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Catarina Ferreira da Silva

Professora Associada (com Agregação)

Department of Information Science and Technology (ISTA)

Director

ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre (ISTA)

Integrated Researcher

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



Contacts

E-mail

Catarina.Ferreira.Silva@iscte-iul.pt

Office

D6.19

Telephone

217650592 (Ext: 222341)

Curriculum

Catarina Ferreira da Silva, PhD in Informatics (2007), is Associate Professor (2021) with Habilitation in Information Sciences and Technologies (2020), Information Systems at the Department of Information Science and Technology of the University Institute of Lisbon (ISCTE).

She is the Director of the Information Sciences, Technologies and Architecture Research Centre (ISTAR-Iscte) since 2023 and the Director of the Master programme in Information Systems Management (from 2022 till March 2025), currently Subdirector of this same programme till end of 2025, Department of Information Science and Technology of the University Institute of Lisbon (Iscte), Portugal. She is integrated member of the Information Systems group of the research centre ISTAR. She is member of the Expert Panel of the European Blockchain Observatory and Forum, since 2020. The EU Blockchain Observatory & Forum is an initiative sponsored by the European Commission, Directorate-General of Communications Networks, Content & Technology. She was research member of the Information Systems (IS) research group of the Centre for Informatics and Systems of the University of Coimbra (CISUC), between 2009-2023 (Portugal). She had the pleasure to co-supervise 5 defended PhD and has the pleasure to co-supervise 3 ongoing PhD students. Between 2013 and September 2019 she was Associate Professor at the Informatics Engineering Department of the Lyon 1 University Institute of Technology La Doua (IUT Doua), Campus LyonTech-La Doua, France. She was also researcher member of the Service-Oriented Computing (SOC) team of the CNRS Laboratory of Informatics on Images and

Information Systems (LIRIS UMR 5205) of Lyon, France. She was research assistant, at the University of Coimbra, member of the IS research group of the CISUC between 2009 and 2012. In 2008 and 2009, she was teacher at the Informatics Department of the University of Lyon 1, France and researcher member of the SOC research team of the LIRIS UMR 5205. Between 2004 and 2007, during the preparation of her PhD in Informatics, she worked as researcher at the Information Technology and Knowledge Dissemination Department (Division of Innovation and Services) of the Scientific and Technical Centre for Building (CSTB) at Sophia Antipolis, France. From 2004 to 2006 she was teaching assistant at the Informatics Department of the University Institute of Technology (IUT) of Nice and Sophia-Antipolis, France. She studied at the University of Aveiro, Portugal (pre-Bologna Engineering degree, 1994-1999), at the University of Coimbra, Portugal (post-graduation, 2001-2002), at the Institut National des Sciences Appliquées de Lyon (master's degree - Information Systems, 2002-2003) and at the University of Lyon 1 (PhD in Informatics, 2004-2007).

Research Interests

Information Systems
Decentralised Ledger Technologies
Web 3.0
Blockchains
Digital Twins
Empowerment Tech
Interoperability of Information Systems
Semantic Web Ontologies

Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE-Instituto Universitário de Lisboa	Aggregation	Ciências e Tecnologias de Informação	2020
University Institute of Lisbon (ISCTE-IUL)	Aggregation	Habilitation in Information Science and Technology	2020
Universidade Claude Bernard Lyon 1	Post-Doc	Informatics	2008
Universidade Claude Bernard Lyon 1	PhD	PhD in Informatics	2007
Université Claude Bernard Lyon 1	PhD	Doutoramento Informática	2007
Institut National des Sciences Appliquées (INSA) de Lyon	M.Sc.	Masters' Degree in Informatics – Information Systems	2003
Institut National des Sciences Appliquées de Lyon	Advanced Studies	Mestrado em Informática	2003
Universidade de Coimbra	Post-graduation	Informatics Engineering	2002
University of Aveiro	Licenciate	Engineering	1999

External Professional Activities

Period	Employer	Country	Description
2013 - 2019	University Claude Bernard of Lyon, France	France	
2012 - 2013	University Claude Bernard of Lyon, France	France	
2009 - 2012	University of Coimbra	Portugal	
2006 - 2008	University Claude Bernard of Lyon, France	France	
2004 - 2006	University Institute of Technology of Nice and Sophia-Antipolis Côte d'Azur	France	
2003 - 2006	Centre of Scientific and Technical Construction	France	Researcher contract with CSTB, as a doctoral student at the LIRIS laboratory, Claude Bernard Lyon University 1, Lyon, partially funded by the Association Nationale de Recherche et Technologie (ANRT)
1999 - 2001	Aldeia e Irmão, S.A.	Portugal	

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2025/2026	2º	Blockchain	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2025/2026	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 Computer Science and Business Management;	Yes
2025/2026	1º	Data Storage in Decentralised Systems	Master Degree in Telecommunications and Computer Engineering;	Yes
2024/2025	2º	Strategic Management and Organizational Information Systems		Yes
2024/2025	2º	Information Technology and Knowledge Management		Yes
2024/2025	2º	Benefit Management and Information System Governance		Yes
2024/2025	2º	Blockchain	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes

2024/2025	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 Computer Science and Business Management;	Yes
2024/2025	1°	Information Technology and Knowledge Management		Yes
2024/2025	1°	Information System Design		Yes
2024/2025	1°	Seminar in Information System Management 2	Master Degree in Information Systems Management;	Yes
2024/2025	1°	Dissertation in Information System Management		Yes
2024/2025	1°	Data Storage in Decentralised Systems	Master Degree in Telecommunications and Computer Engineering;	Yes
2024/2025	1°	Cities Futures – Interdisciplinary Challenges	Postgraduate Seminar in Cities Futures – Interdisciplinary Challenges;	Yes
2023/2024	2°	Benefit Management and Information System Governance		Yes
2023/2024	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 Computer Science and Business Management;	Yes
2023/2024	1°	Information System Design		Yes
2023/2024	1°	Seminar in Information System Management 2	Master Degree in Information Systems Management;	Yes
2023/2024	1°	Dissertation in Information System Management		Yes
2023/2024	1°	Data Storage in Decentralised Systems	Master Degree in Telecommunications and Computer Engineering;	Yes
2022/2023	2°	Strategic Management and Organizational Information Systems		Yes
2022/2023	2°	Seminar in Information System Management 1		Yes
2022/2023	2°	Benefit Management and Information System Governance		Yes

2022/2023	2°	Dissertation in Information System Management		Yes
2022/2023	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 Computer Science and Business Management;	Yes
2022/2023	1°	Strategic Management and Organizational Information Systems		Yes
2022/2023	1°	Seminar in Information System Management 1		Yes
2022/2023	1°	Information System Design		Yes
2022/2023	1°	Seminar in Information System Management 2	Master Degree in Information Systems Management;	Yes
2022/2023	1°	Dissertation in Information System Management		Yes
2022/2023	1°	Data Storage in Decentralised Systems	Master Degree in Telecommunications and Computer Engineering;	Yes
2021/2022	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 Computer Science and Business Management;	Yes
2021/2022	1°	Data Storage in Decentralised Systems	Master Degree in Telecommunications and Computer Engineering;	Yes
2020/2021	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 Computer Science and Business Management;	Yes
2020/2021	1°	Data Storage in Decentralised Systems	Master Degree in Telecommunications and Computer Engineering;	Yes
2019/2020	2°	IoT for Smart Cities	Postgraduate Seminar in IoT for Smart Cities;	No
2019/2020	2°	Distributed Information Systems		No

Supervisions

- **Ph.D. Thesis**
- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	João Paulo Moleiro Domingues	Cybersecurity risk mitigation strategies based on Blockchain, Digital Twin and AI in IoT-Enabled Smart Grids and Critical Energy Infrastructure	English	Developing	Iscte
2	Beatriz Paulino	Effect of air pollution on populations in urban areas of PIONEER cities: comparative study of Lisbon and Lyon	English	Developing	Iscte
3	Filipe Nuno Rocha Aniceto Pinto	People - Centered DLT-IoT Architecture	English	Developing	Iscte
4	Rubia Scrocaro	Confiança e Sustentabilidade na Tramitação de Processos Electrónicos Jurídicos capacitada por Blockchain	Portuguese	Developing	Iscte
5	Mouloud Afoulous	Digital Wallets in the Metaverse: A Blockchain-Based Approach to Enhance Payment Systems	English	Developing	Iscte
6	Muhammad Ali Haider	Decentralized Architecture Supporting Interoperability, Storage, and Processing Capacity for Personal Health Data	English	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Léo Besançon	Interoperability of blockchains systems	English	Universidade de Lyon 1	2021
2	Mouna Labiadh	Methodology for construction of adaptive models for the simulation of energy consumption in buildings	English	Universidade de Lyon 1	2021
3	Gavin Kemp	CURARE: curation and management of big data collections in the cloud	English	Universidade de Lyon 1	2018
4	Hind Benfenatki	Method for automated provisioning of service-oriented cloud business applications	French	Universidade de Lyon 1	2016
5	Cheikh Hito Kacfeh Emani	Automatic and semantic formalization of business rules	English	Universidade de Lyon 1	2016

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
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1	Bruno David Ibraimo Costa	ID Wallets and Digital Credentials in a context of mobility in education.	English	Delivered	Iscte
2	Artur Jorge Pinto Fernandes	A transformação digital da gestão interna em bibliotecas públicas: o contributo das ferramentas colaborativas	--	Developing	Iscte
3	Zulmira de Fátima da Silva Bernardo	Technological design and process development of post-discharge monitoring	--	Developing	Iscte
4	João Diogo de Freitas Branco	Development of a Decentralized Digital Wallet for the Control of the Personal Digital Twin	--	Developing	Iscte
5	Ana Isabel Antunes Evangelista Loures Xavier	Selective data deletion and the "right to be forgotten" in the organisational context of the GDPR – A systematic literature review	--	Developing	Iscte
6	Rui Miguel Franco Duarte	Blockchain-powered Personal AI - Digital Twin Edge Gateway	--	Developing	Iscte
7	Pedro Miguel Sousa Almeida	Digital Wallet on Blockchain-powered Personal AI	--	Developing	Iscte
8	Rita Rosado de Azevedo	Blockchain-powered Personal AI – Edge Intelligent Agent	--	Developing	Iscte
9	Simão Barroso Melo	Blockchain e Sustentabilidade: Implementação de uma Plataforma de Rastreabilidade de Matérias-Primas	--	Developing	Iscte
10	Pedro Miguel Santos Borrega	Interoperability among blockchains applied to maritime shipping	--	Developing	Iscte
11	José António Marques Encarnação	The Role of Blockchain in Modernizing Transport Logistics	--	Developing	Iscte
12	Margarida da Silva Duarte Pinto	From data subjects to data masters: A new marketing approach for consumer's data ownership in the digital age	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Hugo de Paula Costa	Blockchain in Maritime Transport - Interoperability of Bill of Lading on Blockchain Platforms	English	Iscte	2025

2	Maria João Borges Bogalho	Personal Digital Twin	English	Iscte	2025
3	Beatriz Alves Damião Correia Paulino	Risk Perception Assessment using Natural Language Processing in Social Neighbourhoods	English	Iscte	2025
4	Carolina da Silva Neto	Acceptance of digital technology in promoting financial literacy and managing personal finances in Portugal.	Portuguese	Iscte	2024
5	Beatriz Oliveira de La Fuente dos Santos	Development of the InCITIES Observatory focused on inclusion, sustainability and resilience indicators for cities	--	Iscte	2024
6	Luis Manuel Pacheco Figueiras	Digitization in an IT Department of Public Administration	Portuguese	Iscte	2024
7	Bernardo Miguel Carmezim	Optimization of the hospital discharge process with the development of a management support platform	English	Iscte	2024
8	José Pedro Camilo Queirós	Blockchain Digital Twins with Decentralized Storage and Provenance	English	Iscte	2023
9	João Paulo Moleiro Domingues	Acceptance and use of smart home technologies in Portugal	Portuguese	Iscte	2023
10	Bernardo Antunes Gomes Augusto	Blockchain Digital Twins Data Sharing	English	Iscte	2023
11	Pedro Filipe Moiteiro de Aquino	Blockchain-based Digital Twins Binding	English	Iscte	2023
12	David da Silva Almeida	Promissory Notes-Driven Data Trading Ocean Protocol Integration in a Personal Data Ecosystem	English	Iscte	2023
13	Simão Pedro Esteves Gonçalves	The influence of technologies on prevention/awareness of biotoxin records	Portuguese	Iscte	2023
14	Eric Lopes Sancha	Music Royalties Management Using Blockchain	English	Iscte	2022
15	Carolina Micaela Domingos Marques	Machine Learning as a tool to support prevention: identification of anxiety levels	Portuguese	Iscte	2022
16	João Rodrigues Carvalho	How machine learning and music can help detect and prevent anxiety disorder episodes	Portuguese	Iscte	2022
17	Ana Sofia Lourenço Alves	Exploring the Potential of Blockchain Technology in Real Estate: A Systematic Literature Review	English	Iscte	2022
18	Camilo Henao Uribe	From Physical to Digital: How Non-Fungible Tokens enable brands to legitimate products? value in the counterfeit fight	English	Iscte	2022

19	Margarida Martins Duarte	Analysis of the influence of non-pharmaceutical interventions and cultural differences on the evolution of COVID-19	English	Iscte	2021
20	Daniel Dantas Calé	Monitoring and analysis of energy consumption in public spaces	Portuguese	Iscte	2020
21	Harilanto Nandrianina Rakotovoao	Automatic energetic simulation of buildings	English	Iscte	2019
22	Léo Besançon	Deep Learning for modification of sound data in real time	English	Iscte	2018
23	Mustapha Ouimhd	Energetic modeling of a set of buildings	French	Universidade de Lyon 1	2017
24	Achraf Rahmouni	IoT objects to manage the usage and exploitation of buildings	English	Iscte	2017
25	Sabrine Taissi	Analysis of Prices Fluctuation in the Airline Market	English	Universidade de Lyon 1	2016
26	Pedropablo Lopez Amaya	Big data management for intelligents transport systems and J2EE interface for formalization of business rules	French	Universidade de Lyon 1	2015
27	Daniel Guedes Barrigas	CloudAid2 - Agregation of Linked USDL Cloud Services using Multi-Criteria Methods	English	Universidade de Coimbra	2014
28	Iman Sassi	Migration to Cloud Computing	French	Universidade de Lyon 1	2014
29	Gavin Kemp	Service-Oriented Architecture for Cloud Application Development	English	Iscte	2014
30	Jorge Araújo	CloudAid - Semantic Mashups of Linked-USDL Services	English	Universidade de Coimbra	2013
31	Levi Baptista	GREAT - Graphical Rules Editing and Auditing Tool	English	Iscte	2012

Total Citations

Web of Science®	308
Scopus	445

Publications

- **Scientific Journals**
- Scientific journal paper

1	Pinto, F., Ferreira da Silva, C., Moro, S. & Aquino, P. (N/A). Consumer-controlled digital twin architecture: How
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	blockchain technology gives consumers control over their smart devices' digital twins and data. Blockchain: Research and Applications. N/A
2	Fekete, A., Neuner, S., Munschauer, C., Buzna, L., Chovanec, D., Holla, K....Ferreira da Silva, C. (2025). An upscaling multi-level and multi-hazard risk assessment for heat and other natural hazards concerning vulnerable groups in Žilina, Slovakia. <i>Natural Hazards</i> . 121 (19), 23021-23053
3	Duarte, M., Ferreira da Silva, C. & Moro, S. (2025). Machine learning models to predict the COVID-19 reproduction rate: Combining non-pharmaceutical interventions with sociodemographic and cultural characteristics. <i>Informatics for Health and Social Care</i> . 50 (2), 81-99
4	Sarroeira, R., Henriques, J., Sousa, A. M., Ferreira da Silva, C., Nunes, N., Moro, S....Botelho, M. do C. (2023). Monitoring sensors for urban air quality: The case of the municipality of Lisbon. <i>Sensors</i> . 23 (18) - Times Cited Web of Science®: 9 - Times Cited Scopus: 8 - Times Cited Google Scholar: 18
5	Labiadh, M., Obrecht, C., Ferreira da Silva, C., Ghodous, P. & Benabdeslem, K. (2023). Query-adaptive training data recommendation for cross-building predictive modeling. <i>Knowledge and Information Systems</i> . 65 (2), 707-732 - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 2
6	Besancon, L., Ferreira da Silva, C., Ghodous, P. & Gelas, J.- P. (2022). A blockchain ontology for DApps development . <i>IEEE Access</i> . 10, 49905-49933 - Times Cited Web of Science®: 24 - Times Cited Scopus: 33 - Times Cited Google Scholar: 50
7	Duarte, M., Moro, S. & Ferreira da Silva, C. (2022). Does cultural background influence the dissemination and severity of the COVID-19 pandemic?. <i>Heliyon</i> . 8 (2) - Times Cited Web of Science®: 5 - Times Cited Scopus: 7 - Times Cited Google Scholar: 6
8	Labiadh, M., Obrecht, C., Ferreira da Silva, C. & Ghodous, P. (2021). A microservice-based framework for exploring data selection for cross-building knowledge transfer. <i>Service Oriented Computing and Applications</i> . 15 (2), 97-107 - Times Cited Web of Science®: 5 - Times Cited Scopus: 3 - Times Cited Google Scholar: 12
9	Ferreira da Silva, C. & Moro, S. (2021). Blockchain technology as an enabler of consumer trust: a text mining literature analysis. <i>Telematics and Informatics</i> . 60 - Times Cited Web of Science®: 47 - Times Cited Scopus: 54 - Times Cited Google Scholar: 104
10	Ferreira, J., Ferreira da Silva, C. & José P. Martins (2021). Roaming service for electric vehicle charging using blockchain-based digital identity. <i>Energies</i> . 14 (6) - Times Cited Web of Science®: 22 - Times Cited Scopus: 27 - Times Cited Google Scholar: 36

11	<p>Cheikh Kacfeh Emani, Ferreira da Silva, C., Bruno Fiès & Ghodous, P. (2019). NALDO: From natural language definitions to OWL expressions. <i>Data and Knowledge Engineering</i>. 122, 130-141</p> <p>- Times Cited Web of Science®: 4</p> <p>- Times Cited Scopus: 5</p> <p>- Times Cited Google Scholar: 10</p>
12	<p>Benfenatki, H., Ferreira da Silva, C., Kemp, G., Benharkat, A.-N., Ghodous, P. & Maamar, Z. (2017). MADONA: a method for automated provisioning of cloud-based component- oriented business applications. <i>Service Oriented Computing and Applications</i>. 11, 87-100</p> <p>- Times Cited Scopus: 12</p> <p>- Times Cited Google Scholar: 18</p>
13	<p>Benfenatki, Hind , Ferreira da Silva, C., Benharkat, Aïcha-Nabila , Ghodous, P. & Maamar, Zakaria (2017). Linked USDL Extension for Describing Business Services and Users' Requirements in a Cloud Context. <i>International Journal of Systems and Service-Oriented Engineering</i>. 7 (3), 15-31</p> <p>- Times Cited Web of Science®: 5</p> <p>- Times Cited Google Scholar: 9</p>
14	<p>Melo, P., Rupino da Cunha, P., Ferreira da Silva, C. & Macedo, A. (2017). Automatic run-time versioning for BPEL processes. <i>Service Oriented Computing and Applications</i>. 11 (3), 315-327</p> <p>- Times Cited Scopus: 2</p> <p>- Times Cited Google Scholar: 4</p>
15	<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> <p>- Times Cited Web of Science®: 23</p> <p>- Times Cited Scopus: 21</p> <p>- Times Cited Google Scholar: 35</p>
16	<p>Kemp, Gavin , López Amaya, P., Ferreira da Silva, C., Vargas-Solar, G., Ghodous, P. & Collet, C. (2016). Big Data Collections and Services for Building Intelligent Transport Applications. <i>International Journal of Electronic Business Management</i>. 14 (1)</p> <p>- Times Cited Google Scholar: 3</p>
17	<p>Kemp, G., Vargas-Solar, G., Ferreira da Silva, C., Ghodous, P., Collet, C. & López Amaya, P. (2016). Cloud big data application for transport. <i>International Journal of Agile Systems and Management</i>. 9 (3), 232-250</p> <p>- Times Cited Scopus: 8</p> <p>- Times Cited Google Scholar: 8</p>
18	<p>Kacfeh Emani, C.H., Ferreira da Silva, C., Fiès, B. & Ghodous, P. (2016). Improving Open Information Extraction for Semantic Web Tasks. <i>Lecture Notes in Computer Science</i>. 9630, 139-158</p> <p>- Times Cited Scopus: 1</p> <p>- Times Cited Google Scholar: 5</p>
19	<p>Khalfallah, M., Figay, N., Ferreira da Silva, C. & Ghodous, P. (2016). A cloud-based platform to ensure interoperability in aerospace industry. <i>Journal of Intelligent Manufacturing</i>. 119-129</p> <p>- Times Cited Web of Science®: 26</p> <p>- Times Cited Scopus: 27</p> <p>- Times Cited Google Scholar: 38</p>
20	<p>Figay, N., Ghodous, P., Ghafour, S. A., Ferreira da Silva, C. & Expósito, E. (2015). Pragmatic PLM process interoperability for aeronautic, space and defence DMN. <i>Journal of Aerospace Operations</i>. 3 (3,4), 147-166</p> <p>- Times Cited Web of Science®: 2</p> <p>- Times Cited Google Scholar: 2</p>

21	Kacfeh Emani, C.H., Ferreira da Silva, C., Fiès, B. & Ghodous, P. (2015). BEAUFORD: A Benchmark for Evaluation of Formalisation of Definitions in OWL. Open Journal of Semantic Web. 2 (1), 4-15 - Times Cited Google Scholar: 2
22	Jardim-Goncalves, R., Coutinho, C., Cretan, A., Ferreira da Silva, C. & Ghodous, P. (2014). Collaborative negotiation for ontology-driven enterprise businesses. Computers in Industry. 65 (9), 1232-1241 - Times Cited Web of Science®: 13 - Times Cited Scopus: 15 - Times Cited Google Scholar: 20
23	Vargas-Solar, G., Ferreira da Silva, C., Ghodous, P. & Zechinelli-Martini, J.-L. (2013). Moving energy consumption control into the cloud by coordinating services. International Journal of Computers and their Applications. 20 (4), 236 -244 - Times Cited Google Scholar: 1
24	Ferreira da Silva, C., Melo, P., Paulo Rupino da Cunha & Milheiro, P. (2013). Using Semantics to Discover Web Services based on Partial Data: An Update of Previous Research. International Journal of Strategic Information Technology and Applications. 4 (4), 44-59
25	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. International Journal of Electronic Business Management. 11 (3), 168-177 - Times Cited Google Scholar: 4
26	Ferreira da Silva, C., Hoffmann, P. & Ghodous, P. (2011). Improve Business Interoperability Through Context-Based Ontology Reconciliation. International Journal of Electronic Business Management. 9 (4), 281-295 - Times Cited Google Scholar: 4
27	Ferreira da Silva, C., Médini, L., Ghafour, S. A., Hoffmann, P. , Ghodous, P. & Lima, C. (2006). Semantic Interoperability of Heterogeneous Semantic Resources. Electronic Notes in Theoretical Computer Science. 150 (2), 71-85 - Times Cited Web of Science®: 4 - Times Cited Scopus: 12 - Times Cited Google Scholar: 28
28	Slimani, K., Ferreira da Silva, C., Medini, L. & Ghodous, P. (2006). Conflict mitigation in collaborative design. International Journal of Production Research. 44 (9), 1681-1702 - Times Cited Web of Science®: 36 - Times Cited Scopus: 41 - Times Cited Google Scholar: 63

- Review article

1	Pinto, F., Ferreira da Silva, C. & Moro, S. (2022). People-centered Distributed Ledger Technology-IoT architectures: A systematic literature review. Telematics and Informatics. 70 - Times Cited Web of Science®: 10 - Times Cited Scopus: 13 - Times Cited Google Scholar: 21
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• Books and Book Chapters

- Book chapter

1	Silva, C. F. da, Geada, N., Teixeira, B., Guimarães, F., Costa, J. & Souza Junior, O. (2023). Metodologia
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	<p>andragógica por projeto: Aplicação à conceção e desenvolvimento de sistemas de informação . In Joana Alexandre, Alexandre Almeida, Ana Espírito-Santo, Ana Lúcia Martins, Cecília Aguiar, Nádia Simões (Ed.), Exemplos de práticas pedagógicas e estratégias de inovação pedagógica no Iscte. (pp. 93-110). Lisboa: Iscte - Instituto Universitário de Lisboa.</p>
2	<p>Botelho, M.do C., Nunes, N., Ferreira da Silva, C., Alexandre, I., Guerreiro, M. D. & Sousa, M. (2023). International mobility challenges in higher education in the digital era. In Maria José Sousa, Andreia de Bem Machado, Gertrudes Aparecida Dandolini (Ed.), Technologies for sustainable global higher education. (pp. 187-210). London: Routledge.</p>
3	<p>Ferreira da Silva, C., Cunha, P. & Melo, P. (2022). O impacto organizacional e social das tecnologias emergentes: o caso das blockchains. In Isabel Ramos, Rui Dinis Sousa, Rui Quaresma, Associação Portuguesa de Sistemas de Informação (Ed.), Sistemas de informação: diagnósticos e prospetivas. (pp. 165-192): Sílabo.</p>
4	<p>Figay, N., Ferreira da Silva, C., Ghodous, P. & Jardim-Goncalves, R. (2015). Resolving interoperability in concurrent engineering. In Concurrent Engineering in the 21st Century: Foundations, Developments and Challenges. (pp. 133-163): Springer International Publishing.</p> <p>- Times Cited Scopus: 20</p> <p>- Times Cited Google Scholar: 21</p>
5	<p>Ferreira da Silva, C., Paulo Rupino da Cunha, Ghodous, P. & Melo, P. (2010). The semantic side of service-oriented architectures. In Gregoris Mentzas, Andreas Friesen (Ed.), Semantic Enterprise Application Integration for Business Processes: Service-Oriented Frameworks. (pp. 90).</p> <p>- Times Cited Scopus: 3</p> <p>- Times Cited Google Scholar: 7</p>

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	<p>Mouloud AFOULOUS & Ferreira da Silva, C. (2025). Digital Wallets in the Metaverse: A Blockchain-Based Approach to Enhance Payment Systems. In Proceedings of the 1st Iberian Conference on Cybersecurity and Artificial Intelligence. Covilhã</p>
2	<p>Mouloud AFOULOUS & Ferreira da Silva, C. (2025). Digital Wallets in the Metaverse: A Blockchain-Based Approach to Enhance Payments. In 4th EAI BlockTEA - International Conference on Blockchain Technology and Emerging Applications - Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering. Venice: Springer.</p>
3	<p>Domingues, J. & Ferreira da Silva, C. (2024). Acceptance and use of smart home technologies: A focus on Portugal. In Mahmoud Barhamgi, Hua Wang, Xin Wang (Ed.), Web Information Systems Engineering – WISE 2024: 25th International Conference, Proceedings, Part III. (pp. 359-370). Doha: Springer Nature.</p>
4	<p>Silva, C. F. da., Nunes, N., Moro, S., Henriques, J., Sousa, A. & Sarroeira, R. (2023). Environmental inequalities in the municipality of Lisbon: Spatial analysis of combustion gases. In Transportation Research Procedia. (pp. 1216-1223): Elsevier.</p> <p>- Times Cited Web of Science®: 2</p> <p>- Times Cited Google Scholar: 3</p>
5	<p>Besançon, L., Ghodous, P., Gelas, J.-P. & Silva, C. F. da (2021). Modelling of decentralised blockchain applications development. In Proceedings of the 2020 International Conference on High Performance Computing & Simulation (HPCS 2020). Virtual, Online: HAL.</p> <p>- Times Cited Google Scholar: 7</p>

6	Rahmouni, A., Silva, C. F. & Ghodous, P. (2020). Methodological approach for creating an IoT manufacturing application. In Boubchir, L., Benkhelifa, E., Jararweh, Y. and Saleh, I. (Ed.), 2020 7th International Conference on Internet of Things: Systems, Management and Security (IOTSMS). Paris, France: IEEE.
7	Labiadh, M., Obrecht, C., Ferreira da Silva, C. & Ghodous, P. (2019). On the suitability of Data Selection for Cross-building Knowledge Transfer. In The 17th International Conference on High Performance Computing Simulation (HPCS 2019). Dublin: IEEE.
8	Besançon, L., Ferreira da Silva, C. & Ghodous, P. (2019). Towards Blockchain Interoperability: Improving Video Games Data Exchange. In 2019 IEEE International Conference on Blockchain and Cryptocurrency (ICBC). (pp. 81-85). Seoul, Korea (South): IEEE. - Times Cited Web of Science®: 25 - Times Cited Scopus: 36 - Times Cited Google Scholar: 62
9	Vargas-Solar, G., Kemp, G., Hernández-Gallegos, I., Espinosa-Oviedo, J.A., Ferreira da Silva, C. & Ghodous, P. (2019). Demonstrating data collections curation and exploration with CURARE. In Proceedings of the 22nd International Conference on Advances in Database Technology (EDBT). (pp. 598-601). Lisboa - Times Cited Scopus: 3 - Times Cited Google Scholar: 4
10	Vargas-Solar, G., Kemp, Gavin , Hernández-Gallegos, I., Espinosa-Oviedo, J.A., Ferreira da Silva, C. & Ghodous, P. (2019). Exploring and Curating Data Collections with CURARE: demonstration. In Proceeding of the 35eme Conference sur la Gestion de Donnees – Principes, Technologies et Applications. Lyon
11	Acar, H., Benfenatki, H., Gelas, J.-P., Ferreira da Silva, C., Alptekin, G. I., Benharkat, A.-N....Ghodous, P. (2018). Software Greenability: A Case Study of Cloud-Based Business Applications Provisioning. In CLOUD 2018 - IEEE 11th International Conference on Cloud Computing. (pp. 875-878). San Francisco, CA: IEEE. - Times Cited Web of Science®: 3 - Times Cited Scopus: 4 - Times Cited Google Scholar: 6
12	Kacfeh Emani, C.H., Ferreira da Silva, C., Bruno Fiès, Zarli, A. & Ghodous, P. (2016). An Approach for Automatic Formalization of Business Rules. In Proc. of the 33rd CIB W78 Conference (International Council for Research and Innovation in Building and Construction). Brisbane : ITC Digital library . - Times Cited Google Scholar: 3
13	Rozsa, V., Deniszczwicz, M., Dutra, M., Ghodous, P., Ferreira da Silva, C., Moayeri, N....Figay, N. (2016). An Application Domain-Based Taxonomy for IoT Sensors. In Proc. of the 23rd ISPE International Conference on Transdisciplinary Engineering: Crossing Boundaries. (pp. 249-258). Curitiba: IOS Press. - Times Cited Web of Science®: 19 - Times Cited Scopus: 21 - Times Cited Google Scholar: 38
14	Kemp, Gavin , Vargas-Solar, G., Ferreira da Silva, C., Ghodous, P., Collet, C. & López Amaya, P. (2015). Towards Cloud big data services for intelligent transport systems. In Richard Curran, Nel Wognum, Milton Borsato, Josip Stjepandi, Wim J.C. Verhagen (Ed.), Proc. of Concurrent Engineering, Advances in Transdisciplinary Engineering, Vol. 2: Transdisciplinary Lifecycle Analysis of Systems. (pp. 377-385). Delft: IOS Press. - Times Cited Web of Science®: 6 - Times Cited Scopus: 8 - Times Cited Google Scholar: 12

15	<p>Ouedraogo, W. F., Biennier, F., Ferreira da Silva, C. & Ghodous, P. (2015). Context-aware Security@run.time Deployment. In Proc. of CLOSER 2015 - 5th International Conference on Cloud Computing and Services Science. (pp. 276-283). Lisboa: Science and Technology Publications.</p> <p>- Times Cited Scopus: 3</p> <p>- Times Cited Google Scholar: 4</p>
16	<p>Kacfah Emani, C.H., Ferreira da Silva, C., Fiès, B., Ghodous, P. & Bourdeau, B. (2015). Automated Semantic Enrichment of Ontologies in the Construction Domain. In Proceedings of the 32nd International Conference of CIB W78 (Council for Research and Innovation in Building and Construction). (pp. 159-164). Eindhoven: ITC Digital library.</p> <p>- Times Cited Google Scholar: 5</p>
17	<p>Kemp, G. , Vargas-Solar, G., Ferreira da Silva, C., Ghodous, P. & Collet, C. (2015). Service Oriented Big Data Management for Transport. In Helfert M., Krempels KH., Klein C., Donellan B., Guiskhin O. (Ed.), Proc. of International Conference on Smart Cities and Green Technologies, and Intelligent Transport Systems. Communications in Computer and Information Science series. Switzerland: Springer, Cham.</p>
18	<p>Kemp, G., Vargas-Solar, G., Ferreira da Silva, C., Ghodous, P. & Collet, C. (2015). Aggregating and managing big realtime data in the cloud: Application to intelligent transport for smart cities. In Markus Helfert and Oleg Gusikhin (Ed.), Proceedings of International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS). (pp. 107-112). Lisboa: scitepress.</p> <p>- Times Cited Scopus: 18</p> <p>- Times Cited Google Scholar: 20</p>
19	<p>Benfenatki, Hind , Ferreira da Silva, C., Benharkat, Aïcha-Nabila & Ghodous, P. (2014). Cloud-based Business Applications Development Methodology. In Proc. of the 23rd IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE). (pp. 275-280). Parma: IEEE Computer Society.</p> <p>- Times Cited Web of Science®: 6</p> <p>- Times Cited Scopus: 10</p> <p>- Times Cited Google Scholar: 20</p>
20	<p>Emani, C.K., Ferreira da Silva, C., Fiès, B. & Ghodous, P. (2014). Improving open information extraction using domain knowledge. In Proc. of Surfacing the Deep and the Social Web (SDSW), co-located with the 13th International Semantic Web Conference (ISWC 2014).</p> <p>- Times Cited Google Scholar: 1</p>
21	<p>Benfenatki, Hind , Ferreira da Silva, C., Benharkat, Aïcha-Nabila & Ghodous, P. (2014). Cloud Application Development Methodology. In Proc. of the IEEE/WIC/ACM International Conference on Web Intelligence (WI 2014). (pp. 13-20). Warsaw: IEEE Computer Society.</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Scopus: 5</p> <p>- Times Cited Google Scholar: 5</p>
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23	<p>Kacfah Emani, C.H., Ferreira da Silva, C., Fiès, B., Ghodous, P. & Khosrowshahi, F. (2014). Structural Sentence Decomposition via Open Information Extraction. In Proc. of the 18th International Conference Information Visualisation (IV2014). Paris</p> <p>- Times Cited Google Scholar: 1</p>

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25	Benfenatki, Hind , Kemp, Gavin , Ferreira da Silva, C., Benharkat, Aïcha-Nabila & Ghodous, P. (2014). Service-Oriented Architecture for Cloud Application Development. In Jianzhong Cha, Shuo-Yan Chou, Josip Stjepandi, Richard Curran, Wensheng Xu (Ed.), Proc. of the 21st ISPE International Conference on Concurrent Engineering (CE 2014), Advances in Transdisciplinary Engineering, Vol. 1: Moving Integrated Product Development to Service Clouds in Global Economy. (pp. 307-316). Beijing: IOS Press. - Times Cited Scopus: 2 - Times Cited Google Scholar: 3
26	Khalfallah, M., Figay, N., Barhamgi, M., Ferreira da Silva, C. & Ghodous, P. (2013). Towards Combining Declarative Specification with On-the-fly Mediation. In Proc. of the IEEE 10th International Conference on Services Computing (SCC). (pp. 691-698). Santa Clara, CA: IEEE Computer Society. - Times Cited Scopus: 1 - Times Cited Google Scholar: 8
27	Paulo Rupino da Cunha, Melo, P. & Ferreira da Silva, C. (2013). Avoiding Lock-In: Timely Reconfiguration of a Virtual Cloud Platform on Top of Multiple PaaS and IaaS Providers. In Proc. of the IEEE Sixth International Conference on Cloud Computing, 2013. Santa Clara, CA: IEEE Computer Society. - Times Cited Web of Science®: 2 - Times Cited Scopus: 3 - Times Cited Google Scholar: 4
28	Khalfallah, M., Figay, N., Ghodous, P. & Ferreira da Silva, C. (2013). Cross-organizational Business Processes Modeling Using Design-by-Contract Approach. In van Sinderen M., Oude Luttighuis P., Folmer E., Bosems S. (Ed.), Proc. of the 5th International Working Conference on Enterprise Interoperability (IWEI), Lecture Notes in Business Information Processing. (pp. 77-90). Enschede: Springer, Berlin, Heidelberg. - Times Cited Scopus: 3 - Times Cited Google Scholar: 10
29	Ferreira da Silva, C., Baptista, L., Paulo Rupino da Cunha & Melo, P. (2012). Empowering end-users to manage business rules: The case of a graphical environment built for a telco. In Josip Stjepandi, Georg Rock, Cees Bil (Ed.), 19th ISPE International Conference on Concurrent Engineering (Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment. (pp. 1193-1204). Trier: Springer, London. - Times Cited Scopus: 1
30	Ferreira da Silva, C., Rupino da Cunha, P., Melo, P. & Themistocleous, M. (2010). Semantics take the SOA registry to the next level: An empirical study in a telecom company. In 16th Americas Conference on Information Systems 2010, AMCIS 2010. Lima: Association for Information Systems. - Times Cited Google Scholar: 2
31	Paulo Rupino da Cunha, Melo, P. & Ferreira da Silva, C. (2009). A Funny Thing Happened on the Way to SOA: Insights from a Three-Year Experience with a Telecom Company. In Grace Lewis, Dennis B. Smith, Ned Chapin, Kostas Kontogiannis (Ed.), Proceedings of the 3rd International Workshop on a Research Agenda for Maintenance and Evolution of Service-Oriented Systems (MESOA 2009). (pp. 41-51). Pittsburgh: Software Engineering Institute Carnegie Mellon University. - Times Cited Google Scholar: 2

32	<p>Lima Dutra, M., Ferreira da Silva, C., Ghodous, P. & Jardim-Goncalves, R. (2008). Using an inference engine to detect conflicts in collaborative design. In Proc. of the 2008 IEEE International Technology Management Conference, ICE 2008. Lisbon: Institute of Electrical and Electronics Engineers Inc.</p> <p>- Times Cited Scopus: 2</p> <p>- Times Cited Google Scholar: 9</p>
33	<p>Ferreira da Silva, C., Medini, L., Lima, C. & Ghodous, P. (2006). Improving Mappings Discovery for Semantic Interoperability. In Proc. of the 13th ISPE International Conference on Concurrent Engineering: Research and Applications, Leading the Web in Concurrent Engineering. (pp. 227-234). Antibes: IOS Press.</p> <p>- Times Cited Google Scholar: 1</p>
34	<p>Ferreira da Silva, C., Pimentão, J.P. & Lima, C. (2006). Assessing the quality of mappings between semantic resources in construction. In Smith I.F.C. (Ed.), LNAI, Proc. of Intelligent Computing in Engineering and Architecture. EG-ICE 2006. (pp. 416-427). Ascona: Springer, Berlin, Heidelberg.</p> <p>- Times Cited Google Scholar: 3</p>
35	<p>Ferreira da Silva, C., Lima, C., Médini, L., Ghodous, P. & Zarli, A. (2006). Enhancing Semantic Interoperability among Semantic Resources for Construction. In Proceed. of the Joint International Conference on Computing and Decision Making in Civil and Building Engineering (joint International Council for Research and Innovation in Building and Construction CIB W78, W102, ICCCB, ICC, and DMUC) . (pp. 2487-2496). Montreal: Digital library of construction informatics and information technology in civil engineering and construction.</p> <p>- Times Cited Google Scholar: 2</p>
36	<p>Lima, C., Storer, G, Zarli, A. & Ferreira da Silva, C. (2005). Towards a framework for managing standards-based semantic e-Resources in the European Construction Industry. In Iris D. Tommelein (Ed.), Proc. of Construction Research Congress 2005 (CRC 2005) Broadening Perspectives. San Diego, California: ASCE library.</p> <p>- Times Cited Google Scholar: 7</p>
37	<p>Ferreira da Silva, C., Médini, L., Ghafour, S. A., Hoffmann, P. & Ghodous, P. (2005). Semantic interoperability of heterogeneous semantic resources. In 7th International Conference on Coordination Models and Languages - Database Interoperability (InterDB 2005). (pp. 71-85). Namur</p> <p>- Times Cited Google Scholar: 4</p>
38	<p>Lima, C., Ferreira da Silva, C., Le Duc, C. & Zarli, A. (2005). A Framework to Support Interoperability among Semantic Resources. In Konstantas D., Bourrières JP., Léonard M., Boudjlida N. (Ed.), Proceed. of International Conference on Interoperability of Enterprise Software and Applications. (pp. 87-98). Geneva: Springer-Verlag London.</p> <p>- Times Cited Web of Science®: 4</p> <p>- Times Cited Google Scholar: 20</p>
39	<p>Lima, C., Ferreira da Silva, C., Sousa, P. A. C., Pimentão, J.P. & Le Duc, C. (2005). Interoperability among Semantic Resources in Construction: Is it Feasible?. In R. J. Scherer, P.; Katranuschkov, S-E. Schapke (Ed.), Proc. of the 22nd CIB-W78 Conference Information Technology in Construction, CIB publications Institute for Construction Informatics. (pp. 285-292). Dresden: CIB publications Institute for Construction Informatics.</p> <p>- Times Cited Google Scholar: 20</p>
40	<p>Ferreira da Silva, C., Médini, L. & Ghodous, P. (2004). Attenuation de conflits en conception cooperative. In N. Matta (Ed.), Proc. of 15emes journees francophones d'Ingenierie des Connaissances. (pp. 127-138). Grenoble: Presses Universitaires de Grenoble.</p>
41	<p>Ferreira da Silva, C., Médini, L. & Ghodous, P. (2004). Conflicts mitigation in collaborative design. In M. Sobolewski, J. Cha (Ed.), Proc. of the 11th ISPE International Conference on Concurrent Engineering: The Worldwide Engineering Grid. Beijing: Tsinghua University Press.</p>

42	<p>Lima, C., Fiès, B., Ferreira da Silva, C. & Barresi, S. (2004). Setting up the Open Semantic Infrastructure for the European Construction Sector – the FUNSIEC Project. In Dikba & Scherer (Ed.), Proc. of the 5th European Conference on Product and Process Modelling in the Building and Construction Industry (ECPPM 2004) eWork and eBusiness in Architecture, Engineering and Construction. (pp. 540-554). Istanbul: Taylor & Francis Group.</p> <p>- Times Cited Google Scholar: 4</p>
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- Talk

1	Ferreira da Silva, C. (2025). Take Action for the Sustainable Development Goals Insights from 2 international projects InCITIES and RETIME. Iscte International Staff Week Promote EU values and active citizenship in a challenging world.
2	Ferreira da Silva, C. (2025). Invited guest on the Roundtable on tips and views from successful applicants – Portuguese Innovation National Agency (ANI) info session Horizon Europe. Info Session Horizon Europe: Built4People & New European Bauhaus European Funding for the Built Environment, Neighborhoods and Urban Planning.
3	Nunes, N., Ferreira da Silva, C., Moro, S., Henriques, J., Sousa, Ana M., Botelho, M.C....Sarroeira, R. (2024). Monitoring sensors for urban air quality: The case of the municipality of Lisbon. Questioning urban transition- Vulnerability inclusion and health – InCITIES Scientific Café.
4	Nunes, N., Ferreira da Silva, C., Botelho, M.C., Moro, S., Henriques, J., Sarroeira, R....Sousa, A. (2024). Air Quality in Cities: Which Policies for Well-Being and Sustainable Development?. PARIS WELLBEING 2024 International Interdisciplinary Conference Wellbeing, Public Policies and Sustainable Development.
5	Ferreira da Silva, C. & Domingues, João Paulo Moleiro (2024). Acceptance and use of smart home technologies: a focus on Portugal. International Conference on Web Information Systems Engineering – WISE 2024 - Lecture Notes in Computer Science (LNCS) 15438.
6	Ferreira da Silva, C., Nunes, N., Botelho, M.C., Moro, S., Henriques, J., Sarroeira, R....Sousa, Ana M. (2024). Monitoring Sensors for Urban Air Quality: The Case of the Municipality of Lisbon. 2º Encontro do Laboratório de Dados Urbanos de Lisboa.
7	Sarroeira, R., Henriques, J., Sousa, Ana M., Ferreira da Silva, C., Nunes, N., Moro, S....Botelho, M.C. (2023). Monitoring sensors for urban air quality: the case of the municipality of Lisbon. International Smart Cities Summit, October 2023, Portugal.
8	Ferreira da Silva, C., Livitckaia, K., Alboaie, S., Ellul, J., Revolidis, I., Szego, D....Joshi, A. (2023). Decentralised Social Media online webinar - European Commission Blockchain Observatory and Forum . Decentralised Social Media online webinar - Blockchain Observatory and Forum .
9	Ferreira da Silva, C., Nunes, N., Moro, S., Henriques, J., Sousa, Ana M. & Sarroeira, R. (2022). Environmental inequalities in the city of Lisbon: spatial analysis of combustion gases. TRA Conference 2022.
10	Ferreira da Silva, C., Botelho, M.C., Nunes, N., Guerreiro, MD, Sousa, M., Costa, J. R....Alexandre, I. (2022). InCITIES – Traiblazing Inclusive, Sustainable and Resilient Cities (Horizon Europe Project: coordination and support action. Creative Smart Cities - 1st Science and Industry Meet-Up 2022.
11	Duarte, M., Ferreira da Silva, C. & Moro, S. (2022). Os contextos culturais influenciam a disseminação e a gravidade da pandemia da COVID-19?. Iscte Saúde: 1ª Conferência de Saúde Societal.

12	Ferreira da Silva, C., Paulo Rupino da Cunha & Almeida, P. (2021). Leveraging Blockchain for a living, trustable curriculum vitae. 18th European Mediterranean & Middle Eastern Conference on Information Systems.
13	Ferreira da Silva, C. (2020). Blockchain Skills for ICT Professionals. IEEE@Home Blockchain Series.
14	Ferreira da Silva, C. (2020). Blockchain Skills for ICT Professionals. Winter school IoT and Blockchain for Smart Cities.
15	Ferreira da Silva, C. (2020). Panel IoT and Blockchain for Smart Cities of the International Winter School IoT and Blockchain for Smart Cities. Winter School IoT and Blockchain for Smart Cities.
16	Ouedraogo, W. F., Biennier, F., Ferreira da Silva, C. & Ghodous, P. (2015). Context-aware Security@run.time Deployment. CLOSER 2015 - 5th International Conference on Cloud Computing and Services Science.
17	Ferreira da Silva, C. (2014). Interopérabilité, systèmes d'information collaboratifs et cloud computing. workshop e-Care.
18	Paulo Rupino da Cunha, Melo, P. & Ferreira da Silva, C. (2013). Avoiding lock-in: timely reconfiguration of a virtual cloud platform on top of multiple PaaS and IaaS providers. Avoiding lock-in: timely reconfiguration of a virtual cloud platform on top of multiple PaaS and IaaS providers.
19	Ferreira da Silva, C. (2006). Industrial Standards to structure the construction information. Urban Ontologies for an improved communication in urban civil engineering projects.
20	Ferreira da Silva, C. (2005). Interoperability among knowledge models in cooperative environments. Standards OWL-STEP-AMD.
21	Ferreira da Silva, C., Lima, C. & Le Duc, C. (2005). FUNONDIL software prototype. Final European project FUNSIEC evaluation by the European Commission appointed evaluators.

• Other Publications

- Non-peer-reviewed papers

1	Fernanda Santos Pereira, Ferreira da Silva, C., Guimarães, F., Sousa, M., Fernandes, C. S. & Costa, J. C. W. A. (2015). Data Management System for Structural Health Monitoring. IEEE Latin America Transactions. - Times Cited Web of Science®: 2 - Times Cited Scopus: 3
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- Other publications

1	Damvakeraki, T., Ferreira da Silva, C., Miranda, S. G., Revolidis, I., Szego, D. & Rixhon, P. (2024). Intellectual Property Management. Intellectual Property Management - EU Blockchain Observatory and Forum. - Times Cited Google Scholar: 1
2	Kostopoulos, N., Sekaras, K., Sarafidis, N., Vlachogeorgakopoulos, I., Anania, A., Charles, W....Vasiliu-Feltes, I. (2023). The current state of interoperability between blockchain networks. European Commission - Blockchain Observatory and Forum.
3	Livitckaia, K., Papoutsoglou, I., Votis, K., Revolidis, I., Ellul, J., Ferreira da Silva, C....Joshi, A. (2023). Decentralised Social Media. European Commission Blockchain Observatory and Forum . - Times Cited Scopus: 4

- Master's Dissertation

1	Ferreira da Silva, C. (2003). Gestion des connaissances et atténuation des conflits dans un environnement coopératif.
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- Doctoral Thesis

1	Ferreira da Silva, C. (2007). Discovery of semantic mappings between semantic resources in a cooperative environment. 1-256 - Times Cited Google Scholar: 7
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Research Projects

Project Title	Role in Project	Partners	Period
The European University for Future Cities	Work Package Leader	Iscte, Université Gustave Eiffel - Leader (France), AVANS - (Netherlands), LAUREA - (Finland), TH KOLN - (Germany), UHU - (Spain), IUAV - (Italy), UTB - (Czech Republic), UNIZA - (Slovakia), BFH - (Switzerland)	2025 - 2028
Urban Adaptation and Alert Solutions for a TIMELY (re)Action	Global Coordinator	ISTAR-Iscte (IS) - Global coordinator, ISTAR-Iscte (DLS), UNIZA - (Slovakia), DANMARKS TEKNISKE UNIVERSITET - (Denmark), WEO SAS - (Luxembourg), KAJO SRO - (Slovakia), ICONS - (Italy), ONE - (Italy), TUU - (Portugal), UP - (Portugal), LIST - (Luxembourg), TECNALIA - (Spain), UDEUSTO - (Spain), TH KOLN - (Germany), ŽSK - (Slovakia), IBS - (Estonia), TEAM - (Spain), VELTIS - (Spain), LCC - (Portugal)	2024 - 2028
Decentralize Portugal with blockchain agenda	Researcher	ISTAR-Iscte, BRU-Iscte, CIES-Iscte, CIS-Iscte, VOID - Leader (Portugal), INESC-ID - (Portugal), IST-ID - (Portugal), UM - (Portugal), IPLeiria - (Portugal), BioGHP - (Portugal), INESC TEC - (Portugal), INOV - (Portugal)	2023 - 2025
Trailblazing Inclusive, Sustainable and Resilient Cities	Global Coordinator	Iscte - Leader, TH KOLN - (Germany), LAUREA - (Finland), UNI EIFFEL - (France), UNIZA - (Slovakia)	2022 - 2025
Data science analysis for environmental inequalities	Global Coordinator	CIES-Iscte, ISTAR-Iscte (IS)	2022 - 2023
Impact of Blockchains and Decentralised Ledger Technologies	Global Coordinator	ISTAR-Iscte	2021 - 2022
Summer with Science Training	Researcher	ISTAR-Iscte (SSE)	2020

Academic Management Positions

Sub-diretor (2025 - 2027) Unit/Area: Master Degree in Information Systems Management
Membro (Docente) (2025 - 2027) Unit/Area: Plenário do Conselho Científico
Director (2024 - 2025) Unit/Area: Master Degree in Information Systems Management
Membro (Docente) (2023 - 2025) Unit/Area: Plenário do Conselho Científico
Presidente (2023 - 2026) Unit/Area: Comissão Científica
Director (2023 - 2026) Unit/Area: Information Sciences, Technologies and Architecture Research Center
Membro (Docente) (2023 - 2026) Unit/Area: Comissão Científica
Coordenador do 2º Ano (2022 - 2025) Unit/Area: Master Degree in Information Systems Management
Coordenador do 1º Ano (2022 - 2025) Unit/Area: Master Degree in Information Systems Management
Director (2022 - 2024) Unit/Area: Master Degree in Information Systems Management

Awards

AUDAX_Iscte 2023 FISTA (Forum of Iscte School of Technology and Architecture) to the results of the project Data science analysis for environmental inequalities (DSAEI) (2023)
European Commission distinction "Good Practice Example" attributed to the European project BLISS - Blockchain skills for ICT professionals (2020)
Doctoral and Research Supervision Bonus (Prime d'Encadrement Doctoral et de Recherche, French National Council of Universities): 2019-2022 (2019)
Doctoral and Research Supervision Bonus (Prime d'Encadrement Doctoral et de Recherche, French National Council of Universities) (2018)
Doctoral and Research Supervision Bonus (Prime d'Encadrement Doctoral et de Recherche, French National Council of Universities): validity 2014-2018 (2018)
Doctoral and Research Supervision Bonus (Prime d'Encadrement Doctoral et de Recherche, French National Council of Universities): validity 2014-2018 (2017)
European Commission distinction "Erasmus+ Success Story" and "Good Practice Example" attributed to the European project Vet4Apps - Strategic partnership to develop innovative VET open educational resources for mobile apps entrepreneurs (2017)
Doctoral and Research Supervision Bonus (Prime d'Encadrement Doctoral et de Recherche, French National Council of Universities): validity 2014-2018 (2016)
Doctoral and Research Supervision Bonus (Prime d'Encadrement Doctoral et de Recherche, French National Council of Universities): validity 2014-2018 (2015)
Doctoral and Research Supervision Bonus (Prime d'Encadrement Doctoral et de Recherche, French National Council of Universities) (2014)

Doctoral and Research Supervision Bonus (Prime d'Encadrement Doctoral et de Recherche, French National Council of Universities): validity 2014-2018 (2014)

Research Quality Bonus (Bonus Qualité Recherche), Lyon Claude Bernard University, France (2013)

Research Networks

Research Network Name	Representative Role	Period
EU Blockchain Observatory and Forum	Investigadora	Since 2020
International Association for Trusted Blockchain Applications	Investigadora	Since 2024

Professional Associations

International Association for Trusted Blockchain Applications (Since 2024)

Member of the Expert Panel of the European Blockchain Observatory and Forum (Since 2020)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event committee	2026 Track Decentralized Applications (DAPP) with Blockchain, DLT and Crypto-Currencies	The 41th ACM Symposium on Applied Computing - ACM SAC 2026 DAPP Track	2026
Member of scientific event committee	The 26th International Conference on Web Information Systems Engineering (WISE)	WISE conference Organizing Committee	2025
Member of scientific event committee	17th International Conference on Knowledge Engineering and Ontology Development (KEOD 2025)	KEOD chairs and INSTICC	2025
Member of scientific event committee	22nd European, Mediterranean, and Middle Eastern Conference on Information Systems (EMCIS 2025)	EMCIS 2025 - 22nd European, Mediterranean and Middle Eastern Conference on Information Systems	2025
Member of scientific event committee	research component of Euro-Atlantic Disaster Response Coordination Centre (EADRCC) of the North Atlantic Treaty Organization (NATO) and the Republic of Bulgaria, 20th NATO EADRCC Emergency Management Exercise "BULGARIA 2025"	NATO and Republic of Bulgaria	2025
Coordination of scientific event (with scientific committee) at ISCTE-IUL	The 16th International Conference on Ubiquitous and Future Networks	The Korean Institute of Communications and Information Sciences	2025

Member of scientific event committee	IEEE Global Blockchain Conference	IEEE, Tongji University, Shanghai, China	2025
Member of scientific event committee	Workshop on Large Language Models for Service-Oriented Architectures and Systems Design in conjunction with the 37th International Conference on Advanced Information Systems Engineering (CAISE)	37th International Conference on Advanced Information Systems Engineering (CAISE)	2025
Member of scientific event committee	Dependable and Secure Web3 Blockchain and Smart Contracts Workshop (DepWeb3)	20th European Dependable Computing Conference	2025
Member of scientific event committee	Track Decentralized Applications (DAPP) with Blockchain, DLT and Crypto-Currencies	The 40th ACM Symposium on Applied Computing - ACM SAC 2025 DAPP Track	2025
Member of scientific event committee	The 25th International Web Information Systems Engineering conference	Web Information Systems Engineering conference organization committee, Qatar University	2024
Member of scientific event committee	Cloud Computing Track Chair	EMCIS 2024 - 21th European, Mediterranean and Middle Eastern Conference on Information Systems	2024
Member of scientific event committee	IEEE Global Blockchain Conference	IEEE, Tongji University, Shanghai, China	2024
Member of scientific event committee	Track Decentralized Applications (DAPP) with Blockchain, DLT and Crypto-Currencies	The 39th ACM Symposium on Applied Computing - ACM SAC 2024 DAPP Track	2024
Member of scientific event committee	Proponent of the Track Cloud Computing	EMCIS 2023 - 20th European, Mediterranean and Middle Eastern Conference on Information Systems	2023
Member of scientific event committee	3rd International Conference on Blockchain Technology and Information Security	ICBCTIS committee	2023
Member of scientific event committee	Track Decentralized Applications (DAPP) with Blockchain, DLT and Crypto-Currencies	The 38th ACM Symposium on Applied Computing - ACM SAC 2023 DAPP Track	2023
Member of scientific event committee	Proponent of the Track Cloud Computing	EMCIS 2022 - 19th European, Mediterranean and Middle Eastern Conference on Information Systems	2022
Member of scientific event's organizing committee	ISTAR PhD Meeting Spring 2022	ISTAR Iscte	2022

Member of scientific event committee	Track Decentralized Applications (DAPP) with Blockchain, DLT and Crypto-Currencies	The 37th ACM Symposium on Applied Computing - ACM SAC 2022 DAPP Track	2022
Member of scientific event committee	Proponent and session chair of the track Cloud Computing	EMCIS 2021 - 18th European, Mediterranean and Middle Eastern Conference on Information Systems	2021
Member of scientific event committee	Program committee member of the track Blockchain Technology and Applications	EMCIS 2021 - 18th European, Mediterranean and Middle Eastern Conference on Information Systems	2021
Member of scientific event committee	Program committee member of the track Blockchain Technology and Applications	EMCIS 2020 - 17th European, Mediterranean and Middle Eastern Conference on Information Systems	2020
Member of scientific event committee	Proponent of the Track Cloud Computing	EMCIS 2020 - 17th European, Mediterranean and Middle Eastern Conference on Information Systems	2020
Member of scientific event's organizing committee	SUSTAINABLE CITIES - Viewpoints of the Pioneer Alliance; Open session Integrated with the Summer School IoT for Smart Cities School 2020	Istar_Iscte	2020
Member of free course/summer school's organizing committee	International Winter school IoT and Blockchain for smart cities (2020)	Istar_Iscte	2020
Member of scientific event's organizing committee	Panel IoT and Blockchain for Smart Cities - International Winter school IoT and Blockchain for smart cities (2020)	ISTAR-Iscte	2020
Member of scientific event committee	Proponent of the session Cloud Computing	15th European, Mediterranean and Middle Eastern Conference on Information Systems	2018
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	Invited chair of the session IT Governance	14th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS)	2017
Member of scientific event committee	Chair of the session "Cloud Computing"	14th European, Mediterranean and Middle Eastern Conference on Information Systems (EMCIS)	2017
Member of scientific event committee	Proponent of the session Cloud Computing	14th European, Mediterranean and Middle Eastern Conference on Information Systems	2017

Member of scientific event committee	Proponent of the session Cloud and Distributed Computing Track	10th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA)	2013
Member of scientific event's organizing committee	Leading the Web in Concurrent Engineering	13th ISPE International Conference on Concurrent Engineering: Research and Applications	2006

Diffusion Activities			
Activity Type	Event Title	Activity Description	Year
Coordination of knowledge diffusion event	Roundtable on resilient and inclusive sustainable cities - International Portugal Smart Cities summit 2025	This round table provided an overview of some of the initiatives underway, as well as the challenges we continue to face. Entities involved: CP Comboios de Portugal (Eng. Leão Mendes), Transportes Metropolitanos de Lisboa (António Pinheiro), TUU (Eng. Rita Januário), João Guerreiro (Associate Professor with Aggregation, Iscte) Catarina Ferreira da Silva (moderator, Associate Professor with Aggregation, Iscte)	2025
Talk/Conference in public diffusion event	Portugal Smart Cities summit 2024	Presentation of the EU project InCITIES	2024
Talk/Conference in public diffusion event	2nd Meeting of LxData - Lab - Lisbon Urban Data Laboratory	Presentation of the paper Monitoring sensors for urban air quality: The case of the municipality of Lisbon; Authors: Rodrigo Sarroeira, Catarina Ferreira da Silva, João Henriques, Ana M. Sousa, Nuno Nunes, Sérgio Moro, Maria do Carmo Botelho	2024
Participation in general diffusion news tv show	Decentralised Social Media online workshop - EU Blockchain Observatory and Forum	Member of the discussion panel on Decentralised Social Media	2023
Talk/Conference in public diffusion event	Portugal Smart Cities Summit 2023	Article presentation Monitoring sensors for urban air quality: The case of the municipality of Lisbon; authors: Rodrigo Sarroeira, Catarina Ferreira da Silva, João Henriques, Ana M. Sousa, Nuno Nunes, Sérgio Moro, Maria do Carmo Botelho	2023
Participation in general diffusion news tv show	Television documentary on Blockchain, series Algorithms, RTP3 channel Informação (Portugal)	Invitation to intervene in the documentary on Blockchain in the series Algorithms, broadcast on RTP3 channel Informação (Portugal) - Episode 2 - 02 November 2022	2022

Talk/Conference in public diffusion event	Portugal Smart Cities Summit 2022	Presentation of the Horizon Europe InCITIES project - sustainable, resilient and inclusive cities. Auditório City HUB Stage, side event - 12 October 2022, 15h30	2022
Talk/Conference in public diffusion event	Debate Encounters with Impact: Blockchain and Decentralization	Invitation to debate on Blockchain and Decentralization within the third event of the Encontros com Impacto cycle. It took place on September 22 at Casa do Impacto, Lisboa. It was intended to demystify the real uses of blockchain, address the relationship with the promise of decentralization and inquire about the main criticisms surrounding this technology – namely the energy cost, deregulation of sectors, etc. It is in this sense that divergent perspectives came together.	2022
Talk/Conference in public diffusion event	1st SocioDigital Lab Conference 2022 - Digital Transformation in Times of Crisis - 2nd day	Round table Environmental future and digital transformation: from local to global: https://istar.iscte-iul.pt/sociodigitalconf-eng/122-2/	2022
Talk/Conference in public diffusion event	Portugal Smart Cities Summit 2022	Presentation resulting from the work of the DSAEI project, Environmental Inequalities in the Lisbon Metropolitan Area, at the Portugal Smart Cities Summit 2022, involving Rodrigo Sarroeira, Catarina Ferreira da Silva, João Henriques, Ana M. Sousa, Nuno Nunes, Sérgio Moro, Maria do Carmo Botelho	2022
Talk/Conference in public diffusion event	ISTAR research centre - Data-driven decision support systems	On the 21st of June ISTAR_Iscte hosted the ISTAR's Research Day Meeting, from 9h00 to 13h00 at the Aud. Afonso Barros, Iscte. This meeting consists of research topics presentation and debate.	2022
Talk/Conference in public diffusion event	EMCIS 2021 - 8th European Mediterranean & Middle Eastern Conference on Information Systems	Leveraging Blockchain for a living, trustable curriculum vitae	2021
Talk/Conference in public diffusion event	IEEE@Home Blockchain Series	Invited talk Blockchain Skills for ICT Professionals	2020
Member of organizing committee of knowledge diffusion event	SUSTAINABLE CITIES - Viewpoints of the Pioneer Alliance; Open session Integrated with Summer School IoT for Smart Cities School 2020	Member of scientific event's organizing committee and session co-chair, involving speakers from Université Gustave Eiffel (France), National Technical University of Athens (Greece), University of Zilina (Slovakia), Laurea University of Applied Sciences (Finland), TH Koln University (Germany)	2020

Coordination of knowledge diffusion event	Panel IoT and Blockchain for Smart Cities of the International Winter School IoT and Blockchain for Smart Cities	Co-organizer and co-chair of the round table Panel IoT and Blockchain for Smart Cities da Escola de Inverno IoT and Blockchain for Smart Cities. This round table was open to the entire ISCTE-IUL community and companies, involved 8 speakers among teachers researchers and professionals	2020
Coordination of knowledge diffusion event	International Winter School IoT and Blockchain for Smart Cities	International Winter School IoT and Blockchain for Smart Cities, supported by ISTAR-IUL	2020
Member of organizing committee of knowledge diffusion event	Information Day European projects Nebula and VET4APPS	Information Day Nebula and VET4APPS that brought together a hundred researchers and entrepreneurs, July 2016, University of Claude Bernard Lyon 1, Villeurbanne, France	2016
Member of organizing committee of knowledge diffusion event	Web and Cloud	Information Day Web and Cloud, that brought together a hundred researchers and entrepreneurs, 21 November 2012, University of Claude Bernard Lyon 1, Villeurbanne, France	2012
Member of organizing committee of knowledge diffusion event	Symposium of the Portuguese Association of Researchers in Science and Technology	Member of the local organizing committee of the ANICT symposium (2012)	2012

Scientific Editing/Reviewing Activities

Type of Activity	Journal Title	ISSN/Quartile	Period	Language
Scientific journal editor	Energies Special Issue "Energy Efficiency of Blockchain and Distributed Ledger Technologies"	1996-1073 / Q1	2021	English
Scientific journal editor	Concurrent Engineering: Research and Applications International Journal, Guest editor Special Issue on Cloud IoT	15312003 / Q1	2017 - 2018	English
Scientific journal editor	International Journal of Electronic Business Management, special issue guest editor	1728-2047	2012 - 2013	English

Products

Product Type	Product Title	Detailed Description	Year
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Software (Open Source)	Air Pollution Web App	As a result of the DSAEI project (https://ciencia.iscte-iul.pt/projects/data-science-analysis-for-environmental-inequalities/1740), an application was developed to visualise various parameters that characterise pollution. This App was selected and presented at the Prototypes for Humanity world event, held in Dubai.	2023
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