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## Fernando Brito e Abreu

### Professor Associado

Department of Information Science and Technology (ISTA)

### Integrated Researcher

ISTAR - Information Sciences, Technologies and Architecture Research Centre (ISTA)  
[Software Systems Engineering]



## Contacts

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## Curriculum

Fernando Brito e Abreu holds a Ph.D. in Computer Engineering from IST/UL and is an associate professor in the Department of Information Sciences and Technologies at Iscte-IUL, where he has held various positions such as director of the Master's Degree in Computer Science and Management (MIG), member of Iscte-IUL's Scientific Council representing the ISTAR-IUL Research Unit and responsible for DCTI's internationalization. He was previously an assistant professor in the Department of Informatics at FCT/UNL. He also taught at ISEGI/UNL (now NOVA IMS), IST/UTL, ISEG/UTL, and the Air Force Academy. He was also a guest lecturer at the Département Informatique of the École des Mines de Nantes for a decade, as part of the EMOOSE European master's degree. At these universities, he taught and was responsible for around a dozen subjects in the 1st, 2nd, and 3rd cycles. He has supervised more than 30 dissertations, including 10 PhDs, 6 of which have already been completed.

He was a researcher in the Software Engineering Group at INESC Lisboa, in the CITI research center (Center for Informatics and Information Technologies) at FCT/UNL and later was one of the founders of the ISTAR-IUL research unit at Iscte-IUL, where he created and was the 1st coordinator of the Software Systems Engineering group, where he remains today. He promoted the signing of various applied research/technology transfer and/or collaboration protocols between: (i) INESC and the Portuguese Navy, (ii) CS/03 and itSMF Portugal, (iii) NAV EPE and FCT/UNL, (iv) SINFIC and FCT/UNL, (v) Turismo de Portugal and Iscte-IUL and (vi) GEOTA and Iscte-IUL. In addition to the projects funded and developed under these

protocols, he has coordinated research teams in various national and international scientific projects.

He has produced more than two hundred scientific and technical texts, including articles in journals such as Empirical Software Engineering, Software Quality Journal, Archives of Computational Methods in Engineering, Science of Computer Programming, Journal of Systems and Software, IEEE Latin America, Object Expert, Computer Standards & Interfaces, ERCIM News, Personal Computer World, L'Objet, Qualirama, Sistemas de Informação e Interface. His work has been cited nearly 4K times, with an h-index close to 30, according to Google Scholar. He pioneered in Portugal in Empirical Software Engineering with his research group QUASAR (QUAntitative Approaches in Software engineering And Reengineering). Among his proposals are the MOOD (Metrics for Object Oriented Design) suite, currently used in the software industry and the Metamodel Driven Measurement (M2DM) approach. The latter allows the abstract formalization of metrics over a domain metamodel using OCL, a constraint specification language that is part of UML. M2DM has been applied in various domains (e.g. object-oriented design, component-based development, business process modeling, IT infrastructure modeling).

He is currently an editor of the Software Quality Journal (Springer) and was previously associate editor of Software Quality Professional (American Society for Quality), Portuguese delegate to IFIP TC2 (Software: Theory and Practice), and member of the technical team of the MPS.BR process model, widely used in Brazil. He has been a regular reviewer for various international journals, conferences, and workshops, as well as an evaluator of research projects. He has participated in the organization of national and international scientific events in a wide variety of roles. He was also president of CS/03 (Sectorial Commission for Quality in Information and Communications Technologies), of the Portuguese Quality Institute, from 2000 to 2007, where he was one of the creators of the international QUATIC conference (<https://www.quatic.org>). In 2021 he was elected Chairman of the QUATIC Series Scientific Steering Committee.

Research Interests
Software Engineering
Model Driven Development
Smart Tourism
Digital Transformation
Software Quality
Process Modelling
Empirical Software Engineering
Software Evolution

Academic Qualifications			
University/Institution	Type	Degree	Period
Instituto Superior Técnico - UTL	PhD	Engenharia Informática e de Computadores	2001
Universidade de Lisboa Instituto Superior Técnico	M.Sc.	Engenharia Electrotécnica e de Computadores	1989
Universidade de Lisboa Instituto Superior Técnico	Licenciante	Eng. <sup>a</sup> Electrotécnica / Ramo de Telecomunicações e Electrónica	1985
Escola Superior Náutica Infante D. Henrique	Bachelor of Science	Oficial Radiotécnico da Marinha Mercante	1979

## External Professional Activities

Period	Employer	Country	Description
Since 2015	ISTA Research (ISTAR)	Portugal	Full Researcher
2014 - 2020	Software Quality Professional Journal, American Society for Quality	United States of America	Associate Editor
2013 - 2014	Centro de Investigação em Sistemas e Tecnologias de Informação Avançados (ADETTI-IUL), ISCTE-IUL	Portugal	Associate Researcher
2005 - 2010	FCT/UNL	Portugal	Assistant Professor (with tenure)
2002 - 2014	Centro de Informática e Tecnologias de Informação (CITI), FCT/UNL	Portugal	Full Researcher
2001 - 2005	ISEGI/UNL (currently NOVA IMS)	Portugal	Invited Assistant Professor
2000 - 2013	Software Quality Professional Journal, American Society for Quality	United States of America	Editorial Board Member
2000 - 2005	FCT/UNL	Portugal	Assistant Professor
1998 - 2000	FCT/UNL	Portugal	Teaching Assistant
1998 - 2009	École des Mines de Nantes (currently IMT Atlantique), France	France	Invited Professor
1994 - 2001	INESC	Portugal	Researcher
1989 - 1998	ISEG/UTL	Portugal	Teaching Assistant
1988 - 1989	ISEG/UTL	Portugal	Teaching Assistant (intern)

## Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2024/2025	2º	Software Engineering	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2024/2025	1º	Process Modeling and Deployment	Master Degree in Computer Science and Business Management;	Yes

2024/2025	1°	Software Engineering	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2023/2024	1°	Process Modeling and Deployment	Master Degree in Computer Science and Business Management;	Yes
2022/2023	2°	Software Engineering	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2022/2023	1°	Research Methodologies in Computer Science and Business Management		Yes
2022/2023	1°	Process Modeling and Deployment	Master Degree in Computer Science and Business Management;	Yes
2022/2023	1°	Software Engineering	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2021/2022	2°	Software Engineering	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2021/2022	1°	Research Methodologies in Computer Science and Business Management		Yes
2021/2022	1°	Process Modeling and Deployment	Master Degree in Computer Science and Business Management;	Yes
2021/2022	1°	Software Engineering	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No

2020/2021	2°	Software Engineering	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2020/2021	1°	Research Methodologies in Computer Science and Business Management		Yes
2020/2021	1°	Process Modeling and Deployment	Master Degree in Computer Science and Business Management;	Yes
2019/2020	2°	Information System Design and Development	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2019/2020	1°	Research Methodologies in Computer Science and Business Management		Yes
2018/2019	2°	Information System Design and Development	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2018/2019	1°	Research Methodologies in Computer Science and Business Management		Yes
2018/2019	1°	Experimental Software Engineering		Yes
2017/2018	2°	Information System Design and Development	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2017/2018	2°	Information System Design and Development	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management;	Yes

2017/2018	2º	Information System Design and Development	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2017/2018	1º	Research Methodologies in Computer Science and Business Management		Yes
2017/2018	1º	Experimental Software Engineering		Yes
2015/2016	2º	Software Engineering II		Yes
2015/2016	1º	Experimental Software Engineering		Yes
2015/2016	1º	Software Engineering I		Yes
2014/2015	2º	Software Engineering II		Yes
2014/2015	2º	Software Engineering II		Yes
2014/2015	1º	Experimental Software Engineering		Yes
2014/2015	1º	Introduction to Programming	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering; Master Degree in Social and Organizational Modeling;	No
2013/2014	2º	Software Engineering II		Yes
2013/2014	2º	Software Engineering II		Yes

## Supervisions

### • Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	José Américo Alves Sustelo Rio	Web Systems Quality Evolution: a web smells approach	English	Developing	ISCTE-IUL
2	António Miguel Portugal Galvão	To be defined	English	Developing	Universidade Nova de Lisboa

3	Duarte Sampaio Belchior de Almeida	Digital twinning for managing tourism crowding phenomena	English	Developing	ISCTE-IUL
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**- Concluded**

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	José Vicente Pereira dos Reis	Streamlining Code Smells: Using Collective Intelligence and Visualization	English	ISCTE-IUL	2022
2	João Carlos Palmela Pinheiro Caldeira	Software Development Process Mining: Discovery, Conformance Checking and Enhancement	English	ISCTE-IUL	2021
3	Luís Alexandre Ferreira da Silva	A Pattern-Based Approach to Scaffold the IT Infrastructure Design Process	English	FCT / Universidade Nova de Lisboa	2017
4	Anacleto Cortez e Correia	Quality of Process Modeling Using BPMN: A Model-Driven Approach	English	FCT / Universidade Nova de Lisboa	2014
5	Miguel Carlos Pacheco Afonso Goulão	Component-Based Software Engineering: a Quantitative Approach	English	Universidade NOVA de Lisboa Faculdade de Ciências e Tecnologia	2008

**• M.Sc. Dissertations**

**- Ongoing**

	Student Name	Title/Topic	Language	Status	Institution
1	Henrique Costa Alves Ribeiro	BPMN applied to the professional environment for interpretation and adjustment, with the objective of reorganizing and improving processes in teams	--	Developing	ISCTE-IUL
2	Daniel Filipe de Jesus Brás	Assessing the deployment of a walking tour recommendation app	--	Developing	ISCTE-IUL

**- Concluded**

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	João Carlos Cambaia Gomes de Almeida	A gamified mobile app for promoting campus-community engagement: The case of ISCTE's 50th anniversary	English	ISCTE-IUL	2023
2	Tomás Miguel Mestre dos Santos	Smart Tourism Toolkit for Crowd-monitoring Solutions.	English	ISCTE-IUL	2023

3	Pedro Miguel Estrela de Moura	Developing and Validating Process-Aware GUIs in an Industrial Setting: The Case of a Classic Car Restoration Shop	English	Universidade Nova de Lisboa	2022
4	Diogo Filipe dos Santos Tito Lívio	Process-Based Monitoring in Industrial Context: The Case of Classic Cars Restoration	English	Universidade Nova de Lisboa	2021
5	Diogo Saraiva Cavalheiro Neves Pereira	An Automated System for Monitoring and Control Classic Cars' Restorations: An IoT-based Approach	English	Universidade Nova de Lisboa	2021
6	Duarte Sampaio Belchior de Almeida	Urban Tourism Crowding Dynamics: Carrying Capacity and Digital Twinning	English	ISCTE-IUL	2021
7	Filipe Eduardo da Silva Vida Larga	A mobile tour guide app for sustainable tourism	English	ISCTE-IUL	2020
8	Maria Pedro dos Santos Sales	Highlighting Model Elements to Improve OCL Comprehension	English	ISCTE-IUL	2020
9	Rúben André Sousa Beirão	A multiple criteria route recommendation system	English	ISCTE-IUL	2020
10	João Pedro Grangeia Gomes	Learning to code in class with MOOCs: process, factors and outcomes	English	ISCTE-IUL	2020
11	Ana Rita Henrique Peixoto	A Graph-Based Approach for Sustainable Walking Tour Recommendations: the Case of Lisbon Overcrowding	English	ISCTE-IUL	2019
12	Rúben Dias da Silva	A tourism crowding sensor using multiple techniques detection	English	ISCTE-IUL	2019
13	Luís Gustavo Sardinha Henriques Sales Delgado	ISO/IEC 20000 Maturity Model	English	ISCTE-IUL	2018
14	Katia Isabelle Palmar Duarte	Limitations in the Support to Modularity in MATLAB: a Survey-based Empirical Study	English	FCT / Universidade Nova de Lisboa	2017
15	Hugo Miguel Salva Barona	Checking and Improving Business Process Models in BPMN2	English	ISCTE-IUL	2016
16	Luis Miguel Pires Teixeira da Silva	Model-driven generative programming for BIS mobile applications	English	ISCTE-IUL	2014
17	Marco André Marques Roque	Animation of BPMN Business Processes Models	English	ISCTE-IUL	2014
18	Pedro Janeiro Coimbra	An eclipse plugin for metamodel driven measurement	English	ISCTE-IUL	2013
19	Tiago Alexandre Simões Pessoa	A Semi-automatic Approach to Code Smells Detection	English	FCT / Universidade Nova de Lisboa	2011



20	Raquel Helena de Bragança Vasconcelos da Porciúncula	Governança e Modelação de Processos de TI	Portuguese	FCT / Universidade Nova de Lisboa	2010
21	José Carlos Gonçalves Costa	MGPSI – Metodologia de Gestão de Projectos Aplicada ao Desenvolvimento de Sistemas de Informação	Portuguese	FCT / Universidade Nova de Lisboa	2010
22	Jorge Manuel da Silva Carneiro Praça Freitas	Metamodelação de Processos e Serviços	Portuguese	FCT / Universidade Nova de Lisboa	2010
23	José Américo Alves Sustelo Rio	Modelo Automático de Qualidade para Sítios Web	Portuguese	FCT / Universidade Nova de Lisboa	2010
24	João Carlos Palmela Pinheiro Caldeira	Information Technology Service Management: An Experimental Approach Towards IT Service Prediction	English	FCT / Universidade Nova de Lisboa	2009
25	Fernando Sérgio Bryton Dias Marques	Modularity Improvements with Aspect-Oriented Programming	English	FCT / Universidade Nova de Lisboa	2008
26	Luís Alexandre Ferreira da Silva	Assessment of IT Infrastructures: A Model Driven Approach	English	FCT / Universidade Nova de Lisboa	2008
27	Filipa Pires Duarte da Silva	Recuperação Automática da Modelação Comportamental com Aplicações ao Ensaio Baseado em Modelos	Portuguese	FCT / Universidade Nova de Lisboa	2008
28	Victor Emanuel Gomes Gouveia	Cenários Visuais: Rastreamento de Requisitos, Documentação e Animação para Sistemas Legados	Portuguese	FCT / Universidade Nova de Lisboa	2008
29	Aline Lúcia Baroni	Formal Definition of Object Oriented Design Metrics	English	Vrije Universiteit Brussel (VUB)	2002

## • M.Sc. Final Projects

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Elton Santos Vianna	Contribuição da Gestão Ágil para Projectos de Software: Um estudo empírico em portais de notícias do Brasil	Portuguese	ISCTE-IUL	2013

## Total Citations

Web of Science®

463

## Publications

### • Scientific Journals

#### - Scientific journal paper

1	Rio, A. & Brito e Abreu, F. (2023). PHP code smells in web apps: Evolution, survival and anomalies. <i>Journal of Systems and Software</i> . 200 - Times Cited Scopus: 2 - Times Cited Google Scholar: 7
2	Reis, J., Brito e Abreu, F. & Figueiredo Carneiro, G. (2022). Crowdsmeiling: A preliminary study on using collective knowledge in code smells detection. <i>Empirical Software Engineering</i> . 27 (3) - Times Cited Web of Science®: 4 - Times Cited Scopus: 7 - Times Cited Google Scholar: 7
3	Pereira dos Reis, J., Brito e Abreu, F., Carneiro, G. & Anslow, C. (2022). Code smells detection and visualization: A systematic literature review. <i>Archives of Computational Methods in Engineering</i> . 29, 47-94 - Times Cited Web of Science®: 17 - Times Cited Scopus: 24 - Times Cited Google Scholar: 50
4	Caldeira, J., Brito e Abreu, F., Cardoso, J. & Reis, J. (2022). Unveiling process insights from refactoring practices. <i>Computer Standards and Interfaces</i> . 81 - Times Cited Web of Science®: 3 - Times Cited Scopus: 5 - Times Cited Google Scholar: 11
5	da Silva, A. C. B. G., Carneiro, G. F., Brito e Abreu, F. & Monteiro, M. P. (2017). Frequent releases in open source software: a systematic review. <i>Information</i> . 8 (3) - Times Cited Web of Science®: 3 - Times Cited Scopus: 5 - Times Cited Google Scholar: 9
6	Vianna, E., Silveira, G. & Brito e Abreu, F. (2014). Avaliação empírica do sucesso da utilização da gestão ágil de projetos no desenvolvimento de software em portais de notícias do Brasil. <i>Revista de Sistemas e Computação</i> . 4 (1 ), 59-75
7	Calero, C., Ruiz, F., Baroni, A., Brito e Abreu, F. & Piattini, M. (2006). An ontological approach to describe the SQL:2003 object-relational features. <i>Computer Standards and Interfaces</i> . 28 (6 ), 695-713 - Times Cited Web of Science®: 9 - Times Cited Scopus: 17 - Times Cited Google Scholar: 56
8	Goulão, M. & Brito e Abreu, F. (2005). Validação cruzada de métricas para componentes de software. <i>IEEE Latin America Transactions</i> . 3 (1 ), 127-136 - Times Cited Scopus: 4 - Times Cited Google Scholar: 5

9	Sousa, P., Pedro-de-Jesus, L., Pereira, G. & Brito e Abreu, F. (2002). Clustering relations into abstract ER schemas for database reverse engineering. <i>Science of Computer Programming</i> . 45 (2-3), 137-153 - Times Cited Web of Science®: 1 - Times Cited Scopus: 6 - Times Cited Google Scholar: 23
10	Brito e Abreu, F. & Goulão, M. (2001). A merit factor driven approach to the modularization of object-oriented systems. <i>L'Objet</i> . 7 ( 4 ), 455-476 - Times Cited Google Scholar: 11
11	Brito e Abreu, F. (1999). Qualidade do produto e do processo em engenharia de software. <i>Qualirama</i> . 53
12	Goulão, M., Monteiro, A. S., Brito e Abreu, F. & de Almeida, A. B. (1998). Controlo da evolução de sistemas legados. <i>Revista da Associação Portuguesa de Sistemas de Informação</i> . 9 , 7-18
13	Ribeiro, N. P., de Almeida, A. B., Brito e Abreu, F. & Sousa, P. (1998). Levantamento de modelos de dados em sistemas legados. <i>Revista da Associação Portuguesa de Sistemas de Informação</i> . 9, 19-28
14	Brito e Abreu, F. (1998). Normalização de Métricas de Software: uma Introdução. <i>Interface</i> . Julho 1998 (9), 1-9
15	Brito e Abreu, F. (1998). Do Ada COCOMO ao COCOMO 2. <i>Interface</i> . Maio 1998 (7), 1-9
16	Brito e Abreu, F. (1998). Métricas que fizeram história: Complexidade Estrutural. <i>Interface</i> . Janeiro 1998 (3), 1-7
17	Brito e Abreu, F. (1998). Pontos de Função: uma história de sucesso?. <i>Interface</i> . Fevereiro 1998 (4), 1-8
18	Brito e Abreu, F. (1998). Pontos de Função: pistas e variantes. <i>Interface</i> . Março 1998 (5), 1-8
19	Brito e Abreu, F. (1998). Modelo COCOMO: das origens à actualidade. <i>Interface</i> . Abril 1998 (6), 1-10
20	Brito e Abreu, F. (1998). Normalização de Métricas de Software: a norma ISO9126 - Características e Métricas de Qualidade do Software. <i>Interface</i> . Outubro 1998 (11), 1-11
21	Brito e Abreu, F. (1997). Pedagogical Patterns: Picking Up the Design Patterns Approach. <i>Object Expert</i> . 2 (3), 37-41 - Times Cited Google Scholar: 8
22	Brito e Abreu, F. (1997). Métricas que fizeram história: Dimensão e Complexidade Textual. <i>Interface</i> . Dezembro 1997 (2), 1-6
23	Brito e Abreu, F. (1997). Métricas de Software: as Bodas de Prata. <i>Interface</i> . Novembro 1997 (1), 1-7
24	Brito e Abreu, F. (1995). Métodos quantitativos na gestão de projectos que usam o paradigma da orientação a objectos . <i>Revista da Associação Portuguesa de Sistemas de Informação</i> . 3 , 47-62
25	Brito e Abreu, F. & Carapuça, R. (1994). Candidate metrics for object-oriented software within a taxonomy framework. <i>Journal of Systems and Software</i> . 26 ( 1 ), 87-96 - Times Cited Web of Science®: 80 - Times Cited Google Scholar: 286

1	<p>Shepperd, Martin, Brito e Abreu, F. &amp; Pérez-Castillo, Ricardo (2022). Special issue on information systems quality management in practice. <i>Software Quality Journal</i>. N/A</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> <li>- Times Cited Scopus: 3</li> <li>- Times Cited Google Scholar: 3</li> </ul>
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**- Review article**

1	<p>Caldeira, J., Brito e Abreu, F., Cardoso, J., Simões, R., Oliveira, T. C. &amp; Reis, J. (2023). Software development analytics in practice: A systematic literature review. <i>Archives of Computational Methods in Engineering</i>. 30 (3), 2041-2080</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 1</li> </ul>
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**• Books and Book Chapters**

**- Book author**

1	<p>Brito e Abreu, F., Mario Piattini, Geert Poels &amp; Houari A. Sahraoui (2004). <i>Quantitative approaches in object-oriented software engineering</i>. Heidelberg, Germany. Springer. Frank Buschmann; Alejandro P. Buchmann; Mariano Cilia (Ed.).</p> <ul style="list-style-type: none"> <li>- Times Cited Google Scholar: 44</li> </ul>
2	<p>Brito e Abreu, F., Geert Poels, Houari A. Sahraoui &amp; Horst Zuse (2001). <i>L'Objet</i>.</p>

**- Book chapter**

1	<p>Portugal, C., Vaz, David, Dias, J., Trocado, P., Prata, A. &amp; Brito e Abreu, F. (2024). Enhancing the Visitor Experience with Immersive Technologies and Gaming: the Monserrate Use Case. In Elena Kornyshova, Rébecca Deneckère, Eric Gressier-Soudan, John Murray, Sjaak Brinkkemper (Ed.), <i>Smart Life and Smart Life Engineering: Current State and Future Vision</i>. (pp. 1-15): Springer Nature.</p>
2	<p>Galvão, A., Brito e Abreu, F. &amp; Joanaz de Melo, J. (2024). Towards a Consensual Definition for Smart Tourism and Smart Tourism Tools. In Elena Kornyshova, Rébecca Deneckère, Eric Gressier-Soudan, John Murray, Sjaak Brinkkemper (Ed.), <i>Smart Life and Smart Life Engineering: Current State and Future Vision</i>. (pp. 1-20): Springer Nature.</p>
3	<p>Mestre Santos, T., Marinheiro, R. N. &amp; Brito e Abreu, F. (2024). Wireless Crowd Detection for Smart Overtourism Mitigation. In Elena Kornyshova, Rébecca Deneckère, Eric Gressier-Soudan, John Murray, Sjaak Brinkkemper (Ed.), <i>Smart Life and Smart Life Engineering: Current State and Future Vision</i>. (pp. 1-21): Springer Nature.</p> <ul style="list-style-type: none"> <li>- Times Cited Google Scholar: 1</li> </ul>
4	<p>O'Neill, H., Langaro, D., Brito e Abreu, F., Almeida, F., Farinha, J., Domingues, L....Basto-Fernandes, V. (2023). COURSERA@Iscte 2021/22: Uma experiência de utilização de cursos online na formação presencial. In Joana Alexandre, Alexandra Almeida, Ana Espírito-Santo, Ana Lúcia Martins, Cecília Aguiar, Nádia Simões (Ed.), <i>Exemplos de práticas pedagógicas e estratégias de inovação pedagógica no Iscte</i>. (pp. 64-92). Lisboa: Iscte - Instituto Universitário de Lisboa.</p>

5	O'Neill, Henrique, Langaro, D., Brito e Abreu, F., Almeida, F., Farinha, J., Domingues, L...Vitor Basto-Fernandes (2023). Coursera@Iscte 2021/22 - uma experiência de utilização de cursos online na formação presencial. In Alexandre, J., Almeida, A., Espírito-Santo, A., Martins, A., Aguiar, C. & Simões, N. (Ed.), Exemplos de Práticas Pedagógicas e Estratégias de Inovação Pedagógica no Iscte. (pp. 64-92). Lisboa: Iscte - Instituto Universitário de Lisboa.
6	Correia, A. & Brito e Abreu, F. (2020). Enhancing the correctness of BPMN models. In Information Resources Management Association (Ed.), Sustainable business: Concepts, methodologies, tools, and applications. (pp. 373-394). Hershey: IGI Global. - Times Cited Scopus: 4 - Times Cited Google Scholar: 8
7	Marco Roque & Brito e Abreu, F. (2013). A Survey of Tool Support for the Animation of IT Services Process Models Execution. In João Falcão e Cunha, Mehdi Snene, Henriqueta Nóvoa (Ed.), Exploring Services Science. (pp. 230-245). Berlin / Germany: Springer-Verlag.
8	Correia, Anacleto Cortez e & Brito e Abreu, Fernando (2010). Model-Driven Service Level Management. In Stiller, Burkhard; De Turck, Filip (Ed.), Mechanisms for Autonomous Infrastructure, Management and Security. (pp. 85-88). Zurich, Switzerland: Springer-Verlag. - Times Cited Web of Science®: 3 - Times Cited Scopus: 2 - Times Cited Google Scholar: 8
9	Goulão, Miguel & Brito e Abreu, F. (2008). An overview of metrics-based approaches to support software components reusability assessment. In G. Vijay (Ed.), Software Quality Measurement. (pp. 174-202). Hyderabad, India: ICFAI University Press. - Times Cited Google Scholar: 9
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## • Conferences/Workshops and Talks

### - Publication in conference proceedings

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46	Brito e Abreu, F. & Sérgio Bryton (2010). An Empirical Study on Refactoring Objects to Aspects. 13th Workshop on Quantitative Approaches in Object Oriented Software Engineering (QAOOSE'2010). 1, 1-12
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48	Ferreira da Silva, Luís & Brito e Abreu, F. (2010). Software Distribution to Remote Locations. 15th European Conference on Pattern Languages of Programs (EuroPLoP'2010). 1, 20:1-20:4
49	Brito e Abreu, F., Raquel Porciúncula, Jorge Freitas & José Carlos Costa (2010). Definition and Validation of Complexity Metrics for ITSM Process Models. 7th International Conference on the Quality of Information and Communications Technology (QUATIC'2010). 1, 79-88
50	Sérgio Bryton & Brito e Abreu, F. (2010). Reducing subjectivity in code smells detection: Experimenting with the Long Method. 7th International Conference on the Quality of Information and Communications Technology (QUATIC'2010). 1, 337-342
51	Correia, Anacleto & Brito e Abreu, F. (2010). Defining and Observing the Compliance of Service Level Agreements: A Model Driven Approach. 7th International Conference on the Quality of Information and Communications Technology (QUATIC'2010). 1, 165-170
52	Ferreira da Silva, Luís & Brito e Abreu, F. (2010). Reengineering IT infrastructures: A method for topology discovery. 7th International Conference on the Quality of Information and Communications Technology (QUATIC'2010). 1, 331-336
53	Ferreira da Silva, Luís & Brito e Abreu, F. (2010). An IT Infrastructure Patterns Approach to Improve IT Service Management Quality. 7th International Conference on the Quality of Information and Communications Technology (QUATIC'2010). 1, 171-176
54	Ferreira da Silva, Luís & Brito e Abreu, F. (2009). Exploring and Overcoming Major Challenges in IT Infrastructures Faced by IT Executives. Fourth International Conference on Software Engineering Advances (ICSEA 2009). 576-581
55	João Caldeira & Brito e Abreu, Fernando (2008). Influential Factors on Incident Management: Lessons Learned from a Large Sample of Products in Operation. Product Focused Software Process Improvement. 5089, 330-344

56	Bryton, Sérgio & Brito e Abreu, F. (2007). Towards Paradigm-Independent Software Assessment. 6th International Conference on the Quality of Information and Communications Technology (QUATIC'2007). 1, 40-54 - Times Cited Scopus: 5
57	Goulão, Miguel & Brito e Abreu, F. (2007). Modeling the Experimental Software Engineering Process. 6th International Conference on the Quality of Information and Communications Technology (QUATIC'2007). 1, 77-90 - Times Cited Scopus: 7
58	Aline Baroni, Coral Calero, Brito e Abreu, F. & Mario Piattini (2006). Object-Relational Database Metrics Formalization. Sixth International Conference on Quality Software (QSIC'2006). 1, 30-37
59	Goulão, Miguel & Brito e Abreu, F. (2006). On the Influence of Practitioners' Expertise in Component-Based Software Reviews. 10th ECOOP Workshop on Quantitative Approaches in Object-Oriented Software Engineering (QAOOSE'2006). 1-10
60	Aline Baroni, Coral Calero, Mario Piattini & Brito e Abreu, F. (2005). A Formal Definition for Object-Relational Database Metrics. 7th International Conference on Enterprise Information Systems (ICEIS'2005). 1, 334-339
61	Goulão, Miguel & Brito e Abreu, F. (2005). Composition Assessment Metrics for CBSE. 31st Euromicro Conference on Software Engineering and Advanced Applications (SEAA'2005). 96-103
62	Goulão, Miguel & Brito e Abreu, F. (2002). The Quest for Software Components Quality. 26th International Computer Software and Applications Conference (COMPSAC'2002). 313-318
63	Goulão, Miguel & Brito e Abreu, F. (2002). From Objects to Components - A Quantitative Experiment. International Workshop on Quantitative Approaches in Object-Oriented Software Engineering (QAOOSE'2002). 1-12
64	Brito e Abreu, F. & Goulão, Miguel (2001). Coupling and Cohesion as Modularization Drivers: Are we being over-persuaded?. 5th European Conference on Software Maintenance and Reengineering (CSMR'2001). 47-57 - Times Cited Web of Science®: 32 - Times Cited Google Scholar: 5
65	António Silva Monteiro, Goulão, Miguel, Brito e Abreu, F., Alberto Bigotte de Almeida & Pedro Sousa (1999). Software Defect Report and Tracking System in the Internet: Controlling the Evolution of Legacy Systems. 6th European Conference on Software Quality. 1-11
66	Brito e Abreu, F., Luis Ochoa & Goulão, Miguel (1999). The GOODLY Design Language for MOOD2 Metrics Collection. International Workshop on Quantitative Approaches in Object-Oriented Software Engineering (QAOOSE'99). 1-17
67	Brito e Abreu, F. & Goulão, Miguel (1999). Designing and Coding Object-Oriented Systems: An Introductory Course Experience Report. Workshop on Introducing OO Design and Programming with Special Emphasis on Concrete Examples. 1-15
68	Brito e Abreu, F. (1997). Quantitative Methods in Object-Oriented Software Engineering. ICSE'97 Doctoral Symposium. 1-6
69	Brito e Abreu, F. & Walcelio Melo (1996). Evaluating the impact of object-oriented design on software quality. International Software Metrics Symposium, Proceedings. - Times Cited Web of Science®: 88 - Times Cited Scopus: 188

70	Brito e Abreu, F. & Walcelio Melo (1996). Evaluating the Impact of Object-Oriented Design on Software Quality. 3rd International Software Metrics Symposium (METRICS'96). 90-99 - Times Cited Google Scholar: 443
71	Brito e Abreu, F. (1995). Design Metrics for Object-Oriented Software Systems. 7th ERCIM Database Research Group Workshop on Object Oriented Databases. 95/W001, 1-5 - Times Cited Google Scholar: 1
72	Brito e Abreu, F. & António Pina (1994). Organizações e Iniciativas Nacionais e Internacionais em Pro da Qualidade no Software. 1st International Conference on the Quality of Information and Communications Technology (QUATIC'94). 3-20
73	Brito e Abreu, F. & Rogério Carapuça (1994). Object-Oriented Software Engineering: Measuring and Controlling the Development Process. 4th International Conference on Software Quality. 1-8

## • Other Publications

### - Entries/Forewords/Afterwords

1	Sheila S. Reinehr & Brito e Abreu, F. (2016). Foreword of the Thematic Track on Quality Aspects in Software Engineering using Evidence-Based Approaches. Proceedings of the 10th International Conference on the Quality of Information and Communications Technology (QUATIC'2016). 1, 164-165
2	Guilherme Travassos & Brito e Abreu, F. (2014). Foreword of the Thematic Track: Evidence-Based Software Quality Engineering. Proceedings of the 9th International Conference on the Quality of Information and Communications Technology (QUATIC'2014). 1, 234-235
3	Ricardo Jorge Machado, Goulão, Miguel, Brito e Abreu, F. & João Pascoal Faria (2014). Introduction to Special Issue: Quality in Information and Communications Technology. Innovations in Systems and Software Engineering. 10, 1-2 - Times Cited Scopus: 3 - Times Cited Google Scholar: 2
4	Brito e Abreu, F. & Goulão, Miguel (2010). QUATIC'2010: Message from the Program Chairs. Proceedings of the 7th International Conference on the Quality of Information and Communications Technology (QUATIC'2010). xii-xiii
5	Ricardo J. Machado & Brito e Abreu, F. (2007). QUATIC 2007: Message from the Conference Chairs. Proceedings of the 6th International Conference on the Quality of Information and Communications Technology (QUATIC'2007). viii-ix
6	Brito e Abreu, F., Geert Poels, Houari A. Sahraoui & Horst Zuse (2001). Editorial of Issue 4/2001: Quantitative Approaches in Object-Oriented Software Engineering. L'Objet. 7, 425-427
7	Brito e Abreu, F. (1995). Software Quality: The Tip and the Iceberg (editorial). ERCIM News. 23, 1-2

### - Working Papers

1	Rio, J., Brito e Abreu, F. & Mendes, D. A. (2023). Causal inference of server- and client-side code smells in web apps evolution. Causal inference of server- and client-side code smells in web apps evolution.
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2	<p>Brito e Abreu, F. (2001). Using OCL to formalize object oriented metrics definitions. Using OCL to formalize object oriented metrics definitions. 1-39</p> <p>- Times Cited Google Scholar: 63</p>
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### - Non-peer-reviewed papers

1	<p>Amaral, Vasco &amp; Brito e Abreu, F. (2023). CS/03: 30 anos ao serviço das Tecnologias da Informação e Comunicações. EspaçoQ. 193, 7-11</p>
2	<p>Brito e Abreu, F. &amp; Sampaio de Almeida, D. (2021). Capacidade de Carga e Tempo de Evacuação para Eventos nos Espaços Públicos das Cidades. IntelCities. 2021 (Abril), 1-4</p> <p>- Times Cited Google Scholar: 2</p>

### - Other publications

1	<p>Vianna, E., Gutenberg Silveira &amp; Brito e Abreu, F. (2014). Avaliação empírica do sucesso da utilização da gestão ágil de projetos no desenvolvimento de software em portais de notícias do Brasil. As abordagens ágeis vêm conquistando cada vez mais praticantes, mas as evidências sobre a real contribuição dessas abordagens para o sucesso dos projetos ainda são escassas. Este artigo corrobora a existência de fatores ágeis contribuintes para o sucesso de projetos de software, por meio de uma pesquisa de campo, de natureza descritiva e quantitativa, com teste de hipóteses. Foi aplicado um questi.</p>
2	<p>Brito e Abreu, F., Raquel Porciúncula, José Carlos Costa &amp; Jorge Freitas (2010). Definition and Validation of Complexity Metrics for ITSM Process Models. 7th International Conference on the Quality of Information and Communications Technology (QUATIC'2010). 1, 79-88</p> <p>- Times Cited Web of Science®: 4</p> <p>- Times Cited Scopus: 5</p> <p>- Times Cited Google Scholar: 11</p>
3	<p>Brito e Abreu, F. (2007). Proceedings of QUATIC'2007. 6th International Conference on the Quality of Information and Communications Technology (QUATIC'2007). 1</p>
4	<p>Sérgio Bryton &amp; Brito e Abreu, F. (2007). Towards Paradigm-Independent Software Assessment. 6th International Conference on the Quality of Information and Communications Technology (QUATIC'2007). 1, 40-54</p> <p>- Times Cited Web of Science®: 3</p> <p>- Times Cited Scopus: 3</p> <p>- Times Cited Google Scholar: 12</p>
5	<p>Sérgio Bryton &amp; Brito e Abreu, F. (2007). Towards paradigm-independent software assessment.</p> <p>- Times Cited Web of Science®: 2</p>
6	<p>António Silva Monteiro, Goulão, Miguel, Brito e Abreu, F., Alberto Bigotte de Almeida &amp; Pedro Sousa (1999). A Software Defect Report and Tracking System in an Intranet. Third European Conference on Software Maintenance and Reengineering (CSMR'99). 198-201</p> <p>- Times Cited Web of Science®: 4</p> <p>- Times Cited Google Scholar: 5</p>
7	<p>Pedro Sousa, Lurdes Pedro-de-Jesus, Gonçalo Pereira &amp; Brito e Abreu, F. (1999). Clustering Relations into Abstract ER Schemas for Database Reverse Engineering. 3rd European Conference on Software Maintenance and Reengineering (CSMR'99).</p> <p>- Times Cited Web of Science®: 3</p> <p>- Times Cited Scopus: 9</p>

### - Paper in press

1	Caldeira, J., Brito e Abreu, F., Cardoso, J., Ribeiro, R. & Werner, C. (2021). Profiling software developers with process mining and N-Gram language models. Computing Research Repository (CoRR). 1-41 - Times Cited Google Scholar: 1
2	Caldeira, J., Brito e Abreu, F., Cardoso, J. & Oliveira, T. C. (2021). Software development analytics in practice: A systematic literature review. Computing Research Repository (CoRR). 1-79 - Times Cited Google Scholar: 1
3	Rio, J. & Brito e Abreu, F. (2021). PHP code smells in web apps: survival and anomalies. Computing Research Repository (CoRR). 2101 (00090), 1-33

### - Report

1	Mestre Santos, T., Marinheiro, R. N. & Brito e Abreu, F. (2023). D3.5 - Toolkit for implementing tourism crowd detection solutions.
2	Brito e Abreu, F., Luis Ochoa & Goulão, Miguel (1997). The GOODLY Design Language for MOOD2 Metrics Collection. The GOODLY Design Language for MOOD2 Metrics Collection. 1-18

## Research Projects

Project Title	Role in Project	Partners	Period
Relaunching European smart and Sustainable Tourism models Through digitalization and INnovative technologies	Local Coordinator	ISTAR-Iscte, BRU-Iscte, IT-Iscte, EURECAT - Leader (Spain), TICSUD - (Spain), FEHT-Turism - (Spain), - - (Italy), ANHER - (Greece), Albanian Trip - (Albania), AUDAX - (Portugal)	2022 - 2024
2022	Data Science for non-programmers	Local Coordinator	ISTAR-Iscte (SSE)
2019	2019	Sustainability and authenticity in the tourism offer	Global Coordinator

## Academic Management Positions

Membro (Docente) (2019 - 2020) Unit/Area: Plenário do Conselho Científico
Director (2018 - 2020) Unit/Area: [039] Computer Science and Business Management
Membro (Docente) (2017 - 2019) Unit/Area: Plenário do Conselho Científico



Director (2016 - 2018)  
Unit/Area: [039] Computer Science and Business Management

## Awards

Best poster: "Building a European smart tourism tools observatory", International Posters and Demos Workshop on Smart Tourism, Lisbon (2023)

Best demo: "Geo-temporal crowding visualization in Lisbon", International Posters and Demos Workshop on Smart Tourism, Lisbon (2023)

Best paper: "SLALOM: a Language for SLA Specification and Monitoring", INFORUM'2011 conference (Model Driven Engineering track), Porto (2011)

Best poster: "Strengthening Refactoring: Towards Software Evolution with Quantitative and Experimental Grounds", ICSEA'2009 Conference (SEDES'2009), Porto (2009)

Best paper on software metrics (János Szentcs Awar): "Software Defect Report and Tracking System in the Internet: Controlling the Evolution of Legacy Systems", 6th European Conference on Software Quality, Vienna, Austria (1999)

## Professional Associations

Technical Committee 2 (TC2 - Software: Theory and Practice), International Federation for Information Processing (IFIP) (Since 2010)

Software Group, European Organization for Quality (EOQ) (1999 - 2008)

CT128 – Comissão Técnica de Engenharia de Software e Sistemas de Informação, Instituto de Informática, Ministério das Finanças (1999 - 2009)

Sub-Committee 7 (Software and System Engineering), JTC1 (Joint Technical Committee 1), WG6 (Evaluation and Metrics) e WG10 (Process Assessment), ISO (1996 - 1999)

CS/03 – Comissão Sectorial para a Qualidade nas Tecnologias de Informação e Comunicações, Instituto Português da Qualidade (IPQ) (Since 1995)

## Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event committee	22ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2022)	APSI	2022
Member of scientific event committee	13th International Conference on ENTERprise Information Systems (CENTERIS'2021)	SCIKA	2021
Member of scientific event committee	12th Brazilian Conference on Software: Theory and Practice (CBSOft 2021)	SBC	2021
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	Evidence-Based Software Quality Engineering (EBSQE) @ QUATIC'2021	CS03 / Springer	2021

Member of scientific event committee	Experience reports & Industry Talks @ Joint 15th International Conference on Software and System Processes (ICSSP) and 16th ACM/IEEE International Conference on Global Software Engineering (ICGSE)	International Software and Systems Process Association (ISSPA)	2021
Member of scientific event committee	Software Engineering Track @ 18th International Conference on Information Technology: New Generations (ITNG 2021)	Premier Hall for Advancing Science and Engineering (PHASE)	2021
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	13th International Conference on the Quality of Information and Communications Technology (QUATIC'2020)	CS03 / Springer	2020
Member of scientific event committee	Software Engineering Track (SET) of the 23rd Iberoamerican Conference on Software Engineering (CibSE 2020)	CAPES / CNPQ	2020
Member of scientific event committee	Software Engineering Track @ 17th International Conference on Information Technology: New Generations (ITNG 2020)	Premier Hall for Advancing Science and Engineering (PHASE)	2020
Member of scientific event committee	Software Engineering Track @ 17th International Conference on Information Technology: New Generations (ITNG 2020)	Premier Hall for Advancing Science and Engineering (PHASE)	2020
Member of scientific event committee	Fourteenth International Conference on Software Engineering Advances (ICSEA 2019)	IARIA	2019
Coordination of scientific event (with scientific committee) at ISCTE-IUL	ISTAR/COPPE Workshop on Software Engineering	ISTAR/COPPE	2019
Member of scientific event committee	Software Engineering Track (SET 2019) of the 22nd Iberoamerican Conference on SoftwareEngineering (CibSE 2019)	Universidad de Habana	2019
Member of scientific event committee	Software Engineering Track @ 16th International Conference on Information Technology: New Generations (ITNG 2019)	Premier Hall for Advancing Science and Engineering (PHASE)	2019
Member of scientific event committee	10th International Conference on ENTERprise Information Systems (CENTERIS'2018)	SCIKA	2018
Member of scientific event committee	Thirteenth International Conference on Software Engineering Advances (ICSEA 2018)	IARIA	2018
Member of scientific event committee	18ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2018)	APSI	2018
Member of scientific event committee	Software Engineering Track (SET 2018) of the 21st Iberoamerican Conference on SoftwareEngineering (CibSE 2018)	UNIANDES	2018
Member of scientific event committee	Software Engineering Track @ 15th International Conference on Information Technology: New Generations (ITNG 2018)	Premier Hall for Advancing Science and Engineering (PHASE)	2018
Member of scientific event committee	Twelfth International Conference on Software Engineering Advances (ICSEA 2017)	IARIA	2017
Member of scientific event committee	12th Iberian Conference on Information Systems and Technologies (CISTI'2017)	AISTI	2017

Member of scientific event committee	Software Engineering Track (SET 2017) of the 20th Iberoamerican Conference on SoftwareEngineering (CibSE 2017)	Universidad Nacional de La Matanza (UNLaM)	2017
Member of scientific event committee	Software Engineering Track @ 14th International Conference on Information Technology: New Generations (ITNG 2017)	Premier Hall for Advancing Science and Engineering (PHASE)	2017
Member of scientific event committee	5th International Conference on Model-Driven Engineering and Software Development (MODELSWARD'2017)	INSTICC	2017
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	MODELSWARD 2016 Doctoral Consortium	INSTICC	2016
Member of scientific event committee	Eleventh International Conference on Software Engineering Advances (ICSEA'2016)	IARIA	2016
Member of scientific event committee	Software Engineering Track @ 13th International Conference on Information Technology: New Generations (ITNG 2016)	Premier Hall for Advancing Science and Engineering (PHASE)	2016
Member of scientific event committee	Software Engineering Track (SET 2016) @ 19th Ibero American Conference on Software Engineering (CibSE 2016)	Sociedade Brasileira de Computação (SBC)	2016
Member of scientific event committee	3rd World Conference on Complex Systems (WCCS'15)	Moroccan Society of Complex Systems	2015
Member of scientific event committee	15ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2015)	APSI	2015
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	IC3K 2015 Doctoral Consortium	INSTICC	2015
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	MODELSWARD 2015 Doctoral Consortium	INSTICC	2015
Member of scientific event committee	Software Engineering Track @ 12th International Conference on Information Technology: New Generations (ITNG 2015)	Premier Hall for Advancing Science and Engineering (PHASE)	2015
Member of scientific event committee	WAMPS'2015 - XI Workshop Anual do MPS.BR	SOFTEX	2015
Member of scientific event committee	Software Engineering Track (SET'2015) @ XVIII Iberoamerican Conference on Software Engineering (CibSE'2015)	Sociedade Brasileira de Computação (SBC)	2015
Member of scientific event committee	1st International Workshop on Human Factors in Modeling (HuFaMo 2015) @MODELS'2015 Conference	ACM/IEEE	2015
Member of scientific event committee	18th IEEE International Conference on Computational Science and Engineering (CSE2015)	IEEE	2015
Member of scientific event committee	Tenth International Conference on Software Engineering Advances (ICSEA'2015)	IARIA	2015
Member of scientific event committee	2nd World Conference on Complex System (WCCS'14)	Moroccan Society of Complex Systems	2014

Member of scientific event committee	Ninth International Conference on Software Engineering Advances (ICSEA'2014)	IARIA	2014
Member of scientific event committee	9th International Conference on the Quality of Information and Communications Technology (QUATIC'2014)	CS03 / IEEE Computer Society	2014
Member of scientific event committee	17th International Conference on Model Driven Engineering Languages and Systems (MODELS'2014)	ACM/IEEE	2014
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	11º Workshop Anual do QUASAR	QUASAR Research Group	2014
Member of scientific event committee	IV Conferência CMMI Portugal 2014	CMMI Portugal	2014
Member of scientific event committee	14ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2014)	Associação Portuguesa de Sistemas de Informação	2014
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	Evidence-Based Software Quality Engineering @ QUATIC'2014	CS03 / IEEE Computer Society	2014
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	Doctoral Consortium @ 2nd International Conference on Model-Driven Engineering and Software Development (MODELSWARD'2014)	INSTICC	2014
Member of scientific event committee	WAMPS'2014 - X Workshop Anual do MPS.BR	SOFTEX	2014
Member of scientific event committee	Doctoral Workshop @ 25th IFIP International Conference on Testing Software and Systems (ICTSS'2013)	IFIP	2013
Member of scientific event committee	WAMPS'2013 - IX Workshop Anual do MPS.BR	SOFTEX	2013
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	1st SUWMIAC - Summer Workshop Microsoft-ISCTE IUL on Applied Computing	ISTAR / Microsoft	2013
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	10º Workshop Anual do QUASAR	QUASAR Research Group	2013
Member of scientific event committee	16th International Conference on Model Driven Engineering Languages and Systems (MODELS'2013)	ACM/IEEE	2013
Member of scientific event committee	12nd Brazilian Symposium on Software Quality (SBQS'2013)	Sociedade Brasileira de Computação (SBC)	2013
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	III Conferência CMMI Portugal 2013	CMMI Portugal	2013
Member of scientific event committee	13ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2013)	Associação Portuguesa de Sistemas de Informação	2013
Member of scientific event committee	1st International IBM Cloud Academy Conference (ICA CON 2012)	IBM	2012

Member of scientific event committee	IX Experimental Software Engineering Latin American Workshop (ESELAW'2012), co-located with ClbSE'2012	Sociedade Brasileira de Computação (SBC)	2012
Member of scientific event committee	12ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2012)	Associação Portuguesa de Sistemas de Informação	2012
Member of scientific event committee	WAMPS'2012 - VIII Workshop Anual do MPS.BR	SOFTEx	2012
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	SEDES'2012 (Simpósio de Estudantes de Doutoramento em Engenharia de Software)	Instituto Superior Técnico / UTL	2012
Member of scientific event committee	INForum 2012 - 4º Fórum Nacional na Área da Informática	FCT/UNL	2012
Member of scientific event committee	12th International PROFES (Product Focused Software Development and Process Improvement) conference	Springer	2011
Member of scientific event committee	10th Brazilian Symposium on Software Quality (SBQS 2011)	Sociedade Brasileira de Computação (SBC)	2011
Member of scientific event committee	14th International Symposium on Component Based Software Engineering (CBSE'2011)	ACM SIGSOFT	2011
Member of scientific event committee	VIII Experimental Software Engineering Latin American Workshop (ESELAW'2011)	Sociedade Brasileira de Computação (SBC)	2011
Member of scientific event committee	11ª Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI'2011)	Associação Portuguesa de Sistemas de Informação	2011
Member of scientific event committee	3º Fórum Nacional na Área da Informática (INForum 2011)	Universidade de Coimbra	2011

## Diffusion Activities

Activity Type	Event Title	Activity Description	Year
Coordination of knowledge diffusion event	FISTA'2020	Organizing and conducting the workshop "Introduction to business process modeling with BPMN"	2020
Coordination of knowledge diffusion event	PYTHACON	Pythacon (contraction of Python + Hackaton) is a pedagogical event organized at Iscte, within the scope of ISTA.	2020
Talk/Conference in public diffusion event	FISTA'2019	Organizing and conducting the workshop "Introduction to business process modeling with BPMN"	2019
Talk/Conference in public diffusion event	Steptalks 2019: Software Development & Information Security	Panel Coordinator: New challenges & assessments – Industry 4.0 and CMMI v2.0	2019

Member of organizing committee of knowledge diffusion event	ISTAR-IUL Winter School 2018	Winter School (see program at <a href="https://istarwinterschool18.wordpress.com/program/">https://istarwinterschool18.wordpress.com/program/</a> )	2018
Talk/Conference in public diffusion event	FISTA'2018	Organizing and conducting the workshop "Introduction to business process modeling with BPMN"	2018
Talk/Conference in public diffusion event	10th International Conference on the Quality of Information and Communications Technology (QUATIC'2016)	Panel Coordinator: "Software Product Quality vs Software Process Quality: Who is the Winner?"	2016

## Scientific Editing/Reviewing Activities

Type of Activity	Journal Title	ISSN/Quartile	Period	Language
Scientific journal editor	Software Quality Professional	1522-0540	2014 - 2020	English

## Products

Product Type	Product Title	Detailed Description	Year
Software (Open Source)	Iscte's 50 Years Chronology Web App	Web app providing an illustrated chronology (with documents, photographs and videos) with the important events of Iscte's 50th anniversary, in parallel with national and international events.	2022
Software (Open Source)	"OCL Complexity" plugin	USE plugin to calculate the complexity of OCL expressions for the USE (UML Specification Environment) tool	2020
Software (Open Source)	"OCLhighlight" plugin for the USE (UML Specification Environment) tool	Plugin for graphical traceability of OCL expressions in the University of Bremen's UML Specification Environment (USE) tool	2019
Software (Open Source)	J-USE for Android	Model-driven Eclipse plugin for generating Android BIS apps	2013
Software (Open Source)	M2DM Tool for Java	Metamodel Driven Measurement (M2DM) Tool for Java	2012
Software (Open Source)	J-USE for Java	Java code and JUnit test cases generator, using a model-driven approach	2012