

Warning: [2024-05-20 00:58] this document is a print-out of the Ciência-iul web portal and was automatically generated at the labeled date. The document has a mere informational purpose and represents the information contained on Ciência-IUL at that date.

Carlos Coutinho

Professor Auxiliar

Department of Information Science and Technology (ISTA)

Integrated Researcher

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



Contacts

E-mail	Carlos.Eduardo.Coutinho@iscte-iul.pt
Office	D6.16
Post Box	115

Curriculum

Carlos Coutinho is Assistant Professor at Iscte-IUL, and the R&D Director at the SME Caixa Mágica Software, S.A. in Lisbon, Portugal.

He holds a Ph.D. degree in Electrical and Computer Engineering, awarded in 2013 by the NOVA University of Lisbon (FCT-NOVA), Portugal. He is responsible for the Cloud Computing area at Iscte-IUL, where he also does research, being area coordinator and Scientific Commission member at ISTAR-IUL, with interests in Enterprise Interoperability, Adaptable Platforms and Systems, SOA, and Model-Driven Engineering (MDE). He has more than twenty years of experience teaching the fields of IT at Portuguese universities ISEL, ISCAL, ISGB and Iscte-IUL. He has published 2 book chapters, 9 articles in indexed international scientific journals and more than 40 publications in peer-reviewed international conferences, and is part of the scientific committee of six journals and six yearly international conferences. He was part of the Jury and Main Examiner in the viva voce of four PhD and thirteen MSc.

He holds since 2009 a Project Management Institute PMP title and a post-graduation in Project Management by Instituto Superior Bissaya-Barreto (ISBB) in Coimbra, Portugal. He has more than 25 years of experience as an engineer in the enterprise IT area, working in several fields from ICT, Services, Public Administration and the Aerospace industry, in several multinational projects at CMS and other companies like Alcatel, Siemens and Critical Software. He participated and was the company responsible in multiple European Projects like Athena (FP6), TIMBUS (FP7), C2NET, vf-OS, EFPF (H2020), and TaRDIS (HE), and numerous ESA projects (EGOS, OCDT, SCOS-2000 and Galileo).

Research Interests

Cloud Computing

Systems Engineering

Adaptive Platforms

Service-Oriented Architectures

Operating Systems

Interoperability

Blockchain

Process Negotiation

Academic Qualifications

University/Institution	Type	Degree	Period
Universidade Nova de Lisboa Faculdade de Ciências e Tecnologia	PhD	Engenharia Eletrotécnica e de Computadores / Electrical and Computers Engineering	2013
Instituto Superior Bissaya-Barreto	Post-graduation	Gestão de Projetos	2010
Instituto Politécnico de Lisboa Instituto Superior de Engenharia de Lisboa	Licenciante	Engenharia Electrotécnica - Sistemas e Comunicações	1997
Instituto Politécnico de Lisboa Instituto Superior de Engenharia de Lisboa	Bachelor of Science	Engenharia de Sistemas das Telecomunicações e Electrónica	1994

External Professional Activities

Period	Employer	Country	Description
2015 - 2022	Caixa Mágica Software	Portugal	Chief Executive Officer
2013 - 2016	ISGB – Instituto Superior de Gestão Bancária	Portugal	
2012 - 2012	PMO-Projects	Portugal	
Since 2012	Caixa Mágica Software	Portugal	
2011 - 2012	ISCAL – Instituto Superior de Contabilidade e Administração de Lisboa	Portugal	
2005 - 2011	Critical Software	Portugal	
2005 - 2011	Critical Software	Portugal	
2004 - 2005	Portugal Telecom	Portugal	

2003 - 2004	Siemens	Portugal	
2002 - 2003	ISEL – Instituto Superior de Engenharia de Lisboa	Portugal	
1998 - 2003	Alcatel	Portugal	
1996 - 1998	Eurociber Portugal	Portugal	

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2024/2025	2º	Operating Systems	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;	Yes
2024/2025	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2024/2025	1º	Management and Information Systems in Organizations	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2023/2024	2º	Operating Systems	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;	Yes
2023/2024	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2023/2024	1º	Fundamentals of Computer Architecture	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;	No

2022/2023	2º	Operating Systems	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;	Yes
2022/2023	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2022/2023	1º	Fundamentals of Computer Architecture	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;	No
2021/2022	2º	Operating Systems	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;	Yes
2021/2022	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2021/2022	1º	Fundamentals of Computer Architecture	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;	No
2020/2021	2º	Operating Systems	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;	Yes
2020/2021	1º	Operating Systems	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;	Yes

2019/2020	2º	lot for Smart Cities	Postgraduate Seminar in IoT for Smart Cities;	No
2019/2020	2º	lot for Smart Cities + R&d Projects on Smart {cities, Buildings, Education and Health}	Postgraduate Seminar in IoT for Smart Cities + R&D Projects on Smart {Cities, Buildings, Education and Health};	No
2019/2020	2º	Digital Networks I - Fundamentals	Bachelor Degree in Telecommunications and Computer Engineering (PL);	No
2019/2020	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2019/2020	1º	Operating Systems	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;	Yes
2018/2019	2º	Digital Networks I - Fundamentals	Bachelor Degree in Telecommunications and Computer Engineering (PL);	No
2018/2019	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2018/2019	1º	Operating Systems	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;	Yes
2017/2018	2º	Data Bases in Open Source Software Environment		No
2017/2018	2º	Digital Networks I - Fundamentals	Bachelor Degree in Telecommunications and Computer Engineering (PL);	No
2017/2018	2º	Digital Networks I - Fundamentals	Bachelor Degree in Telecommunications and Computer Engineering (PL);	No
2017/2018	2º	Digital Networks I - Fundamentals	Bachelor Degree in Telecommunications and Computer Engineering (PL);	No
2017/2018	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes

2017/2018	1º	Operating Systems	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;	Yes
2016/2017	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes

Supervisions

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Domingos Garcia da Silva	Adoção de software livre e de código aberto do sector público de Angola	Portuguese	Developing	ISCTE-IUL

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	João Miguel Magalhães Garcia	Health Remote Monitor System based in Arduino	--	Developing	ISCTE-IUL
2	Bruno Sobral da Mota	Sustainable Gardens for Smart Cities using Low-Power Communications	--	Developing	ISCTE-IUL
3	Francisco Almeida Barros	The impact of graphical support on the creation of backend applications	English	Developing	ISCTE-IUL
4	Pedro Miguel Simões Neto	Cloud Security	--	Developing	ISCTE-IUL

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Antonio Lorenzo Rezende de Castro	Electronic Voting Through Blockchain: A proposed Framework	English	ISCTE-IUL	2023
2	João Duarte Silva Figueira	Developing Self-Adaptive Microservices	English	ISCTE-IUL	2023
3	Tariq Youssef Costa do Vale	Enhancing E-ID cards authentication with NFC	English	ISCTE-IUL	2023
4	Saroj Duwadi	ChatGPT recommendation system for retail shops	English	ISCTE-IUL	2023

5	Carlos Filipe Paiva da Cunha Macieira Antunes	Employment of Artificial Intelligence Mechanisms for e-Health Systems in Order to Obtain Vital Signs and Detect Diseases from Medical Images Improving the Processes of Online Consultations and Diagnosis	English	ISCTE-IUL	2022
6	Tiago José Pardal Caixeiro	Wearable devices for Health Remote Monitor System	English	ISCTE-IUL	2022
7	Pedro Miguel Moreira Filipe	IoT system for the validation of conditions in shipping couriers	English	ISCTE-IUL	2022
8	Rafael da Silva Cardoso	Remote Health Monitoring System for the Elderly based on Mobile Computing and IoT	English	ISCTE-IUL	2022
9	Octávio Viana Jesus de Sousa	Interoperability Between Information Systems Of The Results Of Clinical Analysis And Electronic Record Of The Patient	English	ISCTE-IUL	2022
10	Adriano Manuel Tomé de Almeida Figueira Batista	Project Management Tool supported by the Blockchain technology	Portuguese	Universidade Nova de Lisboa	2021
11	Hermínio Miguel Sobral Tavares	A Know Your Customer solution over the Portuguese Citizenship Card	English	FCUL - Faculdade de Ciências da Universidade de Lisboa	2019
12	Nuno Miguel Simões Teixeira	The Coexistence between Blockchain and GDPR	English	ISCTE-IUL	2019
13	Carlos Manuel Manso Pinto	From Native to Cross-platform Hybrid Development:CodeGT - Design and development of a mobile app for an ERP	English	ISCTE-IUL	2018
14	Tiago José Ministro Costa Santos	Negotiation environment to support enterprise interoperability sustainability	English	Universidade Nova de Lisboa	2013

• M.Sc. Final Projects

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Isadora Haas Hillebrand	The influence of Relationship Marketing for SaaS startups	--	Developing	ISCTE-IUL

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Antonio dos Santos Rodrigues	Centralized Management IoT Platform (IoT Central Hub)	English	ISCTE-IUL	2021

2	Sara Karmali	Mobile application development for Expense Submission / Review using agile development methodologies and Outsystems low-code platform	Portuguese	ISCTE-IUL	2019
---	--------------	---	------------	-----------	------

Total Citations

Web of Science®	92
Scopus	142

Publications

• Scientific Journals

- Scientific journal paper

1	Coelho, J., Mano, D., Paula, B., Coutinho, C., Oliveira, J., Ribeiro, R....Batista, F. (2023). Semantic similarity for mobile application recommendation under scarce user data. Engineering Applications of Artificial Intelligence. 121 - Times Cited Web of Science®: 3 - Times Cited Scopus: 4 - Times Cited Google Scholar: 5
2	Silva, D., Coutinho, C. & Costa, C. (2023). Factors influencing free and open-source software adoption in developing countries—An empirical study. Journal of Open Innovation: Technology, Market, and Complexity. 9 (1) - Times Cited Scopus: 4 - Times Cited Google Scholar: 9
3	Cretan, A., Nica, C., Coutinho, C., Jardim-Gonçalves, R. & Bratu, B. (2021). An intelligent system to ensure interoperability for the dairy farm business model. Future Internet. 13 (6) - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
4	Jardim-Gonçalves, R., Cretan, A., Coutinho, C., Agostinho, C. & Bratu, B. (2018). Coordinating negotiations in data-intensive collaborative working environments using an agent-based model-driven platform. Enterprise Information Systems. 12 (8-9), 1100-1128 - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 1
5	Coutinho, C., Cretan, A., Ferreira da Silva, C., Ghodous, P. & Jardim-Goncalves, R. (2016). Service-based negotiation for advanced collaboration in enterprise networks. Journal of Intelligent Manufacturing. 27 (1), 201-216 - Times Cited Web of Science®: 23 - Times Cited Scopus: 21 - Times Cited Google Scholar: 31

6	Jardim-Goncalves, R., Coutinho, C., Cretan, A., Ferreira da Silva, C. & Ghodous, P. (2014). Collaborative negotiation for ontology-driven enterprise businesses. <i>Computers in Industry</i> . 65 (9), 1232-1241 - Times Cited Web of Science®: 11 - Times Cited Scopus: 14 - Times Cited Google Scholar: 17
7	Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2013). Agent-based approach to model parallel and concurrent negotiations. <i>Computational Methods in Social Sciences</i> . 1 (3), 26-44 - Times Cited Google Scholar: 1
8	Coutinho, C., Cretan, A. & Jardim-Gonçalves, R. (2013). Sustainable interoperability on space mission feasibility studies. <i>Computers in Industry</i> . 64 (8), 925-937 - Times Cited Web of Science®: 12 - Times Cited Scopus: 13 - Times Cited Google Scholar: 32
9	Cretan, A., Ferreira da Silva, C., Coutinho, C., Jardim-Goncalves, R. & Ghodous, P. (2013). Framework for ontology-based Negotiation to support enterprise interoperability in cloud-based environments. <i>International Journal of Electronic Business Management</i> . 11 (3), 168-177 - Times Cited Google Scholar: 4
10	Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2012). NEGOSEIO: a framework for negotiations toward sustainable enterprise interoperability. <i>Annual Reviews in Control</i> . 36 (2), 291-299 - Times Cited Web of Science®: 22 - Times Cited Scopus: 29 - Times Cited Google Scholar: 53

• Books and Book Chapters

- Book chapter

1	Sofia, R. C., Coutinho, C., Scivoletto, G., Insolubile, G., Deshmukh, R., Schneider, A....Mastos, T. (2023). The EFPF approach to manufacturing applications across edge-cloud architectures. In <i>Shaping the future lot with edge intelligence: How edge computing enables the next generation of IoT applications</i> . (pp. 319-347).: River Publishers.
2	Sofia, Rute C., Bnouhanna, Nisrine & Coutinho, C. (2023). The EFPF approach to manufacturing applications across edge-cloud architectures. In <i>Shaping the future lot with edge intelligence: How edge computing enables the next generation of IoT applications</i> . (pp. 319-347).: River Publishers.
3	Coutinho, C., Lopes, L., Viana, V., Pape, D., Klasen, G., von Halem, B....Stam, A. (2018). An open environment for development of manufacturing applications on vf-OS. In Martin Zelm; Frank-Walter Jaekel; Guy Doumeingts; Martin Wollschlaeger; (Ed.), <i>Enterprise interoperability: smart services and business impact of enterprise interoperability</i> . (pp. 107-114). Hoboken: Wiley. - Times Cited Scopus: 2 - Times Cited Google Scholar: 1
4	Coutinho, C., Costa, R. & Jardim-Goncalves, R. (2015). Services for Business Knowledge Representation and Capture. In Philippe Desfray; Joaquim Filipe; Slimane Hammoudi; Luís Ferreira Pires (Ed.), <i>Model-Driven Engineering and Software Development</i> . (pp. 421-436). Switzerland: Springer International Publishing.

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Castro, A. de. & Coutinho, C. (2023). Electronic voting through blockchain: A survey. In Sokol, Y. I. (Ed.), 2023 5th International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA). Istanbul, Turkiye: IEEE.
2	Filipe, P., Mataloto, B. & Coutinho, C. (2022). IoT system for the validation of conditions in shipping couriers. In Morel, L., Dupont, L., and Camargo, M. (Ed.), 2022 IEEE 28th International Conference on Engineering, Technology and Innovation (ICE/ITMC) & 31st International Association For Management of Technology (IAMOT) Joint Conference. Nancy, France: IEEE.
3	Cardoso, R., Postolache, O. & Coutinho, C. (2022). Remote health monitoring system for the elderly based on mobile computing and IoT. In Proceedings of the 3rd International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI2022). (pp. 132-137). Shanghai, China: IEEE.
4	Paula, B., Coelho, J., Mano, D., Coutinho, C., Oliveira, J., Ribeiro, R....Batista, F. (2022). Collaborative filtering for mobile application recommendation with implicit feedback. In Morel, L., Dupont, L., and Camargo, M. (Ed.), 2022 IEEE 28th International Conference on Engineering, Technology and Innovation (ICE/ITMC) and 31st International Association For Management of Technology (IAMOT) Joint Conference. (pp. 1065 - 1073). Nancy, France: IEEE. - Times Cited Google Scholar: 1
5	Mota, B. da., Mataloto, B. & Coutinho, C. (2022). Sustainable gardens for smart cities using low-power communications. In Morel, L., Dupont, L., and Camargo, M. (Ed.), 2022 IEEE 28th International Conference on Engineering, Technology and Innovation (ICE/ITMC) & 31st International Association For Management of Technology (IAMOT) Joint Conference. (pp. 1210-1216). Nancy: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
6	Antunes, C. & Coutinho, C. (2022). Employment of artificial intelligence mechanisms for e-Health systems in order to obtain vital signs improving the processes of online consultations and diagnosis. In 2022 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI). (pp. 109-114). Shanghai: IEEE. - Times Cited Google Scholar: 2
7	Filipe, P., Mataloto, B. & Coutinho, C. (2022). IoT system for the validation of conditions in shipping couriers. In 2022 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI). (pp. 103-108). Shanghai: IEEE.
8	Sousa, O. V. J. de. & Coutinho, C. (2022). Interoperability between information systems concerning electronic records of patients. In 2022 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI). (pp. 121-126). Shanghai: IEEE. - Times Cited Google Scholar: 1
9	Caixeiro, T., Cale, D. & Coutinho, C. (2022). Wearable devices for health remote monitor system. In 2022 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI). (pp. 115-120). Shanghai: IEEE.
10	Coelho, J., Neto, A., Tavares, M., Coutinho, C., Oliveira, J., Ribeiro, R....Batista, F. (2021). Transformer-based language models for semantic search and mobile applications retrieval. In Cucchiara, R., Fred, A., & Filipe, J. (Ed.), Proceedings of the 13th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management. (pp. 225-232): SCITEPRESS – Science and Technology Publications, Lda. - Times Cited Web of Science®: 1 - Times Cited Google Scholar: 3

11	<p>Coelho, J., Neto, A., Tavares, M., Coutinho, C., Ribeiro, R. & Batista, F. (2021). Semantic search of mobile applications using word embeddings. In Queirós, R., Pinto, M., Simões, A., Portela, F., & Pereira, M. J. (Ed.), 10th Symposium on Languages, Applications and Technologies (SLATE 2021). Vila do Conde/Póvoa de Varzim: Schloss Dagstuhl- Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing.</p> <p>- Times Cited Scopus: 1</p> <p>- Times Cited Google Scholar: 3</p>
12	<p>Cretan, A., Coutinho, C., Bratu, B. & Goncalves, R. J. (2019). Agent-based negotiation solution for enterprise business collaboration. In Proceedings of the 15th China-Europe International Symposium on Software Engineering Education (CEISEE 2019). Lisboa: IEEE.</p>
13	<p>Teixeira, N. & Coutinho, C. (2019). The coexistence between GDPR and blockchain. In Proceedings of the 15th China-Europe International Symposium on Software Engineering Education (CEISEE 2019). Lisboa</p>
14	<p>Tavares, M., Veiga, F., Guerreiro, A., Campos, A. & Coutinho, C. (2018). WalliD: secure your ID in an Ethereum Wallet. In Proceedings of the 9th IEEE-TEMS international Conference on Intelligent Systems (IS 2018). Funchal: IEEE.</p> <p>- Times Cited Web of Science®: 7</p> <p>- Times Cited Google Scholar: 10</p>
15	<p>Pinto, C. M. & Coutinho, C. (2018). From native to cross-platform hybrid development. In Proceedings of the 9th IEEE-TEMS International Conference on Intelligent Systems (IS 2018). Funchal</p> <p>- Times Cited Web of Science®: 7</p> <p>- Times Cited Google Scholar: 33</p>
16	<p>Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2018). A negotiation cloud-based solution to support interoperability among interconnected autonomous microgrids. In Proceedings of the 9th IEEE-TEMS International Conference on Intelligent Systems (IS 2018). Funchal</p> <p>- Times Cited Scopus: 1</p> <p>- Times Cited Google Scholar: 3</p>
17	<p>Fernandes, S. M. & Coutinho, C. (2017). Key performance indicators for improving a CRM implementation. In 23rd International Conference on Engineering, Technology and Innovation, ICE/ITMC 2017. (pp. 1401-1406). Funchal: IEEE.</p> <p>- Times Cited Scopus: 1</p> <p>- Times Cited Google Scholar: 5</p>
18	<p>Cretan, A., Bratu, B., Coutinho, C. & Jardim-Goncalves, R. (2017). A negotiation approach to support interoperability in a collaborative manufacturing environment. In 23rd International Conference on Engineering, Technology and Innovation, ICE/ITMC 2017. (pp. 1282-1292). Funchal: IEEE.</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Scopus: 3</p> <p>- Times Cited Google Scholar: 4</p>
19	<p>Bendas, D., Saari, L., Coutinho, C., De Juan Marín, R., Gisbert, J. B. & Lopes, L. (2017). Distributed software development of a cloud solution for collaborative manufacturing networks. In 23rd International Conference on Engineering, Technology and Innovation, ICE/ITMC 2017. (pp. 741-749). Funchal: IEEE.</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Scopus: 3</p> <p>- Times Cited Google Scholar: 5</p>
20	<p>Alves, F., Coutinho, C., Peña-Ortiz, R., Xu, X., Nieto, A., Ahola, J., Katasonov, A. (2016). Cloud and Services Testing Applied in Manufacturing. In Kai Mertins; Ricardo Jardim-Gonçalves; Keith Popplewell; João P. Mendonça (Ed.), Enterprise Interoperability VII: Proceedings of the 8th International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2016). (pp. 25-38). Valencia: Springer International Publishing.</p>

21	Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2016). Negotiation Coordination Model for Supporting Enterprise Interoperability. In Kai Mertins, Ricardo Jardim-Gonçalves, Keith Popplewell, João P. Mendonça (Ed.), Enterprise Interoperability VII: Proceedings of the 8th International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2016). (pp. 87-97). Switzerland: Springer International Publishing.
22	Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2016). A Negotiation Model for Concurrent Engineering. In Proceedings of the 7th International Systems & Concurrent Engineering for Space Applications Conference (SECESA 2016). Madrid, Spain - Times Cited Google Scholar: 1
23	Coutinho, C., Costa, R. & Jardim-Goncalves, R. (2015). Modelling services for business knowledge capture. In Proceedings of the 3rd International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2015). (pp. 626-633). Angers: IEEE.
24	Coutinho, C., Cretan, A., Agostinho, C. & Jardim-Goncalves, R. (2015). Negotiation in Collaborative Working Environment for the Next Generation of Product Design. In Proceedings of the ASME 2015 International Mechanical Engineering Congress & Exposition (ASME IMECE 2015). Houston, Texas, USA: ASME.
25	Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2014). Methodology for Negotiation in Collaborative Working Environment for Innovation in Services Design. In Proceedings of the ASME 2014 International Mechanical Engineering Congress & Exposition (ASME IMECE 2014): ASME.
26	Coutinho, C. & Gooding, P. (2014). Applying the TIMBUS Approach to Preserving Context in Digital Libraries. In Serena Coates, Ross King, Steve Knight, Christopher Lee, Peter McKinney, Erin O'Meara, and David Pearson (Ed.), Proceedings of the 11th Annual International Conference on Digital Preservation (iPres2014). (pp. 326-327).
27	Coutinho, C., Simões, J., Marques, L., Nunes, M. & Martins, N. (2014). Framework for the development of static and flexible collaborative solutions. In Carlos Costa, Manuela Aparicio (Ed.), Proceedings of the International Conference on Information Systems and Design of Communication (ACM/ISDOC 2014). (pp. 79-84). Lisbon, Portugal: ACM. - Times Cited Web of Science®: 1
28	Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2014). Modelling Services for Interoperability Negotiation. In Proceedings of the 2nd International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2014). (pp. 682-688). Lisbon, Portugal - Times Cited Google Scholar: 1
29	Santos, T., Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2013). Agents and rules for the negotiation of interoperability solutions. In Proceedings of the IEEE International Technology Management Conference & 19th ICE Conference (ICE 2013). The Hague, Netherlands: IEEE. - Times Cited Scopus: 2 - Times Cited Google Scholar: 2
30	Santos, T., Coutinho, C., Cretan, A., Beça, M. & Jardim-Goncalves, R. (2013). Standardisation Tools for Negotiating Interoperability Solutions. In Martin Zelm, Marten van Sinderen, Luis Ferraira Pires and Guy Doumeingts (Ed.), Enterprise Interoperability: Proceedings of the 5th International IFIP Working Conference on Enterprise Interoperability Information, Services and Processes for the Interoperable Economy and Society (IWEI 2013). (pp. 1-11). Enschede, Netherlands: Wiley.

31	<p>Coutinho, C. (2013). Digital preservation of business assets as a risk management strategy. In Carlos Costa, Manuela Aparicio (Ed.), Proceedings of the Workshop on Open Source and Design of Communication (ACM/OSDOC 2013). (pp. 46-48). Lisbon, Portugal: ACM.</p> <p>- Times Cited Google Scholar: 4</p>
32	<p>Santos, T., Coutinho, C., Jardim-Goncalves, R. & Cretan, A. (2013). Negotiation environment for enterprise interoperability sustainability. In Proceedings of the 2013 IEEE 17th International Conference on Computer Supported Cooperative Work in Design (CSCWD 2013). (pp. 153-158). Whistler, BC, Canada: IEEE.</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Scopus: 2</p> <p>- Times Cited Google Scholar: 3</p>
33	<p>Stanescu, A., Cretan, A., Coutinho, C. & Jardim-Goncalves, R. (2013). Intelligent Negotiation Mechanism for Supporting the Interoperability within the Sensing Enterprise. In IFAC Proceedings Volumes. (pp. 1328-1333). Saint Petersburg, Russia: Elsevier.</p> <p>- Times Cited Scopus: 1</p> <p>- Times Cited Google Scholar: 3</p>
34	<p>Coutinho, C., Jardim-Goncalves, R. & Cretan, A. (2013). Sustainable Interoperability of Negotiation of Manufacturing Robotic Machining Processes. In Proceedings of the ASME 2013 International Mechanical Engineering Congress & Exposition (ASME IMECE 2013). San Diego, CA, USA: ASME.</p>
35	<p>Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2013). Multi-agent framework for negotiation in a closed environment. In Proceedings of the 11th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2013). (pp. 1385-1388). Rhodes, Greece</p> <p>- Times Cited Google Scholar: 1</p>
36	<p>Coutinho, C., Jardim-Goncalves, R. & Cretan, A. (2012). A Framework for Negotiation-Based Sustainable Interoperability for Space Mission Design. In Pilar Herrero, Hervé Panetto, Robert Meersman, Tharam Dillon (Ed.), Proceedings of the 7th International Workshop on Enterprise Integration, Interoperability and Networking (EI2N'2012). (pp. 93-102). Rome, Italy: Springer.</p> <p>- Times Cited Google Scholar: 1</p>
37	<p>Jardim-Goncalves, R., Cretan, A., Coutinho, C., Dutra, M. & Ghodous, P. (2012). Ontology Enriched Framework for Cloud-based Enterprise Interoperability. In Josip Stjepandić, Georg Rock, Cees Bil (Ed.), Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment. (pp. 1155-1166). Trier, Germany: Springer.</p> <p>- Times Cited Google Scholar: 2</p>
38	<p>Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2012). Cloud-based negotiation for sustainable enterprise interoperability. In Proceedings of the 18th International ICE Conference on Engineering, Technology and Innovation (ICE 2012). (pp. 1-10). Munich, Germany</p> <p>- Times Cited Scopus: 6</p> <p>- Times Cited Google Scholar: 13</p>
39	<p>Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2012). A Framework for Sustainable Interoperability of Negotiation Processes. In Proceedings of the 14th IFAC Symposium on Information Control Problems in Manufacturing (INCOM'12). (pp. 1258-1263). Bucharest, România: Elsevier.</p> <p>- Times Cited Scopus: 14</p> <p>- Times Cited Google Scholar: 33</p>

40	Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2012). Negotiations Framework for Monitoring the Sustainability of Interoperability Solutions. In Sinderen M., Johnson P., Xu X., Doumeingts G. (Ed.), Proceedings of the 4th International IFIP Working Conference on Enterprise Interoperability (IWEI 2012). Harbin, China: Springer. - Times Cited Scopus: 6 - Times Cited Google Scholar: 6
41	Coutinho, C. (2012). Sustainable Interoperability in Business Relationships. In Proceedings of the 6th International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2012).
42	Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2012). Sustainable Interoperability Framework for supporting Negotiation Processes. In Proceedings of the 6th International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2012). (pp. 365-372). Valencia, Espanha: Wiley. - Times Cited Google Scholar: 8
43	Ton, A., Richardson, R., Relvas, A., Christiansen, T., Haenisch, J. & Coutinho, C. (2008). The ESA OCDS Project - Enhancing the Concurrent Design Concept. In Proceedings of the 10th NASA-ESA Workshop on Product Data Exchange (PDE 2008), Noordwijk, Netherlands.: ESA. - Times Cited Google Scholar: 8
44	Relvas, A., Richardson, R., Coutinho, C., Ribeiro, A. & Dunne, C. (2008). Domain Design Application (DDA) and enhancements of communication layer for CDF. In ESA (Ed.), Proceedings of the 3rd International Workshop on System & Concurrent Engineering for Space Applications (SECESA 2008). Roma - Times Cited Google Scholar: 5

- Talk

1	Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2019). Agent-based Negotiation Solution for Enterprise Business Collaboration. 15th China-Europe International Symposium on Software Engineering Education.
2	Teixeira, N. & Coutinho, C. (2019). The Coexistence between GDPR and Blockchain. 15th China-Europe International Symposium on Software Engineering Education.
3	Coutinho, C., Lopes, L., Viana, V., Danny Pape, Gerrit Klasen, Bastian Von Halem...Andries Stam (2018). An Open Environment for Development of Manufacturing Applications on vf-OS. International Conference on Enterprise Interoperability (I-ESA 2018).
4	Tavares, M., Veiga, F., Guerreiro, André, Campos, A. & Coutinho, C. (2018). WalliD: Secure your ID in an Ethereum Wallet. 9th IEEE-TEMS international Conference on Intelligent Systems 2018 (IS-2018). - Times Cited Scopus: 3
5	Pinto, C. & Coutinho, C. (2018). From Native to Cross-platform Hybrid Development. 9th IEEE-TEMS International Conference on Intelligent Systems 2018. - Times Cited Scopus: 4
6	Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2018). A Negotiation Cloud-based Solution to Support Interoperability among Interconnected Autonomous Microgrids. 9th IEEE-TEMS International Conference on Intelligent Systems 2018.
7	Fernandes, S. & Coutinho, C. (2017). Key Performance Indicators for improving a CRM Implementation. Proceedings of the 23th International ICE Conference on Engineering, Technology and Innovation (ICE 2017).

8	Bendas, D., Saari, L., Juan, R., Bernabé, J., Coutinho, C. & Lopes, L. (2017). Distributed Software Development of a Cloud Solution for Collaborative Manufacturing Networks. Proceedings of the 23th International ICE Conference on Engineering, Technology and Innovation (ICE 2017).
9	Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2017). A negotiation approach to support interoperability in a collaborative manufacturing environment. Proceedings of the 23th International ICE Conference on Engineering, Technology and Innovation (ICE 2017).
10	Cretan, A., Coutinho, C., Bratu, B. & Jardim-Goncalves, R. (2016). Negotiation Coordination Model for Supporting Enterprise Interoperability. Enterprise Interoperability VII: Proceedings of the 8th International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2016). 8, 87-97
11	Alves, F., Coutinho, C., Peña-Ortiz, R., Xu, X, Nieto, A., Ahola, J....Katasonov, A. (2016). Cloud and Services Testing Applied in Manufacturing. Enterprise Interoperability VII: Proceedings of the 8th International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2016). 8, 25-38
12	Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2016). A Negotiation Model for Concurrent Engineering. Proceedings of the 7th International Systems & Concurrent Engineering for Space Applications Conference (SECESA 2016).
13	Coutinho, C. & Gooding, P. (2014). Applying the TIMBUS Approach to Preserving Context in Digital Libraries. Proceedings of the 11th Annual International Conference on Digital Preservation (iPres2014). 326-327
14	Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2014). Modelling Services for Interoperability Negotiation. Proceedings of the 2nd International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2014). 682-688
15	Coutinho, C. (2013). OSDOC2013. Proceedings of the Workshop on Open Source and Design of Communication (ACM/OSDOC 2013).
16	Coutinho, C. (2013). Digital preservation of business assets as a risk management strategy. Proceedings of the Workshop on Open Source and Design of Communication (ACM/OSDOC 2013). 46-48 - Times Cited Scopus: 2
17	Coutinho, C., Cretan, A. & Jardim-Goncalves, R. (2012). Sustainable Interoperability Framework for supporting Negotiation Processes. Proceedings of the 6th International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2012). 365-372
18	Coutinho, C., Jardim-Goncalves, R. & Cretan, A. (2012). A Framework for Negotiation-Based Sustainable Interoperability for Space Mission Design. Proceedings of the 7th International Workshop on Enterprise Integration, Interoperability and Networking (EI2N'2012). 7567, 93-102 - Times Cited Scopus: 1

• Other Publications

- Doctoral Thesis

1	Coutinho, C. (2012). NEGOSEIO: Framework for the Sustainability of Model-oriented Enterprise Interoperability. 1-169 - Times Cited Google Scholar: 1
---	---

Research Projects

Project Title	Role in Project	Partners	Period
Relaunching European smart and Sustainable Tourism models Through digitalization and INnovative technologies	Researcher	ISTAR-IUL, BRU-Iscte, IT-Iscte, EURECAT - Leader (Spain), TICSUD - (Spain), FEHT-Turism - (Spain), - - (Italy), ANHER - (Greece), Albanian Trip - (Albania), AUDAX - (Portugal)	2022 - 2024
2022	Summer with Science Training	Researcher	ISTAR-IUL (SSE)

Academic Management Positions

Membro (Docente) (2023 - 2026) Unit/Area: Comissão Científica
Director (2022 - 2024) Unit/Area: [9189] Computer Science and Business Management
Director (2022 - 2024) Unit/Area: [8366] Computer Science and Business Management (PL)
Coordenador do 2º Ano (2021) Unit/Area: [8366] Computer Science and Business Management (PL)
Coordenador do 2º Ano (2021) Unit/Area: [9189] Computer Science and Business Management
Coordenador do 2º Ano (2019 - 2021) Unit/Area: [9189] Computer Science and Business Management
Coordenador do 2º Ano (2019 - 2021) Unit/Area: [8366] Computer Science and Business Management (PL)

Professional Associations

Project Management Institute / Project Management Professional (PMI-PMP) (Since 2009)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event's organizing committee	International Conference on Intelligent Systems 2018	IEEE-TEMS	2018
Member of scientific event committee	International Conference on Information Society and Technology	Serbian Information Society	2018
Member of scientific event committee	International Conference on Information Society and Technology	Serbian Information Society	2017

Member of scientific event committee	International Conference on Information Society and Technology	Serbian Information Society	2016
Member of scientific event committee	Conferência da Associação Portuguesa de Sistemas de Informação (CAPSI)	Associação Portuguesa de Sistemas de Informação	2015
Member of scientific event committee	International Conference on Information Society and Technology	Serbian Information Society	2015
Member of scientific event committee	International Conference on Information Society and Technology	Serbian Information Society	2014
Member of scientific event committee	ASME International Mechanical Engineering Congress & Exposition	ASME	2014
Member of scientific event committee	ASME International Mechanical Engineering Congress & Exposition	ASME	2013

Products			
Product Type	Product Title	Detailed Description	Year
Prototype	AI Care	Employment of Artificial Intelligence Mechanisms for e-Health Systems in Order to Obtain Vital Signs and Detect Diseases from Medical Images Improving the Processes of Online Consultations and Diagnosis	2022
Prototype	Clinical Lab Interoperability	Interoperability Between Information Systems of The Results of Clinical Analysis and Electronic Record of patients	2022
Prototype	Intelligent Health	Wearable Devices for Health Remote Monitoring System	2022
Prototype	ElderFall	Remote Health Monitoring System for the Elderly based on Mobile Computing and IoT	2022
Prototype	ValidateCourier	IoT system for the validation of conditions in shipping couriers	2022