

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

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Nationality **Portuguese**
Date of birth **30, June, 1955**

WORK EXPERIENCE

- Assoc. Prof. *Dates: since 1996 (nomeação definitiva, 2001)*
Employer: University of Minho, Portugal
Sector: Dept. of Informatics
Position held: Associate Professor
Main activities: teaching & research
- Aux. Prof. *Dates: 1993-1996*
Employer: University of Minho, Portugal
Sector: Dept. of Informatics
Position held: Auxiliary Professor
Main activities: teaching & research
- Lecturer *Dates: 1981-93*
Employer: University of Minho, Portugal
Sector: Dept. of Informatics & Control
Position held: Assistant lecturer
Main activities: teaching & research
- Group leader *Dates: since 1994*
Employer: University of Minho, Portugal
Sector: Language Processing group (gEPL)
Position held: Group leader
Main activities: management & research

EDUCATION AND TRAINING

- Agreg *Year: 2012*
Academic degree: Habilitation (Agregação) in Computer Science
Institution: Dept. of Informatics, University of Minho, PT
- Ph.D. *Year: 1993*
Academic degree: Philosophy Doctor in Computer Science
Institution: Dept. of Informatics, University of Minho, PT

- M.Sc. *Year: 1984*
Academic degree: Master of Science in Computer Science (PAPCC examination – M.Sc. equivalent)
Institution: Dept. of Informatics, University of Minho, PT
- Lic. *Year: 1977*
Academic degree: Licenciatura
Institution: Dept. Electrotechnical Engineering, University of Porto, PT

TECHNICAL SKILLS

- Domain of specialization Computer science (Compilers)
- Areas of research Formal Languages Processing, Programming Paradigms, Methods and Languages, Data Analysis and Knowledge Extraction.
- Current research Compiling methods, techniques and tools, Program Comprehension, Visualization and Animation, Data Cleaning (Data Mining preparation).

PH.D. SUPERVISION

- Alvaro Costa Neto *Subject: Programming Cocktails and their Influence in Development and Teaching*
Co-supervisor: Prof. Maria João Varanda (IPB)
Institution: U. Minho (PDInf Program)
Date: 2023-... .
- Cristiana Esteves Araújo *Subject: Training Computational Thinking: exploring approaches supported by Neuroscience*
Co-supervisor: Prof. João José Cerqueira (UM/EMed)
Institution: U. Minho (PDInf Program)
Date: 2022-... .
- Tiago Sanches Franco *Subject: Clinical Decision Support System to Electrostimulation Treatments for Muscle Rehabilitation in the Elderly*
Co-supervisor: Prof. Paulo Alves (IPB)
Institution: U. Minho (PDInf Program)
Date: 2021-... .
- Lázaro Vinícius de Oliveira Lima *Subject: The impact of Augmented Reality for training Computational Thinking*
Co-supervisor: Prof. Luís Gonzaga Magalhães (UM/DSI)
Institution: U. Minho (PDInf Program)
Date: 2019-... .
- Renato Preigschdat Azevedo *Subject: DSL based Automatic Generation of Q&A Systems*
Co-supervisor: Prof. Maria João Varanda (IPB)
Institution: U. Minho (PDInf Program)
Date: 2018-2022.
- Leandro Oliveira Freitas *Subject: Uncertainty and Incompleteness Handling in Context-Aware systems*
Co-supervisor: Prof. Paulo Novais(UM)
Institution: U. Minho (PDInf Program)
Date: 2018-2022.

- Ricardo Alexandre Martins

Subject: Emotional State Detection through Text Analysis
Co-supervisor: Prof. Paulo Novais(UM)
Institution: U. Minho (PDInf Program)
Date: 2018-2022.

- Ricardo Giuliani Martini

Subject: Formal Description and Automatic Generation of Learning Spaces based on Ontologies
Co-supervisor: Prof. Giovanni R. Librelotto (UFSM)
Institution: U. Minho (PDInf Program)
Date: 2014-2018.

- Paula Correia Tavares

Subject: O Impacto da Animação e Visualização no Ensino da Programação
Co-supervisor: Prof. Elsa Ferreira Gomes (ISEP)
Institution: U. Minho (PDInf Program)
Date: 2013-2018.

- Daniela C. da Cruz

Subject: Verification, Slicing and Visualization of Programs with Contracts
Co-supervisor: Prof. Jorge Sousa Pinto (UM)
Institution: U. Minho (MAP-i Program)
Date: 2007-2011.

- Mario M. Berón

Subject: Program Inspection to interconnect the Behavioral and Operational Views for Program Comprehension
Co-supervisor: Prof. Roberto Uzal
Institution: U. Nacional San Luis + U. Minho (Alpha LERNet project)
Date: 2006-2009.

- Paulo J. Oliveira

Subject: Data Quality Problems in Databases: Detection and Correction
Co-supervisor: Prof. Fátima Rodrigues (ISEP / IPP)
Institution: U. Minho
Date: 2003-2009.

- Gustavo V. Arnold

Subject: Automatização da Geração de Código para Robôs Industriais diversos
Co-supervisor: Prof. Jaime Fonseca (UM)
Institution: U. Minho
Date: 2002-2008.

- Giovanni R. Librelotto

Subject: Topic Maps, da Sintaxe à Semântica
Co-supervisor: Prof. José Carlos Ramalho (UM)
Institution: U. Minho
Date: 2001-2005.

- Paulo J. Matos

Subject: Um Modelo Arquitectónico para Desenvolvimento de Compiladores: aplicação à Framework Dolphin
Institution: U. Minho
Date: 2000-2005.

- Maria João Varanda Pereira

Subject: Sistematização da Animação de Programas
Institution: U. Minho
Date: 1998-2003.

- Jorge Gustavo Rocha

Subject: Informação Geográfica: Meta-Informação, Codificação e Visualização
Institution: U. Minho
Date: 1997-2005.

- José João Almeida

Subject: Dicionários Dinâmicos Multi-fonte
Institution: U. Minho
Date: 1997-2003.

- Fátima C. Rodrigues *Title of thesis: Arquitectura Heterogénea para Extracção de Conhecimento a partir de Dados*
Institution: U. Minho
Co-supervisor: Prof. Carlos Ramos (ISEP / IPP)
Date: 1997-2000.
- José Carlos Ramalho *Title of thesis: Anotação Estrutural de Documentos e sua Semântica*
Institution: U. Minho
Date: 1995-2000.

PROGRAM COMMITTEES

CHAIR PERSON

- ICPEC'2021 *2nd International Computer Programming Education Conference, (General Chair) Braga/Portugal, 2021.*
- SLATe'2020 *9th International Symposium on Languages, Applications and Technology, (HLC-Track Chair) Barcelos/Portugal, July 2020.*
- SLATe'2018 *7th International Symposium on Languages, Applications and Technology, (General Chair) Guimarães/Portugal, June 2018.*
- WAPL'2017 *6.th Workshop on Advances in Programming Languages, Prague, Czech Republic, September, 2017.*
- RAISE'2012 *Co-chair of 1st Int. Workshop on Realizing AI Synergies in Software Engineering, Zurich, Switzerland, June 2012.*
- ICPC'2010 *General-Chair of 18th IEEE Int. Conference on Program Comprehension; Braga, July 2010.*
- CoRTA'2010 *Chair of 4th Int. Workshop on Compiler and Related Technologies and Applications; Braga, Sept. 2010.*
- CoRTA'2008 *Co-chair of 2nd Int. Workshop on Compiler and Related Technologies and Applications; Bragança, July 2008.*
- CoRTA'2007 *Co-chair of 1st Int. Workshop on Compiler and Related Technologies and Applications; Covilhã, July 2007.*
- CTNET'2006 *Co-chair of 2nd Int. Workshop on Compiler related Technologies for the .NET plataform; Covilhã, April 2006.*
- SIA2D'2004 *Co-chair of 1st Int. Workshop on Sistemas de Informação para a Análise de Dados Demográficos, Granada/Spain, April 2004; co-located with ADEH'2004 (VII Congresso Ibérico de Demografia Histórica).*
- WAGA'2000 *Co-chair of 3rd Workshop on Attribute Grammars and their Applications, Ponte do Lima, July 2000; co-located with MPC'2000.*
- WDavid'1996 *Program chair and organizer of the Workshop David: Algebraic Document Processing, Braga, September 1996.*
- WoLP'1993 *Program chair and organizer of the Workshop on Language Processing: OO-approaches and Parallelism, Braga, October 1993.*

COMMITTEE MEMBER

- ICAART'2023 *14th. International Conference on Agents and Artificial Intelligence, January 2023.*
- SAC'2023-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2023.*
- WAPL'2019 *9.th Workshop on Advances in Programming Languages, Warsaw/Poland, September 2023.*
- SLATe'2023 *11th International Symposium on Languages, Applications and Technology, Vila do Conde/Portugal, June 2023.*
- ICAART'2023 *14th. International Conference on Agents and Artificial Intelligence, January 2023.*
- SAC'2022-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2022.*
- SLATe'2022 *10th International Symposium on Languages, Applications and Technology, Covilhã/Portugal, July 2022.*
- ICPEC'2022 *3rd International Computer Programming Education Conference, Barcelos/Portugal, 2022.*
- ICAART'2022 *13th. International Conference on Agents and Artificial Intelligence, January 2022.*
- LinkedArchives'2022 *International Workshop on Archives and Linked Data, Itália September 2022.*
- SAC'2021-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2021.*
- SLATe'2021 *10th International Symposium on Languages, Applications and Technology, Vila-do-Conde/Portugal, July 2021.*
- LinkedArchives'2021 *International Workshop on Archives and Linked Data, Porto/Portugal September 2021.*
- ICAART'2021 *12th. International Conference on Agents and Artificial Intelligence, January 2021.*
- SAC'2020-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2020.*
- ICPEC'2020 *1.st International Computer Programming Education Conference, Vila-do-Conde/Portugal, May 2020.*
- ICSOFT'2020 *15th International Conference on Software Engineering, 2020.*
- ICAART'2020 *12th. International Conference on Agents and Artificial Intelligence, January 2020.*
- SAC'2019-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", Cyprus, April 2019.*
- SLATe'2019 *8th International Symposium on Languages, Applications and Technology, Coimbra/Portugal, June 2019.*
- WAPL'2019 *7.th Workshop on Advances in Programming Languages, Leibniz/Germany, September 2019.*
- IWSC'2019 *International Wiki Scientific Conference, Porto, March 2019.*
- ICSOFT'2019 *14th International Conference on Software Engineering, 2019.*

- ICAART'2019 *11th. International Conference on Agents and Artificial Intelligence, January 2019.*
- BICT'2019 *11th EAI International Conference on Bio-inspired Information and Communications Technologies, Pittsburgh, Pennsylvania, USA, April, 2019.*
- SAC'2018-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2018.*
- LATA'2018 *12th International Conference on Language and Automata Theory and Applications, Bar-Ilan University/Israel, April 2018.*
- ICSOFT'2018 *13th International Conference on Software Engineering, 2018.*
- WIREs'2018 *Workshop on Intelligent Recommendation Systems, organized in the scope of the CISTI 2018 - 13^a Iberic Conference on Information Systems and Technologies, Cáceres, Spain, June, 2018.*
- ICAART'2018 *10th. International Conference on Agents and Artificial Intelligence, January 2018.*
- PAAMS'2018-DeMaDIE *15th Int. Conf. on Practical Applications of Agents and Multi-agents Systems — 3rd Decision Making in Dynamic Information Environments (DeMaDIE), Toledo/Spain, June 2018.*
- MDASD'2018 *5th Workshop on Model Driven Approaches in System Development, Poland, September 2018.*
- SAC'2017-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", Marrakech, Marocco, April 2017.*
- SLATe'2017 *6th International Symposium on Languages, Applications and Technology, Vila do Conde/Portugal, June 2017.*
- SCLIT'2017 *7th Symposium on Computer Languages, Implementation and Tools, Greece, September 2017.*
- ICSOFT'2017 *12th International Conference on Software Engineering, Lisboa, Portugal, 2017.*
- BICT'2017 *The 10th EAI International Conference on Bio-inspired Information and Communications Technologies (formerly BIONETICS), New Jersey, USA, March 2017.*
- IDEAS'2017 *20th International Database Engineering & Applications Symposium, Canada, July 2017.*
- ICAART'2017 *9th. International Conference on Agents and Artificial Intelligence, January 2017.*
- SAC'2016-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", Pisa - Italy, April 2016.*
- SLATe'2016 *5th International Symposium on Languages, Applications and Technology, Maribor/Slovin, June 2016.*
- SCLIT'2016 *6th Symposium on Computer Languages, Implementation and Tools, Greece, September 2016.*
- ICSOFT-EA'2016 *11th International Conference on Software Engineering and Applications, 2016.*
- WorldCIST'2016-SHR *1st Workshop on Semantics for Humanities Resources co-located with 4th World Conference on Information Systems and Technologies, Recife - Brasil, March 2016.*

- MDASD'2016 *4rd Workshop on Model Driven Approaches in System Development, Warsaw/Poland, September 2016.*
- Histoinformatics'2016 *4th International Workshop on Computational History – Mining and Harvesting Digital History, Poland, July 2016.*
- IDEAS'2016 *20th International Database Engineering & Applications Symposium, Canada, July 2016.*
- ICAART'2016 *8th. International Conference on Agents and Artificial Intelligence, January 2016.*
- CAPSI'2017 *16ª Conferência da Associação Portuguesa de Sistemas de Informação, Portugal, October 2017.*
- ICSME'2015 *31st IEEE International Conference on Software Maintenance and Evolution, , Sep/October 2015.*
- SLATe'2015 *4th International Symposium on Languages, Applications and Technology, Madrid/Spain, June 2015.*
- WAPL'2015 *5.th Workshop on Advances in Programming Languages, Poland, September 2015.*
- SCLIT'2015 *5th Symposium on Computer Languages, Implementation and Tools, Greece, September 2015.*
- RAISE'2015 *4th Int. Workshop on Realizing AI Synergies in Software Engineering, Florence/Italy, May 2015.*
- ICSOFT-EA'2015 *10th International Conference on Software Engineering and Applications, 2015.*
- IDEAS'2015 *19th International Database Engineering & Applications Symposium, China, July 2015.*
- ICAART'2015 *7th. International Conference on Agents and Artificial Intelligence, Lisboa/Portugal, January 2015.*
- EPIA'2015 *General AI (GAI) track at the International Conference of Artificial Intelligence in Portugal, Coimbra/Portugal, September 2015.*
- HD'2015 *1ª Conferência de Humanidades-Digitais'2015, Lisboa/Portugal, November 2015.*
- CAPSI'2015 *15ª Conferência da Associação Portuguesa de Sistemas de Informação, Lisboa/Portugal, October 2015.*
- VideoJogos'2015 *7ª Conferência de Ciências e Artes dos Videojogos, Coimbra/Portugal, November 2015.*
- ICSME'2014 *30th IEEE International Conference on Software Maintenance and Evolution, Victoria/Canada, October 2014.*
- SLATe'2014 *3rd International Symposium on Languages, Applications and Technology, Bragança/Portugal, June 2014.*
- SCLIT'2014 *4th Symposium on Computer Languages, Implementation and Tools, Greece, September 2014.*
- ICSOFT-EA'2014 *9th International Conference on Software Engineering and Applications, Viena/Austria, August 2014.*
- IDEAS'2014 *18th International Database Engineering & Applications Symposium, Porto/Portugal, July 2014.*

- MDASD'2014 *3rd Workshop on Model Driven Approaches in System Development, Warsaw/Polonia, September 2014.*
- BICT'2014 *The 8th International Conference on Bio-inspired Information and Communications Technologies — AI and Software Engineering (AISE) Track, Boston, December 2014.*
- ICAART'2014 *6th. International Conference on Agents and Artificial Intelligence, Angers/France, March 2014.*
- HistInformatics'2014 *2nd International Workshop on Computational History – Mining and Harvesting Digital History, Barcelona/Spain, November 2014.*
- KDO'2014 *2nd. Workshop on Knowledge Discovery in Ontologies, Warsaw/Poland, August 2014.*
- CAPSI'2014 *14ª Conferência da Associação Portuguesa de Sistemas de Informação, Santarém/Portugal, October 2014.*
- VideoJogos'2014 *6ª Conferência de Ciências e Artes dos Videojogos, Barcelos/Portugal, November 2014.*
- ICSM'2013 *29th IEEE International Conference on Software Maintenance, Eindhoven/The Netherlands, September 2013.*
- RAISE'2013 *2nd Int. NFS sponsored Workshop on Realizing AI Synergies in Software Engineering, San Francisco/USA, May 2013.*
- SAC'2013-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", Coimbra/Portugal, March 2013.*
- SLATe'2013 *2nd Symposium on Languages, Applications and Tools, Porto/Portugal, June 2013.*
- SCLIT'2013 *3rd Symposium on Computer Languages, Implementation and Tools, Greece, September 2013.*
- WAPL'2013 *4.th Workshop on Advances in Programming Languages, Poland, September 2013.*
- KDO'2013 *First Workshop on Knowledge Discovery in Ontologies, Atlanta/USA, November 2013.*
- Informatics'2013 *12th International Scientific Conference on Informatics, Slovakia, November 2013.*
- HistInformatics'2013 *1st International Workshop on Histoinformatics – "Mining and Harvesting Digital History", Kioto/Japan, November 2013.*
- ICAART'2013 *International Conference on Agents and Artificial Intelligence, January 2013.*
- SDIA'2013 *Doctoral Symposium of the Portuguese Association for Artificial Intelligence, Açores/Portugal, September 2013.*
- EPIA'2013 *General AI track & Special track Challenges, Açores/Portugal, September 2013.*
- CAPSI'2013 *13ª Conferência da Associação Portuguesa de Sistemas de Informação, Évora/Portugal, October 2013.*
- Interação'2013 *5ª Conferência Nacional sobre Interação, Vila-Real/Portugal, November 2013.*
- SAC'2012-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", Italy, March 2012.*

- SAC'2012-DE *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Document Engineering", Italy, March 2012.*
- ICAART'2012 *International Conference on Agents and Artificial Intelligence, Portugal, January 2012.*
- SLATe'2012 *1st Symposium on Languages, Applications and Tools, Braga/Portugal, June 2012.*
- SCLIT'2012 *2nd Symposium on Computer Languages, Implementation and Tools, Greece, September 2012.*
- MDASD'2012 *2nd Workshop on Model Driven Approaches in System Development a satellite event of FedCISC'2012, Poland, September 2012.*
- CSE'2012 *International Scientific Conference on Computer Science and Engineering, Stará-Lesná/Slovakia, September 2012.*
- BCI'2012 *5th Balkan Conference in Informatics, Novi-Sad/Serbia, September 2012.*
- ICPC'2011 *19th IEEE International Conference on Program Comprehension, Canada, June 2011.*
- SCAM'2011 *11th IEEE International Working Conference on Source Code Analysis and Manipulation, USA, September 2011.*
- SAC'2011-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", Taiwan, March 2011.*
- WAPL'2011 *3.nd Workshop on Advances in Programming Languages, Poland, September 2011.*
- SCLIT'2011 *Symposium on Computer Languages, Implementation and Tools, Greece, September 2011.*
- CoRTA'2011 *4th Int. Workshop on Compiler and Related Technologies and Applications; Portugal, September 2011.*
- EPIA'2011 *Bi-Annual Conference of the Portuguese Association for Artificial Intelligence, Lisboa, October 2011.*
- ICAART'2011 *International Conference on Agents and Artificial Intelligence, Italy, January 2011.*
- SAC'2010-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", Switzerland, March 2010.*
- SAC'2010-DE *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Document Engineering", Switzerland, March 2010.*
- BIONETICS'2010 *The 5th Int. Conference on Bio-Inspired Models of Network, Information and Computing Systems, a AI and Software Engineering (AISE) Track, Boston, December 2010.*
- ADBIS'2010 *14th East-European Conference on Advances in Databases and Information Systems, Novi Sad, September 2010.*
- MDASD'2010 *1st Workshop on Model Driven Approaches in System Development a satellite event of ADBIS'2010, Novi Sad, September 2010.*
- ICAART'2010 *International Conference on Agents and Artificial Intelligence, Spain, January 2010.*
- EPIA'2009 *Bi-Annual Conference of the Portuguese Association for Artificial Intelligence, Aveiro, October 2009.*

- WAPL'2009 *2.nd Workshop on Advances in Programming Languages*, Mragowo/Poland, October 2009.
- CoRTA'2009 3rd Int. Workshop on *Compiler and Related Technologies and Applications*; Lisboa, September 2008.
- SAC'2008-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages"*, Brasil, March 2008.
- SAC'2008-DE *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Document Engineering"*, Brasil, March 2008.
- CSE'2008 International Scientific Conference on *Computer Science and Engineering*, Stará-Lesná/Slovakia, September 2008.
- EPIA'2007 Bi-Annual Conference of the *Portuguese Association for Artificial Intelligence*, Guimarães, December 2007.
- WAPL'2007 *1.st Workshop on Advances in Programming Languages*, Wisla/Poland, October 2007.
- ETAPS'2007 *10th European Joint Conferences on Theory and Practice of Software*, Braga, March 2007.
- GTTSE'2005 1st International Summer School on *Generative and Transformational Techniques in Software Engineering*, Braga, July 2005.
- ICKDES'2004 1st Int. Conference on *Knowledge Engineering and Decision Support*, Porto, July 2004.
- CINTEC'2001 Int. Conference on *New Technologies in Science Education*, Aveiro, July 2001.
- MPC'2000 5th Int. Conference on *Mathematics of Program Construction*, Ponte do Lima, July 2000.
- SIA'1999 1st Workshop on *Archaeologic Information Systems: GIS applied to Archeology*, Vila Real, Set. 1999; co-located with CAP'1999 (*3º Congresso de Arqueologia Peninsular*).
- AFP'1998 3rd International Summer School on *Advanced Functional Programming*, Braga, September 1998.
- WDavid'1996 Workshop *David: Algebraic Document Processing*, with 3 British specialists in SGML/TEI, DSSSL, LaTeX, Braga, September 1996.
- WoLP'1993 Workshop *Language Processing: OO-approaches and Parallelism*, with 3 foreign invited speakers, Braga, October 1993.
- XATA National Conference on *XML and Associated Technologies and Tools*, since 2003.
- CAPSI Annual Conference of the *Portuguese Association for Information Systems*, since 2000.
- CNPLf *National Annual Logic & Functional Programming Contest*, 1998-2007.
- MIUP-TIUP *National Imperative Programming Contests*, 2000-2008.

PARTICIPATION IN RESEARCH PROJECTS

- NetLang *The Language of Cyberbullying: Forms and Mechanisms of Online Prejudice and Discrimination in Annotated Comparable Corpora of Portuguese and English*
<https://sites.google.com/site/projectnetlang/introduction>;
supported by FCT (under contract PTDC/LLT-LIN/29304/2017);
2019-2021.
- NoviBraga *Data-Mining based evaluation of IT teaching practices in Portugal and Serbia*;
bilateral Serbia-Portugal joint-research project supported by FCT (Departamento das Relações Europeias, Bilaterais e Multilaterais);
2018-2019.
- S3IR *Reforço da segurança dos sistemas de software através de métodos, técnicas e ferramentas de engenharia reversa*;
bilateral Argentina-Portugal joint-research project supported by FCT (Departamento das Relações Europeias, Bilaterais e Multilaterais);
2018-2019.
- CetrO+Spec *Construction, Exploration and Transformation of Learning Object Repositories in Specialized Domains (Creación, Exploración y Transformación de Repositorios de Objetos Educativos en Dominios Especializados)*;
Spanish Research Project (funded by Ministry of Education, proc. TIN2017-88092-R) –
team leader: Professor José Luis Sierra Rodríguez, Universidad Complutense de Madrid;
collaborator; 2018-2020.
- RedR+Human *Repositories for Education with Dynamic Reconfigurability in the Humanities*;
Spanish Research Project (funded by Ministry of Education) – team leader: Professor José Luis Sierra Rodríguez, Universidad Complutense de Madrid;
collaborator; 2015-2017.
- QUIXOTE *Desenvolvimento de modelos do domínio do problema para inter-relacionar as vistas operacional e comportamental em sistemas de software*;
bilateral Argentina-Portugal joint-research project supported by FCT (Departamento das Relações Europeias, Bilaterais e Multilaterais);
team leader; 2010-2011.
- AsCoP *Assessing Comprehension of Domain Specific Programs*;
bilateral Slovenia-Portugal joint-research project supported by FCT (Departamento das Relações Europeias, Bilaterais e Multilaterais);
team leader; 2010-2011.
- HERMES *Aprendizagem e Povoamento de Ontologias a partir de Fontes Textuais*;
bilateral Brasil-Portugal joint-research project supported by Programa CAPES-FCT2009 (Departamento das Relações Europeias, Bilaterais e Multilaterais);
2010-2012.
- CROSS *An Infrastructure for Certification and Re-engineering of Open Source Software*;
supported by FCT (under contract PTDC/EIA-CCO/108995/2008);
2010-2012.
- Matisse *MathIS - Reinventing Mathematics for the Information Society*;
supported by FCT (under contract PPTDC/EIA/73252/2006);
2009-2011.
- DSLpc *Program Comprehension for Domain Specific Languages*;
bilateral Slovenia-Portugal joint-research project supported by FCT (Departamento das Relações Europeias, Bilaterais e Multilaterais);
team leader; 2008/2009.

- PCVIA *Program Comprehension by Visual Inspection and Animation;*
supported by FCT (POS/EIA/57662/2004);
team leader; 2005-2007.
- Voda *Grammar-based Systems;*
bilateral Slovenia-Portugal joint-research project supported by GRICES;
team leader; 2004-2006.
- AGiL *Automatic Generation of Language-based Tools;*
bilateral Slovenia-Portugal joint-research project supported by ICCTI;
team leader; 2001-2003.
- Fasti *Fasti Ecclesiae Portugaliae, estudo prosopográfico do Clero Catedralício Português na Idade Média;*
supported by FCT;
team leader; 2003-2006.
- MetaMedia2 *Metadata for the Preservation and Retrieval of Multimedia Components;*
supported by FCT (programa PRAXIS);
team leader; 2000/2002.
- MetaMedia1 *Metadata for Multimedia Archives;*
supported by FCT (programa PRAXIS);
team leader; 1999-2000.
- MRP-C *Portugal, país de mortalidade excepcionalmente favorável? Aprofundamento micro-analítico;*
supported by FCT (programa PRAXIS);
team leader; 2006-2007.
- MRP-B *Informatização Normalizada de Arquivos: Reconstituição de Paróquias e História das Populações - fase II;*
supported by FCT (programa PRAXIS);
team leader; 2001-2004.
- MRP-A *Informatização Normalizada de Arquivos: Reconstituição de Paróquias e História das Populações;*
supported by FCT (programa PRAXIS);
team leader; 1999-2001.
- OOF *Object-Oriented Frameworks: applications and support;*
JNICT/British-Council Coop. Protocol;
team leader; 1997-1998.
- LePAForM *Language and Environments for the Pragmatic Application of Formal Methods;*
JNICT/British-Council Coop. Protocol;
team leader; 1995-1997.
- GelRA *Information System supporting the Portuguese heritage;*
supported by INTERREG II;
team leader; 1996-1999.
- David *Algebraic Specification of Documents;*
JNICT, PBIC/TIT/2479/95; (project coordinator);
project coordinator; 1996-1998.
- Sara *Visual Programming: Definition, Applications, Environments;*
JNICT, PBIC/TIT/2481/95; (project coordinator);
project coordinator; 1996-1998.

(COORDINATION OF) DEVELOPMENT PROJECTS

- GreenSSCM *Green Software for Space Control Mission – optimization of energy consumption via software, in cooperation with VisionSpace, supported by Adl, 2013-2015.*
- SIGON.2 *Sistema de Informação para a Gestão da Operação Norte 2 —an information system to ON.2 (O Novo Norte)— a financial instrument which supports regional development in the north of Portugal, in cooperation with CCRN, 2007/2008.*
- IntegraSTC *Compilador e Máquina Virtual para a linguagem de programação de controladores ST segundo a norma IEC, in cooperation with Efacec, 2006.*
- SIME *The Information System for the Emigration virtual Museum (MEC), in cooperation with Casa da Cultura da Câmara Municipal de Fafe, 2003-...*
- SIEP *An web-based Information System to support the Prosopographic study of portuguese medieval priests, in the context of the “Fasti Ecclesiae Portugaliae” FCT project., 2002-2004.*
- IPSb *Análise de Requisitos para o Instituto Português do Sangue, in cooperation with IPS (Ministério da Saúde), 2002/2003.*
- IPSa *Verificação de Software para o Instituto Português do Sangue: validação da aplicação ASIS, in cooperation with IPS (Ministério da Saúde), 1999-2000.*
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