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RESEARCHGATE: [https://www.researchgate.net/profile/Miguel\\_Goulao](https://www.researchgate.net/profile/Miguel_Goulao)

Born: June 20, 1972—Lisboa, Portugal

Nationality: Portuguese

## Current position

*Assistant Professor*, Departamento de Informática, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa

*Integrated Member*, NOVA Laboratory for Computer Science and Informatics (NOVA LINCS)

## Areas of specialization

Experimental Software Engineering • Software Quality • Software Languages Evaluation • Software Evolution • Requirements Engineering

## Appointments held

- |           |   |
|-----------|---|
| 2008-...  | <i>Assistant Professor</i> , Departamento de Informática, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa |
| 1999-2008 | <i>Teaching Assistant</i> , Departamento de Informática, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa  |
| 1996-1998 | <i>Invited Teaching Assistant</i> , Instituto Superior de Economia e Gestão, Universidade Técnica de Lisboa               |

## Education

- 2008 PHD in Informatics with the thesis: “Component-Based Software Engineering: a Quantitative Approach”, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal.
- 1999 MSc in Electrotechnic and Computers Engineering, with the thesis: “Evolução de Sistemas de Software: uma Abordagem Quantitativa”, Instituto Superior Técnico, Universidade Técnica de Lisboa, Portugal.
- 1995 LICENCIATURA in Informatics and Computers Engineering at Instituto Superior Técnico, Lisboa, Universidade Técnica de Lisboa, Portugal.

## Grants, honors & awards

- 2014 Best Paper Award in CAiSE 2014, as a co-author of [Gralha et al. \(2014\)](#).
- 1999 János Szentcsanak Award for the best paper on software metrics presented at the 6th European Conference on Software Quality (1999), as a co-author of [Monteiro et al. \(1999b\)](#).

## Publications & talks

### EDITED PROCEEDINGS AND SPECIAL ISSUES

- 2016 Störrle, H., Chaudron, M. R., Amaral, V., and Goulão, M., editors (2016). *Second International Workshop on Human Factors in Modeling (HuFaMo 2015)*, Saint Malo, France. CEUR-Workshop Proceedings. <http://ceur-ws.org/Vol-1805/>
- Paulk, M., Machado, R. J., Brito, M. A., Amaral, V., and Goulão, M., editors (2016). *10th International Conference on the Quality of Information and Communications Technology (QUATIC 2016)*. IEEE. <http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7811933>
- Araújo, J., Fernandez, N. C., Bencomo, N., Oliveira, T., de La Vara, J. L., Brito, I., Goulão, M., and Matalonga, S. (2016). Special Section on the 18th Ibero-American Conference on Software Engineering (CIBSE'15). *Journal of Object Technology*, 15(3). [http://www.jot.fm/contents/issue\\_2016\\_03/cibse.html](http://www.jot.fm/contents/issue_2016_03/cibse.html)
- 2015 Störrle, H., Chaudron, M. R., Amaral, V., and Goulão, M., editors (2015). *First International Workshop on Human Factors in Modeling (HuFaMo 2015)*, Ottawa, Canada. CEUR-Workshop Proceedings. <http://ceur-ws.org/Vol-1522/>
- 2014 Machado, R., Goulão, M., Abreu, F. B. e., and Pascoal Faria, J. (2014). Introduction to special issue: Quality in information and communications technology. *Innovations in Systems and Software Engineering*, 10:1–2
- 2012 Goulão, M. and Abreu, F. B. (2012). Foreword: SEDES 2012-Fourth Portuguese Software Engineering Doctoral Symposium. In *Quality of Information and Communications Technology (QUATIC), 2012 Eighth International Conference on the*, pages 333–335. IEEE CPS. <http://dx.doi.org/10.1109/QUATIC.2012.6244444>

- 2005 Alanen, M., Cabot, J., Goulão, M., and Sáez, J. (2005). Doctoral symposium. In Jardim Nunes, N., Selic, B., Rodrigues da Silva, A., and Toval Alvarez, A., editors, *UML Modeling Languages and Applications*, volume 3297, pages 85–93. Springer Berlin / Heidelberg
- 2004 Abreu, F. B., Coelho, J. S., Goulão, M., and Gomes, R., editors (2004). *Proceedings of the 5th International Conference on the Quality of Information and Communications Technology (QUATIC 2004)*. CEUR-Workshop Proceedings. <http://ceur-ws.org/Vol-1135/>

## JOURNAL ARTICLES

- 2017 Barišić, A., Amaral, V., and Goulão, M. (2017a). Usability driven DSL development with use-me. *Computer Languages, Systems and Structures*, pages -. <https://doi.org/10.1016/j.cl.2017.06.005>
- Bombonatti, D., Goulão, M., and Moreira, A. (2017). Synergies and tradeoffs in software reuse – a systematic mapping study. *Software Practice and Experience*, 1:10–20. <http://onlinelibrary.wiley.com/doi/10.1002/spe.2416/full>
- 2016 Goulão, M., Amaral, V., and Mernik, M. (2016). Quality in model-driven engineering: A tertiary study. *Software Quality Journal*, 1:10–20. <http://dx.doi.org/10.1007/s11219-016-9324-8>
- 2015 Gralha, C., Araújo, J., and Goulão, M. (2015). Metrics for measuring complexity and completeness for social goal models. *Information Systems*, 53:346–362. <http://dx.doi.org/10.1016/j.is.2015.03.006>
- 2013 Monteiro, R., Araújo, J., Amaral, V., Goulão, M., and Patrício, P. (2013). Adding interoperability to requirements models. *Software Quality Professional Journal*, 15:16–27. (c) American Society for Quality
- 2011 Barišić, A., Amaral, V., Goulão, M., and Barroca, B. (2011a). How to reach a usable dsl? moving toward a systematic evaluation. *Electronic Communications of the EASST (MPM)*
- 2005 Goulão, M. and Abreu, F. B. (2005c). Validação cruzada de métricas para componentes. *IEEE Transactions Latin America*, 3(1)
- 2001 Abreu, F. B. e. and Goulão, M. (2001b). A merit factor driven approach to the modularization of software systems. *L’Object*, 4(1)
- 1998 Goulão, M., Monteiro, A. S., Abreu, F. B., and Almeida, A. B. (1998a). Controlo da evolução de sistemas legados. *Sistemas de Informação*, 9:7–18

## BOOK CHAPTERS

- 2013 Moreira, A., Araújo, J. a., Whittle, J., and Goulão, M. (2013). Using Aspects to Model Volatile Concerns. In Moreira, A., Chitchyan, R., Araújo, J. a., and Rashid, A., editors, *Aspect-Oriented Requirements Engineering*, chapter 12, pages 183–205. Springer Berlin Heidelberg
- Barišić, A., Amaral, V., Goulão, M., and Barroca, B. (2013). Evaluating the usability of domain-specific languages. In Mernik, M., editor, *Formal and Practical Aspects of Domain-Specific Languages: Recent Developments*, pages 386–407. IGI Global. <https://dx.doi.org/10.4018/978-1-4666-2092-6.ch014>
- 2007 Goulão, M. and Abreu, F. B. (2007b). An overview of metrics-based approaches to support software

components reusability assessment. In B., R. K. J., editor, *Software Quality Measurement: Concepts and Approaches*, page 264. ICFAI Books, Hyderabad

#### CONFERENCES AND WORKSHOPS

- 2017 Barišić, A., Blouin, D., Amaral, V., and Goulão, M. (2017b). A requirements engineering approach for usability-driven dsl development. In *10th International Conference on Software Language Engineering, SLE 2017*. ACM
- Wanderley, F., Souza, E., Goulão, M., Araujo, J., Cysneiros, G., and Misra, A. (2017). Requirements engineering for cloud systems: A mapping study design. In Gervasi, O., Murgante, B., Misra, S., Borruso, G., Torre, C. M., Rocha, A. M. A., Taniar, D., Apduhan, B. O., Stankova, E., and Cuzzocrea, A., editors, *Computational Science and Its Applications – ICCSA 2017: 17th International Conference, Proceedings, Part VI*, pages 335–349, Trieste, Italy. Springer International Publishing. [https://doi.org/10.1007/978-3-319-62407-5\\_24](https://doi.org/10.1007/978-3-319-62407-5_24)
- Zabasta, A., Nikiforova, O., Kunicina, N., Sukovskis, U., Ribickis, L., Amaral, V., Carreira, P., and Goulao (2017). Developing a mutually-recognized cross-domain study program in cyber-physical systems. In *8th IEEE Global Engineering Education Conference (EDUCON 2017)*, pages –, Athens, Greece. IEEE Computer Society. <https://doi.org/10.1109/EDUCON.2017.7942937>
- Medeiros, J., Vasconcelos, A., Goulão, M., Silva, C., and Araújo, J. (2017). An approach based on design practices to specify requirements in agile projects. In *32nd ACM Symposium on Applied Computing (SAC 2017)*, pages 1114–1121, Marrakesh, Morocco. ACM. <https://doi.org/10.1145/3019612.3019753>
- 2016 Silva, L., Moreira, A., Araújo, J., Gralha, C., Goulão, M., and Amaral, V. (2016). Exploring Views for Goal-Oriented Requirements Comprehension. In Comyn-Wattiau, I., Tanaka, K., Song, I.-Y., Yamamoto, S., and Saeki, M., editors, *35th International Conference on Conceptual Modeling (ER 2016)*, pages 149–163, Gifu, Japan. Springer International Publishing. [http://dx.doi.org/10.1007/978-3-319-46397-1\\_12](http://dx.doi.org/10.1007/978-3-319-46397-1_12)
- Medeiros, J., Goulão, M., Vasconcelos, A., and Silva, C. (2016). Towards a model about quality of software requirements specification in agile projects. In *10th International Conference on the Quality of Information and Communications Technology (QUATIC 2016)*, pages 236–241. IEEE. <https://doi.org/10.1109/QUATIC.2016.058>
- Santos, M., Gralha, C., Goulão, M., Araujo, J., Moreira, A., and Cambeiro, J. (2016). What is the impact of bad layout in the understandability of social goal models? In *24th IEEE International Conference on Requirements Engineering (RE 2016)*, pages 206–215, Beijing, China. IEEE. <https://doi.org/10.1109/RE.2016.51>
- Bombonatti, D., Gralha, C., Moreira, A., Araujo, J. a., and Goulão, M. (2016). Usability of requirements techniques: A systematic literature review. In *31st ACM/SIGAPP Symposium on Applied Computing*. ACM. <http://dx.doi.org/10.1145/2851613.2851758>
- 2015 Ameller, D., Franch, X., Gómez, C., Araujo, J., Svensson, R. B., Biffi, S., Cabot, J., Cortellessa, V., Daneva, M., Fernández, D. M., Moreira, A., Muccini, H., Vallecillo, A., Wimmer, M., Amaral, V., Brunelièrek, H., Burgueño, L., Goulão, M., Schätz, B., and Teufl, S. (2015). Handling Non-Functional Requirements in Model-Driven Development: An Ongoing Industrial Survey. In *23rd IEEE International Requirements Engineering Conference (RE 2015)*, pages 208–213. <http://dx.doi.org/10.1109/RE.2015.7320424>
- 2014 Barišić, A., Amaral, V., Goulão, M., and Aguiar, A. (2014). Introducing usability concerns early

- in the dsl development cycle: Flowsl experience report. In *MD<sub>2</sub>P<sub>2</sub> 2014-Model-Driven Development Processes and Practices Workshop Proceedings*, pages 8–17. <http://ceur-ws.org/Vol-1249/MD2P22014.pdf#page=13>
- Sabino, A., Rodrigues, A., Goulão, M., and Gouveia, J. (2014). Indirect keyword recommendation. In *Web Intelligence (WI) and Intelligent Agent Technologies (IAT), 2014 IEEE/WIC/ACM International Joint Conferences on*, volume 1, pages 384–391. IEEE
- Gralha, C., Goulão, M., and Araújo, J. (2014). Identifying modularity improvement opportunities in goal-oriented requirements models. In *26th International Conference on Advanced Information Systems Engineering, CAiSE 2014*, Thessaloniki, Greece
- 2013 Espada, P., Goulão, M., and Araújo, J. (2013). A framework to evaluate complexity and completeness of kaos goal models. In *25th International Conference on Advanced Information Systems Engineering, CAiSE 2013*, Valencia, Spain
- Almeida, C., Goulão, M., and Araújo, J. (2013). A systematic comparison of i\* modelling tools based on syntactic and well-formedness rules. In *6th International i\* (iStar) Workshop*, Valencia, Spain
- Fernandes, A. I., Goulão, M., and Rodrigues, A. (2013). A comparison of maps application programming interfaces. In *16th AGILE Conference on Geographic Information Science, AGILE 2013*, Leuven, Belgium
- Araújo, J., Goulão, M., Moreira, A., Simão, I., Amaral, V., and Baniassad, E. (2013). Advanced modularity for building spl feature models: a model-driven approach. In *28th ACM Symposium on Applied Computing, Requirements Engineering Track, ACM-SAC 2013*, Coimbra, Portugal. ACM
- 2012 Goulão, M., Fonte, N., Wermelinger, M., and Abreu, F. B. (2012). Software evolution prediction using seasonal time analysis: a comparative study. In *16th European Conference on Software Maintenance and Reengineering (CSMR 2012)*, Szeged, Hungary. IEEE Computer Society
- Barišić, A., Monteiro, P., Amaral, V., Goulão, M., and Pessoa Monteiro, M. (2012b). Patterns for evaluating usability of domain-specific languages. In *Proceedings of the Pattern Languages of Programs Conference, PLoP 2012*. ACM. <http://hillside.net/plop/2012/papers/Group%20-%20Coyote/Patterns%20for%20Evaluating%20Usability%20of%20Domain-Specific%20Languages.pdf>
- Monteiro, R., Araújo, J., Amaral, V., Goulão, M., and Patrício, P. (2012). Model-driven development for requirements engineering: The case of goal-oriented approaches. In Pascoal Faria, J., Paiva, A., and Machado, R., editors, *8th International Conference on the Quality of Information and Communications Technology (QUATIC 2012)*, Lisbon, Portugal. IEEE CPS
- Barišić, A., Amaral, V., and Goulão, M. (2012a). Usability evaluation of domain-specific languages. In *Simpósio de Estudantes de Doutoramento em Engenharia de Software (SEDES 2012), hosted by QUATIC 2012*, Lisbon, Portugal. IEEE CPS
- 2011 Barišić, A., Amaral, V., Goulão, M., and Barroca, B. (2011b). Quality in use of domain specific languages: a case study. In *3rd ACM SIGPLAN workshop on Evaluation and Usability of Programming Languages and Tools (PLATEAU 2011)*, pages 65–72, Portland, USA. ACM. <http://dx.doi.org/10.1145/2089155.2089170>
- Barišić, A., Amaral, V., Goulão, M., and Barroca, B. (2011c). Quality in use of dsls: Current evaluation methods. In *3rd INForum - Simpósio de Informática (INForum2011)*, Coimbra, Portugal
- Espada, P., Goulão, M., and Araújo, J. (2011). Measuring complexity and completeness of kaos goal models. In *International Workshop on Empirical Requirements Engineering (EmpiRE 2011), at the 19th International Requirements Engineering Conference (RE 2011)*, Trento, Italy. IEEE Computer Society. <http://dx.doi.org/10.1109/EmpiRE.2011.6046252>

- Goulão, M., Moreira, A., Araújo, J., and Santos, J. P. (2011). Streamlining scenario modeling with model-driven development: a case study. In *Model-Driven Requirements Engineering Workshop (MoDRE 2011)*, at the 19th International Requirements Engineering Conference (RE 2011), pages 55–63, Trento, Italy. IEEE Computer Society
- 2010 Santos, J. P., Moreira, A., Araújo, J., and Goulão, M. (2010). Increasing quality in scenario modelling with model-driven development. In Abreu, F. B. e., Pascoal Faria, J., and Machado, R., editors, *7th International Conference on the Quality of Information and Communications Technology (QUATIC'2010)*, pages 204–209, Porto, Portugal. IEEE Computer Society. <http://dx.doi.org/10.1109/QUATIC.2010.36>
- Gabriel, P., Goulão, M., and Amaral, V. (2010). Do software languages engineers evaluate their languages? In Franch, X., Gimenes, I. M. d. S., and Carvallo, J.-P., editors, *XIII Congreso Iberoamericano en "Software Engineering" (CIbSE'2010)*, ISBN: 978-9978-325-10-0, pages 149–162, Cuenca, Ecuador. Universidad del Azuay
- Lima, A., Goulão, M., and Pessoa Monteiro, M. (2010). Evidence-based comparison of modularity support between java and object teams. In *Empirical Evaluation of Software Composition Techniques (ESCOT 2010)*, at 9th International Conference on Aspect-Oriented Software Development (AOSD'2010). [http://www.comp.lancs.ac.uk/~greenwop/escot10/escot10\\_submission\\_9.pdf](http://www.comp.lancs.ac.uk/~greenwop/escot10/escot10_submission_9.pdf), Rennes and Saint Malo, France
- 2007 Goulão, M. and Abreu, F. B. (2007a). Modeling the experimental software engineering process. In Machado, R., editor, *6th International Conference on the Quality of Information and Communications Technology (QUATIC'2007)*, pages 77–90, Lisbon, Portugal. IEEE Computer Society
- 2006 Goulão, M. and Abreu, F. B. (2006). On the influence of practitioners' expertise in component-based software reviews. In *10th ECOOP Workshop on Quantitative Approaches in Object-Oriented Software Engineering (QAOOSE'2006)*, Nantes
- 2005 Goulão, M. and Abreu, F. B. (2005a). Composition assessment metrics for cbse. In *Euromicro-SEAA 2005: 31st Euromicro Conference on Software Engineering and Advanced Applications*, pages 96–103, Porto, Portugal. IEEE Computer Society
- Goulão, M. and Abreu, F. B. (2005b). Formal definition of metrics upon the corba component model. In Reussner, R., Mayer, J., Stafford, J. A., Overhage, S., Becker, S., and Schroeder, P. J., editors, *First International Conference on the Quality of Software Architectures (QoSA'2005)*, and *Proceedings of the Second International conference on Software Quality*, volume 3712, pages 88–105, Erfurt, Germany. Springer
- 2004 Goulão, M. and Abreu, F. B. (2004a). Cross-validation of a component metrics suite. In *IX Jornadas de Ingeniería del Software y Bases de Datos (JISBD'2004)*, Malaga, Spain
- Alanen, M., Cabot, J., Goulão, M., and Sáez, J. (2005). Doctoral symposium. In Jardim Nunes, N., Selic, B., Rodrigues da Silva, A., and Toval Alvarez, A., editors, *UML Modeling Languages and Applications*, volume 3297, pages 85–93. Springer Berlin / Heidelberg
- Goulão, M. and Abreu, F. B. (2004d). Software components evaluation: an overview. In *5ª Conferência da APSI (CAPSI 2004)*, Lisbon
- Goulão, M. and Abreu, F. B. (2004c). Independent validation of a component metrics suite. In *8th International Workshop on Quantitative Approaches in Object-Oriented Software Engineering (QAOOSE'2004)*, Oslo, Norway
- Goulão, M. and Abreu, F. B. (2004b). Formalizing metrics for cots. In Dubois, E. and Franch, X., editors, *International Workshop on Models and Processess for the Evaluation of COTS Components (MPEC 2004) at ICSE 2004*, pages 37–40, Edimburgh, Scotland. IEE

- 2003 Goulão, M. and Abreu, F. B. (2003). Bridging the gap between acme and uml 2.0 for cbd. In *Specification and Verification of Component-Based Systems (SAVCBS'2003), at the ESEC/FSE'2003*, Helsinki, Finland
- Goulão, M. (2003). Cbse: a quantitative approach. In *ECOOP Doctoral Symposium*, Darmstadt, Germany
- 2002 Baroni, A. L., Goulão, M., and Abreu, F. B. (2002). Avoiding the ambiguity of quantitative data extraction: An approach to improve the quality of metrics results. In *Work in Progress Session at the 28th EUROMICRO Conference*, Dortmund, Germany
- Goulão, M. and Abreu, F. B. (2002c). Towards a components quality model. In *Work in Progress Session of the 28th Euromicro Conference (Euromicro 2002)*, Dortmund, Germany
- Goulão, M. and Abreu, F. B. (2002b). The quest for software components quality. In *26th Annual International Computer Software and Applications Conference (COMPSAC 2002)*, pages 313–318, Oxford, England. IEEE Computer Society
- Goulão, M. and Abreu, F. B. (2002a). From objects to components - a quantitative experiment. In Piattini, M., Abreu, F. B., Sahraoui, H., and Poels, G., editors, *6th International Workshop on Quantitative Approaches in Object-Oriented Software Engineering QAOOSE'2002*, Málaga, Spain
- 2001 Abreu, F. B. e. and Goulão, M. (2001a). Coupling and cohesion as modularization drivers: Are we being over-persuaded? In Sousa, P. and Ebert, J., editors, *5th European Conference on Software Maintenance and Reengineering (CSMR'2001)*, pages 47–57, Lisboa, Portugal. IEEE Computer Society Press
- 1999 Abreu, F. B. and Goulão, M. (1999). Designing and coding object-oriented systems: An introductory course experience report. In *Workshop on Introducing OO Design and Programming with Special Emphasis on Concrete Examples (ECOOP'99)*, volume 1743, pages 351–353, Lisboa, Portugal. Springer Verlag
- Monteiro, A. S., Goulão, M., Abreu, F. B., Almeida, A. B., and Sousa, P. (1999b). Controlling the evolution of legacy systems using internet technology: A defect report and tracking system. In *6th European Conference on Software Quality*, pages 473–483, Vienna, Austria. European Organization for Quality
- Monteiro, A. S., Almeida, A. B., Goulao, M., Abreu, F. B., and Sousa, P. (1999a). A software defect report and tracking system in an intranet. In *Third European Conference on Software Maintenance and Reengineering*, pages 198–201, Amsterdam, The Netherlands. IEEE Computer Society
- 1998 Goulão, M., Monteiro, A. S., Abreu, F. B., and Almeida, A. B. (1998a). Controlo da evolução de sistemas legados. *Sistemas de Informação*, 9:7–18
- Goulão, M., Monteiro, A. S., Abreu, F. B., and Almeida, A. B. (1998b). Controlo da evolução de sistemas legados. In *Proceedings of the 3rd International Conference on the Quality of Information and Communications Technology (QUATIC 1998)*, pages 53–73. CEUR Workshop Proceedings. <http://ceur-ws.org/Vol-1460/paper3.pdf>
- Goulão, M., Monteiro, A. S., Martins, J. F., Abreu, F. B., Almeida, A. B., and Sousa, P. (1998c). A software evolution experiment. In Kusters, R., Cowderoy, A., Heemstra, F., and Trienekens, J., editors, *European Software Control and Metrics Conference (ESCOM'98)*, Rome, Italy. Shakter Publishing B. V
- 1996 Abreu, F. B., Esteves, R., and Goulão, M. (1996). The design of eiffel programs: Quantitative evaluation using the mood metrics. In *TOOLS'96 (Technology of Object Oriented Languages and Systems)*
- 1995 Abreu, F. B., Goulão, M., and Esteves, R. (1995). Toward the design quality evaluation of object-

oriented software systems. In *5th International Conference on Software Quality*, pages 44–57, Austin, Texas, EUA. American Society for Quality

## Projects (as team member)

- 2016-2019 DSML4MA - Developing a Framework on Evaluating Domain-specific Modeling Languages for Multi-agent Systems; Bi-Lateral cooperation project with Ege University International Computer Institute, Turkey
- 2015-2019 Chipset - ICT COST Action IC1406 - High-Performance Modelling and Simulation for Big Data Applications (cHiPSet); lead by Cracow University of Technology
- 2014-2018 MPM4CPS - ICT COST Action IC1404 - Multi-Paradigm Modelling for Cyber-Physical Systems; lead by University of Antwerp
- 2011-2013 MDD-RT - Model-Driven Development of Configurable Aspectual Black Box Components for Embedded and Real-Time Systems; CRUP FCT/Cantabria; Partners: FCT/UNL, Universidad de Cantabria
- 2008-2010 FCT/Porto Alegre; Partners: FCT/UNL, Universidade Federal do Rio Grande do Sul
- 2005-2008 SOFTAS - Desenvolvimento de Software com Aspectos, CITI-FCT-UNL
- 2004-2006 STACOS; Partners: FCT/UNL, Universidade do Minho
- 1997-1999 Metrics for DAMAG; Partners: INESC, Marinha Portuguesa
- 1996 SAMARITAN (System for Aided Maintenance and Reengineering of Information Technology Applications); Partners: Portugal Telecom, INESC

## Graduation Activities

### COMPLETE PHD SUPERVISIONS

- 2017 Medeiros, J., An approach to support the Requirements Specification in Agile Software Development, Universidade Federal de Pernambuco, Brazil, March, 2017 (with Alexandre Vasconcelos, UFPE/CIN, Brazil and Carla Silva, UFPE/CIN, Brazil)

### ONGOING PHD SUPERVISIONS

- 2014-... Gralha, C., Evaluation of Requirements Models (with João Araújo)
- 2010-... Barišic, A., Evaluating the Usability of Domain-Specific Languages (with Vasco Amaral)
- Silva, L., A Pattern-Based Approach to Scaffold the IT Infrastructure Design Process (with Fernando Brito e Abreu, ISCTE/IUL)

### COMPLETE MSc SUPERVISIONS

- 2017 Dias, P., Impacto do Code Ownership na qualidade do código



- Cabrita, H., Modelo de Custos para Linguagens de Domínio Específico (with Vasco Amaral, FCT/UNL)
- Santos, M., Avaliação da Eficácia Cognitiva de Modelos de Requisitos Orientados a Objetivos (with João Araújo, FCT/UNL)
- 2016  
Henriques, H., Domain Specific Language Evaluation: OutSystems' Business Process Technology (with Vasco Amaral FCT/UNL and Hugo Lourenço, Outsystems)
- Valente, F., Towards Planned Reusability (with Ana Moreira, FCT/UNL, @NOVABASE)
- 2015  
Sousa, M., Quality-focused Software Process Improvement in a SME (@ Pessoas & Processos)
- Costa, P., Metodologia de Teste para Sistemas Operativos de Tempo Real garantindo conformidade com ARINC 653 (with Vasco Amaral FCT/UNL and João Cintra, GMV)
- 2014  
Sequeira, P., Curricular Analysis (Programa "Para ser Mestre")
- Gralha, C., Avaliação da Qualidade de Requisitos em Modelos i\* (with João Araújo, FCT/UNL)
- Silva J., A Solution for Estimates in Software Development Projects (with João Quitério, Altran Portugal)
- 2013  
Silva, G., Mineração de repositórios de software
- 2012  
Fernandes, A., Comparing maps APIs in a mobile context (with Armanda Rodrigues FCT/UNL)
- Espada, P., Melhoria da qualidade para modelos orientados a objectivos: o caso da abordagem KAOS (with João Araújo FCT/UNL)
- 2011  
Areal, B. Building Anonymised Data Samples (with José Júlio Alferes FCT/UNL)
- Salvador, F., Avaliação comparativa de formatos de informação geo-referenciada em contexto militar (with Sérgio Bryton FCT/UNL)
- Almeida, M. Measuring Modularity of CaesarJ Components (with Miguel Pessoa Monteiro FCT/UNL)
- Fonseca, A., Curricular Analysis (Programa "Para ser Mestre")
- 2010  
Fonte, N. Software Repositories Analysis with Time Series
- Gabriel, P. Software Languages Engineering: Experimental Evaluation (with Vasco Amaral FCT/UNL)

## Teaching

Year	Semester	Degree	Course	Regent	Lectures	Labs
2016/2017	2nd	MSc	Software Quality	✓	✓	✓
		BSc	Curricular Practical Activity		✓	✓
		BSc	Object-Oriented Programming			✓
2015/2016	1st	BSc	Introduction to Programming	✓	✓	
	2nd	PhD	Experimental Software Engineering	✓	✓	
		MSc	Software Quality	✓	✓	✓
2014/2015	1st	BSc	Object-Oriented Programming			✓
		PhD	Experimental Software Engineering	✓	✓	
		MSc	Software Quality	✓	✓	✓
2013/2014	2nd	BSc	Software Development Methods			✓
		PhD	Experimental Software Engineering	✓	✓	
		BSc	Object-Oriented Programming			✓
2012/2013	1st	MSc	Software Quality	✓	✓	✓
		BSc	Software Development Methods			✓
		PhD	Experimental Software Engineering	✓	✓	
2011/2012	2nd	BSc	Object-Oriented Programming			✓
		BSc	Introduction to Programming	✓	✓	
		BSc	Software Development Methods	✓	✓	✓
2010/2011	1st	BSc	Introduction to Programming	✓	✓	✓
		BSc	Object-Oriented Programming	✓	✓	✓
		BSc	Introduction to Programming	✓	✓	✓
2009/2010	2nd	BSc	Introduction to Programming	✓	✓	✓
		MSc	Software Architecture	✓	✓	✓
		MSc	Process and Product Quality	✓	✓	✓
2008/2009	1st	BSc	Object-Oriented Programming			✓
		BSc	Introduction to Programming		✓	✓
		MSc	Process and Product Quality	✓	✓	✓
2007/2008	2nd	BSc	Object-Oriented Programming			✓
		MSc	Software Architecture		✓	✓
		BSc	Introduction to Programming			✓
2006/2007	1st	BSc	Object-Oriented Programming			✓
		BSc	Introduction to Programming B			✓
		BSc	Programming 1			✓
2004/2005	2nd	BSc	Systems Analysis 1			✓
		BSc	Software Engineering			✓
		BSc	Programming Languages 1			✓
2002/2003	1st	BSc	Programming 1a			✓
		BSc	Algorithms and Data Structures 1			✓
		BSc	Programming Languages 1			✓
2001/2002	1st	BSc	Programming 1			✓
		BSc	Algorithms and Data Structures 1			✓
		BSc	Programming 1			✓
2000/2001	1st	BSc	Algorithms and Data Structures 1			✓
		BSc	Programming 1			✓
		BSc	Programming 1			✓
1999/2000	2nd	BSc	Introduction to Computers and Programming			✓
		BSc	Programming 1			✓
		BSc	Informatics 2		✓	✓
1997/1998	1st	BSc	Informatics 1		✓	✓
		BSc	Informatics 1		✓	✓
1996/1997	BSc	1st	Informatics 1		✓	✓

## Service to the profession

### JOURNAL REVIEWING ACTIVITIES

- 2017 Journal of Systems and Software ([JSS](#)), SNIP 2016 2.039, SJR 2016 0.640, IF 2016 2.444, 5IF 2.619  
Transactions on Software Engineering ([TSE](#)), IF 2016 3.272  
Acta Polytechnica Hungarica ([APH](#)), IF 2015 0.544  
Computer Languages, Systems and Structures ([COMLAN](#)) - SNIP 2015 0.955, SJR 2015 0.252, IF 2015 0.556, 5IF 2015 0.449
- 2016 Information and Software Technology ([IST](#)) - SNIP 2015 3.163, SJR 2015 0.920, IF 2015 1.569 5IF 2015 2.016  
Computer Languages, Systems and Structures ([COMLAN](#)) - SNIP 2014 1.348, SJR 0.838, IF 0.440, 5IF 0.416
- 2015 Software Quality Journal (SQJO) 2014 SNIP 2.650, SJR Q1, SJR 2014 1.266, JCR 2014 1.143  
Software Testing, Verification and Reliability (STVR) - SJR 1.35, Q1  
Journal of Object Technology ([JOT](#)) - SJR 0.398, Q3  
Journal of Software Engineering Research and Development ([JSERD](#))
- 2014 Software Testing, Verification and Reliability (STVR) - SJR 1.35, Q1  
Information Systems Frontiers ([ISFI](#)) - SJR 2014 0.680, SJR Q2, IF 1.077
- 2013 Information Systems Frontiers ([ISFI](#)) - SJR 2013 0.583, SJR Q3  
Innovations in Systems and Software Engineering ([ISSE](#)) - SJR 2013 0.491 SJR Q3, SNIP 2014 1.168
- CONFERENCE PROCEEDINGS (REVIEWING AS PC MEMBER)
- 2017 INFORUM 2017 - Simpósio de Informática - Ciência e Engenharia de Software (SOFT-PT), [INFORUM2017](#)  
XXXI Simpósio Brasileiro de Engenharia de Software ([SBES 2017](#))  
25th IEEE International Requirements Engineering Conference, [RE2017](#)  
Simpósio Brasileiro de Engenharia de Software, [SBES 2017](#)
- 2016 10th International Conference on the Quality of Information and Communications Technology ([QUATIC 2016](#))  
6th Portuguese Software Engineering Doctoral Symposium ([SEDES 2016](#))  
31st ACM Symposium on Applied Computing 2016 ([ACM SAC 2016](#)), Track on Service-Oriented Architecture and Programming ([SOAP](#))  
Simpósio Brasileiro de Engenharia de Software ([SBES 2016](#))

- 2015 Simpósio Brasileiro de Engenharia de Software (SBES 2015)
- 2014 29th ACM Symposium of Applied Computing (ACM SAC 2014), 10th Programming for Separation of Concerns (SAC PSC 2014) - CORE 2014 Rank B  
 XIX Jornadas en Ingeniería del Software y Bases de Datos (JISBD 2014)  
 Simpósio Brasileiro de Engenharia de Software (SBES 2014)
- 2013 XVIII Jornadas en Ingeniería del Software y Bases de Datos (JISBD 2013)
- CONFERENCE PROCEEDINGS (REVIEWING AS ADDITIONAL REVIEWER)
- 2016 International Conference on Requirements Engineering (RE 2016) - CORE 2014 Rank A
- 2015 International Conference on Requirements Engineering (RE 2015) - CORE 2014 Rank A
- 2014 International Conference on Requirements Engineering (RE 2014) - CORE 2014 Rank A  
 ACM/IEEE 17th International Conference on Model Driven Engineering Languages and Systems (MODELS 2014) - CORE 2014 Rank B
- 2013 25th International Conference on Advanced Information Systems Engineering (CAiSE'13) - CORE 2013 Rank A  
 ACM/IEEE 17th International Conference on Model Driven Engineering Languages and Systems (MODELS 2014) - CORE-ERA 2010 Rank B
- WORKSHOP PROCEEDINGS (REVIEWING AS PC MEMBER)
- 2017 Empirical Software Engineering Latin American Workshop (ESELAW 2017)  
 Conferencia Iberoamericana de Software Engineering - Doctoral Symposium (DS@CIBSE 2017)
- 2016 Empirical Software Engineering Latin American Workshop (ESELAW 2016)
- 2015 1st International Workshop in Human Factors in Modeling (HuFaMo 2015)  
 Empirical Software Engineering Latin American Workshop (ESELAW 2015)
- 2014 Empirical Software Engineering Latin American Workshop (ESELAW 2014)  
 Domain Specific Modeling (DSM 2014)  
 Simpósio de Estudantes de Doutorado em Engenharia de Software (SEDES 2014)

## Extension and Outreach

- 2017  
Ciência Viva - Vamos programar um Jogo de Computador @ FCT (Instructor). 2017/07  
[ToPAS LX 2017](#) (Organizing Committee Member @ FCT). 2017/05/12.  
Expo FCT 2017 - Informática Artesanal (Organizer). 2017/04/19  
Programação no Pré-Escolar @ Escola Básica do Lumiar - Visit to Escola Básica do Lumiar for a session on Programming for 4-6 year old children. 2017/03/30  
Game Programming with Python @ FCT (Instructor) - Visit from Escola Industrial/Secundária do Fundão. 2017/01/27
- 2010-2017  
ACS03 - Associação da CS03 para a Qualidade nas Tecnologias de Informação e Comunicações  
Founding member of ACS03, as the representative of Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (2010). Vice-President of ACS03 in 2015-2017.
- 2001-2017  
Member of CS03.
- 2016  
[Movimento Código Portugal](#) Closing session at Pavilhão do Conhecimento (Activity Organizer). 2016/12/11  
[Movimento Código Portugal](#) Code Move PT (Platform core team member)  
FCT Coding Fest 2016 (Member of the organizing team). 2016/11/26  
Ciência Viva - Vamos programar um Jogo de Computador @ FCT (Instructor). 2016/07  
[TOPAS LX 2016](#) - Programming contest for high school students (Scientific Committee member @ FCT). 2016/05/07  
Expo FCT 2016 - Informática Artesanal (Organizer). 2016/04/06  
Game Programming with Python @ FCT (Instructor) - Visit from Liceo Medi, Italy. 2016/03/18  
Hour of Code @ FCT (Instructor). 2016/02/15  
European BEST Engineering Competition for the Team Design Category (Juri Member). 2016/02/03
- 2015  
Hour of Code @ Campo de Flores (Instructor). 2015/12  
Ciência Viva - Vamos programar um Jogo de Computador @ FCT (Instructor). 2015/07  
Ciência Viva - Vamos programar um Jogo de Computador @ FCT (Instructor). 2015/06  
Expo FCT 2015 - Informática Artesanal (Organizer). 2015/04
- 2014  
Expo FCT 2014 - Informática Artesanal (Organizer). 2014/04
- 2013  
Expo FCT 2013 - Informática Artesanal (Organizer). 2013/04
- 2012  
Expo FCT 2012 - Informática Artesanal (Organizer). 2012/04
- 2011  
CIIC'2011 - Competição Ibero-Americana de Informática por Correspondência (Local host @ DI). (2011/07/01)  
Expo FCT 2011. (Organizer@DI). 2011/04/29
- 2010  
EXPO FCT 2010. (Organizer@DI). 2010/04/16

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