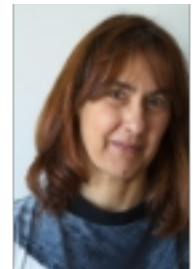


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Ana de Almeida

Professora Associada (com Agregação)

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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
2026/2027	2º	Applied Final Project in Data Science	Bachelor Degree in Data Science (PL);	Yes
2026/2027	2º	Societal Artificial Intelligence	Master Degree in Artificial Intelligence;	Yes
2026/2027	2º	Interdisciplinary Seminar in Data Science	Master Degree in Data Science;	Yes
2026/2027	1º	Data in Science, Bussiness and Society	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	No
2026/2027	1º	Project Design for Data Science	Master Degree in Data Science;	No
2026/2027	1º	Knowledge and Reasoning in Artificial Intelligence		No
2026/2027	1º	Master Dissertation in Data Science	Master Degree in Data Science;	Yes
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	2º	Introduction to Data Science	Training Course in Introduction to Data Science (EaD);	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	1°	Master Dissertation in Data Science	Master Degree in Data Science;	Yes
2025/2026	1°	Introduction to Data Science	Training Course in Introduction to Data Science (EaD);	Yes
2024/2025	2°	Introduction to Data Science		Yes
2024/2025	2°	Applied Final Project in Data Science	Bachelor Degree in Data Science;	Yes
2024/2025	2°	Patterns and Knowledge Extraction Guided by Data		Yes
2024/2025	2°	Societal Artificial Intelligence	Master Degree in Artificial Intelligence;	Yes
2024/2025	1°	Introduction to Data Science		Yes
2024/2025	1°	Data in Science, Bussiness and Society	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	No
2024/2025	1°	Data Science Methodologies and Technologies		Yes
2024/2025	1°	Knowledge and Reasoning in Artificial Intelligence	Master Degree in Artificial Intelligence;	No
2022/2023	2°	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2022/2023	2°	Applied Final Project in Data Science	Bachelor Degree in Data Science;	No
2022/2023	2°	Algorithm Design and Analysis	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2022/2023	1°	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2022/2023	1°	Data in Science, Bussiness and Society	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	Yes
2021/2022	2°	Introduction to Data Science		Yes
2021/2022	2°	Data Structures and Algorithms		Yes
2021/2022	2°	Algorithm Design and Analysis	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2021/2022	1°	lot for Smart Cities	Specialization Seminar in IoT for Smart Cities;	No
2021/2022	1°	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2021/2022	1°	Data in Science, Bussiness and Society	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	Yes

2020/2021	2°	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2020/2021	2°	Data Structures and Algorithms	Bachelor Degree in Data Science;	Yes
2020/2021	2°	Applied Project in Data Science I		No
2020/2021	2°	Knowledge Discovery and Extraction From Data	Bachelor Degree in Computer Science and Business Management (PL);	Yes
2020/2021	1°	Data Structures		Yes
2020/2021	1°	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2020/2021	1°	Data in Science, Bussiness and Society	Bachelor Degree in Data Science;	Yes
2020/2021	1°	Algorithm Design and Analysis		Yes
2019/2020	2°	Data Structures and Graph Algorithms		Yes
2019/2020	2°	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2019/2020	2°	Data Structures and Algorithms	Bachelor Degree in Data Science;	Yes
2019/2020	2°	Database Introduction		Yes
2019/2020	2°	Programming I		Yes
2019/2020	2°	Programming II		Yes
2019/2020	1°	Pattern Recognition and Analysis		Yes
2019/2020	1°	Advanced Topics in Complexity Sciences I		No
2019/2020	1°	Data Structures		Yes
2019/2020	1°	Introduction to Data Science	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2019/2020	1°	Data in Science, Bussiness and Society	Bachelor Degree in Data Science;	Yes
2019/2020	1°	Database Introduction		Yes
2019/2020	1°	Programming I		Yes
2019/2020	1°	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	Cristian Camilo Jiménez Ruiz	"Complexity and Innovation in Creative Industries".	English	Developing	Iscte
3	Eduardo Antonio Mello Freitas	"Language Complexity and Contextualized Translation".	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	Arielle 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	Leonor dos Santos Ramos	Medical Data Protection	--	Developing	Iscte
2	Afonso Diogo Ventura	Casino Player Data Prediction	--	Developing	Iscte
3	Gonçalo Casaleiro Pereira Tomás Rosa	Pattern Detection in Energy Consumption	--	Developing	Iscte
4	Vanda Soraia Friza Barata	The role of synthetic data in Health	--	Developing	Iscte
5	Bernardo Maria Correia Severino Coelho	Question generation for academic evaluations based on Generative Artificial Intelligence	--	Developing	Iscte
6	Rafael Alexandre Dias Andorinha	A research study on applications of surface-level air data in diverse geographies	--	Developing	Iscte
7	Rebecca de Oliveira Cunha	Synthetic Data for Machine Learning: A Study on Data Quality and Evaluation	--	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	André Monteiro Repolho dos Santos	Impact of Artificial Intelligence on Public Policy Automation: Benefits, Risks, and Pathways for Responsible Governance	--	Developing	Iscte
11	Filipe Almeida Delmotte	Question Classification: A Supervised Learning Approach to Support Test-Making	--	Developing	Iscte

12	Bernardo Silvério Jesus de Melo	An Explainability Technique for CT-Based Lung Nodule Classification Using LIDC-IDRI	--	Developing	Iscte
13	Ana Margarida da Palma Cordeiro Lampreia Rebolo	From Numbers to Insights: Unlocking the Power of Data through Visualization	--	Developing	Iscte
14	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
15	Ana Rita da Silva Ferreira	Integration of ESG Indicators in Credit Risk Assessment: An Analytical Approach	--	Developing	Iscte
16	Gonçalo Duarte Sampaio Juvãdes	Federated Learning for Time Series Anomaly Detection in a mHealth Context	--	Developing	Iscte
17	Danilo Palácio Sabóia	Intelligent Knowledge Management System for Cybersecurity Incident Response with Machine Learning Integration	--	Developing	Iscte
18	Alexandre Craveiro Assis	Freight Transportation Optimization in Logistics	--	Developing	Iscte
19	Fábio Miguel Rato dos Santos	Enhanced image classification based on knowledge	Portuguese	Developing	Iscte
20	Gabriel Bonfim de Almeida	Extracting information from images acquired in a fish farming environment	--	Developing	Iscte
21	David Miguel Rodrigues Rosa	Frontend development for an AI-powered freight logistics application	--	Developing	Iscte
22	Thiago da Silva Borba	Is public opinion a good indicator of companies' financial performance? Twitter text analysis on Big Tech companies	--	Developing	Iscte
23	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 cancelation 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®	1052
Scopus	1207

Publications

• Scientific Journals

- Scientific journal paper

1	<p>Taborda, B., Almeida, A. M. de., Dias, J. C., Batista, F. & Ribeiro, R. (2025). SA-MAIS: Hybrid automatic sentiment analyser for stock market. <i>Journal of Information Science</i>. 51 (6), 1443-1456</p> <p>- Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
2	<p>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</p> <p>- Times Cited Google Scholar: 2</p>
3	<p>Napoli, O. O., Almeida, A. M. de., Borin, E. & Breternitz Jr., M. (2024). Memory-efficient DRASiW models. <i>Neurocomputing</i>. 610</p> <p>- Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
4	<p>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</p> <p>- Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 2</p>
5	<p>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</p> <p>- Times Cited Web of Science®: 26 - Times Cited Scopus: 31 - Times Cited Google Scholar: 64</p>
6	<p>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</p> <p>- Times Cited Web of Science®: 2 - Times Cited Google Scholar: 7</p>
7	<p>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</p> <p>- Times Cited Web of Science®: 6 - Times Cited Scopus: 6 - Times Cited Google Scholar: 11</p>
8	<p>Figueiredo, J., Serrão, C. & de Almeida, A. (2023). Deep learning model transposition for network intrusion detection systems. <i>Electronics</i>. 12 (2)</p> <p>- Times Cited Web of Science®: 27 - Times Cited Scopus: 40 - Times Cited Google Scholar: 46</p>

9	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 16 - Times Cited Scopus: 24 - Times Cited Google Scholar: 31
10	<p>Duque, J., Mendes, G., Nunes, L., de Almeida, A. & Serrão, C. (2022). Automated android malware detection using user feedback. <i>Sensors</i>. 22 (17)</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 3
11	<p>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</p> <ul style="list-style-type: none"> - Times Cited Scopus: 3 - Times Cited Google Scholar: 10
12	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 38 - Times Cited Scopus: 38 - Times Cited Google Scholar: 56
13	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 14 - Times Cited Scopus: 16 - Times Cited Google Scholar: 32
14	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 12 - Times Cited Scopus: 13 - Times Cited Google Scholar: 25
15	<p>Antonio, N., De Almeida, A. & Nunes, L. (2019). Hotel booking demand datasets. <i>Data in Brief</i>. 22, 41-49</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 49 - Times Cited Scopus: 55 - Times Cited Google Scholar: 125
16	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 66 - Times Cited Scopus: 80 - Times Cited Google Scholar: 121
17	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 17 - Times Cited Scopus: 30 - Times Cited Google Scholar: 55

18	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 34 - Times Cited Scopus: 37 - Times Cited Google Scholar: 75
19	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 6 - Times Cited Scopus: 7 - Times Cited Google Scholar: 9
20	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 33 - Times Cited Scopus: 36 - Times Cited Google Scholar: 67
21	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 51 - Times Cited Google Scholar: 117
22	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 11 - Times Cited Scopus: 13 - Times Cited Google Scholar: 16
23	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 17 - Times Cited Scopus: 16 - Times Cited Google Scholar: 24
24	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 83 - Times Cited Scopus: 91 - Times Cited Google Scholar: 118
25	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 14 - Times Cited Scopus: 17 - Times Cited Google Scholar: 44
26	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 170 - Times Cited Scopus: 194 - Times Cited Google Scholar: 256

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). <i>Classificação e Complexidade de Problemas</i> . Coimbra, Portugal. Departamento de Matemática.
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- 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.), <i>Endangered Heritage Sites: Enhanced Representations for Informed Solutions</i> .: Springer Cham.
2	Marçal, D., Câmara, A., Oliveira, J. & de Almeida, A. (2024). Evaluating R-CNN and YOLO V8 for Megalithic Monument Detection in Satellite Images. In <i>Computational Science – ICCS 2024</i> . (pp. 162-170).: Springer. - Times Cited Web of Science®: 4 - Times Cited Scopus: 7 - Times Cited Google Scholar: 7
3	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.), <i>Emerging trends in cybersecurity applications</i> . (pp. 251-274).: Springer. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
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• Conferences/Workshops and Talks

- Publication in conference proceedings

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3	<p>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.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
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9	<p>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.), <i>2019 7th International Symposium on Digital Forensics and Security (ISDFS)</i>. Barcelos: IEEE.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 9 - Times Cited Scopus: 16 - Times Cited Google Scholar: 26
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- Talk

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2	Nunes, N., de Almeida, A. & Peixoto, A. (2026). Singularity Score For Evaluating Topic Relevance In Tiny Text. WorldCist'26 - 14th World Conference on Information Systems and Technologies.
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7	M.Breternitz & de Almeida, A. (2023). Federated AI for Health. A standards body for AI.
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34	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
35	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
36	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
37	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
38	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
39	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

- 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.
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- Other publications

1	Moreira, A., de Almeida, A. & Nunes, Luis (2026). Atrial Flutter Classification with Active Learning in Imbalanced Learning Context. RECPAD 2026.
2	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.
3	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.
4	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.
5	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.
6	Taborda, B., de Almeida, A., Dias, J. C., Batista, F. & Ribeiro, R. (2021). Stock Market Tweets Data. IEEE Dataport.
7	Câmara, Aríele, 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
8	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.
9	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.
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- Report

1	Cardoso, E., Nunes, Luis, de Almeida, A. & Martins, T. (2023). Estudo para o Conhecimento da Fraude nos Fundos Estruturais em Portugal.
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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), UAAlg - (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 (RAISE), Aptoide - Leader (Portugal)	2016 - 2018
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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
Director (2019 - 2021) Unit/Area: Bachelor Degree in Data Science (PL)

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