

# *Curriculum Vitae*

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# 1. *Biographical Data*

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## 2. *Academic Education*

- December 2017 — PhD degree in “*Informática*” by “*Faculdade de Ciências e Tecnologia / Universidade Nova de Lisboa*”, with the grade “Approved, unanimously”.
- July 2002 — Master degree in “*Engenharia Informática*” by “*Faculdade de Ciências e Tecnologia / Universidade Nova de Lisboa*”, with the grade “Very good, unanimously”.
- July 1998 — Graduation in “*Engenharia Eletrotécnica de Sistemas e Comunicações*” by “*Instituto Superior de Engenharia de Lisboa*”, with the grade of 15 (0 to 20 scale).
- September 1996 — Bachelor degree in “*Engenharia de Eletrónica e Telecomunicações*”, major in “*Eletrónica e Comunicações*”, by “*Instituto Superior de Engenharia de Lisboa*”, with the grade of 15 (0 to 20 scale).
- July 1992 — High school completed.





## 3. *Pedagogical Activities*

### 3.1 *Within Instituto Superior de Engenharia de Lisboa (ISEL)*

#### 3.1.1 **Performed Functions**

- ◆ Adjunct Professor (*Professor Adjunto*) in “*Departamento de Engenharia de Eletrónica e Telecomunicações e de Computadores (DEETC)*”, since January of 2003.
- ◆ Assistant of the Second Triennial (*Assistente de Segundo Triénio*) in “*Departamento de Engenharia de Eletrónica e Telecomunicações e de Computadores*” from September of 2001 to January of 2003.
- ◆ Assistant of the First Triennial (*Assistente de Primeiro Triénio*) in “*Departamento de Engenharia de Eletrónica e Telecomunicações e de Computadores*” from September 1998 to September of 2001.
- ◆ Laboratory Monitor (*Encarregado de Trabalhos*) in “*Departamento de Engenharia de Eletrónica e Telecomunicações e de Computadores*” from January of 1998 to September of 1998.

#### 3.1.2 **Teaching**

Within “*Instituto Superior de Engenharia de Lisboa (ISEL)*” the author of this *curriculum* has collaborated in different degrees where he taught different courses in a total of twenty (20), namely:

**Master degree in “*Engenharia Informática e de Computadores (MEIC)*”, in a total of two (2) courses:**

1. *Computação de Dados de Larga Escala (Large-Scale Data Computation)*
2. *Infraestruturas de Sistemas Distribuídos (Distributed Systems Infrastructures)*

**Master degree in “*Engenharia Informática e Multimédia (MEIM)*”, in a total of one (1) course:**

1. *Computação de Dados de Larga Escala (Large-Scale Data Computation)*

**Master degree in “*Engenharia Redes de Comunicação e Multimédia (MERC M)*”, in a total of one (1) course:**

1. *Complementos de Sistemas Distribuídos (Distributed Systems Complements) / Computação de Dados de Larga Escala (Large-Scale Data Computation)*

**Master degree in “*Engenharia de Eletrónica e Telecomunicações (MEET)*”, in a total of one (1) course:**

1. *Complementos de Sistemas Distribuídos (Distributed Systems Complements)*

**Graduation in “*Engenharia de Informática e Multimédia (LEIM)*”, in a total of four (4) courses:**

1. *Fundamentos de Sistemas Operativos (Operating Systems Fundamentals)*
2. *Modelação e Programação (Modeling and Programming)*
3. *Sistemas Multimédia para a Internet (Multimedia Systems for the Internet)*
4. *Tecnologias de Informação (Information Technologies)*

**Graduation in “*Engenharia de Informática e de Computadores (LEIC)*”, in a total of three (3) courses:**

1. *Sistemas Distribuídos (Distributed Systems)*
2. *Sistemas Operativos (Operating Systems)*
3. *Redes de Computadores (Computer Networks)*

**Graduation in “*Engenharia de Eletrónica e Telecomunicações e de Computadores (LEETC)*”, in a total of two (2) courses:**

1. *Sistemas Computacionais Distribuídos (Distributed Computing Systems)*
2. *Sistemas Operativos (Operating Systems)*

**Graduation in “*Engenharia de Informática e de Computadores - Pré-Bolonha (LEIC - Pré-Bolonha)*”, in a total of four (4) courses:**

1. *Arquiteturas de Sistemas Distribuídos (Distributed Systems Architectures)*
2. *Fundamentos de Sistemas Distribuídos (Fundamentals of Distributed System)*
3. *Sistemas Operativos (Operating Systems)*
4. *Fundamentos de Sistemas Operativos (Operating Systems Fundamentals)*

**Graduation in “*Engenharia de Sistemas das Telecomunicações e Eletrónica (LESTE)*”, in a total of two (2) courses:**

1. *Sistemas Computacionais Distribuídos (Distributed Computing Systems)*
2. *Sistemas Operativos (Operating Systems)*

### **3.1.3 Course Coordinator**

In the last years the author of this *curriculum* has been coordinator of a set of different courses in a total of eight (8), namely:

**Master degree in “*Engenharia Informática e de Computadores (MEIC)*”, in a total of one (1) course:**

1. *Computação de Dados de Larga Escala (Large-Scale Data Computation)*, in the Winter semester during the years 2019/2020 to 2022/2023.

**Master degree in “*Engenharia Informática e Multimédia (MEIM)*”, in a total of one (1) course:**

1. *Computação de Dados de Larga Escala (Large-Scale Data Computation)*, in the Winter semester during the years 2020/2021 to 2022/2023.

**Master degree in “*Engenharia Redes de Comunicação e Multimédia (MERCIM)*”, in a total of one (1) course:**

1. *Complementos de Sistemas Distribuídos (Distributed Systems Complements) / Computação de Dados de Larga Escala (Large-Scale Data Computation)*, in the Winter semester during the year 2019/2020.

**Master degree in “*Engenharia de Eletrónica e Telecomunicações (MEET)*”, in a total of one (1) course:**

1. *Complementos de Sistemas Distribuídos (Distributed Systems Complements)*, in the Winter semester during the years 2007/2008 to 2009/2010.

**Graduation in “*Engenharia de Informática e Multimédia (LEIM)*”, in a total of three (3) courses:**

1. *Fundamentos de Sistemas Operativos (Operating Systems Fundamentals)*, in the Winter semester during the years 2011/2012 to 2013/2014.
2. *Sistemas Multimédia para a Internet (Multimedia Systems for the Internet)*, in the Summer semester during the years 2011/2012 to 2021/2022.
3. *Tecnologias de Informação (Information Technologies)*, in the Winter semester during the years 2014/2015 to 2016/2017 and 2018/2019 to 2019/2020.

**Graduation in “*Engenharia de Informática e de Computadores (LEIC - Pré-Bolonha)*”, in a total of one (1) course:**

1. *Fundamentos de Sistemas Distribuídos (Fundamentals of Distributed System)*, in the Summer semester during the year 2005/2006.

### **3.1.4 Student Advisor**

Along the years as professor in ISEL the author of this *curriculum* had been student advisor in different degrees, namely six (6) master thesis and fifty (50) students projects performing a total of fifty-six (56) works. The detailed list of works is presented in the appendix [A](#).

### **3.1.5 Chair Member in Examination Committee of Master Thesis**

Along the years as professor in ISEL the author of this *curriculum* had been chair member of nineteen (19) master thesis. The detailed list of works is presented in appendix [B](#).

### **3.1.6 Examiner of Thesis and Students Projects**

Along the years as professor in ISEL the author of this *curriculum* had been examiner of several works, including twenty-three (23) master thesis and seventy (70) students projects, performing a total of ninety-three (93) works. The detailed list of works is presented in appendix [C](#).

### **3.1.7 Activities Supporting Teaching**

Design, development and maintenance of a web and e-mail services infrastructure to be used by students in the context of the courses within Systems Engineering section, from 2000 to September 2002.

Development and maintenance of an integrated policy management solution for accessing Windows and Unix / Linux printers and servers based on Server Message Block (SMB), Common Internet File System (CIFS), Network Information Service (NIS) and Network File System (NFS) from 1999 to September 2002.

Design, planning, development and maintenance of a solution for the integrated management of computers in departmental laboratories through an automatic image system (full copy of a disk) involving the Windows and Unix / Linux operating systems from 1999 to September 2002.

Coordinator of the team responsible for managing the computational infrastructure of DEETC software laboratories from 1998 to September 2001.

### 3.1.8 Activities Supporting the Department

Coordinator of the team responsible for the installation, configuration and availability of the Moodle platform of DEETC in the school year 2006/2007. Later on, the author of this *curriculum* collaborate with the team responsible for the expansion of the Moodle platform to the entire campus in the school year 2007/2008.

Collaboration in the coordination of the activities related to management tasks of the software laboratories of the DEETC, from March 1998 to September 2001.

### 3.1.9 Pedagogical Publications and Course Support Materials

The signatory is author or coauthor of course supporting texts (in a total of fifteen (15)), and slides used in the different courses (in a total of seven (7)), performing a total of twenty-two (22) supporting materials.

#### 3.1.9.1 Course Supporting Texts

1. Carlos Gonçalves. *Gestão de Tarefas em Java — Fundamentos de Sistemas Operativos*. Eletronic (PDF), 2018. Departamental de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
2. Carlos Gonçalves. *Gestão de Processos em Java — Fundamentos de Sistemas Operativos*. Eletronic (PDF), 2017. Área Departamental de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
3. Carlos Gonçalves. *Instalação e Configuração do Ambiente de Trabalho da Unidade Curricular de Sistemas Multimédia para a Internet*. Eletronic (PDF), 2016. Área Departamental de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
4. Carlos Gonçalves and Diogo Remédios. *Acesso a Aplicações Java RMI Através de Web Services*. Eletronic (PDF), 2009. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
5. Carlos Gonçalves, Manuel Barata, and Diogo Remédios. *Acesso a Bases de Dados Utilizando JDBC*. Eletronic (PDF), 2009. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
6. Carlos Gonçalves and Diogo Remédios. *Guia dos Exemplos de Apoio á Unidade Curricular de Complementos de Sistemas Distribuídos*. Eletronic (PDF), 2009. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
7. Carlos Gonçalves and Diogo Remédios. *Instalação e Configuração do Ambiente de Trabalho da Unidade Curricular de Complementos de Sistemas Distribuídos*. Eletronic (PDF), 2009. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa

8. Carlos Gonçalves, Luís Assunção, Luis Osório, and Nuno Lourenço. *Criação, Deployment e Teste de um projeto J2EE — Guião 1 (Desenvolvimento de Session Beans)*. Eletronic (PDF), 2006. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
9. Carlos Gonçalves, Luís Assunção, Luis Osório, and Nuno Lourenço. *Criação, Deployment e Teste de um projeto J2EE — Guião 2 (Desenvolvimento de Entity Beans BMP)*. Eletronic (PDF), 2006. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
10. Carlos Gonçalves, Luís Assunção, Luis Osório, and Nuno Lourenço. *Criação, Deployment e Teste de um projeto J2EE — Guião 3 (Desenvolvimento de Entity Beans CMP)*. Eletronic (PDF), 2006. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
11. Carlos Gonçalves, Ana Rito, César Baptista, Diogo Remédios, Luis Sousa, Nuno Lourenço, Nuno Oliveira, and Porfírio Filipe. *Ambiente Linux Windows Disponibilizado pela Secção de Engenharia de Lisboa — Versão 1.2*. Eletronic (PDF), 2005. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
12. Carlos Gonçalves and Nuno Oliveira. *Uniformização de mecanismos de comunicação entre processos em ambiente Windows e Unix*. Eletronic (PDF), 2001. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
13. Nuno Oliveira and Carlos Gonçalves. *Criação e Utilização de CGI's*. Eletronic (PDF), 1999. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
14. Nuno Oliveira and Carlos Gonçalves. *Sincronização e Comunicação em Ambiente Win32*. Eletronic (PDF), 1999. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
15. Carlos Gonçalves, Paulo Carvalho, and Sandra Sousa. *Agregados planos com reflector de antenas lineares para DCS 1800*, anexo v da sebenta "*Sistemas Radiantes Vol. V — Agregados de Antenas*". Eletronic (PDF), 1996. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa

### 3.1.9.2 Course Slides

1. Carlos Gonçalves. *Computação de Dados de Larga Escala — MEIC and MEIM / Complementos de Sistemas Distribuídos — MERCM*. Eletronic (PDF), 2019 — 2023. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
2. Carlos Gonçalves. *Sistemas Multimédia para a Internet — LEIM*. Eletronic (PDF), 2011 — 2022. Área Departamental de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa

3. Carlos Gonçalves and Manuel Barata. *Complementos de Sistemas Distribuídos — MEET*. Eletronic (PDF), 2007 — 2009. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
4. Carlos Gonçalves, Nuno Oliveira, and Diogo Remédios. *Sistemas Operativos — LEIC*. Eletronic (PDF), 2007 — 2008. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
5. Carlos Gonçalves, Nuno Oliveira, and Diogo Remédios. *Sistemas Operativos — LERCM/LEIM*. Eletronic (PDF), 2006 — 2007. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
6. Carlos Gonçalves, Luís Assunção, Nuno Oliveira, and António Teófilo. *Fundamentos de Sistemas Operativos — LEIC Pré-Bolonha*. Eletronic (PDF), 2003 — 2004. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa
7. Carlos Gonçalves and Carlos Coutinho. *Sistemas Computacionais Distribuídos — LESTE*. Eletronic (PDF), 2002 — 2003. Departamento de Engenharia de Electrónica e Telecomunicações, Instituto Superior de Engenharia de Lisboa

### 3.1.10 Positions Held

Member of the Coordinating Committee of the Master Course in Informatics and Computers Engineering since September 2018.

Member of the Coordinating Committee of the Master Course in Computer Networks and Multimedia Engineering since October 2014. In the context of this committee, the signatory has participated in the process “*Pedido Especial de Renovação da Acreditação de Ciclos de Estudos Não Alinhados (PERA)*”, which accredited the course without restrictions.

As member of Coordinating Committee of the Master Courses stated above (“Informatics and Computers” and “Informatics and Multimedia”) the author of this *curriculum* had participated in the processes ACEF/1819/0217182 and ACEF/1819/0900482 carried out by the agency A3ES (© *Agência de Avaliação e Acreditação do Ensino Superior*) that accredited both courses without restrictions for a period of 6 years starting in May of 2022.

Following the ISEL Presidency Order No. 07 / P / 2014, coordinated the electoral process for Coordinator of the Graduation degree in Informatics and Multimedia Engineering. The elections were held on October 2, 2014.

Member of the ISEL Moodle platform support and administration team from September 2007 to June 2011.

Member of the DEETC Laboratory Management Committee from February 1996 to September 2001.

## 3.2 Activities in Other Institutions

Member of the Juri for choosing the Director for the Information Systems Services of the “Secretaria-Geral de Economia”. This activity take place from February to April of 2022.

Teaching of the course Operation Systems, in School of Technology for Military and Aeronautical Studies, under the agreement between ISEL and the Air Force Academy, in the Winter semesters from 2002-2003 to 2007-2008.

Teaching of a module of the "Programming with Java Technologies" training course, which was taught to employees of Partner Solutions under the cooperation protocol “Research, Development, Training and Scientific Technical Assistance” between Partner Solutions and ISEL. This training action is part of the *Grupo de Investigação Aplicada em Tecnologias e Sistemas de Informação (GIATSI)* actions. September 2004.

Collaboration in the Luso-French Scientific and Technical Cooperation program / Institute of International Scientific and Technological Cooperation with the *Faculdade de Ciências e Tecnologia / Universidade Nova de Lisboa (FCT/UNL)*, within the context of the master’s degree course. In this context, a study visit to the INRIA/IMAG center in Grenoble and to the IRISA center in Reene was carried out. December 2001.

By invitation of the *Universidade de Aveiro*, participated as a member of the jury in the “Ciber Rato” competition held at the *Universidade de Aveiro*. April 2001.

Teaching of the operating systems module, in the course of Fundamentals of Computer Programming, in the National Institute of Administration, in the years of 2000 and 2001.

Development of the IT infrastructure of the *Escola Superior de Gestão de Idanha a Nova of Instituto Politécnico de Castelo Branco* within the scope of existing cooperation with ISEL, July 1999.



## 4. *Scientific Activities*

### 4.1 **Research and Development**

Since November of 2022 the author of this *curriculum* is member of the “Polo NOVA LINCS no ISEL”. The creation of this research center result from the collaboration between the NOVA LINCS center and ISEL researchers who are part of the NOVA LINCS center.

Collaborator of the NOVA Laboratory for Computer Science and Informatics (NOVA LINCS), Department of Informatics, *Faculdade de Ciências e Tecnologia / Universidade Nova de Lisboa (FCT/UNL)*, where worked in the Distributed Systems area under the scientific guidance of Professor José Alberto Cardoso e Cunha and Professor Joaquim Francisco Ferreira da Silva, until obtaining the academic degree of Doctor in Informatics, under the PhD program in Computer Science of FCT/UNL. He was also a collaborating member of the Center for Research in Informatics and Information Technology (CITI) that gave birth to the NOVA LINCS Center. After obtaining the PhD title the author of this *curriculum* become an Integrated Member of the NOVA LINCS research laboratory.

Responsible for the development team of the BRISA / PARK project under the co-operation protocol between BRISA — AutoEstradas de Portugal and ISEL, September 2002.

Participated in the preparation of the proposed BRISA / PARK research and development project to BRISA — AutoEstradas de Portugal, June 2002.

Since September of 1998 the author of this *curriculum* is member of the research group *Grupo de Investigação Aplicada em Tecnologias e Sistemas de Informação (GIATSI)* of the *Departamento de Engenharia de Eletrónica e Telecomunicações e de Computadores (DEETC)* of ISEL where he has been developing research activities within the areas he has been teaching.

### 4.2 **Participation in Projects**

Since June of 2020 is involved in the project “RevConstroi – Projecto mobilizador REV@ @CONSTRUCTION”, that is a project financed by *Agência Nacional de Inovação* under

the grant number LISBOA-01-0247-FEDER-046123. The resulting overheads (for ISEL) from the execution of this project were around 63.98 K€.

Participation in the project “SINCRO 2.0 - Desenvolvimento Estratégico CPV- 73100000-3 - Serviços de desenvolvimento experimental e de investigação. Colaboração em contexto de Investigação e experimentação, no desenvolvimento dos Standards Abertos SINCRO”, a partnership between the GIATSI Research Group POLITEC&ID and ANSR (Autoridade Nacional de Segurança Rodoviária). This project started in January of 2022 and had the duration of one year. The resulting overheads (for ISEL/POLITEC&ID) from the execution of this project were around 16.2 K€.

Participation in the project “BP-HORUS - Segurança de Abastecimento em Áreas de Serviço”. This is a reaserch project between the GIATSI Research Group POLITEC&ID and the company BP-Portugal. This project was developed during the 2022 year. The project had a total execution of 72 K€, and the resulting overheads (for ISEL/POLITEC&ID) from the execution of this project were around 10,8 K€.

Participation in the project “*ANSR - Assessoria técnica aos júris de concursos públicos CPi 18/ANSR/2019 e CPi 70/ANSR/2019*”, a partnership between the GIATSI Research Group POLITEC&ID and ANSR (Autoridade Nacional de Segurança Rodoviária). This project started in December of 2020 and had the duration of six months. The project had a total execution of 27 K€, and the resulting overheads (for ISEL/POLITEC&ID) from the execution of this project were around 4,8 K€.

Participation in the research project “*SITL IoT - Sistema de Inteligência nos Terminais Logísticos*”, a partnership between the GIATSI Research Group, POLITEC&ID, Instituto de Desenvolvimento de Novas Tecnologias from Universidade Nova de Lisboa (UNINOVA), and the company FORDESI - Formação, Desenvolvimento e Investigação, S.A. This project was carried out from May 2018 to May 2020. The project had a total execution of 52.625 K€, and the resulting overheads (for ISEL/POLITEC&ID) from the execution of this project were around 7.89 K€.

Participation in the research project “*Estudo de diagnóstico e definição de uma estratégia de Cloud para os sistemas de TI do Governo Regional dos Açores*”, conducted within the GIATSI Research Group, which carried out a study to survey technical information and its consolidation and validation, with a view to characterizing the IT infrastructure of the Regional Government of the Azores (GRA). This study provided GRA with the information need to defined an alignment strategy in the Cloud in order to leverage and monetize existing resources while simultaneously taking advantage of the opportunities offered by the various Cloud service providers. The resulting overheads (for ISEL) from the execution of this project were around 28 K€.

From July 2015 to December of 2017 he was involved in the assembly, installation

and configuration of a computer cluster with equipment offered by Hewlett Packard to ISEL that will allow to complete the laboratory “Laboratory Alcatel-Lucent at ISEL” - one of the most advanced in the country in IP technology and one of the first in the world supported by the company in academic terms - with the virtualization component that supports the existing cloud infrastructures and technologies available at the moment.

In September 2009 he promoted a collaboration with the company Lunacloud that enabled the realization of part of the experimental works, for the preparation of the PhD program, based on the use of a public cloud computing environment.

Participation in the project “TransGRID - Parallel and Distributed Computing with Computational Clusters and Grids”, coordinated by the Center for Research in Information Technology and Technologies of FCT/UNL (CITI FCT/UNL) in partnership with CITI Multimédia and the Natural Language Processing from the Department of Informatics of FCT/UNL. This project was funded by CITI FCT/UNL.

Participation in the project “IBM SUR Equinox Research & Education Program: Cluster and Grid Computing”, coordinated by the Center for Research in Information Technology and Information Technology of FCT/UNL (CITI FCT/UNL). This project was funded by IBM Portugal and was carried out in the context of a partnership between the Department of Materials Science FCT/UNL, the Department of Science and Environmental Engineering FCT/UNL and CITI FCT/UNL.

### 4.3 Scientific Communications

In a total of eleven (11) communications.

1. Carlos Gonçalves, Tiago Dias, A. Luís Osório, and Luis M. Camarinha-Matos. A Multi-supplier Collaborative Monitoring Framework for Informatics System of Systems. In Luis M. Camarinha-Matos, Angel Ortiz, Xavier Boucher, and A. Luís Osório, editors, *Collaborative Networks in Digitalization and Society 5.0*, pages 44–53, Cham, 2022. Springer International Publishing. ISBN 978-3-031-14844-6
2. Carlos Gonçalves, A. Luís Osório, Luís M. Camarinha-Matos, Tiago Dias, and José Tavares. A Collaborative Cyber-Physical Microservices Platform – the SITL-IoT Case. In Luis M. Camarinha-Matos, Xavier Boucher, and Hamideh Afsarmanesh, editors, *Smart and Sustainable Collaborative Networks 4.0*, pages 411–420, Cham, 2021. Springer International Publishing. ISBN 978-3-030-85969-5
3. Carlos Gonçalves and Joaquim Ferreira da Silva and José Cardoso e Cunha.  $n$ -gram Cache Performance in Statistical Extraction of Relevant Terms in Large *Corpora*. In João M. F. Rodrigues, Pedro J. S. Cardoso, Jânio Monteiro, Roberto Lam, Valeira V. Krzhizhanovskaya, Michael H. Lees, Jack J. Dongarra, and Peter M. A. Sloot, editors, *Computational Science – ICCS 2019*, pages 75–88, Cham, 2019. Springer International Publishing. ISBN 978-3-030-22741-8

4. Carlos Gonçalves, Joaquim Ferreira da Silva, and José Cardoso e Cunha. An  $n$ -gram cache for large-scale parallel extraction of multiword relevant expressions with LocalMaxs. In *12th IEEE International Conference on eScience (eScience 2016)*, pages 120–129, October 2016. doi: [10.1109/eScience.2016.7870892](https://doi.org/10.1109/eScience.2016.7870892)
5. Carlos Gonçalves, Joaquim Ferreira da Silva, and José Cardoso e Cunha. A Parallel Algorithm for Statistical Multiword Term Extraction from Very Large Corpora. In *High Performance Computing and Communications (HPCC), 2015 IEEE 17th International Conference on*, pages 219–224, August 2015. doi: [10.1109/HPCC-CSS-ICISS.2015.72](https://doi.org/10.1109/HPCC-CSS-ICISS.2015.72)
6. Carlos Gonçalves, Joaquim Ferreira da Silva, and José Cardoso e Cunha. A PSE for Parallel Extraction of Multiwords and Applications from Large Corpora - Challenges and difficulties when using Cloud environments. *Flash Talk — Workshop NOVA-LINCS, FCT/UNL*, May 2015
7. Carlos Gonçalves, Joaquim Ferreira da Silva, and José Cardoso e Cunha. A PSE for Parallel Extraction of Multiwords and Applications from Large Corpora. *Poster — Workshop NOVA-LINCS, FCT/UNL*, 2014
8. Carlos Gonçalves, Luís Assunção, and José Cardoso e Cunha. Data analytics in the cloud with flexible MapReduce workflows. In *Cloud Computing Technology and Science (CloudCom), 2012 IEEE 4th International Conference on*, pages 427–434, December 2012. doi: [10.1109/CloudCom.2012.6427527](https://doi.org/10.1109/CloudCom.2012.6427527)
9. A. L. Osório, C. Gonçalves, A. Pereira, B. Antunes, N. Barrocas, and A. Amador. It-sibus — jini and radio identification technologies underlying interoperability through a real life open service oriented toll management system for the pan-european motorway network. S. Francisco, USA, June 2005. Sun Microsystems
10. A. L. Osório, A. J. Abrantes, C. Gonçalves, P. Araújo, J. M. Machado, G. C. Jacquet, and J. Sales Gomes. Flexible and plugged peer systems integration to its ibus: the case of efc and lpr systems. In *PROVE'03 — 4th IFIP Working Conference on Virtual Enterprises*, pages 221–230, Lugano, Switzerland, October 2003. Kluwer Academic Publishers
11. Carlos Gonçalves and José Cardoso e Cunha. Simulação distribuída de um sistema de partículas em java. In Instituto Superior de Engenharia de Lisboa, editor, *JETC2002 — Conferência Científica e Tecnológica em Engenharia / Jornadas de Engenharia de Telecomunicações e Computadores*, Lisbon, Portugal, May 2002

## 4.4 Scientific Publications

The signatory is author or coauthor of twenty-four (24) scientific publications, namely, one (1) PhD thesis, one (1) master thesis, two (2) publications in journals and twenty (20) papers. The details of these publications are presented in the next sections.

#### 4.4.1 PhD Thesis

In a total of one (1) PhD thesis.

1. Carlos Gonçalves. *Parallel and Distributed Statistical-based Extraction of Relevant Multiwords from Large Corpora*. PhD thesis, Faculdade de Ciências e Tecnologia / Universidade Nova de Lisboa, December 2017. URL <https://run.unl.pt/handle/10362/28488>

#### 4.4.2 Master Thesis

In a total of one (1) Master thesis.

1. Carlos Gonçalves. Ambiente de execução distribuída para simulação baseada num sistema de partículas. Mestrado em engenharia informática, Faculdade de Ciências e Tecnologia / Universidade Nova de Lisboa, Lisbon, Portugal, July 2002

#### 4.4.3 Journals

In a total of two (2) publications in journals.

1. Luís Assunção, Carlos Gonçalves, and José Cardoso e Cunha. Autonomic Workflow Activities: The AWARD Framework. *International Journal of Adaptive, Resilient and Autonomic Systems (IJARAS)*, Special Issue on the 9th IEEE International Conference on Autonomic and Trusted Computing (ATC 2012), 5(2):57–82, April–June 2014. ISSN 1947-9220. doi: [10.4018/ijaras.2014040104](https://doi.org/10.4018/ijaras.2014040104)
2. Carlos Gonçalves, Luís Assunção, and José Cardoso e Cunha. Flexible MapReduce Workflows for Cloud Data Analytics. *International Journal of Grid and High-Performance Computing (IJGHPC)*, Special Issue on Cloud Computing - Algorithmic, Experimental, Prototyping and Implementation, 5(4):48–64, October–December 2013. ISSN 1938-0259. doi: [10.4018/ijghpc.2013100104](https://doi.org/10.4018/ijghpc.2013100104)

#### 4.4.4 Papers

In a total of twenty (20) papers.

1. A. Luís Osório, Cláudia Antunes, Luis M. Camarinha-Matos, and Carlos Gonçalves. Collaborative Management of Traffic Accidents Data for Social Impact Analytics. In Luis M. Camarinha-Matos, Angel Ortiz, Xavier Boucher, and A. Luís Osório, editors, *Collaborative Networks in Digitalization and Society 5.0*, pages 230–241, Cham, 2022. Springer International Publishing. ISBN 978-3-031-14844-6
2. Carlos Gonçalves, Tiago Dias, A. Luís Osório, and Luis M. Camarinha-Matos. A Multi-supplier Collaborative Monitoring Framework for Informatics System of Systems. In Luis M. Camarinha-Matos, Angel Ortiz, Xavier Boucher, and A. Luís Osório, editors, *Collaborative Networks in Digitalization and Society 5.0*, pages 44–53, Cham, 2022. Springer International Publishing. ISBN 978-3-031-14844-6

3. Bruno Serras, Carlos Gonçalves, Tiago Dias, and A. Luís Osório. Extending the Synoptics of Things (SoT) Framework to Manage ISoS Technology Landscapes. In *2022 International Young Engineers Forum (YEF-ECE)*, pages 80–85, 2022. doi: [10.1109/YEF-ECE55092.2022.9849899](https://doi.org/10.1109/YEF-ECE55092.2022.9849899)
4. A. Luís Osório, Carlos Gonçalves, Tiago Dias, Carlos Lopes, Maria José Espada, and Rui Silva Oliveira. Sistema Nacional de Gestão de Eventos de Trânsito (SINCRO 2.0). In *10<sup>o</sup> Congresso Rodoferroviário Português*, 2022. URL [https://10crp.crp.pt/wp-content/uploads/2022/07/paper\\_140.pdf](https://10crp.crp.pt/wp-content/uploads/2022/07/paper_140.pdf)
5. Carlos Gonçalves, A. Luís Osório, Luís M. Camarinha-Matos, Tiago Dias, and José Tavares. A Collaborative Cyber-Physical Microservices Platform – the SITL-IoT Case. In Luis M. Camarinha-Matos, Xavier Boucher, and Hamideh Afsarmanesh, editors, *Smart and Sustainable Collaborative Networks 4.0*, pages 411–420, Cham, 2021. Springer International Publishing. ISBN 978-3-030-85969-5
6. A. Luis Osório, Luis M. Camarinha-Matos, Tiago Dias, Carlos Gonçalves, and José Tavares. Open and Collaborative Micro Services in Digital Transformation. In Luis M. Camarinha-Matos, Xavier Boucher, and Hamideh Afsarmanesh, editors, *Smart and Sustainable Collaborative Networks 4.0*, pages 393–402, Cham, 2021. Springer International Publishing. ISBN 978-3-030-85969-5
7. Bruno Serras, Carlos Gonçalves, Tiago Dias, and A. Luís Osório. Synoptics of Things (SoT): An Open Framework for the Supervision of IoT Devices. In *2021 International Young Engineers Forum (YEF-ECE)*, pages 127–131, 2021. doi: [10.1109/YEF-ECE52297.2021.9505145](https://doi.org/10.1109/YEF-ECE52297.2021.9505145)
8. Carlos Gonçalves and Joaquim Ferreira da Silva and José Cardoso e Cunha.  $n$ -gram Cache Performance in Statistical Extraction of Relevant Terms in Large Corpora. In João M. F. Rodrigues, Pedro J. S. Cardoso, Jânio Monteiro, Roberto Lam, Valéria V. Krzhizhanovskaya, Michael H. Lees, Jack J. Dongarra, and Peter M. A. Sloot, editors, *Computational Science – ICCS 2019*, pages 75–88, Cham, 2019. Springer International Publishing. ISBN 978-3-030-22741-8
9. Joaquim Ferreira da Silva, Carlos Gonçalves, and José Cardoso Cunha. A theoretical model for  $n$ -gram distribution in big data corpora. In *2016 IEEE International Conference on Big Data (Big Data)*, pages 134–141, December 2016. doi: [10.1109/BigData.2016.7840598](https://doi.org/10.1109/BigData.2016.7840598)
10. Carlos Gonçalves, Joaquim Ferreira da Silva, and José Cardoso e Cunha. An  $n$ -gram cache for large-scale parallel extraction of multiword relevant expressions with LocalMaxs. In *12th IEEE International Conference on eScience (eScience 2016)*, pages 120–129, October 2016. doi: [10.1109/eScience.2016.7870892](https://doi.org/10.1109/eScience.2016.7870892)
11. Carlos Gonçalves, Joaquim Ferreira da Silva, and José Cardoso e Cunha. A Parallel Algorithm for Statistical Multiword Term Extraction from Very Large Corpora. In *High Performance Computing and Communications (HPCC), 2015 IEEE 17th International Conference on*, pages 219–224, August 2015. doi: [10.1109/HPCC-CSS-ICISS.2015.72](https://doi.org/10.1109/HPCC-CSS-ICISS.2015.72)

12. Carlos Gonçalves, Luís Assunção, and José Cardoso e Cunha. Data analytics in the cloud with flexible MapReduce workflows. In *Cloud Computing Technology and Science (CloudCom), 2012 IEEE 4th International Conference on*, pages 427–434, December 2012. doi: [10.1109/CloudCom.2012.6427527](https://doi.org/10.1109/CloudCom.2012.6427527)
13. Luís Assunção, Carlos Gonçalves, and José Cardoso e Cunha. Autonomic Activities in the Execution of Scientific Workflows: Evaluation of the AWARD Framework. In *Ubiquitous Intelligence Computing and 9th International Conference on Autonomic Trusted Computing (UIC/ATC), 2012 9th International Conference on*, pages 423–430, September 2012. doi: [10.1109/UIC-ATC.2012.14](https://doi.org/10.1109/UIC-ATC.2012.14)
14. Luís Assunção, Carlos Gonçalves, and José Cardoso e Cunha. On the difficulties of using workflow tools to express parallelism and distribution — an application case study in geological sciences. In *2009 Workshops at the Grid and Pervasive Computing Conference*, pages 104–110, May 2009. doi: [10.1109/GPC.2009.30](https://doi.org/10.1109/GPC.2009.30)
15. A. L. Osório, A. J. Abrantes, C. Gonçalves, P. Araújo, M. Barata, J. Sales Gomes, G. C. Jacquet, and R. Dias. Open multi-technology service oriented architecture for its business models: the itsibus etoll services. In Kluwer Academic Publishers, editor, *PROVE'05 — 5th IFIP Working Conference on Virtual Enterprises*, pages 221–230, Valência, Spain, September 2005
16. A. L. Osório, C. Gonçalves, A. Pereira, B. Antunes, N. Barrocas, and A. Amador. Itsibus — jini and radio identification technologies underlying interoperability through a real life open service oriented toll management system for the pan-european motorway network. S. Francisco, USA, June 2005. Sun Microsystems
17. A. L. Osório, M. Barata, C. Gonçalves, P. Araújo, A. J. Abrantes, P. Jorge, J. Sales Gomes, G. Jacquet, and A. Amador. Interoperability among its systems with itsibus framework. In *BASYS 2004*, Viena, Áustria., September 2004. Springer
18. A. L. Osório, A. J. Abrantes, C. Gonçalves, P. Araújo, J. M. Machado, G. C. Jacquet, and J. Sales Gomes. Flexible and plugged peer systems integration to itsibus: the case of efc and lpr systems. In *PROVE'03 — 4th IFIP Working Conference on Virtual Enterprises*, pages 221–230, Lugano, Switzerland, October 2003. Kluwer Academic Publishers
19. J. Sales Gomes, G. Jacquet, M. Machado, A. L. Osório, C. Gonçalves, and M. Barata. An open integration bus for efc: The itsibus. In *ASECAP2003*, Portoroz, Eslovénia., May 2003
20. Carlos Gonçalves and José Cardoso e Cunha. Simulação distribuída de um sistema de partículas em java. In Instituto Superior de Engenharia de Lisboa, editor, *JETC2002 — Conferência Científica e Tecnológica em Engenharia / Jornadas de Engenharia de Telecomunicações e Computadores*, Lisbon, Portugal, May 2002

## 4.5 Participation in Conferences, Seminars and Workshops

The signatory has also participate in several conferences, seminars and workshops, in a total of eleven (11) participations.

1. 23<sup>rd</sup> IFIP / SOCOLNET Working Conference on Virtual Enterprises - Collaborative Networks in Digitalization and Society 5.0 — PRO-VE'22, 19 to 21 of September 2022, Lisbon, Portugal. Besides presenting a paper, in the context of this participation the signatory was: i) Member of the International Program Committee; ii ) Member of the Organizing Committee; and iii) Chair of the session “B1: Collaborative Business Models and Digitalization”. The signatory was also reviewer of some of the papers submitted to the conference.
2. 12<sup>th</sup> Advanced Doctoral Conference On Computing, Electrical And Industrial Systems — DoCEIS, 7 to 9 of July 2021, Costa da Caparica, Lisbon, Portugal
3. International Conference on Computational Science — ICSS 2019, 12 to 14 of June 2019, Faro, Portugal. Besides presenting a paper, in the context of this participation the signatory was chair of the session “ICCS 2019 Main Track (MT) Session 13”.
4. 23<sup>rd</sup> ACM Symposium on Operating Systems Principles, 23 to 26 of October 2011, Estoril, Portugal
5. Workshop — Spring School in Advanced Computing TACC @ UP, 28 and 29 May 2009, Porto, Portugal
6. Ibergrid'07, 14 to 16 of May 2007, Santiago de Compostela, Spain
7. Ingrid'06, 11 November 2006, Braga, Portugal
8. International Summer School on Grid Computing 2006, 9 to 21 of July 2006, Naples, Italy
9. HPC & Grid Computing, 23 January 2006, Porto, Portugal
10. Euro-Par 2005, 30 August to 2 September 2005, Monte da Caparica, Portugal
11. Portuguese Academic Days, 18 to 21 of May 2004, Vilamoura, Portugal

The author of this *curriculum* was also member of the Program Committee of the INForum conferences in the years 2018, 2019, 2021 and 2022, where he was reviewer of some of the papers submitted to the conference.



## 5. *Other Professional Activities*

Performed the functions of monitor in the Department of Electronic Engineering and Communications within the scope of Systems Engineering.

Re-engineering and implementation of a parking ticket assignment management system developed by the *Centro de Estudos e Desenvolvimento de Eletrónica e Telecomunicações (CEDET)* for *Empresa Municipal de Estacionamento de Lisboa (EMEL)*, 1999.

Development and implementation of a printer sharing solution by users of the software labs of the *Departamento de Engenharia de Electrónica e Telecomunicações e de Computadores*, 1998.

Lisbon, 31 March 2023

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(Carlos Jorge de Sousa Gonçalves)



## A. List of Student Advisor Works

This appendix presents the complete list of works that were advised by the author. This list presents the Master Thesis works and Student Projects. Student projects are distributed across different BSc Degrees namely: i) LEIC - *Licenciatura em Engenharia Informática e Computadores* (Computer Science and Computer Engineering); ii) LEIM - *Licenciatura em Engenharia Informática e Multimédia* (Informatics and Multimedia Engineering); iii) LEIRT - *Licenciatura em Engenharia Informática Redes e Telecomunicações* (Informatics Networks and Telecommunications Engineering); iv) LEETC - *Licenciatura em Engenharia Eletrónica e Telecomunicações e de Computadores* (Electronic, Telecommunications and Computer Engineering); v) LESTE – Pré Bolonha (*Licenciatura em Engenharia de Sistemas de Telecomunicações e Eletrónica*); and vi) LEIC – Pré-Bolonha (*Licenciatura em Engenharia Informática e Computadores*).

### A.1 Master Thesis Advisor

In a total of six (6) theses:

1. Carlos Miguel B. F. Viegas. *Telco Smart Sites – TMForum Standard Translator*. Master's thesis, ISEL, December 2022. CoAdvisor with Paulo Alexandre Henriques Patrício (CelFocus)
2. Frederico Alexandre Silvestre Cardoso. *Desenvolvimento de firmware para controlo da embarcação USV-enautica1*. Master's thesis, ISEL, July 2022. CoAdvisor with Professor Pedro Viçoso Fazenda (ISEL) and Mário Jorge Simão Assunção (Escola Superior Náutica Infante D. Henrique - ENIDH)
3. Francisco Tavares Ferreira dos Reis. *Virtualização da embarcação USV-enautica1*. Master's thesis, ISEL, February 2022. CoAdvisor with Professor Pedro Daniel Dinis Teodoro (Escola Superior Náutica Infante D. Henrique - ENIDH)
4. Tiago Miguel Vila Martins. *Gestão Unificada de Máquinas Virtuais Disponibilizadas por Diferentes Operadores de Clouds Públicas — UVMM - Unified Virtual Machine Management*. Master's thesis, ISEL, November 2018
5. João Gonçalves Pereira. *BAM Framework for OMS using Open Source Technologies*. Master's thesis, ISEL, September 2010
6. Rui Manuel Catarino. *Serviços Grid Computing*. Master's thesis, ISEL, November 2008

## A.2 Students Project Advisor — LEIC

In a total of ten (10) students projects:

1. António Eusébio, Daniel Azevedo, and Manuel Silva. *Sistema de Gestão de Acesso a Eventos de Transgressão de Trânsito por Proprietários e Condutores*, September 2022. CoAdvisor with Luís Osório and Tiago M. Dias
2. Jéssica Olivença, João Dias, and Diogo Cunha. *Warp Delivery*, September 2021. CoAdvisor with Luís Osório, Tiago M. Dias and Diogo Silva
3. Pedro Miguel Gaspar Pedroso and Afonso Miguel Lúcio Simão. *HorusDash*, September 2021. CoAdvisor with Luís Osório
4. Lucas Silva. *Sistema de Leitura de Contadores de Consumos de Água por Dispositivo Móvel — Water Watcher*, July 2021. CoAdvisor with Luís Osório
5. Bruno Serras. *Widgets—IoT*, October 2020. CoAdvisor with Luís Osório, Tiago M. Dias and Paulo Borges
6. Daniel Martins and Raul Tomás. *Travel Guide — Sistema de informação multimodal de transporte de passageiros com indicação de percursos, tempos estimados e preços dos títulos de transporte*, September 2012
7. Filipe Campos. *Time is Precious — Gestão de horários sobre a plataforma MOODLE*, September 2012
8. Jaime F. E. Cerejeira and Hélio F. A. P. Delgado. *Moodle++ — Criação de Novos Módulos e Melhoria de Módulos Existentes na Plataforma Moodle*, September 2010
9. João Cardoso. *Autenticação de Aplicações Web Legadas*, September 2010
10. Guilherme Nogueira Loução. *Acesso a um Pool Condor Utilizando uma Interface Web*, September 2009

## A.3 Students Project Advisor — LEIM

In a total of twenty-five (25) students projects:

1. Filipe Almeida. *Rede ANSR/SINCRO — Sistema de Infrações de Trânsito*, September 2022
2. Alexandre Moreira and Tomás Silva. *Sistema para Autenticação de Veículos com base em Imagens*, July 2022. CoAdvisor with Pedro Mendes Jorge
3. Andreia Fontinha and Rafael Silva. *Leitura de contadores de consumos de água por Dispositivo Móvel*, September 2021
4. Diogo Ribeiro. *Sistema Agregador de Estações Meteorológicas*, September 2021. CoAdvisor with Pedro Miguens

5. João Rodrigues and Rafael Oliveira. *Desenvolvimento de robot didático — Pioneer2*, September 2021. CoAdvisor with Jorge Pais
6. Pedro Nunes and Samuel Ventura. *Sistema de Bases de Dados de Navegação Sea2Future*, July 2021. CoAdvisor with Mário Jorge Simão Assunção (Escola Superior Náutica Infante D. Henrique - ENIDH)
7. Pedro Marques. *SpaceManager — Módulo Sensores*, September 2020
8. Bernardo Costa. *Homelancer — Serviços ao Domicílio*, September 2020
9. Nuno Brás and Carlos Viegas. *Aplicação Móvel de Controlo da Embarcação USV-enautica — Android BoatCOM*, September 2020. CoAdvisor with Mário Jorge Simão Assunção (Escola Superior Náutica Infante D. Henrique - ENIDH)
10. João Ventura and Heral Mukesh. *Dynamic Blocks — DBlocks*, September 2020
11. Ana Rita Alves. *SpaceManager — Módulo App*, July 2020
12. Sofia Gomes. *Aplicação Android Dar*, October 2019
13. João Pedro Simões and David Câmara. *Minus*, September 2019
14. Frederico Cardoso. *Boat Communication — BoatCOM*, September 2019. CoAdvisor with Pedro Viçoso Fazenda
15. Patrícia Reis and Tiago Fernandes. *GoCard — Aplicação móvel para melhorar a experiência proporcionada pela visita a um parque temático*, July 2019. CoAdvisor with Rui Jesus
16. Diogo Alexandre and Helena Carona. *Desenvolvimento do Website da Uniphi — Back-end*, September 2018
17. Sara Machás and Ana Rita Coelho. *Desenvolvimento do Website da Uniphi — Front-end*, July 2018
18. Ana Filipa Nunes and Ana Rita Nunes. *Estágio Ongagement — Processos de Validação para Programas de Loyalty*, July 2016
19. Jéssica Henriques. *Estágio Abreu Advogados — AB Social Network*, July 2016
20. Ricardo Frade. *Estágio Ongagement — Create Catry*, July 2016
21. Nuno Vieira and Tiago Sardinha. *Estágio Ongagement — Desenvolvimento de Temas Wordpress*, September 2015
22. Daniel Silva. *Estágio Ongagement — Desenvolvimento de aplicações para o Facebook*, September 2015
23. Bruno Jerónimo. *Academic Planner*, September 2015
24. Tiago Matias and Bruno Gonçalves. *MyTube — Sistema de Gestão de Conteúdos*, September 2013
25. Tiago Sousa. *MyTube — Sistema de Gestão de Conteúdos*, September 2012

## A.4 Students Project Advisor — LEIRT

In a total of one (1) students project:

1. Daniela Terras and Avelardo Ramirez. *Subscrição de eventos de trânsito, rede ANSR/SINCRO*, July 2021. CoAdvisor with Luís Osório and Tiago M. Dias

## A.5 Students Project Advisor — LEETC

In a total of six (6) students projects:

1. Marco Lopes and Júlio Torres. *Aquecedor elétrico inteligente controlado por Bluetooth*, July 2022. CoAdvisor with Jorge Pais
2. André Oliveira and João Maia. *Desenvolvimento de tomada IoT*, July 2022. CoAdvisor with Jorge Pais
3. Lénio Passos. *Registador de Dados Informáticos para Sistemas Informáticos*, September 2013. CoAdvisor with Vitor Costa
4. Daniel Bicho and Bruno António. *Cloud Monitoring — Aplicação autónoma de monitorização de sistemas Cloud utilizando software de código aberto*, September 2013
5. Luis Figueiredo and Ricardo Almeida. *Registador de Dados Informáticos para Sistemas Informáticos*, September 2011
6. António L.V. Marques and Nuno M. M. Chambino. *Infra-estrutura de Clustering para Suporte de Aplicações para a Web — Web Clustering*, September 2008. CoAdvisor with Diogo Remédios

## A.6 Students Project Advisor — LESTE - Pré-Bolonha

In a total of one (1) students project:

1. Carlos Teixeira and José Dias. *Sistema Diagnóstico Automóvel*, September 2007

## A.7 Students Project Advisor — LEIC - Pré-Bolonha

In a total of seven (7) students projects:

1. Nuno Braz de Oliveira. *Help-Desk Web*, October 2007
2. Jorge Silva and Bruno Amaral. *Sistema de Triagem Dinâmica em Situação de Catástrofe — STD-SC*, November 2007. CoAdvisor with Diogo Remédios
3. Bruno Roda. *Sistema de Gestão de Leilões — SGL*, November 2007

4. Nuno Miguel de Oliveira and Patrícia Isabel Sobreira. *Unified Citizen Directory — UCD*, November 2007
5. Carlos Pavão and Rui Rodrigues. *Moodle Extension Integration — Moodle-EI*, November 2006
6. Ivo Rodrigues. *Pouco a Pouco — PaP*, July 2006
7. Fernando Filipe Braz. *ITSIBus Multi-Plataforma*, April 2005. CoAdvisor with Luís Osório





## B. *List of Chair Member in Examination Committees of Master Thesis*

This appendix presents the complete list of Master Thesis were the author of this *curriculum* had participate has chair member. The list has a total of nineteen (19) thesis.

1. Gabriel Humberto Pulido Diaz. *Aprendizagem automática de estilos de natação — Swimu*. Master's thesis, ISEL, December 2022. Advisors Professor Rui Manuel Feliciano de Jesus (ISEL) and Pedro Daniel Dinis Teodoro (Escola Superior Náutica Infante D. Henrique - ENIDH) and Mário Jorge Simão Assunção (Escola Superior Náutica Infante D. Henrique - ENIDH)
2. Gonçalo Ferreira de Azevedo. *Planeador de Viagem em Veleiro – Logística*. Master's thesis, ISEL, December 2022. Advisors Professor Paulo Manuel Trigo Cândido da Silva and Engineer Hugo Trovão
3. Rute Batista da Silva. *Plataforma de Realidade Aumentada para dispositivos móveis de acompanhamento dos percursos pedestres da ilha de Santa Maria, Açores*. Master's thesis, ISEL, December 2022. Advisors Professors Rui Manuel Feliciano de Jesus and Pedro Miguel Torres Mendes Jorge
4. Miguel Ângelo Marques Miranda. *Sistema de Gestão de Aprendizagem de Conteúdos de Materiais de Construção*. Master's thesis, ISEL, December 2022. Advisors Professors Rui Manuel Feliciano de Jesus and Carla Maria Duarte da Silva e Costa
5. Carlos Eduardo Governo Rodrigues. *Sistema de Encaminhamento Resiliente para Serviços Críticos*. Master's thesis, ISEL, December 2022. Advisor Professor Nuno Miguel Machado Cruz
6. Nuno Miguel Simões Gomes. *Anxolotl – An Anxiety Companion App*. Master's thesis, ISEL, December 2022. Advisors Professors Matilde Pós-de-Mina Pato and André Ribeiro Lourenço
7. Leonardo Miguel Lopes Melo. *15-Minute City*. Master's thesis, ISEL, April 2022. Advisors Professor Nuno Miguel Machado Cruz and Nuno Miguel Soares Datia
8. André Filipe Rodrigues Silva. *Automatização da Inventariação, Monitorização e Operação de Ativos de Rede*. Master's thesis, ISEL, March 2022. Advisor Professor Nuno Miguel Machado Cruz

9. Rima Mansour. *Mobile Platform for Analysis of Color Images obtained from Biosensing Technology*. Master's thesis, ISEL, March 2022. Advisors Professors Rui Manuel Feliciano de Jesus and Alessandro Fantoni
10. Nelson Araújo Nunes. *Deteção de Avarias em Máquinas com base em Imagens Térmicas e Sinais Sonoros*. Master's thesis, ISEL, March 2022. Advisors Professors Pedro Miguel Torres Mendes Jorge and Nuno Alexandre Soares Domingues
11. Ivo Miguel Almeida Pedroso. *Plataforma Descentralizada de Monitorização de Poluição*. Master's thesis, ISEL, March 2022. Advisors Professors Nuno Miguel Soares Datia and Nuno Miguel Machado Cruz
12. Henrique Manuel Carvalho Gomes. *Desenvolvimento de um Package em R para Ensemble Feature Ranking — EFR*. Master's thesis, ISEL, December 2021. Advisors Professors Nuno Miguel Soares Datia and Matilde Pós-de-Mina Pato
13. André Correia Gonçalves. *Captura de Movimento em Tempo Real para Realidade Mista*. Master's thesis, ISEL, December 2020. Advisors Professors Rui Manuel Feliciano de Jesus and Pedro Miguel Torres Mendes Jorge
14. Rodrigo Diniz de Moura. *Agregador de Sistemas de Boleias*. Master's thesis, ISEL, October 2020. Advisor Professor Porfírio Pena Filipe
15. Carolina Gaspar Cândido. *Social Media Activity Analysis*. Master's thesis, ISEL, September 2020. Advisor Professor Cátia Raquel Jesus Vaz
16. André Filipe Casaleiro Gomes. *Aprendizagem por Reforço com Memória Episódica*. Master's thesis, ISEL, January 2020. Advisor Professor Luís Filipe Graça Morgado
17. Bruno Miguel das Neves Dantas. *Bioinformatic Pipeline Specification Language and Sharing System*. Master's thesis, ISEL, July 2019. Advisors Professors Cátia Raquel Jesus Vaz and José Manuel de Campos Lages Garcia Simão
18. André Filipe Braga Cardoso. *Automatização de Instanciação de Serviços de Rede Numa Rede de Operador*. Master's thesis, ISEL, July 2019. Advisor Professor Nuno Miguel Machado Cruz
19. David André da Silva Lourenço. *Sumarização de Vídeos de Jogos de Futebol baseada em Características Audiovisuais e Biométricas*. Master's thesis, ISEL, April 2019. Advisors Professors Rui Manuel Feliciano de Jesus and André Ribeiro Lourenço

## C. List of Examiner Thesis and Students Projects

This appendix presents the complete list of works where the author of this *curriculum* had been examiner. This list includes Master Thesis, listed in section C.1, and Students Projects, listed in section C.2.

### C.1 Master Thesis

In a total of twenty-three (23) master thesis:

1. Miguel Balão Candeias. *Design and Implementation of a Library for Parallel Independent Computations in Octave*. Master's thesis, FCT/UNL, December 2022. Advisor Professor Pedro Abílio Duarte de Medeiros
2. Duarte Filipe de Melo dos Santos Felício. *RapiTest — Aplicação Web para testar API*. Master's thesis, ISEL, December 2022. Advisors Professor José Manuel de Campos Lages Garcia Simão and Professor Nuno Miguel Soares Datia
3. Pedro Nobre Oliveira dos Santos. *Towards an Automatic Microservices Manager for Hybrid Cloud Edge Environments*. Master's thesis, FCT/UNL, July 2022. Advisors Professor Maria Cecília Farias Lorga Gomes and Professor Vítor Manuel Alves Duarte
4. Bernardo da Palma A. Soares de Albergaria. *Ambiente de Desenvolvimento para Criação de Actividades de Programação*. Master's thesis, FCT/UNL, July 2022. Advisors Professor Fernanda Barbosa and Professor Carmen Pires Morgado
5. Gabriel Jacinto Botelho. *Sistema para Avaliação de Postura com Utilização de Sensores – SAPI Sistema de Avaliação de Postura Ininterrupta*. Master's thesis, FCT/UNL, January 2022. Advisors Professor Carmen Pires Morgado and Professor Fernanda Barbosa
6. Pedro Miguel Duarte Feiteira. *Execução a Pedido de Tarefas em Recursos Remotos*. Master's thesis, FCT/UNL, Oct 2021. Advisor Professor Vítor Manuel Alves Duarte
7. André Filipe Massano Leitão. *Aplicação Web de Apoio á Reciclagem de Resíduos Domésticos*. Master's thesis, ISEL, July 2021. Advisor Professor Paulo Manuel Trigo Cândido da Silva
8. Rúben Ribeiro Garcia. *Infraestruturas e Modelos de Programação para Análise de Dados em Stream*. Master's thesis, ISEL, July 2021. Advisor Professor José Manuel de Campos Lages Garcia Simão

9. Luís Guilherme Fernandes Correia. *Development of a Web and Mobile based System for Remote Physiotherapy using Motion Sensors*. Master's thesis, FCT/UNL, February 2021. Advisors Professor Carmen Pires Morgado and Professor Fernanda Barbosa
10. António Peixoto de Assunção Santos. *Rain Computing: Orquestração de Ações Executadas por Grupos de Dispositivos IoT*. Master's thesis, ISEL, December 2020. Advisor Professor Luís Manuel da Costa Assunção
11. David António Freire Moura. *Exploratory Analysis of Individual Metrics in Team Sports Using IoT Sensors*. Master's thesis, FCT/UNL, July 2020. Advisors Professor Carmen Pires Morgado (Professor at FCT) and Ruben Costa (Director at Knowledgebiz Consulting)
12. Alexandra Amaral da Silva. *Integração de Mecanismos de Colaboração em Jogos Epik*. Master's thesis, FCT/UNL, December 2019. Advisors Professor Carmen Pires Morgado and Professor Fernanda Barbosa
13. Calmenelias Pino Fleitas. *Parallel Execution of Pipelines using Bioinformatics Tools*. Master's thesis, ISEL, December 2019. Advisors Professor José Manuel de Campos Lages Garcia Simão and Professor Cátia Raquel Jesus Vaz
14. Tiago André Gonçalves Castanho. *Plataforma Epik — Componente gráfica e Interativa para Criação de Fluxos de Cenários*. Master's thesis, FCT/UNL, July 2019. Advisors Professor Fernanda Barbosa and Professor Carmen Pires Morgado
15. André Simão Pereira Catela. *Epik Platform - Design and Development of Interactive Puzzles as an Educational Activity*. Master's thesis, FCT/UNL, June 2019. Advisors Professor Carmen Pires Morgado and Professor Fernanda Barbosa
16. João Manuel Pinto Simões. *Estudo de Implementações Eficientes em Correlações Estatísticas de Expressões Relevantes em Documentos de Linguagem Natural*. Master's thesis, FCT/UNL, May 2019. Advisors Professor Joaquim Ferreira da Silva and Professor Vítor Manuel Alves Duarte
17. Luís Miguel Teixeira da Silva. *Replication and Caching Systems for the Support of VMs Stored in File Systems with Snapshots*. Master's thesis, FCT/UNL, December 2018. Advisors Professor Paulo Orlando Reis Afonso Lopes and Professor Pedro Abílio Duarte de Medeiros
18. Rodolfo Tiago Gameiro Cardoso. *Explorador Integrado de Serviços de Armazenamento na Cloud – Cloud Cockpit*. Master's thesis, ISEL, January 2014. Advisor Professor Paulo Manuel Trigo Cândido da Silva
19. Nuno Miguel Negrão Maurício. *A Bihética dos Transportes de Passageiros na Nuvem Computacional*. Master's thesis, ISEL, February 2014. Advisor Professor Porfírio Pena Filipe
20. Carina Nobre Gomes. *Estudo do Paradigma Computação em Nuvem*. Master's thesis, ISEL, February 2012. Advisor Professor Porfírio Pena Filipe

21. Manuel Vitor Macieira Rodrigues. *Modelo de Especificação e Controlo de Execuções Paralelas e Distribuídas — MECEPD*. Master's thesis, ISEL, December 2009. Advisor Professor Luís Manuel da Costa Assunção
22. Hugo Sousa Raimundo. *ISELnet – Um portal para o ISEL*. Master's thesis, ISEL, December 2009. Advisor Professor Luís Filipe Graça Morgado
23. Nuno Miguel da Silva Brites. *Sistema Modular de Gestão Académica — SMGA*. Master's thesis, ISEL, December 2009. Advisor Professor Luís Filipe Graça Morgado

## C.2 Students Projects

In a total of seventy (70) projects:

1. Miguel Silvestre and Pedro Henriques. *BookletNFT*, September 2022. Advisors Helder Bastos and Paulo Manuel Trigo Cândido da Silva
2. Elisabete Cardoso. *Biblioteca para Visualização de Sinais Fisiológicos*, September 2022. Advisors Nuno Datia and Matilde Pós-de-Mina Pato
3. Érica Pereira. *Aplicação ANDROID para Utilizadores com Dificuldade Visual*, September 2022. Advisor Pedro Fazenda
4. Diogo Jorge de Castro Neto Fernandes and Tiago José Leal Ribeiro. *Plano-A-Saúde — Biblioteca para Visualização de Sinais Fisiológicos*, September 2022. Advisors Matilde Pós-de-Mina Pato and Nuno Miguel Soares Datia
5. Alexandre Guerreiro Neves da Silva. *MyBar — Sistema de Gestão para Bar*, July 2022. Advisor Porfírio Pena Filipe
6. Raquel Fortes and Rita de Sousa Marques. *iMeal — ideal Meal*, July 2022. Advisor Rui Manuel Feliciano de Jesus
7. Pedro Pestana. *Sistema Embebido para Monitorização de Ritmo Cardíaco*, September 2021. Advisors Tiago M. Dias and Pedro Sampaio
8. Maria Franco and Miguel Peixoto. *Sistema de Anotação de Vídeo com dados Fisiológicos para Análise de Emoções*, September 2021. Advisors André Ribeiro Lourenço and Pedro Mendes Jorge
9. Francisco Massano Gomes and Rodrigo Cristiano Gouveia Abreu. *Football Talent Manager*, September 2021. Advisor Porfírio Pena Filipe
10. Ricardo Filipe Sousa. *Trails4us*, September 2021. Advisor Pedro Viçoso Fazenda
11. Henrique Martinho and Duarte Cunha. *TrailBlaze*, September 2021. Advisor Pedro Viçoso Fazenda
12. Diogo Vasconcelos do Carmo Cadavez and Pedro Rodrigo Santarém Ferreira. *Closy — Close to you*, September 2021. Advisor Pedro Viçoso Fazenda

13. Rodrigo Miguel Pombal Mouga and Sérgio Filipe Paiva da Silva Gonçalves dos Santos. *QuAir — Qualidade do Ar Analisada com Regularidade em Percursos Pedestres e de Bicicleta*, September 2021. Advisor Vítor Silva
14. Diogo Almeida and Carolina Santos. *Anotação de Vídeo com Edição Colaborativa de Vídeo-Marcas*, July 2021. Advisors Paulo Manuel Trigo Cândido da Silva and Paulo Vieira and Francisco Melo
15. Diogo Furtado Albino and Beatriz Pimentel Marques dos Santos. *Referências ATOS Web Clientes*, July 2021. Advisors Helder Bastos and Sélvia Metrogos (ATOS IT) and Rui Rodrigues (ATOS IT)
16. Daniel Marques and Rui Martins. *Catálogo do Museu de Física do ISEL*, July 2021. Advisors Rui Manuel Feliciano de Jesus and Catarina Leal
17. Davide Gouveia and Tiago Silva. *Habemus Festa*, July 2021. Advisor Pedro Viçoso Fazenda
18. André Fial de Almeida and Vasco Lobato de Faria. *Beachly*, July 2021. Advisor Pedro Viçoso Fazenda
19. Rafael Nobre. *SINCROmobile — Subscrição de Eventos de Trânsito*, October 2020. Advisor Luís Osório
20. Eduardo Santos. *Anotação Assistida de Dados Fisiológicos*, September 2020. Advisors André Ribeiro Lourenço and Rui Manuel Feliciano de Jesus
21. José Martins and João Pombo. *Virtual Suggestion Box*, September 2020. Advisor Porfírio Pena Filipe
22. João Cordeiro, Ricardo Velez, and Telmo Antunes. *Processamento Distribuído em Clusters de Contentores*, July 2020. Advisors José Manuel de Campos Lages Garcia Simão and Luís Manuel da Costa Assunção
23. Sofia Nunes and Yamin Yassin. *Sistema de Apoio ao Estacionamento Planeado*, July 2020. Advisor Paulo Manuel Trigo Cândido da Silva
24. Bruno Mabutana and Diogo Barreiro. *Subscrição de Eventos de Trânsito*, July 2020. Advisor Luís Osório
25. João Amaral. *Integração No-Code via WebServices*, September 2019. Advisors Paulo Manuel Trigo Cândido da Silva and Jorge Lourenço (Master Link)
26. Daniel Jorge da Conceição França. *Motor de Gestão do Modelo de Dados de Estrutura Dinâmica*, September 2019. Advisors Paulo Manuel Trigo Cândido da Silva and Jorge Lourenço (Master Link)
27. Francisco Tavares Ferreira dos Reis and Néelson Araújo Nunes. *Monitorização de Consumos de Água e Energia*, September 2019. Advisor Porfírio Pena Filipe

28. Tiago Filipe Duarte Romeiras de Oliveira and Márcia Moreira Martins. *Smart Things — An Internet of Things Infrastructure*, September 2019. Advisor André Ribeiro Lourenço
29. João Pedro Pina Duarte and David Rodrigo Ferreira Rodrigues Duarte. *Mobile tolling system*, October 2018. Advisors Luís Osório and Paulo Borges
30. Daniel Martins, João Deus, and Henrique Calhó. *Aplicação Web de Rifas — Rifa-te*, October 2018. Advisor Luís Manuel da Costa Assunção
31. Ana Ferreira. *Dispositivo para monitorização de condições de conforto e qualidade do ar em salas de estudo*, September 2018. Advisors Manfred Niehus and João Araújo
32. Pedro Silva and Daniel Abrantes. *Integração de Artefactos num Ambiente Doméstico*, September 2018. Advisor Porfírio Pena Filipe
33. João Santos. *Sistema para Automatização de Testes a Aplicações Web*, September 2018. Advisors Paulo Manuel Trigo Cândido da Silva and Fábio Barreiros
34. Sara Rodrigues. *Biblioteca Aberta de Materiais — BiAMa*, September 2018. Advisors Rui Manuel Feliciano de Jesus and Paulo Vieira
35. Daniel Soares. *Portal de Gestão do Professor*, September 2018. Advisors José Nascimento and Nuno Pires
36. Miguel Barata. *Seshat — A Blockchain-Based Audit Log*, July 2018. Advisor José Manuel de Campos Lages Garcia Simão
37. Daniel Alves and Margarida Lima. *LeucoDiff*, July 2018. Advisors Rui Manuel Feliciano de Jesus and Paulo Vieira
38. Márcio Mata. *Dash Cam Based on Raspberry PI*, July 2018. Advisors André Ribeiro Lourenço and Pedro Mendes Jorge
39. Marcos José Alves Silva and Pedro Miguel Nunes Miranda. *Controlo de Acessos para a Casa Inteligente*, September 2017. Advisor Porfírio Pena Filipe
40. António Santos Pedro Rosado and João Ricardo Rodrigues Graça Fernandes. *Portal do Investigador*, July 2017. Advisor José Nascimento
41. Gonçalo Lopes and Catarina Conceição. *OneMorePlace — Aplicação Android para Descoberta de Paisagens*, July 2017. Advisors Rui Manuel Feliciano de Jesus and Paulo Vieira
42. André Silva and Ricardo Paiva. *Sistema Colaborativo de Gestão de Turmas*, September 2016. Advisor Porfírio Pena Filipe
43. Alexandra Silva. *Detecção Automática de um Paciente Internado num Hospital*, September 2016. Advisor Paulo Manuel Trigo Cândido da Silva

44. Rita Ribeiro. *Suporte á submissão e escolha de Projectos*, September 2016. Advisor Paulo Manuel Trigo Cândido da Silva
45. Bárbara Ferreira and Ana António. *Sistema de Gestão de Informação Académica*, September 2016. Advisor Porfírio Pena Filipe
46. Délio Amaral. *VIDIT — Editor de Vídeo em HTML5*, September 2015. Advisors Pedro Mendes Jorge and Rui Manuel Feliciano de Jesus
47. Sérgio Freitas. *Plataforma de Software Distribuído Peer-To-Peer com Adaptação Dinâmica a Variações de Latência na Interações entre os Utilizadores*, September 2015. Advisor Luís Manuel da Costa Assunção
48. Igor Cruz. *SCIT — Sistema de Cadastro de Infraestruturas de Telecomunicações*, October 2015. Advisors Nuno Cota and Diogo Remédios
49. Pavel Egorov and Iurie Marcinschi. *Plataforma de Integração Contínua*, November 2014. Advisor Porfírio Pena Filipe
50. André Leitão and Luis Fernandes. *Practical Modules for Moodle*, September 2013. Advisors Diogo Remédios and António Teófilo
51. Miguel Cabaço and Hugo Benavente. *Moodle Backup Tools*, September 2013. Advisors Diogo Remédios and António Teófilo
52. Jorge Rosa. *Pasta Cluster*, September 2013. Advisor Alessandro Fantoni
53. Luis Loureiro. *The Cloud Media Player*, October 2013. Advisor Manuel Barata
54. Vitor Apolo and Daniel Martins. *D.A. ServiceDesk*, September 2012. Advisor Diogo Remédios
55. Tiago Correia and Gonçalo Ferreira. *Robot Controlado por Telemóvel*, September 2012. Advisor Jorge Pais
56. Jorge Pires. *Controlo de Sistema de Iluminação Baseado no Protocolo DALI (Digital Addressable Lighting Interface) — CSI-DALI*, October 2011. Advisor Luís Manuel da Costa Assunção
57. Sadic Samgy and Paulo Patrício. *Sistema de Partilha de Locais*, October 2011. Advisor Diogo Remédios
58. André Miguel dos Santos Soares and Manuel Brito dos Santos. *Conversor para Redes Fieldbus*, September 2010. Advisor João Casaleiro
59. Daniel Jorge Amaro de Matos Maíinha. *Biblioteca JAVA para comando do robot Mindstorms via Bluetooth*, September 2010. Advisor Jorge Pais
60. Nuno Miguel Matos Moreira. *Near Field Shopping*, October 2010. Advisors António Teófilo and Diogo Remédios



61. Ivo Coimbra and Nuno Balseiro. *Job Match*, November 2010. Advisors Porfírio Pena Filipe and Paulo Araújo
62. João Gracel and Hugo Araújo. *Sky Hunters — Aplicação Web multi-jogador*, December 2009. Advisors António Teófilo and Diogo Remédios
63. Milan Bicá Premgi and Sadic Badurali Remthula Samgy. *Near Field Shopping*, December 2009. Advisors António Teófilo and Diogo Remédios
64. Paulo Graça. *Controlo de Processo para Sistemas de PECVD com Interface Web*, December 2009. Advisor Miguel Fernandes
65. Nuno Miguel Domingos Amaro and Edgar Barradas Alves. *Sistema de Monitorização de Aplicações e Equipamentos de Portagem*, September 2008. Advisors Paulo Araújo
66. Óscar Claro and Pedro Claro. *Monitorização de Crianças*, October 2008. Advisors António Serrador and Diogo Remédios
67. Bruno Manuel Feliciano Cardoso and João Pedro Loura Melfe Afonso. *Sistema de Inventário Electrónico — e Inventário*, November 2008. Advisor Porfírio Pena Filipe
68. André Elias de Onofre Ferreira Lima. *Sistema de Monitorização de Aplicações e Equipamentos de Portagem*, September 2008. Advisors Paulo Araújo and Paulo Caetano (Pararede)
69. J. Prata and T. Ramalho. *Amorphous Semiconductor Analysis — ASCA*, September 2007. Advisors Alessandro Fantoni and João Ferreira
70. Nuno Miguel da Silva Brites and Pedro Miguel Gomes Alípio. *Visualização da Rede Sem Fios do ISEL — WiVi*, September 2007. Advisors João Ascenso