

Warning: [2025-12-22 18:35] this document is a print-out of the Ciência-iul web portal and was automatically generated at the labeled date. The document has a mere informational purpose and represents the information contained on Ciência_Iscte at that date.

Ana de Almeida

Professora Associada (com Agregação)

Department of Information Science and Technology (ISTA)

Coordinator

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

Integrated Researcher

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



Contacts

E-mail	Ana.Almeida@iscte-iul.pt
Office	D6.09
Telephone	217650548 (Ext: 221317)
Post Box	145

Curriculum

Ana Maria de Almeida has a Ph.D. in Applied Mathematics, with a specialization in Computer Science. Her research interests include Algorithmics, Complexity, Machine Learning and Pattern Recognition, Data Science, Evolutionary Computation, and Ethics for AI and Research. She also has a particular interest in the construction of self-adjusting predictive and reactive models for real applications, as well as in the development of evolutionary and hybrid strategies for tackling multicriteria combinatorial problems.

She participates and has participated in fundamental and applied research projects and research & innovation projects between academia and industry, both at national as well as international levels.

Research Interests

Computer Science: Algorithms; Optimisation; Complexity; Knowledge Extraction; Pattern Recognition; Machine Learning; Evolutionary Algorithms;

Academic Qualifications

University/Institution	Type	Degree	Period
Universidade de Coimbra	PhD	Matemática Aplicada - Computação	2004

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2025/2026	2º	Applied Final Project in Data Science	Bachelor Degree in Data Science (PL);	Yes
2025/2026	2º	Societal Artificial Intelligence	Master Degree in Artificial Intelligence;	Yes
2025/2026	2º	Interdisciplinary Seminar in Data Science	Master Degree in Data Science;	Yes
2025/2026	2º	Societal Artificial Intelligence		Yes
2025/2026	1º	Programming Fundamentals		Yes
2025/2026	1º	Data in Science, Bussiness and Society	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	No
2025/2026	1º	Project Design for Data Science	Master Degree in Data Science;	Yes
2025/2026	1º	Knowledge and Reasoning in Artificial Intelligence	Master Degree in Artificial Intelligence;	No
2025/2026	1º	Master Dissertation in Data Science	Master Degree in Data Science;	Yes
2024/2025	2º	Introduction to Data Science		Yes
2024/2025	2º	Applied Final Project in Data Science	Bachelor Degree in Data Science;	Yes
2024/2025	2º	Patterns and Knowledge Extraction Guided by Data		Yes
2024/2025	2º	Societal Artificial Intelligence	Master Degree in Artificial Intelligence;	Yes
2024/2025	1º	Introduction to Data Science		Yes
2024/2025	1º	Data in Science, Bussiness and Society	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	No

2024/2025	1º	Data Science Methodologies and Technologies		Yes
2024/2025	1º	Knowledge and Reasoning in Artificial Intelligence	Master Degree in Artificial Intelligence;	No
2022/2023	2º	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2022/2023	2º	Applied Final Project in Data Science	Bachelor Degree in Data Science;	No
2022/2023	2º	Algorithm Design and Analysis	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2022/2023	1º	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2022/2023	1º	Data in Science, Bussiness and Society	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	Yes
2021/2022	2º	Introduction to Data Science		Yes
2021/2022	2º	Data Structures and Algorithms		Yes
2021/2022	2º	Algorithm Design and Analysis	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2021/2022	1º	lot for Smart Cities	Specialization Seminar in IoT for Smart Cities;	No
2021/2022	1º	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2021/2022	1º	Data in Science, Bussiness and Society	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	Yes
2020/2021	2º	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2020/2021	2º	Data Structures and Algorithms	Bachelor Degree in Data Science;	Yes
2020/2021	2º	Applied Project in Data Science I		No
2020/2021	2º	Knowledge Discovery and Extraction From Data	Bachelor Degree in Computer Science and Business Management (PL);	Yes
2020/2021	1º	Data Structures		Yes
2020/2021	1º	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2020/2021	1º	Data in Science, Bussiness and Society	Bachelor Degree in Data Science;	Yes
2020/2021	1º	Algorithm Design and Analysis		Yes

2019/2020	2º	Data Structures and Graph Algorithms		Yes
2019/2020	2º	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2019/2020	2º	Data Structures and Algorithms	Bachelor Degree in Data Science;	Yes
2019/2020	2º	Database Introduction		Yes
2019/2020	2º	Programming I		Yes
2019/2020	2º	Programming II		Yes
2019/2020	1º	Pattern Recognition and Analysis		Yes
2019/2020	1º	Advanced Topics in Complexity Sciences I		No
2019/2020	1º	Data Structures		Yes
2019/2020	1º	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2019/2020	1º	Data in Science, Bussiness and Society	Bachelor Degree in Data Science;	Yes
2019/2020	1º	Database Introduction		Yes
2019/2020	1º	Programming I		Yes
2019/2020	1º	Programming II		Yes

Supervisions

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Bruno Miguel Teixeira Taborda	MAIS: Market Artificial Intelligence	English	Developing	Iscte
2	Eduardo Antonio Mello Freitas	"Language Complexity and Contextualized Translation".	English	Developing	Iscte
3	Cristian Camilo Jiménez Ruiz	"Complexity and Innovation in Creative Industries".	English	Developing	Iscte
4	Ana Rita Peixoto	A Recommendation System Approach for Decision Making in Management Strategies Support	Portuguese	Developing	Iscte

5	Domingos Rhongo	e-Government methodologies in developing countries and the role of mobile devices - a Mozambican perspective	Portuguese	Developing	Iscte
6	Ricardo Alexandre Firmino de Melo	Design and Evaluation of a Framework for Real-Time Intelligent Video Manipulation 2025	English	Developing	Iscte
7	Rui Miguel Simão Pascoal	Mobile Pervasive Augmented Reality Systems: Feedback Modelling in Outdoor Environments	English	Developing	Iscte
8	Bruno Miguel Teixeira Taborda	MAIS: Markets Artificial Intelligence System	Portuguese	Developing	Iscte
9	Maria Adelaide Gaspar Quinto Pacheco	Check-up 3.0 - O Seu Plano de Saúde	Portuguese	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Ariele Câmara	Knowledge-based machine learning approach to indirect prospecting methodologies for monument identification	English	Iscte	2025
2	Rui Miguel Simão Pascoal	Mobile Pervasive Augmented Reality Systems	English	Iscte	2024
3	Ana Rita Henrique Peixoto	An intelligence approach for the improvement of IT startups' social media strategy	English	Iscte	2024
4	Nuno Miguel da Conceição António	Hotel Revenue Management: Using Data Science to Predict Booking Cancellations	English	Iscte	2019
5	Nuno Miguel da Conceição António	Hotel Revenue Management: Using Data Science to Predict Booking Cancellations	--	Iscte	2019
6	Marisa Batalha Figueiredo	Contributions for Electrical Energy Disaggregation in a Smart Home	English	Iscte	2014

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Gonçalo Casaleiro Pereira Tomás Rosa	Pattern Detection in Energy Consumption	--	Developing	Iscte
2	Bernardo Maria Correia Severino Coelho	Question generation for academic evaluations, based on generative artificial intelligence.	--	Developing	Iscte

3	Bernardo Luís da Silva Pinto Coelho	Intelligent and Secure Framework Specification for Health	--	Developing	Iscte
4	Vanda Soraia Friza Barata	The role of synthetic data in Health	--	Developing	Iscte
5	Rafael Alexandre Dias Andorinha	A research study on applications of surface-level air data in diverse geographies	--	Developing	Iscte
6	Rebecca de Oliveira Cunha	Dados sintéticos para machine learning: um estudo sobre qualidade e avaliação	--	Developing	Iscte
7	André Monteiro Repolho dos Santos	Impact of Artificial Intelligence on Public Policy Automation: Benefits, Risks, and Pathways for Responsible Governance	--	Developing	Iscte
8	Ricardo Araújo Galvão	Exploration of Artificial Intelligence methods based on graphs to represent and infer knowledge in the financial context	--	Developing	Iscte
9	Guilherme Silveira da Silva	Modeling of Lisbon's Multimodal Urban Mobility Network: An Interdisciplinary approach Approach	--	Developing	Iscte
10	Daniel Café	Análise de Sentimento no Mercado de Criptomoedas e a sua Integração em Modelos de Previsão	--	Developing	Iscte
11	Filipe Almeida Delmotte	Question Classification: A Supervised Learning Approach to Support Test-Making	--	Developing	Iscte
12	Afonso Diogo Ventura	Casino Player Data Prediction	--	Developing	Iscte
13	Bernardo Silvério Jesus de Melo	An Explainability Technique for CT-Based Lung Nodule Classification Using LIDC-IDRI	--	Developing	Iscte
14	Ana Margarida da Palma Cordeiro Lampreia Rebolo	From Numbers to Insights: Unlocking the Power of Data through Visualization	--	Developing	Iscte
15	Ana Margarida Brito Cardoso	Contribution of artificial intelligence to the coordination of regional development policies: the case of the Intermunicipal Community of Coimbra	--	Developing	Iscte
16	Leonor Dos Santos Ramos	Medical Data Protection	--	Developing	Iscte
17	Ana Rita da Silva Ferreira	Integration of ESG Indicators in Credit Risk Assessment: An Analytical Approach	--	Developing	Iscte

18	Gonçalo Duarte Sampaio Juvandes	Federated Learning for Time Series Anomaly Detection in a mHealth Context	--	Developing	Iscte
19	Danilo Palácio Sabóia	Intelligent Knowledge Management System for Cybersecurity Incident Response with Machine Learning Integration	--	Developing	Iscte
20	Alexandre Craveiro Assis	Freight Transportation Optimization in Logistics	--	Developing	Iscte
21	Fábio Miguel Rato dos Santos	Enhanced image classification based on knowledge	Portuguese	Developing	Iscte
22	Gabriel Bonfim de Almeida	Extracting information from images acquired in a fish farming environment	--	Developing	Iscte
23	David Miguel Rodrigues Rosa	Frontend development for an AI-powered freight logistics application	--	Developing	Iscte
24	Thiago da Silva Borba	Is public opinion a good indicator of companies' financial performance? Twitter text analysis on Big Tech companies	--	Developing	Iscte
25	Miguel Ângelo Brito Cardoso	Virtual Assistant for programming learning providing proactive hints backed by LLMs	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Diogo Filipe Pires Godinho	Automating Cyber Attack Response Procedures: An AI Approach for SOC Analysts	English	Iscte	2025
2	Ana Mercês Soares dos Reis Moreira	Atrial Flutter Classification with Active Learning in Imbalanced Learning Context	English	Iscte	2025
3	Nicole Lopes Nunes	Topic Modeling Applied to Portuguese Tiny Text	English	Iscte	2025
4	Rafael Bruce Tomé dos Santos	Design and Implementation of a Cloud-Native Web API for Third-Party Integrations	English	Iscte	2025
5	Bruno Alexandre Baião de Oliveira	Using data for course characterization: an exploration	Portuguese	Iscte	2025
6	Miguel Gonçalves Teodoro	Vision-Based Reinforcement Learning: The Role of Transfer Learning and Action Space Design in Symmetric Reward Financial Markets	English	Iscte	2025

7	Tiago Manuel Pereira dos Santos Alves	Enhancing Intrusion Detection Systems using Anomaly Detection and Imbalanced Learning Techniques	English	Iscte	2025
8	Guilherme Santos Fernandes Carvalho	Federated Learning for mHealth: an exploration	English	Iscte	2024
9	Dílan Vera Cruz Viana da Conceição	Imbalanced Learning on Bank Account Frauds	Portuguese	Iscte	2024
10	Miriam Isabel Farinha Rodrigues	Knowledge Management System for Cybersecurity Incident Response	English	Iscte	2024
11	Clara Alexandra dos Santos Martins Carvalho Baptista	Predictive Modeling of Financed Amount of Personal Loans in the context of Outbound Marketing	English	Iscte	2023
12	Renato Valentim Figueira Franco	Application of Ontologies to Contracts for Difference Key Information Documents	English	Iscte	2023
13	Ana Catarina Martins Gonçalves	Clinical text mining	English	Iscte	2023
14	Susana Isabel de Carvalho Polido	Applying federated learning on early-detection of COVID-19	English	Iscte	2023
15	Tiago Afonso Frade Martins	Data Science Applied to Public Fund Management	English	Iscte	2023
16	Daniel André Barbosa Marçal	Element detection from satellite imagery through deep learning	English	Iscte	2023
17	João Pedro da Mota Pereira de Figueiredo	Deep Learning Model Transposition for Network Intrusion Detection Systems	English	Iscte	2022
18	Weidmam Milagres Leles	Predicting Bicycle Arrivals in a Bicycle Sharing System Network: a Data Science Driven Approach Grounded in Zero-Inflated Regression	English	Iscte	2022
19	Alberto Neto Vilas	Forecasting cancellation on public funded projects	Portuguese	Iscte	2021
20	Mário Lança Campos Salgado	Community Discovery in Mobile Games	English	Iscte	2020
21	Cláudio Manuel Neves Rocha	Knowing the customers to better sell: Case study of a tourist transfer company operating in the Algarve region	Portuguese	Iscte	2020
22	Pedro André Freitas Camacho	Real-Time Recommendation System for Transfers Booking	Portuguese	Iscte	2020
23	João Guilherme de Lourenço Vieira Duque	Malware Detection based on dynamic analysis features	English	Iscte	2020
24	David Galvão Chambel Caçador	Automatic Recognition of Megalithic Objects in Areas of Interest in Satellite Imagery.	English	Iscte	2020

25	António Francisco Serol Sequeira	Mobile App for Identification of Recycling Materials	English	Iscte	2020
26	Ana Rita Henrique Peixoto	A Graph-Based Approach for Sustainable Walking Tour Recommendations: the Case of Lisbon Overcrowding	English	Iscte	2019
27	Sonia Cristina Moniz Afonso	Non regular aviation prediction	Portuguese	Iscte	2019
28	Pedro André Fonseca Garez Gomes	Flow time series clustering for demand pattern recognition in drinking water distribution systems: new insights about the most adequate methods	English	Iscte	2019
29	Luma Prianca Salman Mendes	Study about Customer Segmentation and application in a real case	English	Iscte	2019
30	Bruno Miguel Teixeira Taborda	Shaper-GA: Automatic Shape Generation for Modular housing	English	Iscte	2018
31	Tiago João Aires Soares	Text Mining from CURRICULA	Portuguese	Iscte	2018
32	Rafael Luís Ferreira Valente	Two-dimensional placement compaction using an evolutionary approach: a study	English	Iscte	2018

• M.Sc. Final Projects

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Rui Jorge Valentim Vitorino	Implementation of a Business Intelligence Strategy at the General Secretariat of the Government: Modernization, Transparency, and Strategic Alignment	Portuguese	Iscte	2025

Total Citations

Web of Science®	971
Scopus	1145

Publications

• Scientific Journals

- Scientific journal paper

1	Taborda, B., Almeida, A. M. de., Dias, J. C., Batista, F. & Ribeiro, R. (2025). SA-MAIS: Hybrid automatic sentiment analyser for stock market. Journal of Information Science. 51 (6), 1443-1456
---	--

	- Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
2	Pascoal, R., Almeida, A. M. de. & Sofia, R. C. (2025). Reducing information overload with machine learning in mobile pervasive augmented reality systems. <i>IEEE Access</i>. 13, 155155-155166 - Times Cited Google Scholar: 1
3	Câmara, A., Almeida, A. de. & Oliveira, J. (2024). Transforming the CIDOC-CRM model into a megalithic monument property graph. <i>Journal of Computer Applications in Archaeology</i>. 7 (1), 213-224 - Times Cited Scopus: 2 - Times Cited Google Scholar: 2
4	Martins, T., de Almeida, A., Cardoso, E. & Nunes, L. (2024). Explainable artificial intelligence (XAI): A systematic literature review on taxonomies and applications in finance. <i>IEEE Access</i>. 12, 618-629 - Times Cited Web of Science®: 19 - Times Cited Scopus: 22 - Times Cited Google Scholar: 43
5	Napoli, O. O., Almeida, A. M. de., Borin, E. & Breternitz Jr., M. (2024). Memory-efficient DRASiW models. <i>Neurocomputing</i>. 610 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
6	Câmara, A., de Almeida, A., Caçador, D. & Oliveira, J. (2023). Automated methods for image detection of cultural heritage: Overviews and perspectives. <i>Archaeological Prospection</i>. 30 (2), 153-169 - Times Cited Web of Science®: 13 - Times Cited Scopus: 19 - Times Cited Google Scholar: 25
7	Peixoto, A. R., Almeida, A. de., Antonio, N., Batista, F., Ribeiro, R. & Cardoso, E. (2023). Unlocking the power of Twitter communities for startups. <i>Applied Network Science</i>. 8 - Times Cited Web of Science®: 2 - Times Cited Google Scholar: 5
8	Peixoto, A., de Almeida, A., Antonio, N., Batista, F. & Ribeiro, R. (2023). Diachronic profile of startup companies through social media. <i>Social Network Analysis and Mining</i>. 13 - Times Cited Web of Science®: 5 - Times Cited Scopus: 6 - Times Cited Google Scholar: 9
9	Figueiredo, J., Serrão, C. & de Almeida, A. (2023). Deep learning model transposition for network intrusion detection systems. <i>Electronics</i>. 12 (2) - Times Cited Web of Science®: 24 - Times Cited Scopus: 36 - Times Cited Google Scholar: 43
10	Duque, J., Mendes, G., Nunes, L., de Almeida, A. & Serrão, C. (2022). Automated android malware detection using user feedback. <i>Sensors</i>. 22 (17) - Times Cited Google Scholar: 2
11	Antonio, N., De Almeida, A. & Nunes, L. (2020). A hotel's customers personal, behavioral, demographic, and geographic dataset from Lisbon, Portugal (2015–2018). <i>Data in Brief</i>. 33 - Times Cited Scopus: 3 - Times Cited Google Scholar: 9

12	Phillips; P., Antonio, N., de Almeida, A. & Nunes, L. (2020). The influence of geographic and psychic distance on online hotel ratings. <i>Journal of Travel Research</i>. 59 (4), 722-741 - Times Cited Web of Science®: 36 - Times Cited Scopus: 36 - Times Cited Google Scholar: 51
13	Pascoal, R., de Almeida, A. & Sofia, R. C. (2020). Mobile pervasive augmented reality systems - MPARS: the role of user preferences in perceived quality of experience in outdoor applications. <i>ACM Transactions on Internet Technology</i>. 20 (1), 1-17 - Times Cited Web of Science®: 14 - Times Cited Scopus: 16 - Times Cited Google Scholar: 31
14	António, N., de Almeida, A. & Nunes, Luis (2019). Predictive models for hotel booking cancellation: a semi-automated analysis of the literature. <i>Tourism and Management Studies</i>. 15 (1), 7-21 - Times Cited Web of Science®: 12 - Times Cited Scopus: 13 - Times Cited Google Scholar: 22
15	Antonio, N., De Almeida, A. & Nunes, L. (2019). Hotel booking demand datasets. <i>Data in Brief</i>. 22, 41-49 - Times Cited Web of Science®: 43 - Times Cited Scopus: 52 - Times Cited Google Scholar: 106
16	António, N., de Almeida, A. & Nunes, L. (2019). Big data in hotel revenue management: exploring cancellation drivers to gain insights into booking cancellation behavior. <i>Cornell Hospitality Quarterly</i>. 60 (4), 298-319 - Times Cited Web of Science®: 56 - Times Cited Scopus: 73 - Times Cited Google Scholar: 107
17	António, N., de Almeida, A. & Nunes, L. (2019). An automated machine learning based decision support system to predict hotel booking cancellations. <i>Data Science Journal</i>. 18 (1), 1-20 - Times Cited Web of Science®: 13 - Times Cited Scopus: 25 - Times Cited Google Scholar: 43
18	Antonio, N., de Almeida, A. M., Nunes, L., Batista, F. & Ribeiro, R. (2018). Hotel online reviews: creating a multi-source aggregated index. <i>International Journal of Contemporary Hospitality Management</i>. 30 (12), 3574-3591 - Times Cited Web of Science®: 31 - Times Cited Scopus: 35 - Times Cited Google Scholar: 61
19	Antonio, N., de Almeida, A., Nunes, L., Batista, F. & Ribeiro, R. (2018). Hotel online reviews: different languages, different opinions. <i>Information Technology and Tourism</i>. 18 (1-4), 157-185 - Times Cited Web of Science®: 28 - Times Cited Scopus: 36 - Times Cited Google Scholar: 63
20	Santos, F., Kwiecinski, K., de Almeida, A., Eloy, S. & Taborda, B. (2018). Alternative shaper: a model for automatic design generation. <i>Formal Aspects of Computing</i>. 30 (3-4), 333-349 - Times Cited Web of Science®: 5 - Times Cited Scopus: 6 - Times Cited Google Scholar: 10

21	Antonio, N., de Almeida, A. & Nunes, L. (2017). Predicting hotel booking cancellations to decrease uncertainty and increase revenue. <i>Tourism and Management Studies</i>. 13 (2), 25-39 - Times Cited Web of Science®: 46 - Times Cited Google Scholar: 109
22	Salgueiro, R., de Almeida, A. & Oliveira, O. (2017). New genetic algorithm approach for the min-degree constrained minimum spanning tree. <i>European Journal of Operational Research</i> . 258 (3), 877-886 - Times Cited Web of Science®: 11 - Times Cited Scopus: 13 - Times Cited Google Scholar: 16
23	Figueiredo, M., Ribeiro, B. & de Almeida, A. (2015). Analysis of trends in seasonal electrical energy consumption via non-negative tensor factorization. <i>Neurocomputing</i>. 170, 318-327 - Times Cited Web of Science®: 17 - Times Cited Scopus: 16 - Times Cited Google Scholar: 24
24	Figueiredo, M., Ribeiro, B. & de Almeida, A. (2014). Electrical signal source separation via nonnegative tensor factorization using on site measurements in a smart home. <i>IEEE Transactions on Instrumentation and Measurement</i>. 63 (2), 364-373 - Times Cited Web of Science®: 81 - Times Cited Scopus: 91 - Times Cited Google Scholar: 115
25	de Almeida, A., Martins, P. C. & Souza, M. (2012). Min-degree constrained minimum spanning tree problem: complexity, properties, and formulations. <i>International Transactions of Operations Research</i>. 19 (3), 323-352 - Times Cited Web of Science®: 14 - Times Cited Scopus: 17 - Times Cited Google Scholar: 41
26	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2012). Home electrical signal disaggregation for non-intrusive load monitoring (NILM) systems. <i>Neurocomputing</i>. 96, 66-73 - Times Cited Web of Science®: 166 - Times Cited Scopus: 189 - Times Cited Google Scholar: 253
27	de Almeida, A. & Figueiredo, M. (2010). A particular approach for the 3-dimensional packing problem with additional constraints. <i>Computers and Operations Research</i>. 37 (11), 1968-1976 - Times Cited Web of Science®: 27 - Times Cited Scopus: 24
28	de Almeida, A. M. & Rodrigues, R. (2003). Trees, slices and wheels: on the floorplan area minimization problem. <i>Networks</i>. 41 (4), 235-244 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
29	de Almeida, A. M. & Rodrigues, M. R. D. (2000). Sobre a questão do algoritmo para o problema do caixeiro viajante. <i>Gazeta de Matemática</i>. 138, 29-39 - Times Cited Google Scholar: 1
30	de Almeida, A. & Rodrigues, R. (1998). Optimal cutting directions and rectangle orientation algorithm. <i>European Journal of Operational Research</i>. 109 (3), 660-671 - Times Cited Web of Science®: 3 - Times Cited Scopus: 2 - Times Cited Google Scholar: 8

• Books and Book Chapters

- Book author

1	de Almeida, A. & Rodrigues, R. (2001). Classificação e Complexidade de Problemas. Coimbra, Portugal. Departamento de Matemática.
---	--

- Book chapter

1	Câmara, A., de Almeida, A. & Oliveira, J. (2025). Representing spatial and contextual information about megalithic monuments and the landscape: A Knowledge-Graph approach. In Stefania Stellacci, Serdar Aydin (Ed.), Endangered Heritage Sites: Enhanced Representations for Informed Solutions.: Springer Cham.
2	Ferreira, N., Palma, F., Serrão, C., Nunes, L. & de Almeida, A. (2023). Improving android application quality through extendable, automated security testing. In Kevin Daimi, Abeer Alsadoon, Cathryn Peoples, Nour El Madhoun (Ed.), Emerging trends in cybersecurity applications. (pp. 251-274).: Springer. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
3	Nunes, L., Cardoso, E., de Almeida, A., Ribeiro, R., Guimarães, F., Mamede, R.P....Ferreira, J. (2023). Inteligência artificial para a administração pública como experiência pedagógica. In Joana Alexandre, Alexandre Almeida, Ana Espírito-Santo, Ana Lúcia Martins, Cecília Aguiar, Nádía Simões (Ed.), Exemplos de práticas pedagógicas e estratégias de inovação pedagógica no Iscte. (pp. 52-63). Lisboa: Iscte - Instituto Universitário de Lisboa.
4	Antonio, N., de Almeida, A. & Nunes, L. (2022). Data mining and predictive analytics for E-tourism. In Zheng Xiang, Matthias Fuchs, Ulrike Gretzel, Wolfram Höpken (Ed.), Handbook of e-Tourism.: Springer. - Times Cited Google Scholar: 10
5	António, N., de Almeida, A. & Nunes, L. (2017). Using data science to predict hotel booking cancellations. In P. Vasant, M. Kalaivanthan (Ed.), Handbook of research on holistic optimization techniques in the hospitality, tourism, and travel industry. (pp. 141-167).: IGI Global. - Times Cited Scopus: 18 - Times Cited Google Scholar: 25
6	de Almeida, A. (2013). On an Optimization Model for Approximate Nonnegative Matrix Factorization. In Madureira, A., Reis, C., Marques, V. (Ed.), Computational Intelligence and Decision Making Trends and Applications. (pp. 249-257).: Springer . - Times Cited Scopus: 4 - Times Cited Google Scholar: 5
7	Figueiredo, M, Ribeiro, B. & de Almeida, A. (2013). On the regularization parameter selection for sparse code learning in electrical source separation. In Marco Tomassini, Alberto Antonioni, Fabio Daolio, Pierre Buesser (Ed.), Proc. Intl. Conf. on Adaptive and Natural Computing Algorithms. (pp. 277-286). Berlin: LNCS. - Times Cited Web of Science®: 7 - Times Cited Scopus: 7 - Times Cited Google Scholar: 17
8	Figueiredo, M., de Almeida, A. & Ribeiro, B. (2011). An Experimental Study on Electrical Signature Identification of non-intrusive load monitoring (NILM) systems. In Andrej Dobnikar, Uroš Lotrič, Branko Šter (Ed.), Lecture Notes in Computer Science. (pp. 31-40). Berlin: Springer. - Times Cited Scopus: 85 - Times Cited Google Scholar: 157

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Polido, S., Napoli, O., Breternitz Jr, M & Almeida, A. de (2024). Challenges in federated learning trained anomaly detection applied to hospital data without a baseline. In Proceedings 22nd IEEE Mediterranean Electrotechnical Conference (MELECON). (pp. 1230-1235). Porto: IEEE.
2	Câmara, A., Almeida, A. de. & Oliveira, J. (2024). Transforming the CIDOC-CRM model into a megalithic monument property graph. In Waagen, J., Verhagen, P., Hacıgüzeller, P., Visser, R., Taelman, D., and Brandsen, A. (Ed.), CAA2023 Conference Proceedings. Amsterdam
3	Câmara, A., de Almeida, A. & Oliveira, J. (2023). Versioning: Representing cultural heritage evidences on CIDOC-CRM via a case study. In Proceedings of International Conference on Information Technology and Applications. Lecture Notes in Networks and Systems. (pp. 363-371). Lisboa: Springer. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
4	Napoli, O. O., Almeida, A. M. de., Dias, J. M. S., Rosário, L. B., Borin, E. & Breternitz Jr, M. (2023). Efficient knowledge aggregation methods for weightless neural networks. In Proceedings of the 31th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN 2023). (pp. 369-374). Bruges, Belgium: ESANN. - Times Cited Google Scholar: 1
5	Hamad, M., Conti, C., Almeida, A. M. de., Nunes, P. & Soares, L. D. (2021). SLFS: Semi-supervised light-field foreground-background segmentation. In 2021 Telecoms Conference (ConfTELE). Leiria: IEEE. - Times Cited Scopus: 3 - Times Cited Google Scholar: 5
6	Almeida, L., Eloy, S. & Almeida, A. de. (2021). What about if buildings respond to my mood?. In Eloy, S., Viana, D. L., Morais, F., & Vaz, J. V. (Ed.), Formal Methods in Architecture. Advances in Science, Technology & Innovation. (pp. 123-131). Lisboa: Springer. - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
7	Camacho, P., Almeida, A. de. & António, N. (2020). Using customer segmentation to build a hybrid recommendation model. In Carvalho, J. V. de., Rocha, Á., Liberato, P., and Peña, A. (Ed.), Advances in Tourism, Technology and Systems. Smart Innovation, Systems and Technologies. (pp. 299-308). Cartagena: Springer Singapore. - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
8	Palma, F., Ferreira, N., Serrão, C., Oliveira, J., de Almeida, A. & Nunes, L. (2020). Automated security testing of android applications for secure mobile development. In IEEE International Conference on Software Testing, Verification and Validation Workshops. (pp. 222-231). Porto: IEEE. - Times Cited Web of Science®: 4 - Times Cited Scopus: 6 - Times Cited Google Scholar: 8
9	Lopes, J. P., Serrão, C., Nunes, L., De Almeida, A. & Oliveira, J. (2019). Overview of machine learning methods for Android malware identification. In Varol, A., Karabatak, M., Varol, C. and Teke, S. (Ed.), 2019 7th International Symposium on Digital Forensics and Security (ISDFS). Barcelos: IEEE. - Times Cited Web of Science®: 9 - Times Cited Scopus: 16 - Times Cited Google Scholar: 25

10	Rhongo, D. L., Almeida, A. de. & David, N. (2019). Adoption and use of ICT for e-Government services: The case of Mozambique. In Cunningham P., Cunningham M. (Ed.), 2019 IST-Africa Week Conference, IST-Africa. Nairobi, Kenya: IEEE. - Times Cited Web of Science®: 4 - Times Cited Scopus: 4
11	Pascoal, R., Almeida, A. de & Sofia, R. C. (2019). Activity recognition in outdoor sports environments: Smart data for end-users involving mobile pervasive augmented reality systems. In UbiComp/ISWC 2019: Adjunct Proceedings of the 2019 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2019 ACM International Symposium on Wearable Computers. (pp. 446-453). Londres: ACM. - Times Cited Web of Science®: 4 - Times Cited Scopus: 8 - Times Cited Google Scholar: 11
12	Taborda, B., de Almeida, A., Santos, F., Eloy, S. & Kwiecinski, K. (2018). Shaper-GA: automatic shape generation for modular house design. In 2018 Genetic and Evolutionary Computation Conference, GECCO 2018. (pp. 937-942). Tokyo: ACM. - Times Cited Web of Science®: 6 - Times Cited Scopus: 6 - Times Cited Google Scholar: 10
13	Pascoal, R., Alturas, B., de Almeida, A. & Sofia, R. (2018). A survey of augmented reality: making technologies acceptable in outdoor environments. In 13th Iberian Conference on Information Systems and Technologies (CISTI). Cáceres: IEEE. - Times Cited Scopus: 18 - Times Cited Google Scholar: 33
14	Rhongo, D. L., de Almeida, A. & David, N. (2018). eGovernment in Mozambique: Past, future and new prospects. In Cunningham, P. and Cunningham, M. (Ed.), ISTAfrica 2018 Conference Proceedings. Gaborone, Botswana: IIMC International Information Management Corporation. - Times Cited Google Scholar: 7
15	Santos, F., Almeida, A., Taborda, B. & Eloy, S. (2018). Customizing mass housing: a dual computer implementation design strategy based on shape grammars. In Sara Eloy, Manuel Alberto Ferreira, Maria João Oliveira (Ed.), Winter School 2018 ISTAR-IUL Applied Transdisciplinary Research. (pp. 10-11). Lisboa: Information Sciences, Technologies and Architecture Research Center (ISTAR-IUL).
16	António, N., de Almeida, A. & Nunes, L. (2018). Predictive models for hotel booking cancellation: a semiautomated analysis of the literature. In José António C. Santos, Margarida C. Santos, Marisol B. Correia, Célia Ramos (Ed.), Tourism and Management Studies International Conference, TMS Algarve 2018. Olhão: Escola Superior de gestão, Hotelaria e Turismo, Universidade do Algarve. - Times Cited Google Scholar: 16
17	Roza, V. C. C., de Almeida, A. M. & Postolache, O. A. (2017). Design of an artificial neural network and feature extraction to identify arrhythmias from ECG. In 12th IEEE International Symposium on Medical Measurements and Applications, MeMeA 2017. (pp. 391-396). Rochester: IEEE. - Times Cited Web of Science®: 13 - Times Cited Scopus: 13 - Times Cited Google Scholar: 18

18	Pascoal, R., Ribeiro, R., Batista, F. & de Almeida, A. (2017). Adapting speech recognition in augmented reality for mobile devices in outdoor environments. In Ricardo Queirós and Mário Pinto and Alberto Simões and José Paulo Leal and Maria João Varanda (Ed.), 6th Symposium on Languages, Applications and Technologies (SLATE 2017). Porto: Schloss Dagstuhl- Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing. - Times Cited Scopus: 2 - Times Cited Google Scholar: 14
19	Rhongo, D., De Almeida, A. & David, N. (2017). Contribuição da usabilidade web e dos dispositivos móveis para a inclusão digital nos países em desenvolvimento. In 8º Congresso Luso-Moçambicano de Engenharia e V Congresso de Engenharia de Moçambique. Maputo
20	Antonio, N., de Almeida, A. & Nunes, L. (2017). Predicting hotel bookings cancellation with a machine learning classification model. In 16th IEEE International Conference on Machine Learning and Applications (ICMLA) . (pp. 1049-1054). Cancun: IEEE. - Times Cited Web of Science®: 28 - Times Cited Scopus: 31 - Times Cited Google Scholar: 62
21	Kwiecinski, K., Santos, F., Almeida, A. de., Taborda, B. & Eloy, S. (2016). Wood mass-customized housing: A dual computer implementation design strategy. In Hernejoja, A., Österlund, T., and Markkanen, P. (Ed.), eCAADe 2016: Complexity & Simplicity. (pp. 349-358). Oulu: eCAADe, Oulu School of Architecture. - Times Cited Scopus: 9 - Times Cited Google Scholar: 13
22	De Almeida, A., Taborda, B., Santos, F., Kwiecinski, K. & Eloy, S. (2016). A genetic algorithm application for automatic layout design of modular residential homes. In 2016 IEEE International Conference on Systems, Man, and Cybernetics, SMC 2016. (pp. 2774-2778). Budapest: IEEE. - Times Cited Web of Science®: 8 - Times Cited Scopus: 10 - Times Cited Google Scholar: 23
23	Almeida, A. de (2015). Non-negative matrix factorization using posrank-based approximation decompositions. In Jan Haase, Athanasios Kakarountas, Manuel Graña, Jesús Fraile-Ardanuy, Carl James Debono, Héctor Quintián, Emilio Corchado (Ed.), EUROCON 2015 - International Conference on Computer as a Tool (EUROCON). Salamanca: IEEE.
24	de Almeida, A. (2015). Non-negative matrix factorization using posrank-based approximation decompositions. In EUROCON 2015 - International Conference on Computer as a Tool. Salamanca: IEEE.
25	Hämäläinen, A., Teixeira, A., Almeida, A. M. C., Meinedo, H., Fegyó, T. & Dias, J. (2015). Multilingual speech recognition for the elderly: The AALFred personal life assistant. In Carlos Velasco and Gerhard Weber and João Barroso and Yehya Mohamad and Hugo Paredes (Ed.), 6th International Conference on Software Development and Technologies for Enhancing Accessibility and Fighting Info-exclusion . (pp. 283-292). Saint Augustin: Elsevier. - Times Cited Web of Science®: 10 - Times Cited Scopus: 19 - Times Cited Google Scholar: 28
26	Figueiredo, M, Ribeiro, B. & de Almeida, A. (2014). Exploring the Performance of Non-negative Multi-way Factorization for Household Electrical Seasonal Consumption Disaggregation. In IEEE International Joint Conference on Neural Networks (IJCNN) . (pp. 899-906). Beijing: IEEE. - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 3

27	Garrido, R., Bastos, A., de Almeida, A. & Elvas, J. P. (2014). Prediction of road accident severity using the ordered probit model. In <i>Transportation Research Procedia</i>. (pp. 214-223).: Elsevier. - Times Cited Web of Science®: 93 - Times Cited Scopus: 97 - Times Cited Google Scholar: 159
28	Ilharco, A., Bastos, A., Elvas, J_P & de Almeida, A. (2013). Generation of road accident risk maps. In <i>CITTA 6th Annual Conference on Planning Research</i>. Coimbra
29	Figueiredo, M, Ribeiro, B. & de Almeida, A. (2013). On the regularization parameter selection for sparse code learning in electrical source separation. In Marco Tomassin, Alberto Antonioni, Fabio Daolio, and Pierre Buesser (Ed.), <i>Proc. Intl. Conf. on Adaptive and Natural Computing Algorithms</i>, pp. 277-286, LNCS 7824. (pp. 277-286). Lausanne: Springer Berlin Heidelberg.
30	de Almeida, A., Salgueiro, R. & Oliveira, O. (2012). Min-Degree Constrained MST Problem: an evolutionary approach. In Bogdan Filipic, Jurij Silc (Ed.), <i>International Conference on Bioinspired Optimization Methods and their Applications</i>. (pp. 121-130). Bohinj: Jozef Stefan Institute.
31	de Almeida, A., Figueiredo, M. & Ribeiro, B. (2012). Non Intrusive Load Monitoring Revisited. In <i>ISR, CENSE, IST e QUERCUS (Ed.)</i>, PCEEE Portugal em Conferencia para uma Europa Energeticamente Inteligente,. (pp. 0-0). Coimbra: ISR.
32	Figueiredo, M. , de Almeida, A. & Ribeiro, B. (2012). Another perspective on NILM systems for informed energy consumer behavior. In Carlos Henggeler Antunes, José Cabral Vieira (Ed.), <i>International Workshop on Energy Efficiency for a More Sustainable World</i>. (pp. 0-0). S. Miguel, Açores
33	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2011). Wavelet Decomposition and Singular Spectrum Analysis for Electrical Signal Denoising. In <i>Proc of the IEEE Intl Conf on Systems, Man and Cybernetics (SMC2011)</i>, pp.3329-3334, 2011 (DOI: 10.1109/ICSMC.2011.6084183). (pp. 3329-3334). Anchorage, Alasca: IEEE. - Times Cited Web of Science®: 23 - Times Cited Google Scholar: 33
34	de Almeida, A. (2011). About Nonnegative Matrix Factorization: on the posrank approximation. In Andrej Dobnikar, Uroš Lotri?, and Branko Šter (Ed.), <i>Proc Intl Conf on Adaptive and Natural Computing Algorithms, Part II</i>, LNCS 6594, 2011. (pp. 295-304). Ljubljana: Springer Berlin Heidelberg. - Times Cited Scopus: 2 - Times Cited Google Scholar: 3
35	de Almeida, A. (2011). Non-intrusive Residential Electrical Consumption Traces. In Paulo Novais, Davy Preuveneers, and Juan M. Corchado (Ed.), <i>Ambient Intelligence - Software and Applications - 2nd International Symposium on Ambient Intelligence, (ISAmI2011)</i>, Springer, Vol. 92, pp. 51-58, 2011 (DOI: 10.1007/978-3-642-19937-0_7). (pp. 51 -58). n/a: Springer Berlin Heidelberg. - Times Cited Scopus: 1 - Times Cited Google Scholar: 3
36	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2011). An Experimental Study on Electrical Signature Identification of non-intrusive load monitoring (NILM) systems. In Andrej Dobnikar, Uroš Lotri? , and Branko Šter (Ed.), <i>Proc Intl Conf on Adaptive and Natural Computing Algorithms</i>, pp 31-40, Part II, LNCS 6594. (pp. 31-40). Ljubljana: Springer Berlin Heidelberg. - Times Cited Web of Science®: 75
37	de Almeida, A., Ben-Akiva, M., Pereira, F., Gauche, A., Guevara, C., Niza, S....Zegras, C. (2011). The virtual city with real decisions: iTEAM. In PINTO, Nuno Norte [et. al.] (Ed.), <i>7VCT, 7th Virtual Cities and Territories</i>, 2011. (pp. 173-180). Lisboa: Universidade de Lisboa. - Times Cited Google Scholar: 1

38	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2011). Smart Home: A Novel Model for Denoising an Electrical Signal. In Proc of Intelligent Systems Design and Applications (ISDA 2011) pp.784-789, 2011 (DOI: 10.1109/ISDA.2011.6121752). (pp. 784-789).: IEEE. - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
39	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2010). Extracting features from an electrical signal of a non-intrusive load monitoring system. In Peter Tino, Darryl Charles, Cesar Garcia-Orsorio, Hujun Yin (Ed.), Proc Int Conf on Intelligent Data Engineering and Automated Learning, pp 210-217, LNCS 6283. (pp. 210-217). n/a: Springer Berlin Heidelberg. - Times Cited Web of Science®: 12 - Times Cited Scopus: 13 - Times Cited Google Scholar: 19
40	de Almeida, A., Souza, M. & Martins, P.C. (2010). The md-MST Problem is NP-hard for $d \geq 3$. In M. Haouari and A.R. Mahjoub (Ed.), ISCO 2010 International Symposium in Combinatorial Optimization, Electronic Notes in Discrete Mathematics, 36:9-15, 2010. (pp. 9-15). Hamamet: Elsevier. - Times Cited Scopus: 15
41	de Almeida, A., Fernandes, J., Pascoal, M. & Pereira, S. (2009). Experiential learning in Sciences: getting the lab inside the classroom using the Web. In Aedo, I., Chen, N-S., Kinshuk, Sampson, D., Zaitseva, L. (Ed.), ICALT 2009, the 9th IEEE International Conference on Advanced Learning Technologies. (pp. 327-328). Riga: IEEE. - Times Cited Scopus: 1
42	Pereira, S., de Almeida, A., Marcelino, M.J. & Fernandes, J. (2008). STUDYING THE SUN IN THE CLASSROOM USING A SCIENTIFIC EXPERIMENTAL APPROACH. In J. Luca, E. Weippl (Ed.), EDMEDIA08 World Conference on Educational Multimedia, Hypermedia & Telecommunications,. (pp. 3232-3240). Viena: EDMedia. - Times Cited Google Scholar: 1
43	Pereira, S., de Almeida, A. & Marcelino, M.J. (2008). Teaching Mathematics supported by a web-based project and real data. In C. Bonk et al. (Ed.), E_Learn 2008 World Conference in E-Learning in Corporate Government, Health Care, & Higher Education. (pp. 2260-2265). Las Vegas, Nevada: AACE. - Times Cited Google Scholar: 3
44	Pacheco, A., Gomes, A., Henriques, J.G., de Almeida, A. & Mendes, A.J. (2008). A study on basic mathematics knowledge for the enhancement of programming learning skills. In Informatics Education Europe III - IEEEIII08. (pp. 67-77). Veneza: ACM. - Times Cited Google Scholar: 13
45	Pacheco, A., Gomes, A., Henriques, J.G., de Almeida, A. & Mendes, A.J. (2008). Mathematics and Programming: Some studies. In International Conference on Computer Systems and Technologies - CompSysTech08. n/a - Times Cited Scopus: 14 - Times Cited Google Scholar: 25

- Talk

1	Napoli, O. O., de Almeida, A., Dias, J., Luís Brás Rosário, E.Borin & M.Breternitz (2023). Efficient Knowledge Aggregation Methods for Weightless Neural Networks. ESANN 2023 European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning.
2	Câmara, A., de Almeida, A. & Oliveira, J. (2023). Transforming the CIDOC-CRM model into a megalithic monument property graph. CAA 2023: 50 Years of Synergy.
3	M.Breternitz & de Almeida, A. (2023). Federated AI for Health. A standards body for AI.

4	Peixoto, A., de Almeida, A. & Antonio, N. (2022). Startups' Twitter activity analysis: the case of Portuguese IT Startups. RecPad 2022: Portuguese Conference on Pattern Recognition.
5	Peixoto, A., de Almeida, A. & Antonio, N. (2022). IT Startups' Twitter content change over time according to the company life cycle. Ciência 2022.
6	Câmara, A., Oliveira, J. & de Almeida, A. (2022). Versioning: Representing Cultural Heritage Evidences on CIDOC-CRM via a case study. 16th International Conference on Information Technology and Applications (ICITA 2022).
7	Hamad, M., Conti, C., de Almeida, A., Nunes, P. & Soares, L. D. (2021). SLFS: Semi-supervised Light-field Foreground-background Segmentation. 2021 Telecoms Conference (ConfTELE).
8	Almeida, L., Eloy, S. & de Almeida, A. (2020). What about if buildings respond to my mood?. 5th Symposium Formal Methods in Architecture.
9	camara, A., de Almeida, A., Oliveira, J. & Silveira M, C. (2020). Photointerpretation as a Tool to Support the Creation of an Ontology for Dolmens. XXVII Jornadas de Classificação e Análise de Dados – JOCLAD2020. - Times Cited Google Scholar: 2
10	Pascoal, R., de Almeida, A. & Sofia, Rute C. (2019). Contextual Smart Data for Mobile Pervasive Augmented Reality Systems. INForum 2019.
11	Pascoal, R., de Almeida, A. & Sofia, Rute C. (2019). Research Statement: Mobile Pervasive Augmented Reality Systems for Outdoor Environments Contexts. Madness Talk.
12	Pascoal, R., de Almeida, A. & Sofia, Rute C. (2019). Mobile Pervasive Augmented Reality Systems for Outdoor Environments Contexts. PhD Forum Madness and Forum Posters.
13	Rui Pascoal, Ribeiro, R., Batista, F. & de Almeida, A. (2017). Adapting Speech Recognition in Augmented Reality for Mobile Devices in Outdoor Environments. 6th Symposium on Languages, Applications and Technologies (SLATE 2017).
14	de Almeida, A., Taborda, B., Santos, F., Kwiecinski, Krystian & Eloy, S. (2016). A genetic algorithm application for automatic layout design of modular residential homes. Proceedings of the 2016 IEEE International Conference on Systems, Man and Cybernetics (SMC). 2774-2778 - Times Cited Web of Science®: 2
15	de Almeida, A. (2015). Non-negative Matrix Factorization using posrank-based approximation decompositions. Proceedings of the EUROCOM 2015. 366-369
16	Figueiredo, M, Ribeiro, B. & de Almeida, A. (2014). Exploring the Performance of Non-negative Multi-way Factorization for Household Electrical Seasonal Consumption Disaggregation. IEEE International Joint Conference on Neural Networks (IJCNN) . - Times Cited Web of Science®: 1
17	Rhongo, D., de Almeida, A. & David, N. (2014). MOBILE GOVERNMENT COMO ALTERNATIVA PARA INCLUSÃO DIGITAL E REFORÇO DA DISSEMINAÇÃO DO E-GOVERNMENT E E-GOVERNANCE EM MOÇAMBIQUE. 7º Congresso Luso - Moçambicano de Engenharia . - Times Cited Google Scholar: 1

18	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2014). On the Optimization of Appliance Loads Inferred by Probabilistic Models. NILM Workshop 2014. - Times Cited Google Scholar: 29
19	R. Garrido, Bastos, A., de Almeida, A. & Elvas, J.P. (2014). Prediction of road accident severity using the ordered probit model. Transportation Research Procedia 3 17th Meeting of the EURO Working Group on Transportation, EWGT2014. 3, 214-223
20	Figueiredo, M., Ribeiro, B. & de Almeida, A. (2013). Forecasting the Usage of Home Appliances with Denoised Signal Patterns. 19th edition of the Portuguese Conference on Pattern Recognition 2013.
21	Figueiredo, M, Ribeiro, B. & de Almeida, A. (2013). On the regularization parameter selection for sparse code learning in electrical source separation. Proc. Intl. Conf. on Adaptive and Natural Computing Algorithms, pp. 277-286, LNCS 7824. 7824, 277-286
22	Ilharco, A., Bastos, A., Elvas, J_P & de Almeida, A. (2013). Generation of road accident risk maps. CITTA 6th Annual Conference on Planning Research.
23	de Almeida, A. (2011). About Nonnegative Matrix Factorization: on the posrank approximation. Proc Intl Conf on Adaptive and Natural Computing Algorithms, Part II, LNCS 6594, 2011. II, 295-304
24	de Almeida, A. (2011). Non-intrusive Residential Electrical Consumption Traces. Ambient Intelligence - Software and Applications - 2nd International Symposium on Ambient Intelligence, (ISAmI2011), Springer, Vol. 92, pp. 51-58, 2011 (DOI: 10.1007/978-3-642-19937-0_7). 92, 51 -58
25	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2011). An Experimental Study on Electrical Signature Identification of non-intrusive load monitoring (NILM) systems. Proc Intl Conf on Adaptive and Natural Computing Algorithms, pp 31-40, Part II, LNCS 6594. 6594, 31-40
26	de Almeida, A., Ben-Akiva, M., Pereira, F., Gauche, A., Guevara, C., Niza, S....Zegras, C. (2011). The virtual city with real decisions: iTEAM. 7VCT, 7th Virtual Cities and Territories, 2011. 173-180
27	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2011). Smart Home: A Novel Model for Denoising an Electrical Signal. Proc of Intelligent Systems Design and Applications (ISDA 2011) pp.784-789, 2011 (DOI: 10.1109/ISDA.2011.6121752). 784-789
28	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2011). Wavelet Decomposition and Singular Spectrum Analysis for Electrical Signal Denoising. Proc of the IEEE Intl Conf on Systems, Man and Cybernetics (SMC2011), pp.3329-3334, 2011 (DOI: 10.1109/ICSMC.2011.6084183). 3329-3334
29	Figueiredo, M, de Almeida, A. & Ribeiro, B. (2010). Extracting features from an electrical signal of a non-intrusive load monitoring system. Proc Int Conf on Intelligent Data Engineering and Automated Learning, pp 210-217, LNCS 6283. 210-217
30	de Almeida, A., Souza, M. & Martins, P.C. (2010). The md-MST Problem is NP-hard for $d \geq 3$. ISCO 2010 International Symposium in Combinatorial Optimization, Electronic Notes in Discrete Mathematics, 36:9-15, 2010. 36, 9-15
31	de Almeida, A., Fernandes, J., Pascoal, M. & Pereira, S. (2009). Experimental learning in Sciences: getting the lab inside the classroom using the Web. ICALT 2009, the 9th IEEE International Conference on Advanced Learning Technologies. 327-328

32	Pereira, S., de Almeida, A., Marcelino, M.J. & Fernandes, J. (2008). STUDYING THE SUN IN THE CLASSROOM USING A SCIENTIFIC EXPERIMENTAL APPROACH. EDMEDIA08 World Conference on Educational Multimedia, Hypermedia & Telecommunications,. 3232-3240
33	Pereira, S., de Almeida, A. & Marcelino, M.J. (2008). Teaching Mathematics supported by a web-based project and real data. E_Learn 2008 World Conference in E-Learning in Corporate Government, Health Care, & Higher Education. 2260-2265
34	Pacheco, A., Gomes, A., Henriques, J.G., de Almeida, A. & Mendes, A.J. (2008). A study on basic mathematics knowledge for the enhancement of programming learning skills. Informatics Education Europe III - IEEIII08. 67-77
35	Pacheco, A., Gomes, A., Henriques, J.G., de Almeida, A. & Mendes, A.J. (2008). Mathematics and Programming: Some studies. International Conference on Computer Systems and Technologies - CompSysTech08. 374

- Conference paper not in proceedings

1	Pascoal, R., de Almeida, A. & Sofia, R. C. (2019). MPARS — Mobile Pervasive Aumented Reality System. Ciência 2019: Encontro com a Ciência e Tecnologia em Portugal.
2	António, N., Almeida, A. & Nunes, L. (2017). Enabling bookings cancellation prediction with data science. 4th World Research Summit for Tourism and Hospitality.

• Other Publications

- Working Papers

1	Mendes, D. A., de Almeida, A. & Leles (2023). Predicting Bicycle Arrivals in a Bicycle Sharing System Network: a Data Science Driven Approach Grounded in Zero-Inflated Regression. Predicting Bicycle Arrivals in a Bicycle Sharing System Network: a Data Science Driven Approach Grounded in Zero-Inflated Regression.
---	---

- Other publications

1	de Almeida, A., M.Breternitz, napoli, O. O., Dias, J. & Luís Brás Rosário (2023). An intelligent systems approach for early illness symptoms detection: AIM (your) Health. 1a Conferência de Saúde Societal.
2	Câmara, A., de Almeida, A., Oliveira, J. & Marçal, D. (2023). Arqueologia e Comunicação na era da Big Data: do sítio arqueológico ao registo de monumentos e paisagens. Será este um dia FAIR?. Poster published: IV Congresso da Associação dos Arqueólogos Portugueses.
3	Câmara, A., de Almeida, A. & Oliveira, J. (2022). KG-ML Approach Image Recognition for Cultural Heritage. Poster published: Ciencia 2022 - Science and Technology in Portugal Summit.
4	de Almeida, A., M.Breternitz & napoli, O. O. (2022). An intelligent systems approach for early illness symptoms detection: AIM (your) Health . 1a Conferência de Saúde Societal.
5	Taborda, B., de Almeida, A., Dias, J. C., Batista, F. & Ribeiro, R. (2021). Stock Market Tweets Data. IEEE Dataport.
6	Câmara, Ariele, de Almeida, A., Oliveira, J. & Silveira, Mateus (2020). Photointerpretation as a Tool to Support the Creation of an Ontology for Dolmens. JOCLAD 2020. - Times Cited Google Scholar: 2

7	Santos, F., de Almeida, A., Taborda, B. & Eloy, S. (2018). Customizing mass housing: a dual computer implementation design strategy based on shape grammars. Winter School 2018 ISTAR-IUL.
8	Kwiecinski, Krystian, Santos, F., de Almeida, A., Taborda, B. & Eloy, S. (2016). Wood Mass-Customized Housing - A dual computer implementation design strategy. Complexity & Simplicity - Proceedings of the 34th eCAADe Conference. 2, 349-358

- Doctoral Thesis

1	Peixoto, A., de Almeida, A. & Antonio, N. (2024). An intelligence approach for the improvement of IT startups' social media strategy.
---	---

- Report

1	Cardoso, E., Nunes, Luis, de Almeida, A. & Martins, T. (2023). Estudo para o Conhecimento da Fraude nos Fundos Estruturais em Portugal.
---	---

Research Projects			
Project Title	Role in Project	Partners	Period
Interoperability and traceability of information on irregularities in European fund management systems in Portugal	Researcher	ISTAR-Iscte (SCM)	2025 - 2026
Sistemas de Informação e Análise de Dados para o Planeamento de Políticas Pública	Researcher	ISTAR-Iscte - Leader, INESC-ID - (Portugal), UAlg - (Portugal)	2025 - 2026
AIH - A secure standard for storing health data and AI applications	Principal Researcher	ISTAR-Iscte - Leader	2025 - 2026
Artificial Intelligence and Data Science for Public Administration Portugal Innovation Hub	Researcher	ISTAR-Iscte (DLS) - Leader, AMA - (Portugal), AIP - CCI - (Portugal), ANPME - (Portugal), AUDAX - (Portugal), CMS - (Portugal), CMV - (Portugal), CCDR Algarve - (Portugal), CoLABOR - (Portugal), DGEEC - (Portugal), Esri Portugal - (Portugal), GEP/MTSSS - (Portugal), INDEG - (Portugal), IPPS - (Portugal), Mentortec - (Portugal), MORE CoLAB - (Portugal), NOVA IMS - (Portugal), Oeste CIM - (Portugal), UNINOVA - (Portugal), UNU-EGOV - (Portugal)	2023 - 2025
Study for the knowledge of fraud in the structural funds in Portugal	Researcher	CIES-Iscte, Nova SBE Data Science Knowledge Center - (Portugal)	2022 - 2023

Project Non-compliance Monitoring and Alert	Researcher	ISTAR-Iscte (SCM), CIES-Iscte	2022 - 2023
AI-based mobile applications for public health response	Researcher	ISTAR-Iscte (DLS), IT - (Portugal), AIDFM - (Portugal)	2021 - 2023
Artificial Intelligence in Incentive Management	Researcher	DINAMIA'CET-Iscte (GEC) - Leader, ISTAR-Iscte, BRU-Iscte, CIES-Iscte, AICEP - Portugal Global - (Portugal), IAPMEI - (Portugal)	2020 - 2021
Cloud-based Anti Malware Technology for Android App Stores	Researcher	ISTAR-Iscte (SSE), Aptoide - Leader (Portugal)	2016 - 2018

Academic Management Positions

Director (2024 - 2026)
Unit/Area: Master Degree in Data Science

Director (2021 - 2023)
Unit/Area: Bachelor Degree in Data Science (PL)

Director (2021 - 2023)
Unit/Area: Bachelor Degree in Data Science

Director (2021 - 2023)
Unit/Area: Bachelor Degree in Data Science

Director (2019 - 2021)
Unit/Area: [0323] Code For All_ISCTE

Director (2019 - 2021)
Unit/Area: Bachelor Degree in Data Science (PL)

Director (2019 - 2021)
Unit/Area: Bachelor Degree in Data Science

Professional Associations

IEEE (Since 2012)

ACM - Association for Computing Machinery (Since 2012)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Coordination of non-scientific event	Workshop LCD	Licenciatura em Ciência de Dados	2022
Coordination of scientific event (with scientific committee) at ISCTE-IUL	1st Applied Projects in Data Science Workshop - WPDS 2022	Licenciatura em Ciência de Dados	2022 - 2023

Diffusion Activities			
Activity Type	Event Title	Activity Description	Year
Talk/Conference in public diffusion event	2022 PhDCS Doctoral Workshop "The future of Complex Systems Science"	Round Table - The future of Complex Systems Science	2022