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Carlos Coutinho

Professor Auxiliar

ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre
Department of Information Science and Technology (ISTA)



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Curriculum

Carlos Coutinho is an Assistant Professor and Director of the BSc in Informatics and Business Management at the university Iscte, an integrated researcher and member of the Scientific Committee at the ISTAR-Iscte research centre, and is the Director of R&D at the SME Caixa Mágica Software, S.A., in Lisbon, Portugal.

He obtained a PhD degree in Electrical and Computer Engineering in 2013 from Universidade Nova de Lisboa (NOVA-FCT). He works mainly in the areas of Computer Architectures, Operating Systems, and Cloud Computing at Iscte, where he also does research at ISTAR-Iscte, with interests in Cloud Architectures, Interoperability, Autonomous Agents and Negotiation, Adaptive Platforms and Systems Engineering, Blockchain, IoT, Service-Oriented Architectures (SOA), microservices, and Model-Driven Engineering (MDE) among others.

He has more than twenty years of experience in teaching IT areas at the Portuguese universities ISEL, ISCAL, ISGB and Iscte. He has published 5 (five) book chapters, 10 (ten) articles in indexed international scientific journals and 64 (sixty-four) articles in international conferences with peer-review, being part of the scientific committee of 6 (six) journals and 6 (six) annual international conferences. He was also part of the selection jury for 2 (two) positions of management positions in Public Administration. He successfully completed the supervision of 1 (one) PhD thesis and 30 (thirty) MSc dissertations. He is also the supervisor of 3 (three) more PhD theses and 8 (eight) more MSc dissertations currently underway. He was part of the jury of 6 (six) PhD theses viva voce, arguent in 22 (twenty-two) MSc defenses, and president of the jury in 6 (six) MSc defenses.

Since 2009, he holds the title and PMP® certification from the Project Management Institute, and a postgraduate degree in Project Management from Instituto Superior Bissaya-Barreto (ISBB) in Coimbra, Portugal. He has more than thirty years of experience in enterprise IT engineering, having worked in several areas of ICT consulting, Services, Public Administration and Aerospace industry, in several multinational projects for Caixa Mágica Software and in companies such as Alcatel,

Siemens and Critical Software. He has participated as a researcher, and has been the coordinator of company research teams in numerous European Projects, such as TaRDIS (Horizon Europe), C2NET, vf-OS, and EFPF (H2020), TIMBUS (FP7), and Athena (FP6), and has also participated in numerous research projects for the European Space Agency (ESA), such as the OCDS projects, EGOS, 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
2026/2027	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 Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2026/2027	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2026/2027	1º	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL);	No
2025/2026	2º	System Security and Resilience Verification	Master Degree in Cybersecurity and Resiliency;	Yes
2025/2026	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 Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2025/2026	1º	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2025/2026	1º	Security Architectures and Zero-Trust Models		Yes

2025/2026	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL);	No
2024/2025	2°	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 Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2024/2025	1°	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2023/2024	2°	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 Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2023/2024	1°	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2023/2024	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL);	No
2022/2023	2°	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 Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2022/2023	1°	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2022/2023	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL);	No
2021/2022	2°	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 Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2021/2022	1°	Cloud Technologies and Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2021/2022	1°	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Telecommunications and Computer Engineering;	No

2020/2021	2°	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 Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2020/2021	1°	Operating Systems		Yes
2019/2020	2°	lot for Smart Cities	Specialization Seminar in IoT for Smart Cities;	No
2019/2020	2°	lot for Smart Cities + R&d Projects on Smart {cities, Buildings, Education and Health}		No
2019/2020	2°	Digital Networks I - Fundamentals		No
2019/2020	1°	Cloud Technologies and Systems		Yes
2019/2020	1°	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 Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2018/2019	2°	Digital Networks I - Fundamentals		No
2018/2019	1°	Cloud Technologies and Systems		Yes
2018/2019	1°	Operating Systems	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2017/2018	2°	Data Bases in Open Source Software Environment		No
2017/2018	2°	Digital Networks I - Fundamentals		No
2017/2018	2°	Digital Networks I - Fundamentals		No
2017/2018	2°	Digital Networks I - Fundamentals		No
2017/2018	1°	Cloud Technologies and Systems		Yes
2017/2018	1°	Operating Systems	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management;	No
2016/2017	1°	Cloud Technologies and Systems		Yes

Supervisions

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Daniel Dantas Calé	Sustainability in transportation industry with IoT and blockchain	English	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Domingos Garcia da Silva	Adoption of Free and Open-Source Software in the Angolan Public Sector	English	Iscte	2024

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Anthony Alejandro Riera Orozco	Applying Generative AI to Institutional Writing: Design and Evaluation of a Conversational Assistant for Tone of Voice Standardization	--	Developing	Iscte
2	André Filipe Frade Guerra	Dataset Generation and Fine-Tuning of AI Models from Command Execution Logs	--	Developing	Iscte
3	David Pereira Neves Palhas	Caforb: The Role of Innovation in Driving Business Growth	--	Developing	Iscte
4	Thalyta de Sousa Silva Mendonça	A Predictive Approach for Resource Allocation Optimization in Kubernetes Clusters	--	Developing	Iscte
5	Miguel Reis Penedo	Oportunidades e Desafios da Blockchain no Setor Bancário	--	Developing	Iscte
6	Alexandre Craveiro Assis	Freight Transportation Optimization in Logistics	--	Developing	Iscte
7	David Miguel Rodrigues Rosa	Frontend development for an AI-powered freight logistics application	--	Developing	Iscte
8	Miguel Filipe Nabais Martins	Secure Storage of Information in Multicloud Environment	--	Developing	Iscte

9	Marcel Marques Martins	GitOps efficiency with ArgoCD automation	--	Developing	Iscte
10	Afonso Costa do Vale	Técnicas de autenticação eletrónica usando certificados de segurança	English	Developing	Iscte
11	Antonio Lorenzo Rezende de Castro	Ao crescer no meio digital foi possível testemunhar como diferentes atores utilizaram a desinformação para criar tensões na política e outros aspetos sociais. Estes ataques criam enormes consequências e proporções quando falamos de eleições e atividades políticas. Essa dissertação tem como objetivo propor um framework para um sistema de E-Voting utilizando tecnologias Blockchain.	English	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Vasco do Nascimento Paiva Araújo	Historical Literacy in the Digital Age: The Role of Games in Cultural Education	English	Iscte	2025
2	Bruno Manuel Sousa de Carvalho	Decision Support System in the Adoption of Cloud Based Solution by SMEs	English	Iscte	2025
3	Rajdev Kumar	Code review with AI	English	Iscte	2025
4	Tomás Alexandre Tátá Santos Silva Isidoro	Development of a cybersecurity framework for cloud environments adapted to the retail sector	English	Iscte	2025
5	Rafael Bruce Tomé dos Santos	Design and Implementation of a Cloud-Native Web API for Third-Party Integrations	English	Iscte	2025
6	Gonçalo Patrício Redondo	IoT technologies and cold supply chain	English	Iscte	2024
7	João Miguel Esteves Soares	Identifying Patterns and Causes in Civic Complaints through the 'Na Minha Rua' App to Improve Urban Management	English	Iscte	2024
8	Miguel Ângelo Rodrigues do Sacramento e Sousa	Incident Response Support Systems.	English	Iscte	2024
9	Daniel Moreira Campos	Safeguarding the Future: Forecasting Cybersecurity and Privacy Challenges and Solutions in Emerging Technologies for SMEs	English	Iscte	2024

10	Diogo Alves da Silva	Smart IoT Lighting System for Energy Consumption Optimization	English	Iscte	2024
11	Daniel Filipe Gonçalves Freira	Wildfire detection based on IoT technology	English	Iscte	2024
12	Luís Manuel Pinto de Noronha	Leveraging cyber resilience using cloud services	English	Iscte	2024
13	Duarte Miguel Pereira da Silva	Cloud-based Documental Management System applied to the Supply Chain area: A Bibliometric Review Analysis	English	Iscte	2024
14	Manuel Rodrigues Casimiro	Benergy+: An IoT-Based Approach to Household Energy Waste Reduction	English	Iscte	2024
15	João Luís Bernardo Mota	Enhancing the energy management in IoT networks	English	Iscte	2024
16	Ricardo Nuno Pinto Mendes	Multifactor Monitoring and Control System for Intelligent Water Management	English	Iscte	2024
17	Antonio Lorenzo Rezende de Castro	Electronic Voting Through Blockchain: A proposed Framework	English	Iscte	2023
18	João Duarte Silva Figueira	Developing Self-Adaptive Microservices	English	Iscte	2023
19	Tariq Youssef Costa do Vale	Enhancing E-ID cards authentication with NFC	English	Iscte	2023
20	Saroj Duwadi	ChatGPT recommendation system for retail shops	English	Iscte	2023
21	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	2022
22	Tiago José Pardal Caixeiro	Wearable devices for Health Remote Monitor System	English	Iscte	2022
23	Pedro Miguel Moreira Filipe	IoT system for the validation of conditions in shipping couriers	English	Iscte	2022
24	Rafael da Silva Cardoso	Remote Health Monitoring System for the Elderly based on Mobile Computing and IoT	English	Iscte	2022
25	Octávio Viana Jesus de Sousa	Interoperability Between Information Systems of The Results Of Clinical Analysis And Electronic Record Of The Patient	English	Iscte	2022
26	Adriano Manuel Tomé de Almeida Figueira Batista	Project Management Tool supported by the Blockchain technology	Portuguese	Universidade Nova de Lisboa	2021

27	Hermínio Miguel Sobral Tavares	A Know Your Customer solution over the Portuguese Citizenship Card	English	FCUL - Faculdade de Ciências da Universidade de Lisboa	2019
28	Nuno Miguel Simões Teixeira	The Coexistence between Blockchain and GDPR	English	Iscte	2019
29	Carlos Manuel Manso Pinto	From Native to Cross-platform Hybrid Development:CodeGT - Design and development of a mobile app for an ERP	English	Iscte	2018
30	Tiago José Ministro Costa Santos	Negotiation environment to support enterprise interoperability sustainability	English	Universidade Nova de Lisboa	2013

• M.Sc. Final Projects

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Antonio dos Santos Rodrigues	Centralized Management IoT Platform (IoT Central Hub)	English	Iscte	2021
2	Sara Karmali	Mobile application development for Expense Submission / Review using agiledevelopment methodologies and Outsystems low-code platform	Portuguese	Iscte	2019

Total Citations

Web of Science®	158
Scopus	208

Publications

• Scientific Journals

- Scientific journal paper

1	ale, D., Ferreira, J. C., Madureira, A. & Coutinho, C. (2026). A systematic literature review on Web3 applications in trucking logistics: Impacts and emerging trends in logistics 5.0. Digital Business. 6 (2)
2	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®: 7 - Times Cited Scopus: 6 - Times Cited Google Scholar: 8

3	<p>Silva, D., Coutinho, C. & Costa, C. (2023). Factors influencing free and open-source software adoption in developing countries—An empirical study. <i>Journal of Open Innovation: Technology, Market, and Complexity</i>. 9 (1)</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 14 - Times Cited Scopus: 24 - Times Cited Google Scholar: 38
4	<p>Cretan, A., Nica, C., Coutinho, C., Jardim-Gonçalves, R. & Bratu, B. (2021). An intelligent system to ensure interoperability for the dairy farm business model. <i>Future Internet</i>. 13 (6)</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 2
5	<p>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. <i>Enterprise Information Systems</i>. 12 (8-9), 1100-1128</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 1
6	<p>Coutinho, C., Cretan, A., Ferreira da Silva, C., Ghodous, P. & Jardim-Goncalves, R. (2016). Service-based negotiation for advanced collaboration in enterprise networks. <i>Journal of Intelligent Manufacturing</i>. 27 (1), 201-216</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 23 - Times Cited Scopus: 21 - Times Cited Google Scholar: 34
7	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 13 - Times Cited Scopus: 15 - Times Cited Google Scholar: 21
8	<p>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 (1), 23-38</p> <ul style="list-style-type: none"> - Times Cited Google Scholar: 1
9	<p>Coutinho, C., Cretan, A. & Jardim-Gonçalves, R. (2013). Sustainable interoperability on space mission feasibility studies. <i>Computers in Industry</i>. 64 (8), 925-937</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 14 - Times Cited Scopus: 17 - Times Cited Google Scholar: 34
10	<p>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</p> <ul style="list-style-type: none"> - Times Cited Google Scholar: 4
11	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 23 - Times Cited Scopus: 29 - Times Cited Google Scholar: 52

• **Books and Book Chapters**

- Book chapter

1	Coutinho, C., Rodrigues, R. & Silva, M. (2025). Community energy balancing. In Leonor Marques Mano Domingos, Maria José Sousa (Ed.), Swarm intelligence application for the cities of the future. (pp. 134-148).: CRC Press. - Times Cited Google Scholar: 1
2	Coutinho, C. (2025). Princípios pedagógicos sobre a unidade curricular de sistemas operativos no Iscte. In Sónia Pintassilgo, Alexandre Almeida, Ana Catarina Nunes, Helena Soares, Isabel Correia, Patrícia Dinis Costa, Vania Baldi, David Isaac, Henrique Lage, Beatriz Saavedra, Gonçalo Tomé Ribeiro, Helena Alvito (Ed.), Novos exemplos de práticas pedagógicas e estratégias de inovação pedagógica no Iscte. (pp. 331-354). Lisboa: Iscte – Instituto Universitário de Lisboa.
3	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 Shaping the future lot with edge intelligence: How edge computing enables the next generation of IoT applications. (pp. 319-347).: River Publishers. - Times Cited Google Scholar: 1
4	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 Doumeings; Martin Wollschlaeger; (Ed.), Enterprise interoperability: smart services and business impact of enterprise interoperability. (pp. 107-114). Hoboken: Wiley. - Times Cited Scopus: 3 - Times Cited Google Scholar: 2
5	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.), Model-Driven Engineering and Software Development. (pp. 421-436). Switzerland: Springer International Publishing.

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Kumar, R. & Coutinho, C. (2026). Code Review with Large Language Models. In Proceedings of the International Conference on Electrical and Computer Engineering Researches (ICECER2025).
2	Manuel Casimiro & Coutinho, C. (2025). Integrating Unity into IoT solutions. In Procedia Computer Science. (pp. 522-529).: Elsevier BV.
3	Ricardo Mendes, Coutinho, C. & Mataloto, B. (2025). Multiparameter Monitoring and Control System for Intelligent Water Management. In Procedia Computer Science. (pp. 600-607).: Elsevier BV.
4	Luís M. Noronha & Coutinho, C. (2025). Leveraging cyber resilience using cloud services. In Procedia Computer Science. (pp. 548-556).: Elsevier BV.
5	Daniel Moreira Campos & Coutinho, C. (2025). Safeguarding the Future: Forecasting Cybersecurity and Privacy Challenges and Solutions in Emerging Technologies for SMEs. In Procedia Computer Science. (pp. 712-718).: Elsevier BV. - Times Cited Google Scholar: 1
6	João Mota & Coutinho, C. (2025). Enhancing energy management in IoT networks. In Procedia Computer Science. (pp. 334-341).: Elsevier BV.

7	Silva, Domingos G., Coutinho, C. & Costa, C. J. (2025). A Bibliometric Analysis of Free Open-Source Software Adoption (2001-2023). In <i>Procedia Computer Science</i> . (pp. 1-8): Elsevier BV.
8	Tomás Tátá Isidoro, Coutinho, C. & Serrão, C. (2025). Development of a Cybersecurity Framework for Cloud Environments Adapted to the Retail Sector. In <i>2025 Third International Conference on Industry 4.0 Technology (I4Tech)</i> . (pp. 1-6). Pune, India: IEEE.
9	Soares, J. & Coutinho, C. (2024). Urban issue reporting applications towards government 2.0. In <i>ISMSIT 2024 - 8th International Symposium on Multidisciplinary Studies and Innovative Technologies, Proceedings</i> . Ankara, Turkiye: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
10	Silva, D. & Coutinho, C. (2024). Cloud-based documental management system: A bibliometric review analysis. In <i>ISMSIT 2024 - 8th International Symposium on Multidisciplinary Studies and Innovative Technologies, Proceedings</i> . Ankara, Turkiye: IEEE. - Times Cited Google Scholar: 2
11	Freira, D. & Coutinho, C. (2024). Wildfire detection based on IoT technology. In <i>ISMSIT 2024 - 8th International Symposium on Multidisciplinary Studies and Innovative Technologies, Proceedings</i> . Ankara, Turkiye: IEEE. - Times Cited Scopus: 3 - Times Cited Google Scholar: 3
12	Figueira, J. & Coutinho, C. (2024). Developing self-adaptive microservices. In Francesco Longo , Weiming Shen, Antonio Padovano (Ed.), <i>Procedia Computer Science</i> . (pp. 264-273). Lisboa: Elsevier. - Times Cited Web of Science®: 6 - Times Cited Scopus: 8 - Times Cited Google Scholar: 14
13	Silva, D., Coutinho, C. & Costa, C. J. (2024). Exploration of open source in low-income countries: Review and future research directions. In <i>2024 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI)</i> . Lagoa, Portugal: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
14	Youssef, T., Campos, A., Guerreiro, A. & Coutinho, C. (2024). Enhancing e-IDs authentication with NFC. In Nuno Mateus-Coelho, Manuela Cruz-Cunha (Ed.), <i>Procedia Computer Science</i> . (pp. 923-930). Lisboa: Elsevier. - Times Cited Google Scholar: 3
15	Silva, D., Mataloto, B. & Coutinho, C. (2024). Smart IoT lightning system for energy consumption optimization. In <i>2024 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI)</i> . Lagoa, Portugal: IEEE. - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
16	Redondo, G. & Coutinho, C. (2024). Monitoring solution for cold chain logistic transport based on LoRa technology. In <i>2024 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI)</i> . Lagoa, Portugal: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
17	Mota, J. & Coutinho, C. (2024). Enhancing energy management in IoT networks. In <i>2024 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI)</i> . Lagoa, Portugal: IEEE.

18	<p>Duwadi, S. & Coutinho, C. (2024). ChatGPT based recommendation system for retail shops. In Nuno Mateus-Coelho, Manuela Cruz-Cunha (Ed.), <i>Procedia Computer Science</i>. (pp. 253-260). Lisboa: Elsevier.</p> <p>- Times Cited Web of Science®: 5 - Times Cited Scopus: 6</p>
19	<p>Castro, A. & Coutinho, C. (2023). Electronic voting through blockchain: A survey. In Y. I. Sokol (Ed.), <i>HORA 2023 - 2023 5th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Proceedings</i>. Istanbul, Turkiye: IEEE.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 3</p>
20	<p>Cardoso, R., Postolache, O. & Coutinho, C. (2022). Remote health monitoring system for the elderly based on mobile computing and IoT. In <i>Proceedings of the 3rd International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI2022)</i>. (pp. 132-137). Shanghai, China: IEEE.</p> <p>- Times Cited Scopus: 2 - Times Cited Google Scholar: 1</p>
21	<p>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.), <i>2022 IEEE 28th International Conference on Engineering, Technology and Innovation (ICE/ITMC) and 31st International Association For Management of Technology (IAMOT) Joint Conference</i>. (pp. 1065 - 1073). Nancy, France: IEEE.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Scopus: 3 - Times Cited Google Scholar: 5</p>
22	<p>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.), <i>2022 IEEE 28th International Conference on Engineering, Technology and Innovation (ICE/ITMC) & 31st International Association For Management of Technology (IAMOT) Joint Conference</i>. (pp. 1210-1216). Nancy: IEEE.</p> <p>- Times Cited Scopus: 2 - Times Cited Google Scholar: 3</p>
23	<p>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 <i>2022 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI)</i>. (pp. 109-114). Shanghai: IEEE.</p> <p>- Times Cited Scopus: 2 - Times Cited Google Scholar: 5</p>
24	<p>Filipe, P., Mataloto, B. & Coutinho, C. (2022). IoT system for the validation of conditions in shipping couriers. In <i>2022 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI)</i>. (pp. 103-108). Shanghai: IEEE.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
25	<p>Sousa, O. V. J. de. & Coutinho, C. (2022). Interoperability between information systems concerning electronic records of patients. In <i>2022 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI)</i>. (pp. 121-126). Shanghai: IEEE.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>

26	<p>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.</p> <p>- Times Cited Scopus: 2 - Times Cited Google Scholar: 3</p>
27	<p>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.</p> <p>- Times Cited Google Scholar: 2</p>
28	<p>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.</p> <p>- Times Cited Web of Science®: 3 - Times Cited Google Scholar: 10</p>
29	<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 fur Informatik GmbH, Dagstuhl Publishing.</p> <p>- Times Cited Scopus: 2 - Times Cited Google Scholar: 8</p>
30	<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): IEEE.</p>
31	<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>
32	<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 Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 5</p>
33	<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®: 13 - Times Cited Google Scholar: 17</p>
34	<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®: 26 - Times Cited Google Scholar: 67</p>

35	<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> <ul style="list-style-type: none"> - Times Cited Web of Science®: 3 - Times Cited Scopus: 2 - Times Cited Google Scholar: 11
36	<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> <ul style="list-style-type: none"> - Times Cited Web of Science®: 1 - Times Cited Scopus: 3 - Times Cited Google Scholar: 6
37	<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> <ul style="list-style-type: none"> - Times Cited Web of Science®: 1 - Times Cited Scopus: 3 - Times Cited Google Scholar: 5
38	<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>
39	<p>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</p> <ul style="list-style-type: none"> - Times Cited Google Scholar: 1
40	<p>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.</p>
41	<p>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.</p>
42	<p>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.</p>
43	<p>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.</p>
44	<p>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).</p>

45	<p>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.</p> <p>- Times Cited Web of Science®: 1</p>
46	<p>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</p> <p>- Times Cited Google Scholar: 1</p>
47	<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>
48	<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: 1</p>
49	<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>
50	<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>
51	<p>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.</p> <p>- Times Cited Scopus: 2</p> <p>- Times Cited Google Scholar: 3</p>
52	<p>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.</p>
53	<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>
54	<p>Jardim-Goncalves, R., Cretan, A., Coutinho, C., Dutra, M. & Ghodous, P. (2012). Ontology Enriched Framework for Cloud-based Enterprise Interoperability. In Josip Stjepandi?, 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: 3</p>

55	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 - Times Cited Scopus: 6 - Times Cited Google Scholar: 13
56	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, Roménia: Elsevier. - Times Cited Scopus: 14 - Times Cited Google Scholar: 35
57	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
58	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).
59	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
60	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. - Times Cited Google Scholar: 1
61	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
62	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

- Talk

1	Teixeira, N. & Coutinho, C. (2019). The coexistence between GDPR and blockchain. Proceedings of the 15th China-Europe International Symposium on Software Engineering Education (CEISEE 2019).
2	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.

3	Teixeira, N. & Coutinho, C. (2019). The Coexistence between GDPR and Blockchain. 15th China-Europe International Symposium on Software Engineering Education.
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	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).
8	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).
9	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).
10	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).
11	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
12	Alves, F., Coutinho, C., Peña-Ortiz, R., Xu, X, Nieto, A., Ahola, J....Katsonov, 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
13	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).
14	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
15	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
16	Coutinho, C. (2013). OSDOC2013. Proceedings of the Workshop on Open Source and Design of Communication (ACM/OSDOC 2013).

17	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
18	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
19	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	Silva, Domingos G., Coutinho, C. & Costa, C. (2024). Adoption of Free and Open-Source Software in the Angolan Public Sector .
2	Coutinho, C. (2012). NEGOSEIO: Framework for the Sustainability of Model-oriented Enterprise Interoperability. 1-169 - Times Cited Google Scholar: 2

Research Projects

Project Title	Role in Project	Partners	Period
Relaunching European smart and Sustainable Tourism models Through digitalization and INnovative technologies	Researcher	ISTAR-Iscte, BRU-Iscte, IT-Iscte, EURECAT - Leader (Spain), TICSUD - (Spain), FEHT-Turism - (Spain), - (Italy), ANHER - (Greece), Albanian Trip - (Albania), AUDAX - (Portugal)	2022 - 2024
Summer with Science Training	Researcher	ISTAR-Iscte (RAISE)	2020

Academic Management Positions

Director (2025 - 2028) Unit/Area: Bachelor Degree in Computer Science and Business Management
Director (2025 - 2028) Unit/Area: Bachelor Degree in Computer Science and Business Management (PL)
Director (2025 - 2027) Unit/Area: Bachelor Degree in Computer Science and Business Management (PL)
Membro (Docente) (2023 - 2026) Unit/Area: Comissão Científica

Director (2022 - 2025) Unit/Area: Bachelor Degree in Computer Science and Business Management
Director (2022 - 2025) Unit/Area: Bachelor Degree in Computer Science and Business Management (PL)
Coordenador do 2º Ano (2021) Unit/Area: Bachelor Degree in Computer Science and Business Management (PL)
Coordenador do 2º Ano (2021) Unit/Area: Bachelor Degree in Computer Science and Business Management
Coordenador do 2º Ano (2019 - 2021) Unit/Area: Bachelor Degree in Computer Science and Business Management (PL)
Coordenador do 2º Ano (2019 - 2021) Unit/Area: Bachelor Degree in Computer Science and Business Management

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	Wildfire detection based on IoT technology	Wildfire detection based on IoT technology	2024
Prototype	Smart IoT Lighting System for Energy Consumption Optimization	Smart IoT Lighting System for Energy Consumption Optimization	2024
Prototype	Cold Chain Logistics Tracking System	Cold Chain Logistics Tracking System	2024
Prototype	DSS for cybersecurity using cloud	Decision Support System for cybersecurity using cloud	2024
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
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