of this new way to use the UDP protocol;
- Study on new predictive algorithms for health. The plethora of biosignals we can now collect with wearable off-the-shelf devices will allow us in a near future to use these biosignals to feed algorithms that will detect early signs of disease.

5.4. Current ongoing teaching activities

As part of the evolution of the curricular units taught, the curricular unit of Computer Networks is going to be upgraded with two important resources.

The first one is a series of Youtube™ videos that show how to solve the practical exercise sheets, in a step-by-step manner. Some of these videos can already be seen in the following link: <https://www.youtube.com/watch?v=wNHOFUi8jSc&feature=youtu.be>.

The second is a text book that is currently under revision and whose authors are Nuno M. Garcia and Pedro Pinto (IPG). The text book on Computer Networks is written in Portuguese and is aimed to the Portuguese speaking academic market. Co-author Pedro Pinto, is also a Cisco Academy trainer and awarded blogger and author, responsible for the Pplware series of articles (<https://pplware.sapo.pt/>).

5.5. Future teaching activities

Also noteworthy are the plans for the next semester at the Cisco Academy at UBI. From September 2017 to June 2018 5 courses are planned. Additionally, the CISCO Academy will launch seventeen new self-learning courses based on the contents provided by the CISCO Networking Academies platform. The courses are: Networking Essentials, Introduction to the Internet of Everything, Introduction to IoT, IoT

Fundamentals: Connecting Things, IoT Fundamentals: Big Data & Analytics, IoT Fundamentals: Hackathon Playbook, Introduction to Cybersecurity, Cybersecurity Essentials, Get Connected, Smart Grid Essentials, Packet Tracer Know How 1: Packet Tracer 101, Mobility Fundamentals, CPA - Programming Essentials in C++, and CLA - Programming Essentials in C.

A handwritten signature in black ink, appearing to be 'Nuno M. Garcia', written in a cursive style.

ANNEX A-Detailed peer reviewing activities

Service in conferences

He is or was member of the Technical Program Committee of the following international conferences:

- 119 5th International Conference on Physiological Computing Systems, Seville, Spain, 19-21 September 2018;
- 118 Sixth International Symposium on Control, Automation, Industrial Informatics and Smart Grid (ICAIS'18), Bangalore, India, 19-22 Spetember 2018;
- 117 Symposium on Internet of Things, Fog Computing and Wireless Location Technologies (SIFL'18), Bangalore, India, 19-22 September 2018;
- 116 SENSORCOMM 2018, The Twelfth International Conference on Sensor Technologies and Applications, Venice, Italy, 16-20 September 2018;
- 115 Second International Conference on Computing and Network Communications (CoCoNet'18), Astana, Kazakhstan, 15-17August 2018;
- 114 2017 IEEE 15th Student Conference on Research and Development (SCORED), Putrajaya, Malaysia, 13-14 December 2017;
- 113 4th International Conference on Computer, Communication and Control Technology, Kota Kinabalu, Sabah, Malaysia, 19-21 April 2018;
- 112 The sixth edition of International Conference on Advances in Computing, Communications and Informatics (ICACCI-2017), Karnataka, India, 13-16 September 2017;
- 111 ICUMT 2017 – The 9th International Congress on Ultra Modern Telecommunications and Control Systems, Munich, Germany, 6-8 November 2017;
- 110 2017 IEEE 13th International Conference on Intelligent Computer Communication and Processing (ICCP 2017), Cluj-Napoca, Romania, 7-9 September 2017;
- 109 *2nd EAI International Conference on Computer Science and Engineering*, Bangkok, Thailand, 3-4 November 2017;
- 108 *2017 International Conference on Smart Cities, Automation & Intelligent Computing Systems (ICON-SONICS 2017)*, Yogyakarta, Indonesia, 8-10 November 2017;
- 107 *2nd EAI International Conference on Computer Science and Engineering*, Bangkok, Thailand, 3-4 Nov 2017;
- 106 *2017 International Conference on Emerging Electronic Solutions for IoT (ICEESI 2017)*, Penang, Malaysia, 9-10 October 2017;
- 105 *2017 2nd Applied Mathematics in Science and Engineering International Conference (APPEMSE)*, Phuket, Thailand, 10-12 October 2017;

- 104 *2017 2nd Advanced Research in Engineering and Information Technology International Conference (AREITIC)*, Bangkok, Thailand, 5-7 September 2017;
- 103 *The fourth edition of the International Workshop on Enhanced Living Environments, ELEMENT-2017, Workshop Co-Chair, in conjunction with ConTEL 2017, The 14th International Conference on Telecommunications*, Zagreb, Croatia (<http://aapele.eu/element2017/>), 28-30 June 2017;
- 102 *2017 2nd International Conference on Information in Business and Technology (I2BM) (I2BM'2017)*, Penang, Malaysia, 18 -20 April 2017;
- 101 *4th International Conference on Physiological Computing Systems, PhyCS 2017*, Madrid, Spain, 28-29 July 2017;
- 100 *2016 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT)*, Lymassol, Cyprus , 12-14 December 2016;
- 99 *The 5th IEEE International Conference on Communication, Networks and Satellite, IEEE COMNETSAT 2016*, Surabaya, Indonesia, 8-10 December 2016;
- 98 *Smart Things for Active and Assisted Living (ST4AAL), 2nd EAI International Conference on Smart Objects and Technologies for Social Good*, Venice, Italy, 30 November–1 December 2016;
- 97 *First EAI International Conference on Computer Science and Engineering* , Penang, Malaysia, 11–12 November 2016;
- 96 *2016 International Symposium on Health and Medical Sciences (ISHAMS'2016)*, Penang, Malaysia, 4-6 October 2016;
- 95 *IEEE 12th International Conference on Intelligent Computer Communication and Processing*, Cluj-Napoca, Romania, 8-10 September 2016;
- 94 *2nd International Workshop on Internet of Things for Ambient Assisted Living (IoTAAL), in conjunction with IEEE PIMRC 2016, Workshop Co-Chair*, Valencia, Spain, 04-Sep-16;
- 93 *3rd International Conference on Physiological Computing Systems, PhyCS 2016*, Lisbon, Portugal, 29-31 July 2016;
- 92 *Exploring Modelling Methods for Systems Analysis and Design working conference, EMMSAD16*, Ljubljana, Slovenia, 13-14 June 2016;
- 91 *7th International Conference on Ambient Intelligence (ISAMI'16) within PAAMS 2016*, Seville, Spain, 1-3 June 2016;
- 90 *2016 International Conference on Business, Economics, Management, Social Sciences, Art and Humanities (BEMSAHIC 2016)*, Ural Federal University, Yekaterinburg, Sverdlovsk Oblast, Russia, 10-12 May 2016;
- 89 *2016 International Conference on Information in Business and Technology Management (I2BM)*, Melaka, Malaysia, 26-28 January 2016;
- 88 *The 15th IEEE International Symposium on Signal Processing and Information Technology*, Abu Dhabi, UAE, 7-10 December 2015, ISSPIT 2015 ;

- 87 *GC'15-Workshop-IoTAAL (IEEE GC 2015 Workshop on Internet of Things for Ambient Assisted Living (IoTAAL)), IEEE Globecom, Las Vegas, USA, 6-10 December 2015;*
- 86 *ICEUBI2015-International Conference on Engineering-Engineering for Society, Covilhã, Portugal, 2-4 December 2015;*
- 85 *2015 International Conference on Computing and Network Communications (CoCoNet'15), Trivandrum, Kerala, India, 16-19 December 2015;*
- 84 *International Symposium on Health and Medical Sciences (ISHAMS 2015), Krabi, Thailand, 1-3 December 2015;*
- 83 *2015 International Symposium on Sciences and Mathematics (ISySM2015), Bandung, Indonesia, 24-26 November 2015;*
- 82 *ICCAT' 2015 (2015 International Conference on Computer Applications & Technology), Rome, Italy, 5-7 November 2015;*
- 81 *1st IET International Conference on Technologies for Active and Assisted Living (TechAAL 2015), Kingston University, London, United Kingdom, 05-Nov-15;*
- 80 *International Conferences on Instrumentation control, Cognitive science, Optics, Micro electro-mechanical system, and Information technology (ICACOMIT), Bandung, Indonesia, 29-30 October 2015;*
- 79 *2nd International Conference on Cognitive Internet of Things Technologies, Rome, Italy, 26–27 October 2015;*
- 78 *2015 IEEE Conference on Energy Conversion (CENCON 2015), Johor Bahru, Malaysia, 19-21 October 2015;*
- 77 *7th ICUMT 2015, Brno, Czech Republic, 6-8 October 2015;*
- 76 *The second edition of the International Workshop on Enhanced Living EnvironMENTS, Workshop Co-Chair, 1-3 October 2015, Ohrid, Macedonia, ELEMENT-2015;*
- 75 *2015 Progress in Applied Mathematics in Science and Engineering (PIAMSE), Bali, Indonesia, 29-Sep-15;*
- 74 *2015 International Symposium on Social Sciences, Arts and Humanities (SYSSARM), Bali, Indonesia, 29-Sep-15;*
- 73 *ETAI 2015 Society for Electronics, Telecommunications, Automation and Informatics, Ohrid, Macedonia, 24-26 September 2015;*
- 72 *International Conference on Control, Electronics, Renewable Energy, and Communications 2015 (ICCEREC 2015), Bandung, Indonesia, 27-29 August 2015;*
- 71 *Game Physics and Mechanics International Conference 2015, 2015, Langkawi, Kedah, Malaysia, 25-27 August 2015;*
- 70 *Fourth International Conference on Advances in Computing, Communications and Informatics (ICACCI-2015), Kerala, India, 10-13 August 2015;*

- 69 *Third International Symposium on Security in Computing and Communications (SSCC-2015)*, Kerala, India, 10-13 August 2015;
- 68 *Second International Symposium on Computer Vision and the Internet (VisionNet'15)*, Kochi, India, 10-13 August 2015;
- 67 *First International Conference on Computing in Mechanical Engineering (ICCME'15)*, Kochi, India, 10-13 August 2015;
- 66 *2015 International Conference on Single Processing & Data Mining (ICSPDM' 2015)*, Istanbul, Turkey, 26-28 July 2015;
- 65 *GSCIT' 2015, Global Summit on Computer & Information Technology*, Sousse, Tunisia, 11-13 June 2015;
- 64 *WSMEAP' 2015, World Symposium on Mechatronics Engineering & Applied Physics*, Sousse, Tunisia, 11-13 June 2015;
- 63 *2015 International Conference on Marine Science and Environmental Engineering (MAROCENET 2015)*, Phuket, Thailand, 9-11 June;
- 62 *The IEEE 4th International Conference on Mobile Services 2015 (IEEE MS 2015)-Coimbra Satellite Session*, Coimbra, Portugal, 03-Jun-15;
- 61 *Renewable Energy and Green Technology International Conference 2015 (REEGETECH'2015)*, Bali, Indonesia, 2-4 June 2015;
- 60 *2015 Advanced Research in Material Sciences, Manufacturing, Mechanical and Mechatronic Engineering Technology International Conference (AR4MET'2015)*, Bali, Indonesia, 2-4 June;
- 59 *International Symposium on Ambient Intelligence (ISAmI'15)*, Salamanca, Spain, 3-5 June 2015;
- 58 *2015 IC Engineering & Computational Innovative Sciences (ENCINS' 2015)*, Casablanca, Morocco, 20-23 April 2015;
- 57 *2015 International Conference on e-Quality & e-Service Sciences (eQeSS 2015)*, Dubai, UAE, 24-25 February 2015;
- 56 *2014 IEEE Conference on Biomedical Engineering and Sciences (IECBES)*, Kuala Lumpur, Malaysia, 08-10 December 2014;
- 55 *2014 International Conference on Computer Applications & Aided Diagnosis (ICCAAD' 2014)*, Algeria, 25-26 November 2014;
- 54 *The Sixth International Conference on Computational Intelligence and Communication Networks 2014 (CICN2014)*, Bhopal, India, 14-16 November 2014;
- 53 *2014 International Conference on Industrial Electronics, Manufacturing, Control, Systems, and Informatics (IMACSI 2014)*, Yogyakarta, Indonesia, 11-13 November 2014;
- 52 *2014 2nd International Conference on Robotics, Biomimetics, Intelligent Computational Systems (ROBIONETICS 2014)*, Yogyakarta, Indonesia, 11-13 November 2014;

- 51 *The First International Conference on Cognitive Internet of Things Technologies*, Rome, Italy, 27-28 October 2014;
- 50 *6th ICUMT 2014*, St. Petersburg, Russia, 6-8 October 2014;
- 49 *2014 IEEE Symposium on Business, Engineering & Industrial Applications (ISBEIA 2014)*, Kota Kinabalu, Malaysia, 28 September-1 October 2014;
- 48 *Third International Conference on Advances in Computing, Communications and Informatics (ICACCI 2014)*, Delhi, India, 24-27 September 2014;
- 47 *The first edition of the International Workshop on Enhanced Living Environments, ELEMENT-2014*, 23-25 September 2014, Würzburg, Germany, Workshop Co-Chair;
- 46 *2014 International Workshop on Wireless Sensors Networks for Mobile Health (WSN4Health'2014)*, Rome, Italy, 8-10 September 2014;
- 45 *2014 International Conference on Intelligent Autonomous Agents, Networks and Systems (INAGENTSYS 2014)*, Bandung, Indonesia, 19-21 August;
- 44 *The 2014 2nd International Conference on Technology, Informatics, Management, Engineering & Environment (TIME-E 2014)*, Bandung, Indonesia, 19-21 August 2014;
- 43 *2014 International Colloquium on Sport Science, Exercise, Engineering and Technology (ICoSSEET 2014)*, Penang, Malaysia, 7-9 April 2014;
- 42 *PhyCS 2014 International Conference on Physiological Computing Systems*, Lisbon, Portugal, 7-9 January 2014;
- 41 *ICEUBI2013-International Conference on Engineering UBI2013-Engineering for Economic Development*, Covilhã, Portugal, 27-29 November 2013;
- 40 *The Second International Conference on Global Health Challenges GLOBAL HEALTH 2013*, Lisbon, Portugal, 17-22 November 2013;
- 39 *IICP 2013-4th IEEE International Conference on Photonics 2013*, Melaka, Malaysia, 28-30 October 2013;
- 38 *The 2013 IEEE Symposium on Industrial Electronics & Applications*, Kuching, Malaysia, 22-25 September 2013;
- 37 *The 2013 IEEE Symposium on Business, Engineering and Industrial Applications*, Kuching, Malaysia, 22-25 September 2013;
- 36 *International Symposium on Control, Automation, Industrial Informatics and Smart Grid (ICAIS 2013)*, Mysore, India, 24-25 August 2013;
- 35 *IEEE Symposium on Humanities, Science and Engineering 2013 (SHUSER 2013)*, Penang, Malaysia, 23-25 June 2013;
- 34 *2013 International Conference on Technology, Informatics, Management, Engineering & Environment*, Bandung, Indonesia, 23-26 June 2013;

- 33 *2013 2nd IEEE Conference on Control, Systems & Industrial Informatics*, Bandung, Indonesia, 23-26 June 2013;
- 32 *IEEE Business Engineering and Industrial Applications Colloquium 2013 (IEEE BEIAC 2013)*, Langkawi Island, Malaysia, 7-9 April 2013;
- 31 *IEEE EUROCON 2013*, Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia, 1-4 July 2013;
- 30 *4th International Symposium in Ambient Intelligence (ISAmI 2013)*, 2013, Salamanca, Spain, 22-24 May;
- 29 *The Fourth International Conference on Networks & Communications (NETCOM-2012)*, Chennai, India, 22-24 December;
- 28 *The 2012 IEEE CONFERENCE ON CONTROL, SYSTEMS & INDUSTRIAL INFORMATICS (ICCSII 2012)*, Sharjah, United Arab Emirates, 18-20 December 2012;
- 27 *The 2012 IEEE Student Conference on Research and Development (SCOReD 2012)*, Penang, Malaysia, 5-6 December 2012;
- 26 *The 2012 IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER 2012)*, Kota Kinabalu, Sabah, Malaysia, 3-4 December 2012;
- 25 *The 2012 IEEE International Conference on Power and Energy (PECON 2012)*, Kota Kinabalu, Sabah, Malaysia, 2-5 December 2012;
- 24 *International Conference on Ultra Modern Communications (ICUMT 2012)*, St Petersburg, Russia, 3-5 October 2012;
- 23 *AAL 2012, Living Usability Lab Workshop on AAL latest solutions, trends and applications*, Vilamoura-Algarve, Portugal, 1-4 of February 2012;
- 22 *INMIC 2011, 2011 IEEE 14th International Multitopic Conference*, Karachi, Pakistan, 22-24 of December 2011;
- 21 *ICEUBI2011-International Conference on Engineering UBI2011-Innovation and Development*, Covilhã, Portugal, 28-30 November 2011;
- 20 *EMERGING 2011, The Third International Conference on Emerging Network Intelligence*, 2011, under NexTech 2011, Lisbon, Portugal, November 20-25;
- 19 *International Conference on Ultra Modern Communications (ICUMT 2011)*, 2011, Budapest, Hungary, October 5-7;
- 18 *The Fourth International Conference on Advances in Mesh Networks MESH 2011*, 2011, Nice/Saint Laurent du Var, France, August 21-27;
- 17 *The International Conference on Recent Advances in Technology, Engineering, Management and Science-ICRATEMS 2011*, Tiruchengodu, Tamil Nadu, INDIA, 4-6 March 2011;
- 16 *the 1st International Living Usability Lab Workshop on AAL Latest Solutions*, January 28-29, 2011, Rome, Italy, AAL 2011;

- 15 *the International Conference on Ultra Modern Communications (ICUMT 2010)*, Moscow, Russia, 18-20 October 2010;
- 14 *The Second International Conference on Emerging Network Intelligence (EMERGING 2010)*, Florence, Italy, 25-30 October 2010;
- 13 *The Seventh IEEE and IFIP International Conference on wireless and Optical communications Networks (WOCN2010)*, Colombo, Sri Lanka, 6-8 September 2010;
- 12 *The Optical and Backbone Networks Track of the 19th International Conference on Computer Communications and Networks (ICCCN 2010)*, ETH Zurich, Zurich, Switzerland, 2-5 August 2010;
- 11 *The 11th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2010)*, University of Greenwich, London, United Kingdom, 9-11 June 2010;
- 10 *SocialNet'09 (The 2009 IEEE International Symposium on Social Computing and Networking)*, Chengdu, China, 12-14 December 2009;
- 9 *The 2009 IEEE International Conference on Social Computing (SocialCom-09)*, Vancouver, Canada, 29-31 August 2009;
- 8 *Co-chair of the Technical Program Committee of the First Asian Himalayas International Conference on Internet (AH-ICI2009)*, Katmandu, Nepal, 3-5 November 2009;
- 7 *the International Conference on Ultra Modern Communications (ICUMT 2009)*, S Petersburg, Russia, 12-14 October 2009;
- 6 *The Fifth European Conference on Universal Multiservice Networks (ECUMN 2009)*, Silema, Malta, 11-16 October 2009;
- 5 *The 18th International Conference on Computer Communications and Networks (ICCCN 2009)*, San Francisco, California, USA, 2-6 August 2009;
- 4 *CISTI 2009-4ª Conferência Ibérica de Sistemas e Tecnologias de Informação*, Póvoa do Varzim, Portugal, 17-20 July 2009;
- 3 *The 1st International Workshop on Traffic Monitoring and Analysis (TMA'09)*, Aachen, Germany, 11-May-09;
- 2 *The 17th International Conference on Computer Communications and Networks*, St. Thomas, Virgin Islands, USA, 4-7 August 2008;
- 1 *The 23rd Annual ACM Symposium on Applied Computing*, Fortaleza, São Salvador, Ceará, Brazil., 16-20 March 2008.

Additional reviewing activities can be described as follows:

- Reviewer for the Mobile and Wireless Networks track at the 2010 IEEE Wireless Communications and Networking Conference (WCNC 2012), Paris, France, 1-4 April 2012;

- Reviewer for the IEEE GLOBECOM 2011 - Communication Software, Services, and Multimedia Applications Symposium, Houston, Texas, USA, 5-9 December 2011;
- Reviewer for The 7th International Conference on Network and Service Management (CNSM 2011), Paris, France, 24-28 October 2011;
- Reviewer for The 4th IEEE International Conference on Computer Science and Information Technology, ICCSIT 2011, Chengdu, China, 10-12 June 2011;
- Reviewer for The 5th ERCIM Workshop on eMobility, Vilanova i la Geltrú, Catalonia, Spain, 14 June 2011;
- Reviewer for the The 2nd International Symposium on Information Security (IS'07), Vilamoura, Algarve, Portugal, 26-27 November 2007;
- Reviewer for the Globecom 2007 - Performance Modeling, QoS and Reliability Symposium (GC'07 PMQRS), Washington DC, USA, 26-30 November 2007;
- Reviewer for the IEEE International Conference on Communications (ICC 2007), Glasgow, Scotland, 24-28 June 2007;
- Reviewer for the The 22nd Symposium on Applied Computing (ACM SAC 2007), Seoul, South Korea, 11-15 March 2007;
- Reviewer for The International Conference on Information Networking 2007 (ICOIN 2007), Estoril, Portugal, 23-25 January 2007;
- Reviewer for the IEEE Wireless Communications Networking Conference (WCNC 2006), Las Vegas, Nevada, USA, 3-6 April 2006.

ANNEX B-Detailed teaching activities

The following table contains the details of the teaching activities in higher education institutions (universities and polytechnic institutes) since 2007/2008 until the current date. Recently taught curricular units are placed at the top of the table. For each occurrence, the lines are ordered by year and semester, and by course degree, and finally, by alphabetical order of the English name of the curricular unit.

The first column contains data on the year and semester the curricular unit was taught. The second column contains the number of students enrolled at the curricular unit, per year and semester; older data are approximate values. The third column contains the English name of the curricular unit and its corresponding curricular year within the course plan; it also contains information on the type of classes, where T stands for Theoretical classes, and P for Practical classes. The fourth and fifth columns contain the type and name of the course and the institution where the course was taught. The sixth column contains a description of the role taken while teaching the curricular unit: C stands for Coordinator and TM stands for Team Member, *i.e.*, in this case the curricular unit was coordinated by other colleague.

Table 10-Details for teaching activities since 2007.

Year, semester	Number of students (approx.)	Unit, curricular year, type of class	Course	University / Polytechnic Institute	Role
2017/18 1 st ; 2016/17 1 st ; 2015/16 1 st ; 2014/15 1 st	3 2 8 8	Ambient Assisted Living, 1 st year, T+P	PhD course on Computer Science and Engineering	UBI	C
2017/18 1 st ; 2016/17 1 st ; 2015/16 1 st ; 2014/15 1 st	1 1 8 8	Biosignal Processing, 1 st year, T+P	PhD course on Computer Science and Engineering	UBI	C
2017/18 1 st	30	Administration of Networked Systems	MSc degree in Computer Science Engineering	UBI	C
2017/18	1	Analysis of Biomedical Signals, 1 st	MSc degree in	UBI	C

Year, semester	Number of students (approx.)	Unit, curricular year, type of class	Course	University / Polytechnic Institute	Role
1 st , 2016/17 1 st	7	year, T+P	Bioengineering		
2017/18 2 nd 2016/17 2 nd ,	7	Mobile Computation for Health	MSc degree in Bioengineering	UBI	C
2016/17 1 st	7	Implementation, 1 st year, T+P	MSc degree in Care and Technology	European MSc consortium led by Fontys University, Nederland	C
2016/17 2 nd ,	25	Networks Engineering	MSc degree in Computer Science Engineering	UBI	C
2016/17 1 st	7	Safety Issues and Regulations, 1 st year, T+P	MSc degree in Care and Technology	European MSc consortium led by Fontys University, Nederland	C
2017/18 1 st , 2016/17 1 st , 2015/16 1 st , 2014/15 1 st	77 80 65 62	Computer Networks, 2 nd year, T	BSc degree in Computer Science Engineering	UBI	C
2017/18 2 nd 2017/18 1 st 2016/17 2 nd , 2016/17	1 1 1 1	Final Project, 3 rd year, P	BSc degree in Computer Science Engineering and degree in Management Informatics	ULHT	TM

Year, semester	Number of students (aprox.)	Unit, curricular year, type of class	Course	University / Polytechnic Institute	Role
1 st , 2015/16	2				
2 nd , 2015/16	1				
1 st , 2014/15	2				
2 nd , 2014/15	1				
1 st , 2013/14,	2				
1 st , 2012/13	1				
2 nd , 2011/12,	12				
2 nd , 2011/12,	7				
1 st , 2010/11,	17				
2 nd , 2009/10,	18				
2 nd , 2009/10,	36				
1 st , 2008/09,	26				
2 nd , 2007/08,	11				
2 nd					
2017/18 1 st	62	Programming, 2 nd year, T	BSc degrees in Biomedical Sciences <i>and</i> Bioengineering	UBI	C
2016/17 1 st ,	64				
2015/16 1 st	140				
2017/18 2 nd	42	Networks and Internet Services, 2 nd year, T+P	BSc degree in Web Informatics	UBI	C
2016/17 2 nd ,	38				
2014/15 2 nd	21				

Year, semester	Number of students (approx.)	Unit, curricular year, type of class	Course	University / Polytechnic Institute	Role
2015/16 1 st ; 2012/13, 1 st ; 2011/12, 1 st	6 6 5	Advanced Topics in Computer Science, 1 st year, T+P	PhD course on Computer Engineering, Software Engineering track	Addis Ababa University (AAU), Ethiopia	C
2014/15 2 nd	27	Cloud and Data Center Technologies, 1 st year, T+P	MSc course on Computer Science and Engineering	UBI	C
2014/15 2 nd	40	Project, 3 rd year, P	BSc degree in Computer Science Engineering	UBI	C
2014/15 1 st ; 2013/14, 1 st	18 15	Telecommunications Networks, 1 st year, T+P	Post-graduate course on Communication and Information Technologies for the Telecommunications Area	UBI	C
2013/14 2 nd ; 2012/13 1 st	8 13	Ubiquitous Computing, 1 st year, T+P	MSc degree in Mobile Computing	IPG	C
2013/14 2 nd	4	Medical Informatics, 1 st year, T+P	BSc degree in Bioengineering	UBI	C
2013/14 2 nd ; 2012/13 2 nd ; 2010/11, 2 nd	60 48 62	Networks and Internet Services, 2 nd year, T+P	BSc degree in Computer Science Engineering	UBI	C
2013/14, 1 st ; 2011/12, 1 st ; 2010/11, 1 st	10 37 44	Computer Networks Technologies, 1 st year, T+P	BSc degree in Information Systems and Technologies	UBI	C
2013/14, 1 st	12	System Administration, 3 rd year, T+P	BSc degree in Information Systems and Technologies	UBI	C
2012/13, 1 st ; 2010/11,	35 16	Analysis of Information Systems, 1 st year, T+P	MSc degree in Computer Science Engineering	UBI	C

Year, semester	Number of students (<i>aprox.</i>)	Unit, curricular year, type of class	Course	University / Polytechnic Institute	Role
1 st					
2012/13 2 nd ; 2011/12, 2 nd ; 2009/10, 2 nd	79 91 120	Internet Technologies, 1 st year, T+P	BSc degree in Computer Science Engineering, degree in Information Systems and Technologies and degree in Sport Sciences	UBI	C
2011/12, 2 nd ; 2010/11, 2 nd	8 7	Multimedia Data Processing, 1 st year, T+P	MSc degree in Software Engineering and Information Systems	ULHT	C
2011/12, 2 nd	43	Distributed Systems, 2 nd year, T+P	BSc degree in Computer Science Engineering	UBI	C
2011/12, 2 nd ; 2010/11, 2 nd ; 2009/10, 2 nd ; 2008/09, 2 nd ; 2007/08, 2 nd	30 44 51 68 51	Programming Languages 1, 1 st year, P	BSc degree in Computer Science Engineering	ULHT	TM
2011/12, 2 nd ; 2010/11, 2 nd ; 2008/09, 2 nd ; 2007/08, 2 nd	38 45 26 22	Software Engineering, 3 rd year, T+P	BSc degree in Management Informatics	ULHT	C
2011/12, 1 st ; 2010/11, 1 st ; 2009/10, 1 st	40 41 73	Foundations on Programming, 1 st year, P	BSc degree in Management Informatics and degree in Computer Science	ULHT	TM
2011/12,	19	Systems Analysis, 3 rd year, T+P	BSc degree in Information	UBI	C

Year, semester	Number of students (approx.)	Unit, curricular year, type of class	Course	University / Polytechnic Institute	Role
1 st			Systems and Technologies		
2010/11, 2 nd ; 2008/09, 2 nd	8 3	Requirements and Software Tests Engineering, 1 st year, T+P	PAGSI - Advanced Program of Management of Information Systems	ULHT	C
2009/10, 2 nd ; 2008/09, 2 nd	4 7	Integration of Mobile Networks and Multimedia Resources, 2 nd year MSc course, T+P	MSc degree on Computer Engineering and Information Systems	ULHT	C
2009/10, 2 nd ; 2008/09, 2 nd	42 32	Complements on Networks, 3 rd year, P	BSc degree in Computer Science Engineering	ULHT	TM
2009/10, 2 nd	59	Networks and Internet Services, 2 nd year, T+P	BSc degree in Computer Science Engineering	UBI	TM
2008/09, 2 nd	98	Communication and Information Systems, 1 st year and 4 th year, T+P	BSc degree in Nursing	IPG - ESG	C
2008/09, 1 st	35	High Speed Networks, 3 rd year, T	BSc degree in Computer Science Engineering	UAL	C
2008/09, 1 st	48	Modelling Databases, 2 nd year, T	BSc degree in Computer Science Engineering	UAL	TM
2008/09, 1 st ; 2007/08, 1 st	73 69	Programming Languages 2, 2 nd year, P	BSc degree in Computer Science Engineering and degree in Management on Information Systems	ULHT	TM
2007/08, 2 nd	24	Networks and Communications, 2 nd year, P	BSc degree in Computer Science Engineering	UAL	TM
2007/08, 2 nd	16	Network and System Management, 3 rd year, P	BSc degree in Computer Science Engineering	UAL	TM
2007/08, 2 nd	15	Software Requirement and Tests Engineering, 1 st year, T+P	MSc degree in Software Engineering and Information Systems	ULHT	C
2007/08, 1 st	139	Foundations on Programming, 1 st year, T	BSc degree in Computer Science Engineering and degree in Management Informatics	ULHT	C
2007/08, 1 st	138	Modelling Databases, 2 nd year, T	BSc degree in Computer Science Engineering,	UAL	C

Year, semester	Number of students (<i>aprox.</i>)	Unit, curricular year, type of class	Course	University / Polytechnic Institute	Role
			degree in Management Informatics and degree in Computer Science		

The following table contains the teaching activities related to professional training or to courses taught in the context of Cisco Academies. The first column contains the dates of the start and finish of the course (start month-end month, year), the second column contains the number of students, the third column contains the number of hours taught, and the fourth and fifth columns contain the name of the course and the location where the course was taught. In this list it was also included the 2015 Introduction to Python summer school course, taught to a class of six high school students.

Table 11-Details for additional teaching activities since 2007.

Date (start-end months, year)	Number of students	Number of hours	Course	Location
10 March 2017	10 + 15 high school teachers	3 + 3	<i>Utilização de ferramentas gratuitas para suporte a actividades lectivas</i>	ESCM
10-11, 2016	16	17.5	Linux Essentials	CFIUTE
4-5, 2016	10	17.5		
6-7, 2015	6	20	Introduction to Python	UBI
9-11, 2015	25	60	Systems Analysis	CFIUTE
8-8, 2015	30	24	IPv6	<i>Universiti Teknologi Malaysia, Johor Bauru, Malaysia</i>
2-3, 2016	11	17.5	CISCO CCNA Introduction to Networks	<i>CFIUTE</i>
3-4, 2015	12	35		
2-3, 2015	14	17.5		
10-11, 2013	12	17.5		
5-6, 2015	12	17.5	CISCO CCNA Connecting Networks	CFIUTE
10-11, 2015	12	17.5		
6-7, 2015	12	17.5	CISCO CCNA Scaling Networks	CFIUTE
1-4, 2014	12	17.5	CISCO CCNA Routing and Switching Essentials	CFIUTE
10-11, 2013	10	17.5	CISCO CCNA Routing Protocols	CFIUTE
3-4, 2013	10	17.5	CISCO CCNA LAN Switching and Wireless	CFIUTE

Date (start-end months, year)	Number of students	Number of hours	Course	Location
11-12, 2012	14	17.5	CISCO CCNA Network Fundamentals	CFIUTE
1-4, 2012	13	60	Database Modelling (<i>Modelação de Bases de Dados</i>) for high school teachers	<i>Centro de Formação da Associação de Escolas da Beira Interior</i>

Additional teaching activities can be described / summarized as follows:

2011/2012: instructor for the Database Modelling module (*Modelação de Bases de Dados*) at the post-secondary level V technologic specialization course (*Curso de Especialização Tecnológica - CET*) on the Information Systems and Network Management (*Gestão de Redes e Sistemas de Informação*) course;

2011/2012: instructor for the Computer Systems and Network Management module (*Gestão de Redes e Sistemas Informáticos*) at the post-secondary level V technologic specializations course (*Curso de Especialização Tecnológica - CET*) on the Information Systems and Network Management (*Gestão de Redes e Sistemas de Informação*) course;

Janeiro 2011-Abril 2011: instructor at the *Centro de Formação da Associação de Escolas da Beira Interior* on the Internet Technologies (*Tecnologias da Internet*) course for 15 high-school teachers;

April 2002 - August 2002: Computer Science Teacher at the *Escola Secundária Campos Melo*, Covilhã, Portugal;

2007/2008: instructor for the Computational Systems module (*Sistemas de Computação*) at the post-secondary level V technologic specializations course (*Curso de Especialização Tecnológica - CET*) on Software Development and Systems' Administration (*Desenvolvimento de Software e Administração de Sistemas*) course;

2007/2008: instructor for the Computer Network Security module (*Segurança de Redes Informáticas*) at the post-secondary level V technologic specializations course (*Curso de Especialização Tecnológica - CET*) on Software Development and Systems' Administration (*Desenvolvimento de Software e Administração de Sistemas*) course;

2005/2006: instructor at the Systems and Networks Administration and Management module (*Administração e Gestão de Redes e Sistemas*) at the post-secondary level V technologic specializations course (*Curso de Especialização Tecnológica - CET*) on the Installation and

Maintenance of Networks and Computer Systems (*Instalação e Manutenção de Redes e Sistemas Informáticos*) course;

October 1987 - August 1994: Computer Science Teacher and Computer Science Group Leader at the *Frei Heitor Pinto* High School (*Escola Secundária Frei Heitor Pinto*), Covilhã, Portugal.

ANNEX C-Detailed Curricular Units Files

Curricular Units taught in BSc, MSc and PhD courses in the last two years

(this annex has been removed in this version in order to reduce the size of the PDF file. Nevertheless this information is available on request).

ANNEX D-Detailed advisory of students for the curricular units of Project, Internship, or Seminar

He is or was advisor for the final project curricular unit for the following Bachelor of Science degree students:

- João Martins, Computer Science Engineering BSc student, “*Estudo de uso de Multihoming IPv6* (Study of multi-homing in IPv6)”, UBI, July 2017;
- Kevin Clemente, Computer Science Engineering BSc student, “*Sistema de gestão de acessos a laboratório* (Laboratory access management system)”, UBI, July 2017;
- João Vilelas, Computer Science Engineering BSc student, “*Aplicação para determinação de uma área em imagem termográfica* (Application to determine the area in a thermography)”, UBI, July 2017;
- Marco Cassapo, Computer Science Engineering BSc student, “*Plataforma de avaliação de desempenho de comunicações em rede para IPv4 e IPv6* (Platform to assess the performance of IPv4 and IPv6 communications)”, UBI, July 2017;
- Ana Bárbara Matos, Computer Science Engineering BSc student, “*Criação de cenários de aprendizagem em Redes de Computadores* (Creation of scenarios for learning Computer Networks)”, UBI, July 2016;
- Rui Santos, Computer Science Engineering BSc student, “*Análise de som doméstico no contexto de Ambient Assisted Living* (Domestic sound analysis in the context of Ambient Assisted Living)”, UBI, July 2016;
- João Ribeiro, Computer Science Engineering BSc student, “*InfraEstrutura de gestão e endereçamento IPv6* (Management infrastructure for IPv6)”, UBI, July 2016;
- Sofia Alexandra Ramos Ambrósio, Bioengineering BSc student, seminar on “*Algorithms for motif discovery in genomic DNA sequences*”, co-supervisor, UBI, June 2016;
- Gil da Graça Dias, Bioengineering BSc student, seminar on “*Collection and Analysis of Biosignals in Swimming*”, co-supervisor, UBI, June 2016;
- Sandra Marisa Vieira Reis, Bioengineering BSc student, seminar on “*Uso de sensores no teste Timed up and Go para avaliação de idosos* (Use of sensors in the Timed Up and Go test for elderly assessment)”, co-supervisor, UBI, June 2016;

- Inês Vicente Alexandre, Bioengineering BSc student, seminar on “*Análise de emoções através da visualização de imagens* (Emotion analysis through images visualization)”, supervisor, UBI, June 2016;
- Hugo Jorge, Tiago Reis, Management Informatics BSc students, “Microsoft Dynamics CRM 2015 System Requirements / Implementation”, BSc degree in Management Informatics, ULHT, December 2015;
- Alexandre Janeiro, Cláudia Janeiro, Management Informatics BSc students, “TechWeb-Plataforma Web de Apoio à Organização de Conferências Científicas (TechWeb-Science Conferences Organization Support Web Platform)”, ULHT, September 2015;
- David Mota, Computer Science Engineering BSc student, “Technology Radar”, UBI, June 2015;
- Renato Carvalho, Computer Science Engineering BSc student, “Innovation Harvesting Tool”, UBI, June 2015;
- Davide Barruncho, Computer Science Engineering BSc student, “*Chamar Táxi* (Taxi Call)”, ULHT, November 2014;
- Celina Alexandre, Computer Science Engineering BSc student, “*Plataforma de monitorização de uma rede de transportes públicos* (Public transport monitoring platform)”, UBI, July 2014;
- Fábio Cabral, Computer Science Engineering BSc student, “Mobile application for collection of accelerometer data from smartphones in the context of Ambient Assisted Living”, UBI, July 2014;
- Rui Santos, Computer Science BSc Engineering student, “*Aplicação móvel para o exercício de caminhar em linha reta no contexto de Ambient Assisted Living* (Mobile application to monitor the exercise of walking in a straight line in the context of Ambient Assisted Living)”, UBI, July 2014;
- Ricardo Sá, Computer Science BSc Engineering student, “*Análise da possibilidade de uso de Eulerian Video Magnification em sistemas de análise de variação de vascularização no contexto de Ambient Assisted Living* (“Analysis of the possibility of use of Eulerian Video Magnification for vascularization variation analysis systems for Ambient Assisted Living)”, UBI, July 2014;
- Hugo Alexandre Antunes Rodrigues, Computer Science Engineering BSc student, “Tool for Analysis of the Movements During Sleep in the context of Ambient Assisted Living”, UBI, July 2014;
- João Pedro Veiga da Silva e Veiga Ferro, Computer Science Engineering BSc student, “*A computação ubíqua, a Internet das Coisas e a Internet do Futuro* (Ubiquitous computing, the Internet of Things and the Internet of the Future)”, ULHT, November 2013;

- Rui Filipe Pereira dos Santos, Computer Science Engineering BSc student, “*Aplicação móvel para o exercício de caminhar em linha reta no contexto de Ambient Assisted Living* (Creation of a mobile application to support the exercise of walking on a straight line)”, UBI, July 2014;
- Rui Filipe Almeida Costa, Computer Science Engineering BSc student, “*Criação de uma plataforma móvel de e-learning* (Creation of a mobile e-learning platform)”, UBI, June 2013;
- André Lourenço, Computer Science Engineering BSc student, “*Criação de uma plataforma Web para gestão de leilões dinâmicos on-line* (Creation of a web platform for the management of dynamic auctions)”, UBI, June 2013;
- Fernando Jesus, Computer Science Engineering BSc student, “*Desenvolvimento de uma aplicação para tablet de avaliação de fatores de risco no âmbito de segurança, higiene e saúde no trabalho* (Development of a tablet application to evaluate risk factors on safety, hygiene and health in work)”, UBI, June 2013;
- Carlos Alberto Cabral Vitória Ferrão Lopes, Computer Science Engineering BSc student, “*Criação de uma plataforma móvel de monitorização de aprendizagem para escolas de condução* (Creation of a mobile platform for the monitoring of learning in driving schools)”, UBI, June 2013;
- Rafael Sereno, Computer Science Engineering BSc student, “*Gestão e acesso remoto a filas de espera* (Management and remote access to queues)”, UBI, Junho 2013;
- Adilson da Silva and Maria Gabriela Rio, Computer Science Engineering BSc student, “*GestOn - Site de Acompanhamento de Financiamento* (GestOn-Financing reporting web site)”, ULHT, October 2012;
- Erivaldo Renato Camarada da Silva, Computer Science Engineering BSc student, “*Cloud computing report*”, ULHT, October 2012;
- João Espírito Santo and André Restolho, Computer Science Engineering BSc student, “*Portal de gestão de tutorias* (Tutoring management portal)”, ULHT, July 2012;
- Cláudio António, Computer Science Engineering BSc student, “*Interface Web Mobile para serviços NETPA* (Web mobile application for NETPA services)”, ULHT, July 2012;
- Carlos Silva and David Oliveira, Computer Science Engineering BSc student, “*Virtualização e Green Computing* (Virtualization and Green Computing)”, ULHT, July 2012;
- Paulo Fernandes, Computer Science Engineering BSc student, “*Aplicação de análise de dados de bolsa* (Stock market data analysis application)”, ULHT, July 2012;

- José Ferreira and Marco Reis, Computer Science Engineering BSc student, “*Aplicação de gestão de Instituições Particulares de Solidariedade Social* (Management application for private institutions for social solidarity)”, ULHT, July 2012;
- Rafael Gonçalves Couto, Computer Science Engineering BSc student, “SIMTEV Interaction system for lifestyles monitoring and training”, UBI, July 2012;
- Samuel Alves, Computer Science Engineering BSc student, “*Gestão da iluminação de um edifício* (Lighting management for a building)”, UBI, July 2012;
- Pedro Jorge Madeira Tavares, Computer Science Engineering BSc student, “*Sinais fisiológicos e algoritmo de batimentos cardíacos em têxteis inteligentes* (Physiological Signals and heart beat detection algorithm for intelligent textiles)”, UBI, July 2012;
- Luís Filipe Carvalho Geraldês, Computer Science Engineering BSc student, “*Desenvolvimento de um Lock Bag através de um eléctrodo têxtil na plataforma Arduino* (Development of a lock bag using textile electrodes and an Arduino platform)”, UBI, July 2012;
- Paulo Pires, Computer Science Engineering BSc student, “*Sistema Integrado de Gestão de Acessos e Registo Regular de Actividades* (Integrated Access Management and Activities Registry System)”, ULHT, July 2011;
- Carlos Pimentel, Ricardo Bessa, Computer Science Engineering BSc student, “*Criação de uma versão do IPCOP produzida no contexto universitário português* (Development of an academic version of IPCOP)”, ULHT, July 2011;
- Paulo Matos, Computer Science Engineering BSc student, “*Gestão de Informação biblio-económica de clientes externos* (Biblio-economic information management for external clients)”, ULHT, July 2011;
- Mafalda Grilo, João Conceição, Computer Science Engineering BSc students, “*Rede Social Lusofónicos* (Lusophone social network)”, degree on Computer Science Engineering, ULHT, July 2011;
- Lino José, Computer Science Engineering BSc student, “*Chaveiro em RFID* (RFID keylocker)”, ULHT, July 2011;
- Edmar Assunção, Melkisedek Pedro Bequengue, Computer Science Engineering BSc students, “*Aplicação Web para gestão de catálogos e conteúdos* (Web application for catalog and content management)”, ULHT, July 2011;
- João Miguel da Costa Aparício, Computer Science Engineering BSc student, “*Ferramenta de cartografia bio-fisiológica* (Tool for bio-physiologic cartography)”, Degree on Computer Science Engineering, UBI, 2010/2011;

- Micael João da Silva Santos, Computer Science Engineering BSc student, “*Registo e Sincronização de Dados Fisiológicos e de Dados de Geolocalização* (Record and synchronization of physiologic and geolocation data)”, UBI, July 2011;
- Valdemiro Évora, Management Informatic BSc student, “*Qualidade de Experiência da Utilização da Internet em Cabo Verde* (Quality of Experience on Internet use in Cape Verde)”, ULHT, July 2011;
- Ricardo Santana, Fernando Santos, Management Informatics BSc students, “*Ferramenta de suporte à força de vendas* (Tool for work-force support)”, ULHT, July 2010;
- Vitor Fernandes, Rui Santos, Computer Science Engineering BSc students, “*Ferramenta de apoio integrado ao grafismo de sinais biofisiológicos em bibliotecas de domínio público* (Chart and graphic tool to public domain bio-physiologic signals libraries)”, ULHT, July 2010;
- Francisco Cabrita, Luís Monteiro, Computer Science Engineering BSc students, “*FreeBSD Virtual Private Server Management Solution*”, ULHT, July 2010;
- Flávio Leandro, Computer Science Engineering BSc student, “*Criação de um guião de formação e desenvolvimento de uma acção de formação na instalação e configuração da ferramenta NAGIOS* (Creation of a training script and a training course on the installation and configuration of NAGIOS)”, ULHT, July 2010;
- Francisco Santos, Maria Suzeth Barreto, Management Informatics BSc students, “*Criação de um portal de rádio online* (Development of an on-line radio web portal)”, ULHT, July 2009;
- Bruce Ferreira, Management Informatics BSc student, “*Implementação / Optimização de uma plataforma CRM (SIEBEL)* (Implementation and optimizador of a CRM platform (SIEBEL))”, ULHT, July 2009;
- Nilson Vieira, Francisco Ventura, Computer Science Engineering BSc students, “*Aplicação Cooperativa Angolana para o Desenvolvimento* (Application for the Angolan Development Cooperative)”, BSc degree in Computer Science Engineering, ULHT, July 2009;
- Arley Leal Silveira, Computer Science Engineering BSc student, “*Desenvolvimento de uma aplicação para extração de meta-dados da estrutura de DNS* (Development of a meta-data extraction tool for the DNS structure)”, ULHT, July 2009;
- Marco Moniz, Computer Science Engineering BSc student, “*Aplicação de Gestão Documental* (Application for document management)”, ULHT, July 2008.

At UBI, he is or was supervisor of the following TSI BSc students in curricular internship:

- João Balina, curricular internship at Medocuf, Fundão, Portugal, February 2017-June 2017;
- Guillaume Aguiar Coelho, curricular internship at Accounting2You, Covilhã, Portugal, February 2016-June 2016;
- João Paulo Almeida Silva, curricular internship at ALLab, Covilhã, Portugal, February 2016-June 2016;
- João Luís Fernandes Caseiro, curricular internship at ASSEC SIM Lda., Covilhã, Portugal, February 2016-June 2016;
- André Filipe Martins de Matos Santos, curricular internship at Eyesee Solutions Lda., Lisbon, Portugal, February 2015-June 2015;
- Cristiano Sebolão, curricular internship at Yazaki Saltano SA, Aveiro, Portugal, February 2015-June 2015;
- Catarina Alexandra Carrazedo Lourenço, curricular internship at PC Medic, Fundão, Portugal, February 2014-June 2014;
- Carlos Daniel Pereira Tavares, curricular internship at IS2You Lda, Fundão, Portugal, February 2014-June 2014;
- João Paulo Lopes Gomes, curricular intership at ASSEC SIM Lda., Covilhã, Portugal, February 2014-June 2014;
- Cátia Sousa Lopes curricular intership at ASSEC SIM Lda., Covilhã, Portugal, February 2014-June 2014;
- Pedro Nuno Lopes Arcão, curricular internship at *Centro Tecnológico em Educação*, Covilhã, Portugal, February 2013-June 2013.

ANNEX E-Detailed scientific supervisory of scholarships

He is or was scientific supervisor for the following grantees:

- Research Scholarship (BI), funded by UBI, grant recipient João Nuno Gabriel Isento, from 1 February 2018 to 1 August 2018;
- Research Scholarship (BI), funded by UBI, grant recipient Dmytro Vasyanovych, from 1 October 2016 to 30 September 2017;
- Research Scholarship (BI), funded by UBI, grant recipient Virginie Felizardo, from 1 October 2016 to 30 September 2017;
- Research Scholarship (BI), funded by Eyesee Lda, grant recipient Valdir Ramgi, from 15 February 2015 to 14 February 2016;
- Research Scholarship (BI), funded by FAVVUS IT-HR SA, grant recipient Dmytro Vasyanovych, from 1 February 2015 to 31 January 2016;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Celina Alexandre, from 1 September 2014 to 31 December 2014;
- Research Scholarship (BI), funded by FAVVUS IT-HR SA, grant recipient Quoc Trong Nguyen, from 1 September 2014 to 31 August 2015;
- Scientific Initiation Scholarship (BIC) funded by TICE.Healthy, grant recipient João Silva, from 16 July 2014 to 31 December 2014;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Nuno Ricardo Cruz Garcia, from 16 July 2014 to 31 August 2014;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Paula Sousa, from 16 July 2014 to 31 December 2014;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Virginie Felizardo, from 16 July 2014 to 31 December 2014;
- Scientific Initiation Scholarship (BIC), funded by True-Kare Lda, grant recipient Cristiano Ramos, from 1 April 2014 to 30 September 2014;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Daniel Oliveira, from 1 January 2014 to 31 December 2014;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Nuno Cruz Garcia, from 1 January 2014 to 31 December 2014;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Paula Sousa, from 1 January 2014 to 31 December 2014;

- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Virginie Felizardo, from 1 January 2014 to 31 December 2014;
- Scientific Initiation Scholarship (BIC), funded by projecto EyeSeeLab, grant recipient Miguel Antunes, between 17 December 2013 to 16 June 2014;
- Scientific Initiation Scholarship (BIC), funded by projecto EyeSeeLab, grant recipient Tiago Ferreira, from 2 October 2013 to 1 April 2014;
- Scientific Initiation Scholarship (BIC), funded by projecto EyeSeeLab, grant recipient Luís Marques, from 2 October 2013 to 1 April 2014;
- Scientific Initiation Scholarship (BIC), funded by projecto EyeSeeLab, grant recipient Edgar Oliveira, from 2 September 2013 to 4 November 2013;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Daniel Oliveira, from 16 July 2013 to 31 December 2013;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Paula Sousa, from 16 July 2013 to 31 December 2013;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Virginie Felizardo, from 16 July 2013 to 31 December 2013;
- Scientific Initiation Scholarship (BIC), funded by projecto EyeSeeLab, grant recipient Miguel Antunes, from 17 June 2013 to 16 December 2013;
- Research Scholarship (BI), funded by projecto EyeSeeLab, grant recipient Filipe Quinaz, from 2 April 2013 to 20 September 2013;
- Scientific Initiation Scholarship (BIC), funded by projecto EyeSeeLab, grant recipient Luís Marques, from 2 April 2013 to 1 October 2013;
- Scientific Initiation Scholarship (BIC), funded by projecto EyeSeeLab, grant recipient Tiago Ferreira from 2 April 2013 to 1 October 2013;
- Scientific Initiation Scholarship (BIC), funded by TICE.Healthy, grant recipient Daniel Oliveira, from 16 July 2012 to 15 July 2013;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Paula Sousa, from 16 July 2012 to 15 July 2013;
- Scientific Initiation Scholarship (BIC), funded by TICE.Healthy, grant recipient Rafael Couto, from July 2012 to July 2013;
- Research Scholarship (BI), funded by TICE.Healthy, grant recipient Virginie Felizardo, from 16 July 2012 to 1 July 2013;

ANNEX F-Detailed participation in juries for PhD, MSc and BSc exams

He is or was member of the academic jury for the following PhD students:

- Eftim Zdravevski, PhD thesis in Computer Science Engineering, with the title “Parallelization of algorithms for data processing and classification”, jury member, Ss. Cyril and Methodius University, Skopje, FYRo Macedonia, June 2017;
- Laura Montanini, PhD thesis in Information Engineering, with the title “Smartphone Applications for AAL and Well-being in the Home Environment”, jury member, *Università Politecnica delle Marche*, Ancona, December 2016;
- Jing Guo, PhD thesis on Sciences and Technologies of Information and Communication, with the title “*Serious Games pour la e-Santé: application à la formation des médecins généralistes* (Serious Games for e-Health: application to the training of general medical practitioners)”, jury member, *Université Toulouse 3 Paul Sabatier*, France, June 2016;
- Daniel Luís Silveira Robalo, PhD thesis on Computer and Electrotechnical Engineering, with the title “Planning and Dynamic Spectrum Management in Heterogeneous Mobile Networks with QoE Optimization”, jury member, UBI, December 2014.

He was member of the academic jury for the following MSc students:

- João Pedro Cravosa Rainho, MSc dissertation in Software Development and Interactive Systems, with the title “*Aplicação Analítica Móvel para suporte ao Turismo, Economia e Mobilidade Urbana*”, main jury, IPCB, December 2017;
- João Mário Carvalho de Oliveira Marques, MSc dissertation in Medicine, with the title “*Agenda para a Saúde – mOrganizer Aplicação móvel Android para uso em Medicina* (Health agenda – mOrganizer Android mobile application for use in Medicine)”, main jury, UBI, June 2017;
- Catarina Lopes Vicente, MSc dissertation in Fashion Design with the title “*O design de calçado e a impressão 3D* (Shoe design and 3D printing)”, jury, UBI, June 2016;
- Patrícia Vasconcelos Costa, MSc dissertation in Medicine, with the title “*Medicina na palma da mão, Consequencias da introdução da informática nas ciências médicas* (Medicine in the palm of the hand, consequences of the introduction of computer science in the medical sciences)”, main jury, UBI, June 2016;

- Filipe Miguel Carrão Gonçalves, MSc dissertation in Computer Science Engineering, with the title “Core Solutions Transformation”, jury member, UBI, October 2015;
- Pedro Nuno Pinto, MSc dissertation in Electrotechnical and Computer Engineering, with the title “*Dispositivo de monitorização de segurança alimentar (Device to monitor food safety)*”, main jury, UBI, November 2015;
- Luís Manuel Pinto da Costa, MSc dissertation in Software Development and Interactive Systems, with the title “*Estrada Segura AAF Aplicação Android e Alertas no Facebook (Safe Road AAD Android Application and Facebook Alerts)*”, main jury, IPCB, July 2015;
- Márcia Macedo Bernardino, MSc dissertation in Mobile Computing, with the title “*Sistema de Detecção de Cansaço para Condutores (System to detect tiredness in drivers)*”, main jury, IPG, May 2015;
- Francisco José Fialho Nunes, MSc dissertation on Informatic and Engineering Technologies, with the title “*Criptosistema para sistema de ficheiros de grids de armazenamento (Cryptosystem for a storing grid file system)*”, main jury, UAL, July 2014;
- Clara Eloise Fernandes, MSc dissertation in Fashion Design, with the title “*Interação e tecnologia ao serviço da moda: a interação com o interface virtual Kinect (Interaction and technology at the service of fashion: The Virtual Interface Kinect Interaction)*”, main jury, UBI, October 2013;
- João José Teles Gouveia, MSc dissertation in Computer Science Engineering, with the title “*Mecanismos de autenticação em serviços baseados em Cloud (Authentication mechanisms for cloud based services)*”, president of the jury, UBI, October 2013;
- Micael João da Silva Santos, MSc dissertation in Computer Science Engineering, with the title “*Uso da Entropia de Shannon para classificação de zonas artificiais ou naturais em imagens (Use of Shannon’s entropy for classification of artificial or natural areas in images)*”, jury member, UBI, October 2013
- Ana Isabel Ruim Ramos, MSc dissertation in Mobile Computing, with the title “*SolGlobal - gestão de organizações sem fins lucrativos com Salesforce (SolGlobal-management of not-for-profit organizations with Salesforce)*”, main jury, IPG, October 2013;
- Cristina da Conceição Pinheiro, MSc dissertation in Mobile Computation, with the title “*Sistema de gestão de allotments em unidades hoteleiras (Hotel unit allotment management system)*”, main jury, IPG, March 2013;
- Nuno Miguel Cerqueira da Costa, MSc dissertation in Biomedical Engineering, with the title “*User friendly knowledge acquisition system for medical devices actuation*”, main jury, *Universidade Nova de Lisboa*, Lisbon, November 2012;

- Isabel Patrícia Pinheiro Peixoto Xavier, MSc dissertation in Electrotechnical and Computer Engineering, Bionic Systems course, with the title “*Estudo da reacção humana aos odores através da análise dos sinais da electroencefalografia* (Study of human reaction to odors through the analysis of electroencefalography signals)”, main jury, UBI, October 2012;
- Daniel André Gonçalves Torres, MSc dissertation in Medicine, with the title “Feasibility of near infrared spectroscopy in stroke patients”, main jury, UBI, July 2012;
- Maria João Moreno Semedo, MSc dissertation in Computer Science Engineering and Information Systems, with the title “*Ganhos de produtividade e sucesso de metodologias ágeis vs metodologias em cascata no desenvolvimento de projectos de software* (Productivity gains and success of the agile methodologies vs. cascade methodologies in the development of software projects)”, president of the jury, ULHT, July 2012;
- Amílcar Tiago Moniz Faria, MSc dissertation in Electrotechnical and Computer Engineering, Bionic Systems course, with the title “*Desenvolvimento de um sistema pericial de apoio ao diagnóstico clínico do carcinoma da próstata* (Development of an expert system to support the clinical diagnosis of the prostate cancer)”, main jury, UBI, July 2012;
- Filipe Costeira Varela, MSc dissertation in Computer Science Engineering and Information Systems, with the title “*Desenho de superfícies planetárias em 3D* (Design of planetary 3D surfaces)”, main jury, ULHT, March 2012;
- Paula de Jesus Salvador Agostinho, MSc dissertation in Software Engineering and Information Systems, with the title “*Business Process Management para uma organização mais ágil* (Business Process Management for a more agile organization)”, president of the jury, ULHT, November 2011;
- Joana Margarida Ribeiro Paulo, MSc dissertation in Electrotechnical and Computer Engineering, with the title “*Avaliação e aperfeiçoamento das especificações técnicas em dispositivos de lipospiração não-invasiva por ultra-sons* (Evaluation and refinement of the technical specifications in non-invasive ultra-sound liposuction equipments)”, main jury, UBI, November 2011;
- Luís Miguel Freire Machado Borges, MSc dissertation in Software Engineering and Information Systems, with the title “*Gestão e trabalhadores do conhecimento em tecnologias da informação (UML)* (Management and knowledge workers in Information Technology (UML))”, president of the jury, ULHT, October 2011;
- Ricardo Ferreira, MSc dissertation in Software Engineering and Information Systems, with the title “Tests and software quality, best-tests applied to the software development industry”, jury member, ULHT, May 2011;

- António José Brito Ferrão, MSc dissertation in Software Engineering and Information Systems, with the title "*Recrutamento e Selecção: uma solução tecnologicamente integrada* (Recruitment and Selection: a technologically integrated solution)", main jury, ULHT, January 2011;
- Luís Miguel Gamanho Cardoso, MSc dissertation in Electrotechnical and Computer Engineering, with the title "*Adaptação do Robosapien V2 para o MSP430* (Adaptation of the Robosapien V2 for the MSP430)", jury member, UBI, November 2010;
- Tiago Carvalho Moreira, MSc dissertation in Electrotechnical and Computer Engineering with the title "*Programação e Implementação de um Sistema Facial Robótico* (Programming and implementation of a robotic facial system)", main jury, UBI, November 2010;
- Paula Sousa, MSc dissertation in Biomedical Sciences with the title "Assessment of the state of health by the measurement of a set biophysiological signals", jury member, UBI, November 2010;
- Virginie Felizardo, MSc dissertation in Electrotechnical and Computer Engineering with the title "Aquisition of physiological parameters to assess the caloric expenditure using an accelerometer", jury member, UBI, November 2010.

In June-July 2015, he was President of the Jury for thirty-two projects at UBI. Names of students and of project names (original, not translated) are as follows:

- Alexandre João Alves de Castro, "*Aplicação Android para Recolha e Transmissão de Dados de Fisiológicos de Equipamento com Near Field Communication*";
- André Filipe da Silva Amaral, "*Banco de exercícios em MongoDB*";
- André Filipe Ramalhinho Mendes, "*Página Web da Beira Serra*";
- António Pedro da Costa Lousado Pinto Lourenço, "*Avaliação de variáveis para previsão de séries temporais através de técnicas de Data Mining*";
- António Pedro Rodrigues Gaspar, "*Aplicação Móvel para Monitorização das Atividades de um Utilizador em Dispositivos Móveis de Empresas*";
- Antonio Samuel Coutada da Cunha, "A Mobile Health Application using Low Cost Sensors";
- Bruno Miguel Quintino Nunes, "*Interface para Visualização em PLN*";
- Cátia Marina Rodrigues Cruz, "Graphical Application for Coding Football Moves";
- César André Gaspar Lopes, "*Software baseado em localização: Comparação de APIs e desenvolvimento de caso de estudo*";

- David Manuel Fernandes Mota, "*Aplicação de Radar de Tecnologia*";
- Eunice Raquel Domingues Martins, "Prove this paper!";
- Hugo Miguel Marçal Paulino, "*Estratégias de Prova de Teoremas Grátis*";
- Inês Gonçalves Fátelo Lopes, "*Rotas do têxtil*";
- João Eduardo Casaca Campos, "MOKids - Math Operations for Kids";
- João Nuno Martins Ramos, "*Auto-Semelhança na Caracterização Textual*";
- João Santos Reis, "Format Preserving Encryption and Java Language Based Security";
- José Eduardo Sanches Mateus Lourenco, "*Otimização de operadores de tone mapping*";
- Kelly Amaral, "*Sistema de Monitorização da Retinopatia Diabética*";
- Luís Miguel Marques Correia, "*Simulador da pressão arterial*";
- Luís Nuno Pimentel de Lima Garcia, "*Construção de plataforma web para estação de medição de aerossóis atmosféricos*";
- Luís Pedro Arrojado da Horta, "Homomorphic Encryption and Java Language Based Security";
- Marina Veiga Barbosa, "*Desenvolvimento de Plataforma para Software como Serviço*";
- Miguel Gaudencio Miguens, "A Mobile Health Application for Real-time Patients Monitoring using Body Sensor Networks";
- Pedro Miguel Freitas Moura, "A Mobile Health Application for Diagnosis and Actuation Support on Oncology";
- Pedro Nuno Silva Campos, "*O Cartão de Cidadão no Alfresco*";
- Renato Gabriel Mota dos Santos, "GiRAR-Guide of the Research in Augmented Reality";
- Renato Gonçalo Sanlez Lopes, "My Own Safe Remote Storage Device";
- Romeu Xavier Fontinha da Conceição, "Casual Game for Android";
- Rui David Teixeira Paiva, "*Transmissão e Armazenamento Seguro de Mensagens e Ficheiros em Sistemas Android Baseado em Classes de Segurança*";
- Telmo Daniel Martins Reinas, "*Sistema OSINT de Monitorização e Alarmística*";

- Tiago José Lousa Antunes, "Construction of a Real Wireless Sensor Network Testbed for Environment Monitoring";
- Tiago Póvoas Pereira, "Pipelining Army (ARM-in-WHY)".

Other participations in juries as regular member, as follows:

- Ana Rita Runa da Silva Reigones, BSc degree in Bioengineering, "*As tecnologias da informação e comunicação e electrónica (TICE) no sector agropecuário* (Information, communication and electronic technologies in the agriculture and cattle raising sector)", UBI, 2017;
- João Carlos Gregório Gonçalves, BSc degree in Bioengineering, "*Classificação de faixas etárias através de um sinal de ECG* (Age classification through an ECG signal)", UBI, 2017;
- Ana Silva, BSc degree in Computer Science Engineering, "*Construção de uma App para a gestão de informação sobre aconselhamento nutricional no curso das ciências da nutrição* (Nutritional Science App for Information Management on Nutritional Counseling)", UBI, 2013;
- André Vasco Esteves Galvinas, BSc degree in Computer Science Engineering, "*Optimização por colónia de formigas aplicada ao problema da atribuição quadrática* (Ant Colony optimization applied to the quadratic assignment problem)", UBI, 2013;
- Miguel Ramalheira Senos, BSc degree in Computer Science Engineering, "HTML 5 & WebGL", UBI, 2013;
- Sérgio Santos, BSc degree in Computer Science Engineering, "A mobile health application for fall detection and alerting system", UBI, 2013;
- Leandro Zolini and João Ramalho, BSc degree in Computer Science Management, "*Modelação e desenvolvimento de um website para a empresa tempo-team* (Model and development of a website for the Tempo-team company)", ULHT, 2012;
- Rafael Martins Cardoso, BSc degree in Computer Science Engineering, with the project "Authentication on the operating system with quick response codes", UBI, 2012;
- José Chantre, BSc degree on Computer Science Engineering, with the project "*Identificação automática de variantes de Crioulo-Identifikason automatiku di variants di Kriolu* (Automatic identification of variants of Crioulo)", UBI, 2011;
- Pedro Nuno da Rocha Fernandes, BSc degree on Technologies and Information Systems, Traineeship final report, UBI, 2011;

- Henrique da Costa Mendes, BSc degree on Technologies and Information Systems, Traineeship final report, UBI, 2011;
- Dominik Wegrzyn, BSc on Computer Science Engineering, with the project “Implementation of a co-evolutionary genetic algorithm for an optimization model”, UBI, 2011.