

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

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|---------------|---------------------------------------------------------------------------|
| 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)/(91 432 40 21)</b>                                 |
| Fax           | <b>+351 253 604 471</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

- 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

- 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.*

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| • Ricardo Giuliani Martini   | <p><i>Subject:</i> Formal Description and Automatic Generation of Learning Spaces based on Ontologies<br/> <i>Co-supervisor:</i> Prof. Giovanni R. Librelotto (UFMS)<br/> <i>Institution:</i> U. Minho (PDInf Program)<br/> <i>Date:</i> 2014-2018.</p>                             |
| • Paula Correia Tavares      | <p><i>Subject:</i> O Impacto da Animação e Visualização no Ensino da Programação<br/> <i>Co-supervisor:</i> Prof. Elsa Ferreira Gomes (ISEP)<br/> <i>Institution:</i> U. Minho (PDInf Program)<br/> <i>Date:</i> 2013-2018.</p>                                                     |
| • Daniela C. da Cruz         | <p><i>Subject:</i> Verification, Slicing and Visualization of Programs with Contracts<br/> <i>Co-supervisor:</i> Prof. Jorge Sousa Pinto (UM)<br/> <i>Institution:</i> U. Minho (MAP-i Program)<br/> <i>Date:</i> 2007-2011.</p>                                                    |
| • Mario M. Berón             | <p><i>Subject:</i> Program Inspection to interconnect the Behavioral and Operational Views for Program Comprehension<br/> <i>Co-supervisor:</i> Prof. Roberto Uzal<br/> <i>Institution:</i> U. Nacional San Luis + U. Minho (Alpha LERNet project)<br/> <i>Date:</i> 2006-2009.</p> |
| • Paulo J. Oliveira          | <p><i>Subject:</i> Data Quality Problems in Databases: Detection and Correction<br/> <i>Co-supervisor:</i> Prof. Fátima Rodrigues (ISEP / IPP)<br/> <i>Institution:</i> U. Minho<br/> <i>Date:</i> 2003-2009.</p>                                                                   |
| • Gustavo V. Arnold          | <p><i>Subject:</i> Automatização da Geração de Código para Robôs Industriais diversos<br/> <i>Co-supervisor:</i> Prof. Jaime Fonseca (UM)<br/> <i>Institution:</i> U. Minho<br/> <i>Date:</i> 2002-2008.</p>                                                                        |
| • Giovanni R. Librelotto     | <p><i>Subject:</i> Topic Maps, da Sintaxe à Semântica<br/> <i>Co-supervisor:</i> Prof. José Carlos Ramalho (UM)<br/> <i>Institution:</i> U. Minho<br/> <i>Date:</i> 2001-2005.</p>                                                                                                  |
| • Paulo J. Matos             | <p><i>Subject:</i> Um Modelo Arquitectónico para Desenvolvimento de Compiladores: aplicação à Framework Dolphin<br/> <i>Institution:</i> U. Minho<br/> <i>Date:</i> 2000-2005.</p>                                                                                                  |
| • Maria João Varanda Pereira | <p><i>Subject:</i> Sistematização da Animação de Programas<br/> <i>Institution:</i> U. Minho<br/> <i>Date:</i> 1998-2003.</p>                                                                                                                                                       |
| • Jorge Gustavo Rocha        | <p><i>Subject:</i> Informação Geográfica: Meta-Informação, Codificação e Visualização<br/> <i>Institution:</i> U. Minho<br/> <i>Date:</i> 1997-2005.</p>                                                                                                                            |
| • José João Almeida          | <p><i>Subject:</i> Dicionários Dinâmicos Multi-fonte<br/> <i>Institution:</i> U. Minho<br/> <i>Date:</i> 1997-2003.</p>                                                                                                                                                             |
| • Fátima C. Rodrigues        | <p><i>Title of thesis:</i> Arquitectura Heterogénea para Extracção de Conhecimento a partir de Dados<br/> <i>Institution:</i> U. Minho<br/> <i>Co-supervisor:</i> Prof. Carlos Ramos (ISEP / IPP)<br/> <i>Date:</i> 1997-2000.</p>                                                  |

- 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 platform; 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'2022-PL *ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2022.*

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| • SLATe'2022          | <i>10th International Symposium on Languages, Applications and Technology, Covilhã/Portugal, July 2022.</i>                                       |
| • ICPEC'2022          | <i>3rd International Computer Programming Education Conference, Barcelos/Portugal, 2022.</i>                                                      |
| • ICAART'2022         | <i>13th. International Conference on Agents and Artificial Intelligence, January 2022.</i>                                                        |
| • LinkedArchives'2022 | <i>International Workshop on Archives and Linked Data, Itália September 2022.</i>                                                                 |
| • SAC'2021-PL         | <i>ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2021.</i>                                        |
| • SLATe'2021          | <i>10th International Symposium on Languages, Applications and Technology, Vila-do-Conde/Portugal, July 2021.</i>                                 |
| • LinkedArchives'2021 | <i>International Workshop on Archives and Linked Data, Porto/Portugal September 2021.</i>                                                         |
| • ICAART'2021         | <i>12th. International Conference on Agents and Artificial Intelligence, January 2021.</i>                                                        |
| • SAC'2020-PL         | <i>ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2020.</i>                                        |
| • ICPEC'2020          | <i>1.st International Computer Programming Education Conference, Vila-do-Conde/Portugal, May 2020.</i>                                            |
| • ICSOFT'2020         | <i>15th International Conference on Software Engineering, 2020.</i>                                                                               |
| • ICAART'2020         | <i>12th. International Conference on Agents and Artificial Intelligence, January 2020.</i>                                                        |
| • SAC'2019-PL         | <i>ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", Cyprus, April 2019.</i>                                |
| • SLATe'2019          | <i>8th International Symposium on Languages, Applications and Technology, Coimbra/Portugal, June 2019.</i>                                        |
| • WAPL'2019           | <i>7.th Workshop on Advances in Programming Languages, Leibniz/Germany, September 2019.</i>                                                       |
| • IWSC'2019           | <i>International Wiki Scientific Conference, Porto, March 2019.</i>                                                                               |
| • ICSOFT'2019         | <i>14th International Conference on Software Engineering, 2019.</i>                                                                               |
| • ICAART'2019         | <i>11th. International Conference on Agents and Artificial Intelligence, January 2019.</i>                                                        |
| • BICT'2019           | <i>11th EAI International Conference on Bio-inspired Information and Communications Technologies, Pittsburgh, Pennsylvania, USA, April, 2019.</i> |
| • SAC'2018-PL         | <i>ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages", April 2018.</i>                                        |
| • LATA'2018           | <i>12th International Conference on Language and Automata Theory and Applications, Bar-Ilan University/Israel, April 2018.</i>                    |
| • ICSOFT'2018         | <i>13th International Conference on Software Engineering, 2018.</i>                                                                               |

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| • WIReS'2018           | <i>Workshop on Intelligent Recommendation Systems</i> , 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          | <i>10th. International Conference on Agents and Artificial Intelligence</i> , January 2018.                                                                                                               |
| • PAAMS'2018-DeMaDIE   | <i>15th Int. Conf. on Practical Applications of Agents and Multi-agents Systems — 3rd Decision Making in Dynamic Information Environments (DeMaDIE)</i> , Toledo/Spain, June 2018.                        |
| • MDASD'2018           | <i>5th Workshop on Model Driven Approaches in System Development</i> , Poland, September 2018.                                                                                                            |
| • SAC'2017-PL          | <i>ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages"</i> , Marrakech, Marocco, April 2017.                                                                           |
| • SLATe'2017           | <i>6th International Symposium on Languages, Applications and Technology</i> , Vila do Conde/Portugal, June 2017.                                                                                         |
| • SCLIT'2017           | <i>7th Symposium on Computer Languages, Implementation and Tools</i> , Greece, September 2017.                                                                                                            |
| • ICSOFT'2017          | <i>12th International Conference on Software Engineering</i> , Lisboa, Portugal, 2017.                                                                                                                    |
| • BICT'2017            | <i>The 10th EAI International Conference on Bio-inspired Information and Communications Technologies (formerly BIONETICS)</i> , New Jersey, USA, March 2017.                                              |
| • IDEAS'2017           | <i>20th International Database Engineering &amp; Applications Symposium</i> , Canada, July 2017.                                                                                                          |
| • ICAART'2017          | <i>9th. International Conference on Agents and Artificial Intelligence</i> , January 2017.                                                                                                                |
| • SAC'2016-PL          | <i>ACM-SIGAPP Symposium on Applied Computing – Technical Track on "Programming Languages"</i> , Pisa - Italy, April 2016.                                                                                 |
| • SLATe'2016           | <i>5th International Symposium on Languages, Applications and Technology</i> , Maribor/Slovain, June 2016.                                                                                                |
| • SCLIT'2016           | <i>6th Symposium on Computer Languages, Implementation and Tools</i> , Greece, September 2016.                                                                                                            |
| • ICSOFT-EA'2016       | <i>11th International Conference on Software Engineering and Applications</i> , 2016.                                                                                                                     |
| • WorldCIST'2016-SHR   | <i>1st Workshop on Semantics for Humanities Resources</i> co-located with <i>4th World Conference on Information Systems and Technologies</i> , Recife - Brasil, March 2016.                              |
| • MDASD'2016           | <i>4rd Workshop on Model Driven Approaches in System Development</i> , Warsaw/Poland, September 2016.                                                                                                     |
| • HistInformatics'2016 | <i>4th International Workshop on Computational History – Mining and Harvesting Digital History</i> , Poland, July 2016.                                                                                   |
| • IDEAS'2016           | <i>20th International Database Engineering &amp; Applications Symposium</i> , Canada, July 2016.                                                                                                          |
| • ICAART'2016          | <i>8th. International Conference on Agents and Artificial Intelligence</i> , January 2016.                                                                                                                |
| • CAPSI'2017           | <i>16<sup>a</sup> Conferência da Associação Portuguesa de Sistemas de Informação</i> , Portugal, October 2017.                                                                                            |

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| • ICSME'2015           | <i>31st IEEE International Conference on Software Maintenance and Evolution</i> , , Sep/October 2015.                                                                   |
| • SLATe'2015           | <i>4th International Symposium on Languages, Applications and Technology</i> , Madrid/Spain, June 2015.                                                                 |
| • WAPL'2015            | <i>5.th Workshop on Advances in Programming Languages</i> , Poland, September 2015.                                                                                     |
| • SCLIT'2015           | <i>5th Symposium on Computer Languages, Implementation and Tools</i> , Greece, September 2015.                                                                          |
| • RAISE'2015           | <i>4th Int. Workshop on Realizing AI Synergies in Software Engineering</i> , Florence/Italy, May 2015.                                                                  |
| • ICSOFT-EA'2015       | <i>10th International Conference on Software Engineering and Applications</i> , 2015.                                                                                   |
| • IDEAS'2015           | <i>19th International Database Engineering &amp; Applications Symposium</i> , China, July 2015.                                                                         |
| • ICAART'2015          | <i>7th. International Conference on Agents and Artificial Intelligence</i> , Lisboa/Portugal, January 2015.                                                             |
| • EPIA'2015            | <i>General AI (GAI) track at the International Conference of Artificial Intelligence in Portugal</i> , Coimbra/Portugal, September 2015.                                |
| • HD'2015              | <i>1ª Conferência de Humanidades-Digitais'2015</i> , Lisboa/Portugal, November 2015.                                                                                    |
| • CAPSI'2015           | <i>15ª Conferência da Associação Portuguesa de Sistemas de Informação</i> , Lisboa/Portugal, October 2015.                                                              |
| • VideoJogos'2015      | <i>7ª Conferência de Ciências e Artes dos Videojogos</i> , Coimbra/Portugal, November 2015.                                                                             |
| • ICSME'2014           | <i>30th IEEE International Conference on Software Maintenance and Evolution</i> , Victoria/Canada, October 2014.                                                        |
| • SLATe'2014           | <i>3rd International Symposium on Languages, Applications and Technology</i> , Bragança/Portugal, June 2014.                                                            |
| • SCLIT'2014           | <i>4th Symposium on Computer Languages, Implementation and Tools</i> , Greece, September 2014.                                                                          |
| • ICSOFT-EA'2014       | <i>9th International Conference on Software Engineering and Applications</i> , Viena/Austria, August 2014.                                                              |
| • IDEAS'2014           | <i>18th International Database Engineering &amp; Applications Symposium</i> , Porto/Portugal, July 2014.                                                                |
| • MDASD'2014           | <i>3rd Workshop on Model Driven Approaches in System Development</i> , Warsaw/Polonia, September 2014.                                                                  |
| • BICT'2014            | <i>The 8th International Conference on Bio-inspired Information and Communications Technologies — AI and Software Engineering (AISE) Track</i> , Boston, December 2014. |
| • ICAART'2014          | <i>6th. International Conference on Agents and Artificial Intelligence</i> , Angers/France, March 2014.                                                                 |
| • HistInformatics'2014 | <i>2nd International Workshop on Computational History – Mining and Harvesting Digital History</i> , Barcelona/Spain, November 2014.                                    |
| • KDO'2014             | <i>2nd. Workshop on Knowledge Discovery in Ontologies</i> , Warsaw/Poland, August 2014.                                                                                 |

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| • 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 <i>International Conference on Software Maintenance</i> , Eindhoven/The Netherlands, September 2013.                          |
| • RAISE'2013            | 2nd Int. NFS sponsored Workshop on <i>Realizing AI Synergies in Software Engineering</i> , San Francisco/USA, May 2013.                 |
| • SAC'2013-PL           | ACM-SIGAPP <i>Symposium on Applied Computing – Technical Track on "Programming Languages"</i> , Coimbra/Portugal, March 2013.           |
| • SLATe'2013            | 2nd <i>Symposium on Languages, Applications and Tools</i> , Porto/Portugal, June 2013.                                                  |
| • SCLIT'2013            | 3rd <i>Symposium on Computer Languages, Implementation and Tools</i> , Greece, September 2013.                                          |
| • WAPL'2013             | 4.th <i>Workshop on Advances in Programming Languages</i> , Poland, September 2013.                                                     |
| • KDO'2013              | <i>First Workshop on Knowledge Discovery in Ontologies</i> , Atlanta/USA, November 2013.                                                |
| • Informatics'2013      | 12th <i>International Scientific Conference on Informatics</i> , Slovakia, November 2013.                                               |
| • Histoinformatics'2013 | 1st <i>International Workshop on Histoinformatics – "Mining and Harvesting Digital History"</i> , Kioto/Japan, November 2013.           |
| • ICAART'2013           | <i>International Conference on Agents and Artificial Intelligence</i> , January 2013.                                                   |
| • SDIA'2013             | Doctoral Symposium of the <i>Portuguese Association for Artificial Intelligence</i> , Açores/Portugal, September 2013.                  |
| • EPIA'2013             | General AI track & Special track <i>Challenges</i> , 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 <i>Symposium on Applied Computing – Technical Track on "Programming Languages"</i> , Italy, March 2012.                      |
| • SAC'2012-DE           | ACM-SIGAPP <i>Symposium on Applied Computing – Technical Track on "Document Engineering"</i> , Italy, March 2012.                       |
| • ICAART'2012           | <i>International Conference on Agents and Artificial Intelligence</i> , Portugal, January 2012.                                         |
| • SLATe'2012            | 1st <i>Symposium on Languages, Applications and Tools</i> , Braga/Portugal, June 2012.                                                  |
| • SCLIT'2012            | 2nd <i>Symposium on Computer Languages, Implementation and Tools</i> , Greece, September 2012.                                          |
| • MDASD'2012            | 2nd Workshop on <i>Model Driven Approaches in System Development</i> a satellite event of <i>FedCISC'2012</i> , Poland, September 2012. |



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| • CSE'2012       | International Scientific Conference on <i>Computer Science and Engineering</i> , Stará-Lesná/Slovakia, September 2012.                                                   |
| • BCI'2012       | 5th <i>Balkan Conference in Informatics</i> , Novi-Sad/Serbia, September 2012.                                                                                           |
| • ICPC'2011      | 19th <i>IEEE International Conference on Program Comprehension</i> , Canada, June 2011.                                                                                  |
| • SCAM'2011      | 11th <i>IEEE International Working Conference on Source Code Analysis and Manipulation</i> , USA, September 2011.                                                        |
| • SAC'2011-PL    | ACM-SIGAPP <i>Symposium on Applied Computing – Technical Track on "Programming Languages"</i> , Taiwan, March 2011.                                                      |
| • WAPL'2011      | 3.nd <i>Workshop on Advances in Programming Languages</i> , Poland, September 2011.                                                                                      |
| • SCLIT'2011     | <i>Symposium on Computer Languages, Implementation and Tools</i> , Greece, September 2011.                                                                               |
| • CoRTA'2011     | 4th Int. <i>Workshop on Compiler and Related Technologies and Applications</i> ; Portugal, September 2011.                                                               |
| • EPIA'2011      | Bi-Annual Conference of the <i>Portuguese Association for Artificial Intelligence</i> , Lisboa, October 2011.                                                            |
| • ICAART'2011    | <i>International Conference on Agents and Artificial Intelligence</i> , Italy, January 2011.                                                                             |
| • SAC'2010-PL    | ACM-SIGAPP <i>Symposium on Applied Computing – Technical Track on "Programming Languages"</i> , Switzerland, March 2010.                                                 |
| • SAC'2010-DE    | ACM-SIGAPP <i>Symposium on Applied Computing – Technical Track on "Document Engineering"</i> , Switzerland, March 2010.                                                  |
| • BIONETICS'2010 | <i>The 5th Int. Conference on Bio-Inspired Models of Network, Information and Computing Systems, a AI and Software Engineering (AISE) Track</i> , Boston, December 2010. |
| • ADBIS'2010     | 14th <i>East-European Conference on Advances in Databases and Information Systems</i> , Novi Sad, September 2010.                                                        |
| • MDASD'2010     | 1st <i>Workshop on Model Driven Approaches in System Development</i> a satellite event of ADBIS'2010, Novi Sad, September 2010.                                          |
| • ICAART'2010    | <i>International Conference on Agents and Artificial Intelligence</i> , Spain, January 2010.                                                                             |
| • EPIA'2009      | Bi-Annual Conference of the <i>Portuguese Association for Artificial Intelligence</i> , Aveiro, October 2009.                                                            |
| • WAPL'2009      | 2.nd <i>Workshop on Advances in Programming Languages</i> , Mragowo/Poland, October 2009.                                                                                |
| • CoRTA'2009     | 3rd Int. <i>Workshop on Compiler and Related Technologies and Applications</i> ; Lisboa, September 2008.                                                                 |
| • SAC'2008-PL    | ACM-SIGAPP <i>Symposium on Applied Computing – Technical Track on "Programming Languages"</i> , Brasil, March 2008.                                                      |
| • SAC'2008-DE    | ACM-SIGAPP <i>Symposium on Applied Computing – Technical Track on "Document Engineering"</i> , Brasil, March 2008.                                                       |
| • CSE'2008       | International Scientific Conference on <i>Computer Science and Engineering</i> , 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 | <p><i>Construction, Exploration and Transformation of Learning Object Repositories in Specialized Domains (Creación, Exploración y Transformación de Repositorios de Objetos Educativos en Dominios Especializados);</i><br/> 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.</p> |
| • RedR+Human | <p><i>Repositories for Education with Dynamic Reconfigurability in the Humanities;</i><br/> Spanish Research Project (funded by Ministry of Education) – team leader: Professor José Luis Sierra Rodríguez, Universidad Complutense de Madrid; collaborator; 2015-2017.</p>                                                                                                                                                          |
| • QUIXOTE    | <p><i>Desenvolvimento de modelos do domínio do problema para inter-relacionar as vistas operacional e comportamental em sistemas de software;</i><br/> bilateral Argentina-Portugal joint-research project supported by FCT (Departamento das Relações Europeias, Bilaterais e Multilaterais);<br/> team leader; 2010-2011.</p>                                                                                                      |
| • AsCoP      | <p><i>Assessing Comprehension of Domain Specific Programs;</i><br/> bilateral Slovenia-Portugal joint-research project supported by FCT (Departamento das Relações Europeias, Bilaterais e Multilaterais);<br/> team leader; 2010-2011.</p>                                                                                                                                                                                          |
| • HERMES     | <p><i>Aprendizagem e Povoamento de Ontologias a partir de Fontes Textuais;</i><br/> bilateral Brasil-Portugal joint-research project supported by Programa CAPES-FCT2009 (Departamento das Relações Europeias, Bilaterais e Multilaterais);<br/> 2010-2012.</p>                                                                                                                                                                      |
| • CROSS      | <p><i>An Infrastructure for Certification and Re-engineering of Open Source Software;</i><br/> supported by FCT (under contract PTDC/EIA-CCO/108995/2008);<br/> 2010-2012.</p>                                                                                                                                                                                                                                                       |
| • Matisse    | <p><i>MathIS - Reinigorating Mathematics for the Information Society;</i><br/> supported by FCT (under contract PPTDC/EIA/73252/2006);<br/> 2009-2011.</p>                                                                                                                                                                                                                                                                           |
| • DSLpc      | <p><i>Program Comprehension for Domain Specific Languages;</i><br/> bilateral Slovenia-Portugal joint-research project supported by FCT (Departamento das Relações Europeias, Bilaterais e Multilaterais);<br/> team leader; 2008/2009.</p>                                                                                                                                                                                          |
| • PCVIA      | <p><i>Program Comprehension by Visual Inspection and Animation;</i><br/> supported by FCT (POS/EIA/57662/2004);<br/> team leader; 2005-2007.</p>                                                                                                                                                                                                                                                                                     |
| • Voda       | <p><i>Grammar-based Systems;</i><br/> bilateral Slovenia-Portugal joint-research project supported by GRICES;<br/> team leader; 2004-2006.</p>                                                                                                                                                                                                                                                                                       |
| • AGiL       | <p><i>Automatic Generation of Language-based Tools;</i><br/> bilateral Slovenia-Portugal joint-research project supported by ICCTI;<br/> team leader; 2001-2003.</p>                                                                                                                                                                                                                                                                 |
| • Fasti      | <p><i>Fasti Ecclesiae Portugaliae, estudo prosopográfico do Clero Catedralício Português na Idade Média;</i><br/> supported by FCT;<br/> team leader; 2003-2006.</p>                                                                                                                                                                                                                                                                 |

- 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 AdI, 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

- UCM *Languages, Ontologies and automatic Grammar generation, UCM Doctoral Program in Informatics, UCM/Madrid, 2016.Jul.12.*
- IMG *Perspectiva de Informática na colaboração em projetos das Humanidades—que diálogos?, Workshop Idade Média Digital, IEM/FCSH-UNL, 2014.Sep.26.*
- Webinar *Organização e Representação da Informação (Arquivos, Bibliotecas e Museus), Webinar BAD, 2013.May.07.*  
Summary publication at:  
<http://www.bad.pt/noticia/2013/11/04/organizacao-e-representacao-da-informacao-ontologias-como-motor-da-web-semantic/>.
- palUBI04 *Maratonas de Programação e outros Desafios Lúdicos baseados em computador: o seu papel no ensino, UBI/Covilhã, 2004.Mar.02.*  
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[www.di.uminho.pt/~prh/palUBI04.ppt](http://www.di.uminho.pt/~prh/palUBI04.ppt).

## PUBLICATIONS

### THESIS AND DISSERTATIONS

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*Brincando às Linguagens com Rigor: Engenharia Gramatical.*  
Habilitation in Computer Science (Technical Report), Dep. de Informática, Escola de Engenharia da Universidade do Minho, Oct. 2011.  
Habilitation monography presented and discussed in a public session held in April 2012 at UM/Braga
- Hen92b Pedro Rangel Henriques.  
*Atributos e Modularidade na Especificação de Linguagens Formais.*  
PhD thesis, Universidade do Minho, Dec. 1992

### BOOKS OR BOOK CHAPTERS

- RH02 José Carlos Ramalho and Pedro Rangel Henriques.  
*XML & XSL: da teoria à prática.*  
Série Tecnologias de Informação ISBN-972-722-347-8. Editora FCA, 1st ed. edition, Oct 2002

- Pinho:2022      Rafaela de Pinho, Maria João Varanda Pereira, Ana Paula Azevedo, and Pedro Rangel Henriques.  
Relating Biometric Sensors with Serious Games Results.  
In Alvaro Rocha, Hojjat Adeli, Gintautas Dzemyda, and Fernando Moreira, editors, *Information Systems and Technologies*, volume 468, pages 91–100. Springer International Publishing, Cham, April 2022
- Franco:2022      Tiago Franco, Pedro Rangel Henriques, Paulo Alves, Maria João Varanda Pereira, Tiago Pedrosa, F. Silva, Paulo Leitão, and L. Oliveira.  
System Architecture for Home Muscle Rehabilitation Treatment.  
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- Elias:2021      Constança Elias, Jorge Brandão Gonçalves, Maria Laura Araújo, Pedro Pinheiro, Cristiana Araújo, and Pedro Rangel Henriques.  
NetAC, An Automatic Classifier of Online Hate Speech Comments.  
In Álvaro Rocha, Hojjat Adeli, Gintautas Dzemyda, Fernando Moreira, and Ana Maria Ramalho Correia, editors, *Trends and Applications in Information Systems and Technologies, WorldCist'2021*, Advances in Intelligent Systems and Computing, pages 494–505. Springer International Publishing, Cham, 1 edition, April 2021
- Calheno:2021      Rui Calheno, Paulo Carvalho, Solange Rito Lima, Pedro Rangel Henriques, and Mateo Ramos-Merino.  
Multi-perspective Conformance Checking Applied to BPMN-E2.  
In Álvaro Rocha, Hojjat Adeli, Gintautas Dzemyda, Fernando Moreira, and Ana Maria Ramalho Correia, editors, *Trends and Applications in Information Systems and Technologies, WorldCist'2021*, volume 1366 of *Advances in Intelligent Systems and Computing (AISC)*, page 394–404. Springer International Publishing, Cham, 1 edition, April 2021
- RMartins:2020      Ricardo Martins, José João Almeida, Pedro Rangel Henriques, and Paulo Novais.  
Predicting an Election's Outcome Using Sentiment Analysis.  
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- AzevedoR:2019a      Renato Azevedo, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
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In Álvaro Rocha, Hojjat Adeli, Luís Paulo Reis, and Sandra Costanzo, editors, *New Knowledge in Information Systems and Technologies, WorldCist'2019*, volume 930 of *Advances in Intelligent Systems and Computing*, pages 460–471. Springer International Publishing, Cham, 1 edition, March 2019
- Araujo:2018b      Cristiana Araújo, Ricardo G. Martini, Pedro Rangel Henriques, and Maria João Varanda Pereira.  
Uma Plataforma para criar Ambientes Virtuais de Aprendizagem a partir de um Repositório de Documentos XML: CaVa.  
In Adrian Menéndez de la Cuesta, editor, *Encuentros digitales: escrituras, colecciones, aprendizajes en español*, E-Prints Complutense, el Repositorio de la producción académica en abierto de la UCM, pages 155–180. UCM, Madrid, December 2018
- Araujo:2018a      Cristiana Araújo, Ricardo G. Martini, Pedro Rangel Henriques, and José João Almeida.  
Annotated Documents and Expanded CIDOC-CRM Ontology in the Automatic Construction of a Virtual Museum.  
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- RRH02 Fátima Rodrigues, Carlos Ramos, and Pedro Rangel Henriques.  
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#### PROCEEDINGS EDITOR

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- SLATE2020 Alberto Simões, Pedro Rangel Henriques, and Ricardo Queirós, editors.  
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- SLATE2018 Pedro Rangel Henriques, José Paulo Leal, António Menezes Leitão, and Xavier Gómez Guinovart, editors.  
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- AFP1999 Doaitse Swierstra, Pedro Rangel Henriques, and José Nuno Oliveira, editors.  
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#### INTERNATIONAL JOURNALS

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- Franco:2021 T. Franco, P.R. Henriques, P. Alves, and M.J.V. Pereira.  
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- Vladimiretal20 Luís Alves, Dušan Gajić, Pedro Rangel Henriques, Vladimir Ivančević, Vladimir Ivković, Maksim Lalić, Ivan Luković, Maria João Varanda Pereira, Srđan Popov, and Paula Correia Tavares.  
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## PERSONAL SKILLS AND COMPETENCIES

- Mother tongue      Portuguese
- Other languages      English and French
- 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.