

# EUROPEAN CURRICULUM VITAE FORMAT



## PERSONAL INFORMATION

Name **Pedro Manuel Rangel Santos HENRIQUES**  
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Homepage **<http://www.di.uminho.pt/~prh>**  
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

- 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-... .*
- 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-... .*
- 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.*

- **Giovani 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 G. 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**

- **SLATe'2018**      *7th International Symposium on Languages, Applications and Technology,* 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'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.
  - 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.
  - SAC'2017-PL ACM-SIGAPP *Symposium on Applied Computing – Technical Track on "Programming Languages"*, Marrakech, Morocco, 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.*
- 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.*
- Histoinformatics'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 (*3ž 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

- 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 (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 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/>.

## PUBLICATIONS

### 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
- Araujo:2018a Cristiana Araújo, Ricardo G. Martini, Pedro Rangel Henriques, and José João Almeida.  
*New Advances in Information Systems and Technologies: Volume 2*, chapter Annotated Documents and Expanded CIDOC-CRM Ontology in the Automatic Construction of a Virtual Museum, pages x–y.  
Systems and Applications, Studies in Computational Intelligence 718. Springer International Publishing AG, 2018.  
(to appear soon.)
- Martini2016a Ricardo G. Martini, Cristiana Araújo, Giovanni R. Librelotto, and Pedro R. Henriques.  
*New Advances in Information Systems and Technologies*, chapter A Reduced CRM-Compatible Form Ontology for the Virtual Emigration Museum, pages 401–410.  
Springer International Publishing, Cham, 2016
- Martini2016b Ricardo G. Martini, Cristiana Araújo, José João Almeida, and Pedro Rangel Henriques.  
*New Advances in Information Systems and Technologies: Volume 2*, chapter OntoMP, An Ontology to Build the Museum of the Person, pages 653–661.  
Springer International Publishing, Cham, 2016
- RCHS2015 Daniel Rodriguez-Cerezo, Pedro Rangel Henriques, and José-Luis Sierra.  
*TICAI 2013-2014: TICs para el Aprendizaje de la Ingeniería.*, chapter EvDebugger: Las gramáticas de atributos hechas fáciles (Cap. 6), pages 57–65.  
IEEE, Sociedad de Educación: Capítulos Español y Portugués, Sep 2015
- POCH2015 Maria João Varanda Pereira, Nuno Oliveira, Daniela da Cruz, and Pedro Rangel Henriques.  
*(chp. 7) Innovative Teaching Strategies and New Learning Paradigms in Computer Programming*, chapter An effective Way to Teach Language Processing Courses.  
IGI Global, 2015

- FCHG12b Daniela Fonte, Daniela da Cruz, Pedro Rangel Henriques, and Alda Lopes Gançarski. *Innovations in XML Applications and Metadata Management: Advancing Technologies*, chapter GuessXQ, a query-by-example approach for XML querying, pages 57–76. IGI Global by Hershey, PA: Information Science Reference, Dec 2012
- FHG12a Flávio Xavier Ferreira, Pedro Rangel Henriques, and Alda Lopes Gançarski. *Innovations in XML Applications and Metadata Management: Advancing Technologies*, chapter Using Semantics in XML Information Access: Application to the Portuguese Emigration Museum, pages 198–215. IGI Global by Hershey, PA: Information Science Reference, Dec 2012
- CH09 Daniela da Cruz and Pedro Rangel Henriques. *Advances in Computer Science and IT (D. M. Akbar Hussain, Ed.)*, chapter Slicing techniques to derive the User Interface Abstract Model, pages 249–276. In-Teh, December 2009
- LHD08 Sandra Lopes, Pedro Rangel Henriques, and Paulo Dias. Making concept maps available on the web to the students. In António José Mendes, Isabel Pereira, and Rogério Costa, editors, *Computers and Education*, pages 179–188. Springer London, 2008. 10.1007/978-1-84628-929-3\_18
- ORH06 Paulo Oliveira, Fátima Rodrigues, and Pedro Rangel Henriques. Data cleaning by reusing domain knowledge. In *Knowledge and Decision Technologies*, pages 67–74. ISBN: 972-8688-39-3, 2006
- RRH02 Fátima Rodrigues, Carlos Ramos, and Pedro Rangel Henriques. Data reduction to improve knowledge extraction. In J.Filipe, B.Sharp, and Miranda, editors, *Enterprise Information Systems III*, pages 137–145. Kluwer Academic Publishers, 2002

#### PROCEEDINGS EDITOR

- ICPC2010 Giuliano Antoniol, Keith Gallagher, and Pedro Rangel Henriques, editors. *18th IEEE International Conference on Program Comprehension (ICPC2010)*, Washington, DC, USA, June 2010. IEEE Computer Society, Conference Publishing Services (CPS)
- AFP1999 Doaitse Swierstra, Pedro Rangel Henriques, and José Nuno Oliveira, editors. *Advanced Functional Programming*, volume Lecture Notes in Computer Science (LNCS) – 1608, Berlin, 1999. Springer-Verlag GmbH

#### INTERNATIONAL JOURNALS

- Rangel2016a M.M. Berón, H. Bernardis, E.A. Miranda, D.E. Riesco, M.J.V. Pereira, and P.R. Henriques. Measuring the understandability of wsdl specifications, web service understanding degree approach and system. *Computer Science and Information Systems*, 13(3):779–807, 2016
- Rangel2016b D. Branco and P.R. Henriques. Impact of gcc optimization levels in energy consumption during c/c++ program execution. *2015 IEEE 13th International Scientific Conference on Informatics, INFORMATICS 2015 - Proceedings*, pages 52–56, 2016
- Martini:2016:KES Ricardo Giuliani Martini, Giovanni Rubert Librelotto, and Pedro Rangel Henriques. Formal description and automatic generation of learning spaces based on ontologies. *Procedia Computer Science*, 96:235 – 244, 2016. Knowledge-Based and Intelligent Information and Engineering Systems: Proceedings of the 20th International Conference KES-2016
- Pereira2016 Maria João Varanda Pereira, João Fonseca, and Pedro Rangel Henriques. Ontological approach for DSL development. *Computer Languages, Systems & Structures*, 45:35–52, 2016
- Martini2016c Ricardo G. Martini, Mónica Guimarães, Giovanni R. Librelotto, and Pedro Rangel Henriques. Creating virtual exhibition rooms from emigration digital archives. *Universal Access in the Information Society*, pages 1–11, 2016
- MAH16b Cristiana Araújo, Ricardo Martini, Pedro Rangel Henriques, and José João Almeida. Building the Museum of the Person from RDF Triples and SPARQL. *Communications and Innovations Gazette (ComInG)*, 1(2):1–14, 2016

- SanchezOBH15 Alejandro Sanchez, Nuno Oliveira, Luís Soares Barbosa, and Pedro Rangel Henriques.  
A perspective on architectural re-engineering.  
*Sci. Comput. Program.*, 98:764–784, 2015
- CarvalhoAHP15 Nuno Ramos Carvalho, José João Almeida, Pedro Rangel Henriques, and Maria João Varanda Pereira.  
From source code identifiers to natural language terms.  
*Journal of Systems and Software*, 100:117–128, 2015
- BHP2012a José Barros, Daniela da Cruz, Pedro Henriques, and Jorge Pinto.  
Assertion-based slicing and slice graphs.  
*Formal Aspects of Computing*, 24:217–248, 2012.  
10.1007/s00165-011-0196-1
- RCH2012a Miguel Regedor, Daniela da Cruz, and Pedro Rangel Henriques.  
The Role of Best Practices to Appraise Open Source Software.  
48, 2012
- CH2011a Daniela Carneiro da Cruz and Pedro Rangel Henriques.  
Visualizing and analyzing the Quality of XML Documents.  
*J. UCS*, 17(1):126–150, 2011
- ORH2011 Nuno Oliveira, Nuno Rodrigues, and Pedro Rangel Henriques.  
Domain-Specific Language for Coordination Patterns.  
*ComSIS – Computer Science an Information Systems Journal, (special issue on Advances in Formal Languages, Modeling and Applications)*, 8(2):343–359, May 2011
- LVOCH2011 Ivan Lukovic, Maria João Varanda Pereira, Nuno Oliveira, Daniela da Cruz, and Pedro Rangel Henriques.  
A DSL for PIM Specifications: Design and Attribute Grammar based implementation.  
*ComSIS – Computer Science an Information Systems Journal, (special issue on Advances in Formal Languages, Modeling and Applications)*, 8(2):379–403, May 2011
- AHP2011 Sérgio Areias, Daniela da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
GamaPolarSlicer.  
*ComSIS – Computer Science an Information Systems Journal, (special issue on Advances in Formal Languages, Modeling and Applications)*, 8(2):477–499, May 2011
- OPHCC2010 Nuno Oliveira, Maria João Varanda Pereira, Pedro Rangel Henriques, Daniela da Cruz, and Bastian Cramer.  
Visuallisa: A visual environment to develop attribute grammars.  
*ComSIS – Computer Science an Information Systems Journal, Special issue on Advances in Languages, Related Technologies and Applications*, 7(2):266 – 289, May 2010
- KOMPCCH2010 Tomaz Kosar, Nuno Oliveira, Marjan Mernik, Maria João Varanda Pereira, Matej Crepinsek, Daniela da Cruz, and Pedro Rangel Henriques.  
Comparing general-purpose and domain-specific languages: An empirical study.  
*ComSIS – Computer Science an Information Systems Journal, Special issue on Advances in Languages, Related Technologies and Applications*, 7(2):248 – 264, May 2010
- CBHP09 Daniela da Cruz, Mario Béron, Pedro Rangel Henriques, and Maria João Varanda Pereira.  
Code inspection approaches for program visualization.  
*Acta Electrotechnica et Informatica*, 9(3):32–42, Jul-Sep 2009.  
ISSN: 1335-8243
- LARH09 Giovanni Rubert Librelotto, Renato Preigschadt de Azevedo, José Carlos Ramalho, and Pedro Rangel Henriques.  
Topic maps constraint languages: understanding and comparing.  
*Int. Journal Reasoning-based Intelligent Systems*, 1(3/4):173–181, Jun 2009.  
ISSN:
- PMCH08j Maria João Varanda Pereira, Marjan Mernik, Daniela da Cruz, and Pedro Rangel Henriques.  
Program comprehension for domain-specific languages (invited paper).  
*ComSIS – Computer Science an Information Systems Journal, Special Issue on Compilers, Related Technologies and Applications*, 5(2):1–17, Dec 2008.  
ISSN: 1820-0214

- CHV08ja Daniela da Cruz, Pedro Rangel Henriques, and Maria João Varanda.  
Alma versus ddd.  
*ComSIS – Computer Science an Information Systems Journal, Special Issue on Compilers, Related Technologies and Applications*, 5(2):119–136, Dec 2008.  
ISSN: 1820-0214
- FPCH08jb Elisabete Ferreira, Rogério Paulo, Daniela da Cruz, and Pedro Rangel Henriques.  
Integration of the ST language in a model-based engineering environment for control systems – an approach for compiler implementation.  
*ComSIS – Computer Science an Information Systems Journal, Special Issue on Compilers, Related Technologies and Applications*, 5(2):87–101, Dec 2008.  
ISSN: 1820-0214
- CHV07 Daniela da Cruz, Pedro Rangel Henriques, and Maria João Varanda.  
Constructing program animations using a pattern-based approach.  
*ComSIS – Computer Science an Information Systems Journal, Special Issue on Advances in Programming Languages*, 4(2):97–114, Dec 2007.  
ISSN: 1820-0214
- GDH06 Alda Gançarski, Anne Doucet, and Pedro Henriques.  
AG-based interactive system to retrieve information from XML documents.  
*IEE Software Journal*, 153:51–60, Apr 2006
- GRH06 Giovanni Librelotto, José Carlos Ramalho, and Pedro Rangel Henriques.  
Metamorphosis - a Topic Maps based environment to handle Heterogeneous Information Resources.  
*Lecture Notes in Computer Science (LNCS)*, 3873:14–25, 2006
- RMHCV06 Damijan Rebernak, Marjan Mernik, Pedro Rangel Henriques, Daniela da Cruz, and Maria João Varanda.  
Specifying languages using aspect-oriented approach: Aspectlisa.  
*CIT – Journal of Computing and Information Technology*, 14(4):343–350, Dec 2006
- RMHV06 Damijan Rebernak, Marjan Mernik, Pedro Rangel Henriques, and Maria João Varanda.  
Aspectlisa: an aspect-oriented compiler construction system based on attribute grammars.  
*Electronic Notes in Theoretical Computer Science (ENTCS)*, 164(2):37–53, Oct 2006
- HVMLGW05 Pedro Henriques, Maria Joao Varanda, Marjan Mernik, Mitja Lenic, Jeff Gray, and Hui Wu.  
Automatic generation of language-based tools using lisa system.  
*IEE Software Journal*, 152(2):54–70, April 2005
- KMHVZ04 Tomaz Kosar, Marjan Mernik, Pedro Henriques, Maria João Varanda, and Viljem Zumer.  
Grammatical approach to problem solving.  
*Informatika Journal*, 28:393–404, 2004
- GRH04 Giovanni Librelotto, José Carlos Ramalho, and Pedro Rangel Henriques.  
Tm-builder: An ontology builder based on XML topic maps.  
*CLEI Eletronic Journal*, 7(2):4, 2004
- JGRH04 Marta Jacinto, Giovanni Librelotto, José Carlos Ramalho, and Pedro Rangel Henriques.  
Xcsl tutorial.  
*Acm Crossroads*, 8(5):5, 2004
- JGRH03 Marta Jacinto, Giovanni Librelotto, José Carlos Ramalho, and Pedro Rangel Henriques.  
Xcsl: XML constraint specification language.  
*CLEI Eletronic Journal*, 6:3, 2003
- RAH98 José Carlos Ramalho, José João Almeida, and Pedro Rangel Henriques.  
Algebraic specification of documents.  
*TSC: Theoretical Computer Science*, 199, Jun 1998
- RARH98 José Carlos Ramalho, José João Almeida, Jorge Gustavo Rocha, and Pedro Rangel Henriques.  
Sgml documents: Where does quality go?  
*Mark-up Languages: theory and practice*, 1(1), Nov 1998
- BH98 Leonor Barroca and Pedro Rangel Henriques.  
A framework and patterns for the specification of reactive systems.  
*IST: Information and Software Technology*, 1(40):135–142, 1998

#### NATIONAL JOURNALS

- MAH16a Ricardo Martini, Cristiana Araujo, and Pedro Rangel Henriques.  
Uma Ontologia CIDOC-CRM para o Museu Virtual da Emigração.  
*Communications and Innovations Gazette (ComInG)*, 1(1):79–90, 2016
- ABHP15 Javier Azcurra, Mario Berón, Pedro Rangel Henriques, and Maria João Varanda Pereira.  
AID: Una Herramienta para el Analisis de Identificadores en Programas JAVA.  
*RTyC–Revista de Tecnología y Ciencia*, 27:17–32, Nov 2015

#### INTERNATIONAL CONFERENCES

- Ramos:2017a Marcos Ramos, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
A qa system for learning python.  
In M. Ganzha, L. Maciaszek, and M. Paprzycki, editors, *Communication Papers of the 2017 Federated Conference on Computer Science and Information Systems*, volume 13 of *Annals of Computer Science and Information Systems*, pages 157–164. PTI, 2017
- Novais:2017a Daniel José Ferreira Novais, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Program analysis for clustering programmers' profile.  
In M. Ganzha, L. Maciaszek, and M. Paprzycki, editors, *Proceedings of the 2017 Federated Conference on Computer Science and Information Systems*, volume 11 of *Annals of Computer Science and Information Systems*, pages 701–705. IEEE, 2017
- THG2017a Paula Correia Tavares, Pedro Rangel Henriques, and Elsa Ferreira Gomes.  
A Computer Platform to Increase Motivation in Programming Students - PEP.  
In *9th Int. Conference on Computer Supported Education, CSEdu'2017*, pages 284–291, INSTICC, Portugal, April 2017. SCITEPRESS–Science and Technology Publications
- THG2017b Paula Correia Tavares, Pedro Rangel Henriques, and Elsa Ferreira Gomes.  
Motivação e Aprendizagem no Ensino da Programação Ú Sistema PEP, Técnicas para aumentar o envolvimento dos alunos.  
In Álvaro Rocha, Bráulio Alturas, Carlos Costa, Luís Paulo Reis, and Manuel Pérez Cota, editors, *Atas da 12ª Conferência Ibérica de Sistemas e Tecnologias de Informação, CISTI'2017*, pages 216–221. AISTI–Associação Ibérica de Sistemas e Tecnologias de Informação, June 2017
- Araujo:2017a Cristiana Araújo, P. R. Henriques, and R. G. Martini.  
Automatizing ontology population to drive the navigation on virtual learning spaces.  
In *2017 12th Iberian Conference on Information Systems and Technologies (CISTI)*, pages 1–6. IEEE Xplore Digital Library, June 2017
- Malheiro:2017a T. Malheiro, P. R. Henriques, and A. L. Gançarski.  
Sistema de safe-return-home em tempo real para Portugal continental.  
In *12th Iberian Conference on Information Systems and Technologies (CISTI)*, pages 1–6. IEEE Xplore Digital Library, June 2017
- Barros:2017a Patricia Barros, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Applying Attribute Grammars to teach Linguistic Rules.  
In Ricardo Queiroz, Alberto Simões, and José Paulo Leal, editors, *6th Symposium on Languages, Applications and Technologies (SLATE'17)*, OpenAccess Series in Informatics (OASlcs), pages 1:1–1:14, Dagstuhl, Germany, 2017. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- Caldas:2017a Jorge Daniel Caldas, Alda Lopes Gançarski, and Pedro Rangel Henriques.  
Socii: a tool to analyze and visualize dynamic Social Networks.  
In Ricardo Queiroz, Alberto Simões, and José Paulo Leal, editors, *6th Symposium on Languages, Applications and Technologies (SLATE'17)*, OpenAccess Series in Informatics (OASlcs), pages 15:1–15:7, Dagstuhl, Germany, 2017. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- Lara:2017a André Lara, Pedro Rangel Henriques, and Alda Lopes Gançarski.  
Visualization of Ontology Evolution using OntoDiffGraph.  
In Ricardo Queiroz, Alberto Simões, and José Paulo Leal, editors, *6th Symposium on Languages, Applications and Technologies (SLATE'17)*, OpenAccess Series in Informatics (OASlcs), pages 14:1–14:8, Dagstuhl, Germany, 2017. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- NPH2016a Daniel Ferreira Novais, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Profile Detection Through Source Code Static Analysis.  
In Marjan Mernik, José Paulo Leal, and Hugo Gonçalo Oliveira, editors, *5th Symposium on Languages, Applications and Technologies (SLATE'16)*, volume 51 of *OpenAccess Series in Informatics (OASlcs)*, pages 1–13, Dagstuhl, Germany, 2016. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik

- Araujo:2016a      Cristiana Araújo, Ricardo G. Martini, Pedro Rangel Henriques, and José João Almeida.  
Architectural Approaches to build The Museum of the Person.  
In Álvaro Rocha, Luís Paulo Reis, Manuel Pérez Cota, Octavio Santana Suárez, and Ramiro Gonçalves, editors, *Sistemas y Tecnologías de Información — Atas da 11<sup>a</sup> Conferência Ibérica de Sistemas e Tecnologias de Informação*, volume Vol. I – Artículos de la Conferencia, pages 383–388. AISTI–Associação Ibérica de Sistemas e Tecnologias de Informação, June 2016
- TGHP2016      Paula Correia Tavares, Elsa Ferreira Gomes, Pedro Rangel Henriques, and Maria Joao Varanda Pereira.  
Técnicas para aumentar o envolvimento dos alunos na aprendizagem da Programação.  
In Luisa Miranda, Paulo Alves, and Carlos Morais, editors, *VII Congresso Mundial de Estilos de Aprendizagem, CMEA'2016, Livro de Atas*, pages 1565–1577, Bragança, Portugal, July 2016. Instituto Politecnico de Bragança
- THG2016a      Paula Correia Tavares, Pedro Rangel Henriques, and Elsa Ferreira Gomes.  
Computer-supported Techniques to increase Students Engagement in Programming.  
In *8th Int. Conference on Computer Supported Education, CSEdu'2016*, pages 167–174, INSTICC, Portugal, April 2016. SCITEPRESS–Science and Technology Publications
- MHC2015      Vítor T. Martins, Pedro Rangel Henriques, and Daniela da Cruz.  
An AST-based tool, Spector, for Plagiarism Detection: the approach, functionality, and implementation.  
In José-Luis Sierra-Rodriguez, José Paulo Leal, and Alberto Simões, editors, *Proceedings of the 2015 Symposium on Languages, Applications and Technologies, SLATE'15*, pages 173–178. Fundación General UCM, June 2015
- CHC2015      João Cruz, Pedro Rangel Henriques, and Daniela da Cruz.  
Assessing Attribute Grammars' Quality: metrics and a tool.  
In José-Luis Sierra-Rodriguez, José Paulo Leal, and Alberto Simões, editors, *Proceedings of the 2015 Symposium on Languages, Applications and Technologies, SLATE'15*, pages 219–224. Fundación General UCM, June 2015
- DGH2015      Sérgio Maia Dias, Alda Gançski, and Pedro Rangel Henriques.  
Automatic Generation of CVs from online Social Networks.  
In José-Luis Sierra-Rodriguez, José Paulo Leal, and Alberto Simões, editors, *Proceedings of the 2015 Symposium on Languages, Applications and Technologies, SLATE'15*, pages 23–28. Fundación General UCM, June 2015
- THG2015a      Paula Correia Tavares, Pedro Rangel Henriques, and Elsa Ferreira Gomes.  
Animation and Automatic Evaluation to support Programming Teaching.  
In *7th Int. Conference on Computer Supported Education, CSEdu'2015, Doctoral Consortium*, pages 28–32, INSTICC, Portugal, May 2015. SCITEPRESS–Science and Technology Publications
- THG2015b      Paula Correia Tavares, Pedro Rangel Henriques, and Elsa Ferreira Gomes.  
Animation and Automatic Evaluation to support Programming Teaching.  
In Álvaro Rocha, Arnaldo Martins, Gonçalo Paiva Dias, Luís Paulo Reis, and Universidad de Vigo Manuel Pérez Cota, editors, *Atas da 10<sup>a</sup> Conferência Ibérica de Sistemas e Tecnologias de Informação, Vol. II Artigos Curtos, Artigos Poster, Simpósio Doutoral*, pages 316–319. AISTI–Associação Ibérica de Sistemas e Tecnologias de Informação, June 2015
- MHL2015a      Ricardo Martini, Pedro Rangel Henriques, and Giovani Libreloto.  
Storing Archival Emigration Documents to Create Virtual Exhibition Rooms.  
In Alvaro Rocha, Ana Maria Correia, Sandra Costanzo, and Luis Paulo Reis, editors, *New Contributions in Information Systems and Technologies*, volume 353 of *Advances in Intelligent Systems and Computing*, pages 403–409. Springer International Publishing, April 2015
- RCHS2014      Daniel Rodriguez-Cerezo, Pedro Rangel Henriques, and José-Luis Sierra.  
Attribute Grammars made easier: EvDebugger – A visual debugger for attribute grammars.  
In José Luis Sierra Rodríguez, Juan Manuel Dodero Beardo, and Daniel Burgos, editors, *Actas del XVI Simposio Internacional de Informática Educativa (SIIE'14): Acceso masivo y universal para un aprendizaje a lo largo de la vida*, pages 45–50, La Rioja, Spain, Nov 2014. Universidad Internacional de La Rioja (UNIR).  
to be published in the SIIE'14 - IEEE Xplore Postproceedings



- CAVH14a Nuno Ramos Carvalho, José João Almeida, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Conclave: Ontology-driven measurement of semantic relatedness between source code elements and problem domain concepts.  
*Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 8584 LNCS(PART 6):116–131, 2014
- FBOCGH14a Daniela Fonte, Ismael Vilas Boas, Nuno Oliveira, Daniela da Cruz, Alda Lopes Gançarski, and Pedro Rangel Henriques.  
Partial Correctness and Continuous Integration in Computer Supported Education.  
In Susan Zvacek, Maria Teresa Restivo, James Uhomobhi, and Markus Helfert, editors, *CSEdu 2014 — Proceedings of the 6th International Conference on Computer Supported Education*, volume 2, pages 205–212. SCITEPRESS — Science and Technology Publications, April 2014.  
RepositoriUM: <http://hdl.handle.net/1822/29081>
- pereira:14:4558 Nuno Pereira, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Comment-based Concept Location over System Dependency Graphs.  
In Maria João Varanda Pereira, José Paulo Leal, and Alberto Simões, editors, *3rd Symposium on Languages, Applications and Technologies*, volume 38 of *OpenAccess Series in Informatics (OASlcs)*, pages 51–58, Dagstuhl, Germany, 2014. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- carvalho:14:4563 Pedro Carvalho, Nuno Oliveira, and Pedro Rangel Henriques.  
Unfuzzifying Fuzzy Parsing.  
In Maria João Varanda Pereira, José Paulo Leal, and Alberto Simões, editors, *3rd Symposium on Languages, Applications and Technologies*, volume 38 of *OpenAccess Series in Informatics (OASlcs)*, pages 101–108, Dagstuhl, Germany, 2014. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- martins:14:4566 Vítor T. Martins, Daniela Fonte, Pedro Rangel Henriques, and Daniela da Cruz.  
Plagiarism Detection: A Tool Survey and Comparison.  
In Maria João Varanda Pereira, José Paulo Leal, and Alberto Simões, editors, *3rd Symposium on Languages, Applications and Technologies*, volume 38 of *OpenAccess Series in Informatics (OASlcs)*, pages 143–158, Dagstuhl, Germany, 2014. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- fonseca:14:4561 João M. Sousa Fonseca, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Converting Ontologies into DSLs.  
In Maria João Varanda Pereira, José Paulo Leal, and Alberto Simões, editors, *3rd Symposium on Languages, Applications and Technologies*, volume 38 of *OpenAccess Series in Informatics (OASlcs)*, pages 85–92, Dagstuhl, Germany, 2014. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- carvalho:14:4556 Nuno Ramos Carvalho, José João Almeida, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Conclave: Writing Programs to Understand Programs.  
In Maria João Varanda Pereira, José Paulo Leal, and Alberto Simões, editors, *3rd Symposium on Languages, Applications and Technologies*, volume 38 of *OpenAccess Series in Informatics (OASlcs)*, pages 19–34, Dagstuhl, Germany, 2014. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik
- CruzHP13 Daniela Carneiro da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
Interactive verification of safety-critical software.  
In *COMPSAC*, pages 519–528, 2013
- BMRHD2013 M. Beron, G. Montejano, D. Riesco, P.R. Henriques, and N. Debnath.  
SIP: A Simple Tool for Inspecting and Evaluating WSDL Specifications.  
*Proceedings of the 10th International Conference on Information Technology: New Generations, ITNG 2013*, pages 14–19, April 2013
- VilasBoas:2013uj Ismael Vilas Boas, Nuno Oliveira, and Pedro Rangel Henriques.  
Agile Development for Education effectiveness improvement.  
In *15.º Simpósio Internacional de Informática Educativa (SIIE)*, pages 299–304, Viseu, Portugal, November 2013

- FCGH13a Daniela Fonte, Daniela da Cruz, Alda Lopes Gançarski, and Pedro Rangel Henriques.  
A Flexible Dynamic System for Automatic Grading of Programming Exercises.  
In José Paulo Leal, Ricardo Rocha, and Alberto Simões, editors, *SLATe'13 — Symposium on Languages, Applications and Technologies*, volume 29, pages 129–144. OASIC – Open Access Series in Informatics, Schloss Dagstuhl ũ Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, June 2013
- POCH13a Maria João Varanda Pereira, Nuno Oliveira, Daniela da Cruz, and Pedro Rangel Henriques.  
Choosing Grammars to support Language Processing Courses.  
In José Paulo Leal, Ricardo Rocha, and Alberto Simões, editors, *SLATe'13 — Symposium on Languages, Applications and Technologies*, volume 29, pages 155–169. OASIC – Open Access Series in Informatics, Schloss Dagstuhl ũ Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, June 2013
- MBMPH13a Enrique Miranda, Mario Berón, German Montejano, Maria João Pereira, and Pedro Rangel Henriques.  
NESSy: a new evaluator for software development tools.  
In José Paulo Leal, Ricardo Rocha, and Alberto Simões, editors, *SLATe'13 — Symposium on Languages, Applications and Technologies*, volume 29, pages 21–38. OASIC – Open Access Series in Informatics, Schloss Dagstuhl ũ Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, June 2013
- FBCGH12a Daniela Fonte, Ismael Vilas Boas, Daniela da Cruz, Alda Lopes Gançarski, and Pedro Rangel Henriques.  
Program analysis and evaluation using quimera.  
In José Cordeiro, Lesvek Maciazek, and Alfredo Cuzzocrea, editors, *ICEIS'2012 — 14th International Conference on Enterprise Information Systems*, pages 209–219. INSTICC – Institute for Systems and Technologies of Information, Control and Communication, June 2012.  
also available from SciTePress Digital Library
- LBH12a Mariano Luzzi, Mario Marcelo Berón, and Pedro Rangel Henriques.  
Ph-helper – a syntax-directed editor for hoshimi programming language, hl.  
In Alberto Simões, Ricardo Queirós, and Daniela da Cruz, editors, *SLATe'12 — Symposium on Languages, Applications and Technologies*, volume 21, pages 71–89. OASIC – Open Access Series in Informatics, Schloss Dagstuhl ũ Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, June 2012
- PBCOH12a Maria João Varanda Pereira, Mario Berón, Daniela da Cruz, Nuno Oliveira, and Pedro Rangel Henriques.  
Problem domain oriented approach for program comprehension.  
In Alberto Simões, Ricardo Queirós, and Daniela da Cruz, editors, *SLATe'12 — Symposium on Languages, Applications and Technologies*, volume 21, pages 92–105. OASIC – Open Access Series in Informatics, Schloss Dagstuhl ũ Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, June 2012
- CAPH12a Nuno Ramos Carvalho, Jose Joao Almeida, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Probabilistic synset based concept location.  
In Alberto Simões, Ricardo Queirós, and Daniela da Cruz, editors, *SLATe'12 — Symposium on Languages, Applications and Technologies*, volume 21, pages 239–253. OASIC – Open Access Series in Informatics, Schloss Dagstuhl ũ Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, June 2012
- CCH12a Ulisses Araújo Costa, Daniela da Cruz, and Pedro Rangel Henriques.  
Automatic test generation for space.  
In Alberto Simões, Ricardo Queirós, and Daniela da Cruz, editors, *SLATe'12 — Symposium on Languages, Applications and Technologies*, volume 21, pages 185–203. OASIC – Open Access Series in Informatics, Schloss Dagstuhl ũ Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, June 2012
- OPGH12a Nuno Oliveira, Maria João Varanda Pereira, Alda Lopes Gancarski, and Pedro Rangel Henriques.  
Learning spaces for knowledge generation.  
In Alberto Simões, Ricardo Queirós, and Daniela da Cruz, editors, *SLATe'12 — Symposium on Languages, Applications and Technologies*, volume 21, pages 175–184. OASIC – Open Access Series in Informatics, Schloss Dagstuhl ũ Leibniz-Zentrum für Informatik, Dagstuhl Publishing, Germany, June 2012

- RCH2011 Miguel Regedor, Daniela da Cruz, and Pedro Rangel Henriques.  
The role of best practices in assessing software quality.  
In Luis Barbosa and Dimitrius Settas (Guest Eds.), editors, *Pre-proceedings of the 5th International Workshop on Foundations and Techniques for Open Source Software Certification (OpenCert 2011) (Satellite Event of SEFM'11)*, volume 20, pages 19–32, Montevideo, Uruguay, Nov 2011
- CHP2010f Daniela da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
Contract-based slicing.  
In Tiziana Margaria and Bernhard Steffen, editors, *Leveraging Applications of Formal Methods, Verification and Validation (ISoLA'2010–FLDVES track) LNCS- Lecture Notes in Computer Science*, volume 6415, pages 106–120, Creta, Greece, Oct 2010. Springer
- CHP2010e Sérgio Areias, Daniela da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
Safe integration of annotated components in open source projects.  
In Luis Barbosa, Antonio Cerone, and Siraj Shaikh (Guest Eds.), editors, *Pre-proceedings of the 4th International Workshop on Foundations and Techniques for Open Source Software Certification (OpenCert 2010) (Satellite Event of SEFM'10)*, pages 69–75, Pisa, Italy, Sept 2010. (UNU-IIST Report No. 439) United Nations University–International Institute for Software Technology)
- CHP2010d Daniela da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
A tool to verify, slice and animate annotated components: Gamaslicer (tool-demo).  
In *SEFM'10, Software Engineering and Formal Methods, Posters and Tool Demo Proceedings*, pages 20–23, Area della Ricerca CNR di Pisa, Via Moruzzi-1, Pisa, Italy, Sept 2010. Consiglio Nazionale delle Ricerche (CNR)
- CHP2010c Daniela da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
Contract-based slicing.  
In *FLACOS'10 — Fourth Workshop on Formal Languages and Analysis of Contract-Oriented Software (co-located with SEFM'10)*, Pisa, Italy, Sept 2010
- CHP2010b José Bernardo Barros, Daniela da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
Assertion-based slicing and slice graphs.  
In *SEFM'10 — 8th IEEE International Conference on Software Engineering and Formal Methods*, pages 93–102, Washington, DC, USA, Sept 2010. IEEE Computer Society, Conference Publishing Services (CPS)
- CHP2010a Daniela da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
Gamaslicer: an online laboratory for program verification and analysis.  
In *Proceedings of the Tenth Workshop on Language Descriptions, Tools and Applications, LDTA '10*, pages 3:1–3:8, New York, NY, USA, 2010. ACM
- CH2010a Daniela da Cruz and Pedro Rangel Henriques.  
Exploring, visualizing and slicing the soul of XML documents.  
In *Proceedings of 25th Symposium On Applied Computing - Document Engineering (SAC-DE)*, 2010
- ORHB10a Nuno Oliveira, Nuno Rodrigues, Pedro Rangel Henriques, and Luís Soares Barbosa.  
Pattern language for architectural analysis.  
In *SBLP 2010 14th Brazilian Symposium in Programming Languages*, volume 2, pages 167–180, Salvador, Brasil, Sep 2010. SBC: Brazilian Computer Society (ISSN: 2175-5922)
- LVOCH10a Ivan Lukovic, Maria João Varanda Pereira, Nuno Oliveira, Daniela da Cruz, and Pedro Rangel Henriques.  
An attribute grammar specification of iis\*case pim concepts.  
In Mirjana Ivanovic, Bernhard Thalheim, Barbara Catania, and Zoran Budimac, editors, *Local Proceedings of the Fourteenth East-European Conference on Advances in Databases and Information Systems (ADBIS2010) – Model Driven Approaches in System Development (MDASD) Workshop – Novi Sad, Serbia*, pages 110–124. CEUR-Workshop Proceedings (<http://ceur-ws.org>), ISSN: 1613-0073, Sep 2010
- BUHV10a Mario Berón, Roberto Uzal, Pedro Rangel Henriques, and Maria João Varanda Pereira.  
Estrategias para facilitar la comprensión de programas.  
In RedUNCI UNLPaSJB, editor, *XII Workshop de Investigadores en Ciencias de la Computación (WICC 2010), Calafate, provincia de Santa Cruz, Argentina*. Universidad Nacional de la Patagonia San Juan Bosco, May 2010

- OPCH09a Nuno Oliveira, Maria João Varanda Pereira, Daniela da Cruz, and Pedro Rangel Henriques. Visualization of domain-specific programs' behavior. In *Proceedings of VISSOFT'09 — 5th IEEE International Workshop on Visualizing Software for Understanding and Analysis, Edmonton, Canada*, pages 37 — 40. IEEE Computer Society, Sept 2009
- oliveira09b Nuno Oliveira, Pedro Rangel Henriques, Daniela da Cruz, Maria João Varanda Pereira, Marjan Mernik, Tomaz Kosar, and Matej Crepinsek. Applying program comprehension techniques to karel robot programs. In *Proceedings of the International Multiconference on Computer Science and Information Technology – 2nd Workshop on Advances in Programming Languages (WAPL'2009)*, pages 697 — 704, Mragowo, Poland, October 2009. IEEE Computer Society Press
- oliveira09c Nuno Oliveira, , Pedro Rangel Henriques, Daniela da Cruz, and Maria João Varanda Pereira. Visuallisa: Visual programming environment for attribute grammars specification. In *Proceedings of the International Multiconference on Computer Science and Information Technology – 2nd Workshop on Advances in Programming Languages (WAPL'2009)*, pages 689 — 696, Mragowo, Poland, October 2009. IEEE Computer Society Press
- kosar09 Tomaz Kosar, Marjan Mernik, Matej Crepinsek, Pedro Rangel Henriques, Daniela da Cruz, Maria João Varanda Pereira, and Nuno Oliveira. Influence of domain-specific notation to program understanding. In *Proceedings of the International Multiconference on Computer Science and Information Technology – 2nd Workshop on Advances in Programming Languages (WAPL'2009)*, pages 673 — 680, Mragowo, Poland, October 2009. IEEE Computer Society Press
- BHVU09 Mario Béron, Pedro Rangel Henriques, Maria João Varanda Pereira, and Roberto Uzal. Instrumentaciones de programas escritos en c para interrelacionar las vistas comportamental y operacional de los sistemas de software. In Argentina Universidad Nacional de Jujuy, editor, *CACIC'09 - XV Argentine Congress on Computer Science*, Oct 2009
- CHP09a Daniela da Cruz, Pedro Henriques, and Jorge Sousa Pinto. Code analysis: Past and present. In Luis Barbosa, Antonio Cerone, and Siraj Shaikh (Guest Eds.), editors, *Proceedings of the Third Int. Workshop on Foundations and Techniques for Open Source Software Certification (OpenCert 2009)*, volume X (2009). Electronic Communications of the EASST, March 2009. ISSN: 1863-2122
- CH09d Daniela da Cruz and Pedro Henriques. Assessing databases in .net: comparing approaches. In *ICEIS — 11th International Conference on Enterprise Information Systems*, Milan, Italy, May 2009
- CHP08i Daniela da Cruz, Pedro Rangel Henriques, and Maria João Varanda Pereira. Strategies for program inspection and visualization. In *CSE — International Scientific Conference on Computer Science and Engineering, High Tatras - Stará Lesná, Slovakia*, September 2008
- FCHV08 Ruben Fonseca, Daniela da Cruz, Pedro Henriques, and Maria João Varanda Pereira. How to interconnect operational and behavioral views of web applications. In IEEE, editor, *ICPC'08 - 16th International Conference on Program Comprehension*. Amsterdam, Holanda, June 2008
- BHVU08 Mario Béron, Pedro Rangel Henriques, Maria João Varanda, and Roberto Uzal. Simplificando la comprensión de programas a través de la interconexión de dominios. In Argentina Universidad Nacional de Chilecito, La Rioja, editor, *CACIC'08 - XIV Argentine Congress on Computer Science, Universidad Nacional de San Luis, Argentina*, Oct 2008
- BUHV08 Mario Berón, Roberto Uzal, Pedro Rangel Henriques, and Maria João Varanda Pereira. Inspección de código para relacionar los dominios del problema y programa para la comprensión de programas. In RedUNCI UNLPam, editor, *X Workshop de Investigadores en Ciencias de la Computación (WICC 2008), La Pampa, Argentina*. Facultad de Ingeniería de la Universidad Nacional de la Pampa, May 2008

- LRHGT08      Giovani Rubert Librelotto, José Carlos Ramalho, Pedro Rangel Henriques, Jonas Bulegon Gassen, and Rogério Corrêa Turchetti.  
A framework to specify, extract and manage topic maps driven by ontologie.  
In *SIGDPC'08 – 26th ACM International Conference on Design of Communication*, Lisboa, Portugal, Sep 2008
- GFH08      Alda Lopes Gançarski, Pedro Rangel Henriques, and Flávio Xavier Ferreira.  
Iterative xml search based on data and associated semantics.  
In José Cordeiro and Joaquim Filipe, editors, *ICEIS(1) - Proceedings of the Tenth International Conference on Enterprise Information Systems, Volume DISI, ICEIS'2008*, pages 479–484, Barcelona, Spain, June 2008
- CPH07f      Daniela da Cruz, Maria João Varanda Pereira, and Pedro Rangel Henriques.  
Pattern-based Program Visualization.  
In *1st Workshop on Advances in Programming Languages, WAPL'07 — a satellite event of International Multiconference on Computer Science and Information Technology, IMCSIT'07*, Wisla, Polónia, Oct 2007
- CH07g      Daniela da Cruz and Pedro Rangel Henriques.  
Slicing wxhaskell modules to derive the user interface abstract model (short paper and poster).  
In *1st Workshop on Applications of Programming Languages, WAPL'07 — a satellite event of International Multiconference on Computer Science and Information Technology, IMCSIT'07*, Wisla, Poland, October 2007
- CH07h      Daniela da Cruz and Pedro Rangel Henriques.  
XLS — XTDL laboratory site (poster).  
In *Extreme Markup Languages'07, Montreal, Canada*, August 2007
- LPRH07      Giovani Rubert Librelotto, Renato Preigschadt de Azevedo, José Carlos Ramalho, and Pedro Rangel Henriques.  
Navegando na rede semântica dos topic maps com o ulisses.  
In *XATA 2007 - XML: Aplicações e Tecnologias Associadas (5ª Conferência Nacional)*, Lisboa - Portugal, Feb 2007
- GH07a      Alda Gançarski and Pedro Rangel Henriques.  
Using data together with metadata to improve XML information access.  
In *Proceedings of the Int. Conference on Web Information Systems and Technologies (WE-BIST07 - Barcelona, Spain)*, Mar 2007
- GH07b      Alda Gançarski and Pedro Rangel Henriques.  
Analyzing the structure of scientific articles to improve information retrieval.  
In Pedro Isaias and Nuno Mamede, editors, *Proceedings of the Int. IADIS Conference on Applied Computing 2007 (IADIS AC07 - Salamanca, Spain)*, Feb 2007
- BHVU06a      Mario Béron, Pedro Rangel Henriques, Maria João Varanda, and Roberto Uzal.  
Herramientas para la comprensión de programas.  
In *VIII Workshop de Investigadores en Ciencias de la Computación (WICC 2006)*, Universidad de Morón, Bs. As., Argentina, 2006
- BHVU06b      Mario Béron, Pedro Rangel Henriques, Maria João Varanda, and Roberto Uzal.  
Comprensión de algoritmos de ruteo.  
In *XXXII Conferencia Latinoamericana de Informática (CLEI 2006)*, Santiago de Chile, 2006
- BHVUM06      Mario Béron, Pedro Rangel Henriques, Maria João Varanda, Roberto Uzal, and G. Montejano.  
A language processing tool for program comprehension.  
In Argentina Universidad Nacional de San Luis, editor, *CACIC'06 - XII Argentine Congress on Computer Science*, Oct 2006
- RMHVC06      Damijan Rebernak, Marjan Mernik, Pedro Rangel Henriques, Maria João Varanda Pereira, and Daniela Cruz.  
Specifying languages using aspect-oriented approach: Aspectlisa.  
In *ITI'06 - 28th International Conference on Information Technology Interfaces, Croacia*. IEEE, June 2006
- HKMVZ03      Pedro Henriques, Tomaz Kosar, Marjan Mernik, Maria João Varanda, and Viljem Zumer.  
Grammatical approach to problem solving.  
In *ITI'03 - 25th International Conference on Information Technology Interfaces, Croacia*. IEEE, June 2003

- VH03 M. J. Varanda and P. Henriques.  
Visualization / animation of programs in alma: obtaining different results.  
In *VMSE2003 - Symposium on Visual and Multimedia Software Engineering (HCC'03), New Zealand*. IEEE, October 2003
- VH02 Pedro Rangel Henriques, Maria João Varanda Pereira, Marjan Mernik, Mitja Lenic, Enis Avdi-causevic, and Viljem Zumer.  
Automatic Generation of Language-based Tools.  
*Electr. Notes Theor. Comput. Sci.*, 65(3):77–96, 2002
- VH01 M. J. Varanda and Pedro Rangel Henriques.  
Visualization / Animation of Programs based on Abstract Representations and Formal Mappings.  
In *HCC'01 - 2001 IEEE Symposia on Human-Centric Computing Languages and Environments*. IEEE, September 2001
- AH98 J.J. Almeida and P.R. Henriques.  
Dynamic dictionary = cooperative information sources.  
In *Proc. II Conference on Knowledge-based Intelligent Electronic Systems (Kes98)*, Adelaide–Australia, April 1998
- Hen89a Pedro Rangel Henriques.  
A semantic evaluator generating system in prolog.  
In *Proceedings of the 1st Int. Workshop on Programming Language Implementation and Logic Programming (PLILP'88)*, number LNCS-348, pages 201–218, London, UK, 1989. Springer-Verlag

#### NATIONAL CONFERENCES

- FCH11a José Luís Freitas, Daniela da Cruz, and Pedro Rangel Henriques.  
The role of Comments on Program Comprehension.  
In Luis Caires and Raul Barbosa, editors, *INForum'11 — Simpósio de Informática (CoRTA'11 track)*, Coimbra, Portugal, September 2011. Universidade de Coimbra
- ASHC11a Hugo Areias, Alberto Simões, Pedro Rangel Henriques, and Daniela da Cruz.  
Parser Generation in Perl: Crafting an AnTLR Back-end.  
In Luis Caires and Raul Barbosa, editors, *INForum'11 — Simpósio de Informática (CoRTA'11 track)*, Coimbra, Portugal, September 2011. Universidade de Coimbra
- CSAHV11a Nuno Carvalho, Alberto Simões, Jose Joao Almeida, Pedro Rangel Henriques, and Maria João Varanda Pereira.  
PFTL: A systematic approach for describing filesystem tree processors.  
In Luis Caires and Raul Barbosa, editors, *INForum'11 — Simpósio de Informática (CoRTA'11 track)*, Coimbra, Portugal, September 2011. Universidade de Coimbra
- CCKMHVCO11a Ines Ceh, Matej Crepinsek, Tomaz Kosar, Marjan Mernik, Pedro Rangel Henriques, Maria João Varanda Pereira, Daniela da Cruz, and Nuno Oliveira.  
Tool supported building of DSLs from OWL ontologies.  
In Luis Caires and Raul Barbosa, editors, *INForum'11 — Simpósio de Informática (CoRTA'11 track)*, Coimbra, Portugal, September 2011. Universidade de Coimbra
- CCH11a Márcio Coelho, Daniela da Cruz, and Pedro Rangel Henriques.  
A Visual Inspector for Boogie programs.  
In Luis Caires and Raul Barbosa, editors, *INForum'11 — Simpósio de Informática (CoRTA'11 track)*, Coimbra, Portugal, September 2011. Universidade de Coimbra
- FCGH10a Daniela Fonte, Daniela da Cruz, Alda Lopes Gançarski, and Pedro Rangel Henriques.  
Gui for XML documents access using query-by-example paradigm.  
In *Interação'10 — Actas da 4ª Conferência Nacional em Interação Humano-Computador*, pages 89–93, Aveiro, Portugal, Oct 2010. Grupo Português de Computação Gráfica (Eurographics Portuguese Chapter)
- FCCGH10a Daniela Fonte, Pedro Carvalho, Daniela da Cruz, Alda Lopes Gançarski, and Pedro Rangel Henriques.  
XML archive for testing: a benchmark for GuessXQ.  
In *XATA'10 — XML : Aplicações e Tecnologias Associadas*, pages 127 – 138, Vila do Conde, Portugal, May 2010. ESEI - IPP

- ORH10a Nuno Oliveira, Nuno Rodrigues, and Pedro Rangel Henriques.  
Domain-specific language for coordination patterns.  
In Luis S. Barbosa and Miguel P. Correia, editors, *INForum'10 — Simpósio de Informática (CoRTA'10 track)*, pages 125 — 136, Braga, Portugal, September 2010. Universidade do Minho
- CHP10g Sérgio Areias, Daniela da Cruz, Pedro Rangel Henriques, and Jorge Sousa Pinto.  
Gammapolarslicer, a contract-based tool to help on reuse.  
In Luis S. Barbosa and Miguel P. Correia, editors, *INForum'10 — Simpósio de Informática (CoRTA'10 track)*, pages 137–148, Braga, Portugal, September 2010. Universidade do Minho
- alsCH10a MI-students, Daniela da Cruz, and Pedro Rangel Henriques.  
Agile - a structured-editor, analyzer, metric-evaluator and transformer for attribute grammars.  
In Luis S. Barbosa and Miguel P. Correia, editors, *INForum'10 — Simpósio de Informática (CoRTA'10 track)*, pages 197–200, Braga, Portugal, September 2010. Universidade do Minho
- ASHC10a Hugo Areias, Alberto Simões, Pedro Rangel Henriques, and Daniela da Cruz.  
Parser generation in perl - an overview and available tools.  
In Luis S. Barbosa and Miguel P. Correia, editors, *INForum'10 — Simpósio de Informática (CoRTA'10 track)*, pages 209–212, Braga, Portugal, September 2010. Universidade do Minho
- LCPHea10a Giovanni Rubert Librelotto, Heleno C. B. Cabral, Rafael T. Pereira, Pedro Rangel Henriques, Marialva Sinigaglia, Mauro A. A. Castro, Eder Simão, and José Carlos Merino Mombach.  
Uma integração de dados sobre vias metabólicas relativas ao câncer: a ontologia ontocancro.  
In *CAPSI'10 – 12 Conferência da Associação Portuguesa de Sistemas de Informação*, V.Castelo, Portugal, Oct 2010
- OHCP09 Nuno Oliveira, Pedro Rangel Henriques, Daniela da Cruz, and Maria João Varanda Pereira.  
Xagra - an XML dialect for attribute grammars.  
In *INForum'09 — Simpósio de Informática*, pages 409 — 420, Lisboa, Portugal, September 2009. Faculdade de Ciências da Universidade de Lisboa
- OPHC09a Nuno Oliveira, Maria João Varanda Pereira, Pedro Rangel Henriques, and Daniela da Cruz.  
Domain specific languages: A theoretical survey.  
In *INForum'09 — Simpósio de Informática*, pages 35 — 46, Lisboa, Portugal, September 2009. Faculdade de Ciências da Universidade de Lisboa
- OPHCC09 Nuno Oliveira, Maria João Varanda Pereira, Pedro Rangel Henriques, Daniela da Cruz, and Bastian Cramer.  
VisualLISA: A domain specific visual language for attribute grammars.  
In *INForum'09 — Simpósio de Informática*, pages 155 — 167, Lisboa, Portugal, September 2009. Faculdade de Ciências da Universidade de Lisboa
- MKCHCPO09 Marjan Mernik, Tomaz Kosar, Matej Crepinsek, Pedro Rangel Henriques, Daniela da Cruz, Maria João Varanda Pereira, and Nuno Oliveira.  
Comparison of xaml and c# forms using cognitive dimensions framework.  
In *INForum'09 — Simpósio de Informática*, pages 180 — 191, Lisboa, Portugal, September 2009. Faculdade de Ciências da Universidade de Lisboa
- FCHGD09b Daniela da Cruz, Flávio Xavier Ferreira, Pedro Rangel Henriques, Alda Lopes Gançarski, and Bruno Defude.  
GuessXQ, an inference web-engine for querying XML documents.  
In *INForum'09 — Simpósio de Informática*, pages 322 – 325, Lisboa, Portugal, September 2009. Faculdade de Ciências da Universidade de Lisboa
- FCHGD09a Flávio Xavier Ferreira, Daniela da Cruz, Pedro Rangel Henriques, Alda Lopes Gançarski, and Bruno Defude.  
A query-by-example approach for XML querying.  
In Álvaro Rocha, Francisco Restivo, Luís Paulo Reis, and Sofia Torrão, editors, *CISTI'09 — 4ª Conferência Ibérica em Sistemas e Tecnologias da Informação (WSIAI'09 – Workshop em Sistemas Inteligentes e Aplicações)*, pages 611–614, Póvoa do Varzim, Portugal, Jun 2009
- LPH09a Giovanni Rubert Librelotto, Rafael Teodósio Pereira, and Pedro Rangel Henriques.  
Uma metodologia para consultas aos bancos de dados do ncbi.  
In Álvaro Rocha, Francisco Restivo, Luís Paulo Reis, and Sofia Torrão, editors, *CISTI'09 — 4ª Conferência Ibérica em Sistemas e Tecnologias da Informação*, pages 103–108, Póvoa do Varzim, Portugal, Jun 2009

- ORH09a Paulo Jorge Oliveria, Maria de Fátima Rodrigues, and Pedro Rangel Henriques.  
Smartclean: uma ferramenta para a limpeza incremental de dados.  
In Álvaro Rocha, Francisco Restivo, Luís Paulo Reis, and Sofia Torrão, editors, *CISTI'09 — 4ª Conferência Ibérica em Sistemas e Tecnologias da Informação (WSIAI'09 – Workshop em Sistemas Inteligentes e Aplicações)*, pages 621–626, Póvoa do Varzim, Portugal, Jun 2009
- PMCH08e Maria João Varanda Pereira, Marjan Mernik, Daniela da Cruz, and Pedro Rangel Henriques.  
VisuALLISA: a visual interface for an attribute grammar based compiler-compiler (short paper).  
In *CoRTA'08 — Compilers, Related Technologies and Applications, Bragança, Portugal*, July 2008
- CPH08c Daniela da Cruz, Jorge Sousa Pinto, and Pedro Rangel Henriques.  
Properties preservation during transformation (short paper).  
In *CoRTA'08 — Compilers, Related Technologies and Applications, Bragança, Portugal*, July 2008
- CHP08a Daniela da Cruz, Pedro Rangel Henriques, and Maria João Varanda Pereira.  
Exploring and visualizing the "alma" of XML documents.  
In *XATA08 — XML : Aplicações e Tecnologias Associadas, Évora, Portugal*, February 2008
- FH08 Flávio Xavier Ferreira and Pedro Rangel Henriques.  
Using owl to specify and build different views over the emigration museum resources.  
In *XATA08 — XML : Aplicações e Tecnologias Associadas, Évora, Portugal*, February 2008
- BCVHU08 Mario Béron, Daniela da Cruz, Maria João Varanda, Pedro Rangel Henriques, and Roberto Uzal.  
Evaluation criteria of software visualization systems used for program comprehension.  
In Universidade de Évora, editor, *Interação'08 – 3ª Conferência Interação Pessoa-Máquina*, Oct 2008
- FGH08 Flávio Xavier Ferreira, Alda Lopes Gançarski, and Pedro Rangel Henriques.  
Information access from XML using semantics and context: application to the portuguese emigration museum.  
In *CAPSI'08 – 8ª Conferência da Associação Portuguesa de Sistemas de Informação*, Setubal, Portugal, Oct 2008
- LGFSSAH08 Giovanni Rubert Librelotto, Jonas Bulegon Gassen, Leandro O. Freitas, Matheus C. Silveira, Fábio L. Silva, Iara Augustin, and Pedro Rangel Henriques.  
Uma ontologia aplicada a um ambiente pervasivo hospitalar.  
In *CAPSI'08 – 8ª Conferência da Associação Portuguesa de Sistemas de Informação*, Setubal, Portugal, Oct 2008
- LMMVRH08 Giovanni Rubert Librelotto, Mirkos Martins, Henrique Machado, Juliana Vizzotto, José Carlos Ramalho, and Pedro Rangel Henriques.  
Generating a semantic network for pubmed.  
In *XATA08 — XML : Aplicações e Tecnologias Associadas, Évora, Portugal*, February 2008
- CFPBH07d Daniela da Cruz, Rúben Fonseca, Maria João Varanda Pereira, Mário Béron, and Pedro Rangel Henriques.  
Comparing generators for language-based tools.  
In *CoRTA-07 - Compiler Related Technologies and Applications, Covilhã, Portugal*, July 2007
- CH07d Daniela da Cruz and Pedro Rangel Henriques.  
Liss — the language and the compiler.  
In *Proceedings of the 1.st Conference on Compiler Related Technologies and Applications, CoRTA'07 — Universidade da Beira Interior, Portugal*, Jul 2007
- CLH07c Daniela da Cruz, Sandra Cristina Lopes, and Pedro Rangel Henriques.  
Como ensinar com mapas de conceitos: duas abordagens complementares.  
In *Challenges'07, Universidade do Minho — Braga, Portugal*, Mai 2007
- CH07a Daniela da Cruz and Pedro Rangel Henriques.  
XTDL - XML Tool Definition Language.  
In *XML: Aplicações e Tecnologias Associadas, XATA'07, Lisboa, Portugal*, February 2007
- LPRH07 Giovanni Rubert Librelotto, Renato Preigschadt de Azevedo, José Carlos Ramalho, and Pedro Rangel Henriques.  
Navegando na rede semântica dos topic maps com o ulisses.  
In *XATA 2007 - XML: Aplicações e Tecnologias Associadas (5ª Conferência Nacional)*, Lisboa - Portugal, Feb 2007



- BHV06 Mario Béron, Pedro Rangel Henriques, and Maria João Varanda.  
A system for evaluate and understand routing algorithms.  
In *Interação'06, Universidade do Minho, 2006*
- OHV06 Eva Oliveira, Pedro Rangel Henriques, and Maria João Varanda.  
Proposta de um sistema para compreensão de aplicações web.  
In *CAPSI06 - Conferência da Associação Portuguesa de Sistemas de Informação, Univ. Aveiro, January 2007*
- OVH05 Eva Oliveira, Maria João Varanda, and Pedro Rangel Henriques.  
Compreensão de aplicações web: O processo e as ferramentas.  
In *CAPSI05 - Conferência da Associação Portuguesa de Sistemas de Informação, ESTIG Bragança, October 2005*

#### TECHNICAL REPORTS

- FGCH2010a Daniela Fonte, Alda Lopes Gançarski, Daniela da Cruz, and Pedro Rangel Henriques.  
GuessXQ, a query-by-example approach for XML querying.  
Technical report, CCTC, Univeristy of Minho, December 2010
- CCH2010a Pedro Carvalho, Daniela da Cruz, and Pedro Rangel Henriques.  
eXVisXML – Exploring, Visualizing and Slicing the Soul of XML Documents.  
Technical report, CCTC, Univeristy of Minho, December 2010
- FVOH2010a Pedro Faria, M. João Varanda Pereira, Nuno Oliveira, and Pedro Rangel Henriques.  
Visual Languages – comparative study of generators.  
Technical report, CCTC, Univeristy of Minho, December 2010

#### 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.