

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

Name	<b>Pedro Manuel Rangel Santos HENRIQUES</b>
Address	<b>Rua Cândido de Oliveira, num. 195 Hab-01, 4715-012 Braga, Portugal</b>
Telephone	<b>+351 (96 841 22 87)</b>
Email	prh@di.uminho.pt
Homepage	<a href="http://www.di.uminho.pt/~prh">http://www.di.uminho.pt/~prh</a>
Nationality	Portuguese
Date of birth	30, June, 1955

## WORK EXPERIENCE

- Full Professor  
*Dates:* since 2023  
*Employer:* University of Minho, Portugal  
*Sector:* Dept. of Informatics  
*Position held:* Full Professor  
*Main activities:* teaching & research
- Assoc. Prof.  
*Dates:* 1996-2023(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: 2019-2024.*

- 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 (UFMS)  
*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**
- SAC'2024-PL ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2023.
  - WAPL'2024 10.th Workshop on Advances in Programming Languages, Serbia, September 2024.
  - SLATe'2024 12th International Symposium on Languages, Applications and Technology, Águeda/Portugal, July 2024.
  - SEGAH'2024 12th International Conference on Serious Games and Applications for Health, August 2024.
  - ICAART'2024 15th. International Conference on Agents and Artificial Intelligence, January 2024.
  - INTIS'2024 12th International Conference on New Technologies, Artificial Intelligence and Smart Data, Tangier/Morocco, May 2024.
  - ICASET'2024 First International Conference on Advanced System, Engineering and Technology Yogyakarta, Indonesia, June 2024.
  - MDASD'2024 8th Workshop on Model Driven Approaches in System Development, Belgrade/Srbia, September 2024.
  - 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'2023 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<sup>a</sup> 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/Slovenia, 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 - Brazil, March 2016.*
- MDASD'2016 *4rd Workshop on Model Driven Approaches in System Development, Warsaw/Poland, September 2016.*
- HistInformatics'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.
- HistoInformatics'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*, latly, 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 - Reinvigorating 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 (POSI/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.
- GeIRA *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.*
- SDT *Sistema de Suporte ao Desenvolvimento para Telecomunicações, um Compilador para a linguagem SDL 2000, in cooperation with Adl (Agência portuguesa de Inovação) via CDFTel, 1999/2000.*
- npMP *Núcleo Português do Museu da Pessoa, A Virtual Museum to collect, process and expose individual "Life Stories", in cooperation with Museu da Pessoa de São Paulo – Brasil, 1998-2005.*

## TALKS/TUTORIALS

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Summary publication at:  
<http://www.bad.pt/noticia/2013/11/04/organizacao-e-representacao-da-informacao-ontologias-como-motor-da-web-semantic/>.
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## PUBLICATIONS

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PhD thesis, Universidade do Minho, Dec. 1992

### BOOKS OR BOOK CHAPTERS

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Ficha Informativa sobre Google Sites.  
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Notas Pedagógicas e guia de construção de um Site em GSites, para suporte a vários cursos
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Notas Pedagógicas para suporte a Paradigmas da Programação I (Mestrado em Ensino de Informática, 1º ano), última revisão Dez. de 2018
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Teaching Material, Dep. Informática – Universidade do Minho, 2018.  
Notas Pedagógicas para suporte a Sistemas de Dados I (Mestrado em Ensino de Informática, 1º ano), última revisão Dez. de 2018
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- AH:17c      Cristiana Araújo and Pedro Rangel Henriques.  
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Ficha Informativa sobre representação de ontologias em OWL e DOT – caso de estudo 'Automóveis'.  
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Gramáticas de Atributos e ANTLR: Resolução detalhada do Exercício 1 da Ficha de Exercícios 1.  
Teaching Material, Dep. Informática – Universidade do Minho, 2017.  
Notas Pedagógicas para suporte a GCS (Perfil de PLC), última revisão Jan. de 2018
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Gramáticas de Atributos e ANTLR: Resolução do Exercício 2 da Ficha de Exercícios 1.  
Teaching Material, Dep. Informática – Universidade do Minho, 2017.  
Notas Pedagógicas para suporte a GCS (Perfil de PLC), última revisão Jan. de 2018
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Gramáticas de Atributos e ANTLR: Resolução do Exercício 3 da Ficha de Exercícios 1.  
Teaching Material, Dep. Informática – Universidade do Minho, 2017.  
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1ª Proposta de Resolução da Ficha de Projeto P1 – uso de uma ferramenta de auto-avaliação de programas para apoio ao ensino de Programação.  
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2ª Proposta de Resolução da Ficha de Projeto P1 – uso de uma ferramenta de auto-avaliação de programas para apoio ao ensino de Programação.  
Teaching Material, Dep. Informática – Universidade do Minho, 2017.  
Notas Pedagógicas para suporte aos Seminários (Mestrado em Ensino de Informática, 2º ano), última revisão Dez. de 2017
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Bases de Dados Relacionais: Resolução da Ficha de Exercícios sobre Queries em SQL.  
Teaching Material, Dep. Informática – Universidade do Minho, 2016.  
Notas Pedagógicas para suporte a CP (Lic. Geologia, 2º ano), última revisão Jun. de 2017
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Introdução às MASLP: um exemplo.  
Relatorio Interno UMMAN mas-1.5, DI/UM, Dec. 1991

## **ACADEMIC DUTIES AND ASSOCIATIONS**

- Department Board  
Head of Department (Informatics): 2002-2004  
Head of Department (Informatics): 2017-2022  
Deputy director of Department (Informatics): 2022-2024
- Membership in Associations  
Member of the *Portuguese Association for Artificial Intelligence*, APPIA;  
President of the Coordination Board for 2006-2007, 2008-2009, and 2010-2011.

## **PERSONAL SKILLS AND COMPETENCIES**

- Mother tongue  
Portuguese
- Other languages  
English and French