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Luís Nunes

Professor Associado (com Agregação)

Department of Information Science and Technology (ISTA)

Integrated Researcher

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



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Curriculum

Luís Miguel Martins Nunes, graduated in Computer Science from Faculdade Ciências da Universidade de Lisboa (1993), obtained a MSc degree in Electrical and Computer Engineering from Instituto Superior Técnico, Universidade Técnica de Lisboa (1997, thesis supervised by Prof. Luís Borges de Almeida) and a PhD degree in Computer Science Engineering from the Faculdade de Engenharia da Universidade do Porto (2006, thesis supervised by Prof. Eugénio de Oliveira). Entered in Iscte in 1997 as Teaching Assistant and is currently Associated Professor. Has also contributed as a researcher in the area of Machine Learning in several research units since 1997 (INESC, ADETTI, LIACC, IT and ISTAR) remaining a member of ISTAR to this date.

Research Interests

Artificial Intelligence

Machine Learning

Data Science

Academic Qualifications

University/Institution	Type	Degree	Period
Faculdade de Engenharia - UP	PhD	Engenharia Informática	2006
Instituto Superior Técnico - UTL	M.Sc.	Engenharia Electrotécnica e de Computadores	1997
Faculdade de Ciências - UL	Licenciate	Informática	1993

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2025/2026	2º	Applied Final Project in Data Science	Bachelor Degree in Data Science;	No
2025/2026	2º	Applied Artificial Intelligence Project	Master Degree in Artificial Intelligence;	Yes
2025/2026	2º	Programming II	Post Graduation Program in STEAM Bridge Program;	Yes
2025/2026	1º	Autonomous Agents	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2025/2026	1º	Introduction to Machine Learning	Master Degree in Computer Engineering;	Yes
2025/2026	1º	Big Data and Artificial Intelligence in Public Policies	Master Degree in Digitalization in Public Administration;	Yes
2025/2026	1º	Master Dissertation in Artificial Intelligence	Master Degree in Artificial Intelligence;	Yes
2024/2025	2º	Applied Final Project in Data Science	Bachelor Degree in Data Science;	No
2024/2025	2º	Applied Artificial Intelligence Project	Master Degree in Artificial Intelligence;	Yes
2024/2025	1º	Introduction to Machine Learning	Master Degree in Computer Engineering;	No
2024/2025	1º	Big Data and Artificial Intelligence in Public Policies	Master Degree in Digitalization in Public Administration;	Yes
2024/2025	1º	Master Dissertation in Artificial Intelligence		Yes
2024/2025	1º	Programming II	Post Graduation Program in STEAM Bridge Program;	Yes

2024/2025	1°	Foundations for Data Science and Machine Learning		No
2024/2025	1°	Object Oriented Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2023/2024	2°	Applied Final Project in Data Science	Bachelor Degree in Data Science;	No
2023/2024	2°	Development for Internet and Mobile Apps		No
2023/2024	1°	Introduction to Machine Learning	Master Degree in Computer Engineering;	No
2023/2024	1°	Big Data and Artificial Intelligence in Public Policies	Post Graduation Program in Digitalization in Public Administration;	Yes
2023/2024	1°	Object Oriented Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2022/2023	2°	Development for Internet and Mobile Apps	Bachelor Degree in Computer Engineering (PL);	No
2022/2023	1°	Introduction to Machine Learning	Master Degree in Computer Engineering;	No
2022/2023	1°	Object Oriented Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2021/2022	2°	Strategy and Public Value		No
2021/2022	2°	Master Dissertation in Computer Science Engineering		Yes
2021/2022	1°	Strategy and Public Value		No
2021/2022	1°	Machine Learning		No
2021/2022	1°	Master Dissertation in Computer Science Engineering		Yes
2020/2021	2°	Development for Internet and Mobile Apps	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	No
2020/2021	2°	Knowledge Discovery and Extraction From Data	Bachelor Degree in Computer Science and Business Management;	No

2020/2021	2°	Master Project in Computer Engineering		Yes
2020/2021	1°	Introduction to Machine Learning	Master Degree in Computer Engineering;	Yes
2020/2021	1°	Master Project in Computer Engineering		Yes
2020/2021	1°	Introduction to Programming	Bachelor Degree in Computer Engineering;	No
2020/2021	1°	Machine Learning		Yes
2020/2021	1°	Master Dissertation in Computer Science Engineering		Yes
2019/2020	2°	Research Methods for Phd in Complexity Sciences II		No
2019/2020	2°	Object Oriented Programming		Yes
2019/2020	2°	Master Dissertation in Computer Science Engineering		Yes
2019/2020	1°	Trandisciplinary Digital Culture		No
2019/2020	1°	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2019/2020	1°	Object Oriented Programming		Yes
2019/2020	1°	Machine Learning		Yes
2019/2020	1°	Master Dissertation in Computer Science Engineering		Yes
2018/2019	2°	Object Oriented Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2018/2019	2°	Master Dissertation in Computer Science Engineering		Yes
2018/2019	1°	Trandisciplinary Digital Culture		No
2018/2019	1°	Object Oriented Programming		No
2018/2019	1°	Machine Learning		Yes
2018/2019	1°	Master Dissertation in Computer Science Engineering		Yes

2017/2018	2º	Research Methods for Phd in Complexity Sciences II		No
2017/2018	2º	Object Oriented Programming	Bachelor Degree in Computer Engineering;	Yes
2017/2018	1º	Trandisciplinary Digital Culture		No
2017/2018	1º	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering;	No
2017/2018	1º	Object Oriented Programming		Yes
2017/2018	1º	Machine Learning		Yes
2016/2017	2º	Sitrep.at Lisbon: the Urbanity of Civic Forums		No
2016/2017	2º	Collaborative Digital Processes		No
2016/2017	2º	Object Oriented Programming	Bachelor Degree in Computer Engineering;	Yes
2016/2017	2º	Object Oriented Programming	Bachelor Degree in Computer Engineering;	Yes
2016/2017	1º	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2016/2017	1º	Object Oriented Programming		Yes
2016/2017	1º	Machine Learning		No
2015/2016	2º	Research Methods for Phd in Complexity Sciences II		No
2015/2016	2º	Sitrep.at Lisbon: the Urbanity of Civic Forums		No
2015/2016	2º	Object Oriented Programming	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2015/2016	2º	Object Oriented Programming	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2015/2016	1º	Regression Applications for Business		Yes

2015/2016	1°	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2015/2016	1°	Machine Learning		No
2014/2015	2°	Object Oriented Programming	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2014/2015	2°	Object Oriented Programming	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2014/2015	1°	Advanced Topics in Business Intelligence		No
2014/2015	1°	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2014/2015	1°	Machine Learning		Yes
2013/2014	2°	Object Oriented Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2013/2014	2°	Object Oriented Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2013/2014	1°	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering;	No
2013/2014	1°	Machine Learning		Yes

Supervisions

- **Ph.D. Thesis**
- **Concluded**

	Student Name	Title/Topic	Language	Institution	Concluding Year
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1	Nuno Miguel da Conceição António	Hotel Revenue Management: Using Data Science to Predict Booking Cancellations	--	Iscte	2019
2	David Walter Figueira Jardim	Human activity recognition and prediction in RGB-D videos	--	Iscte	2018

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Manuel Alvarez Couto Martins	Criação de rotas turísticas com base em dados	--	Developing	Iscte
2	Gonçalo Alexandre Pombo Santos	Reinforcement Learning for Swarm Control	--	Developing	Iscte
3	Vasco da Silva Santos	Analysis of Criminal Recidivism using Machine Learning	--	Developing	Iscte
4	Bruno Da Fonseca Ramos	Aprendizagem Automática Aplicada a Reincidência Criminal	--	Developing	Iscte
5	Vanda Soraia Friza Barata	The role of synthetic data in Health	--	Developing	Iscte
6	André Monteiro Repolho dos Santos	Impact of Artificial Intelligence on Public Policy Automation: Benefits, Risks, and Pathways for Responsible Governance	--	Developing	Iscte
7	Rebecca de Oliveira Cunha	Dados sintéticos para machine learning: um estudo sobre qualidade e avaliação	--	Developing	Iscte
8	Alice Baikova	Text Mining in the Context of Public Policy	--	Developing	Iscte
9	Rodrigo André Costa e Silva	Previsão da Escassez de Professores em Portugal recorrendo a Modelos de Inteligência Artificial e Dados de Emprego Público	--	Developing	Iscte
10	Tiago Jantarada Patrício	Evaluation of Privacy-Preserving Techniques and Their Impact	--	Developing	Iscte
11	Pedro Miguel de Almeida Gonçalves Marques	AI for Detecting and Preventing Lost Parcels in Last-Mile Delivery: A Company Case Study	--	Developing	Iscte
12	Rebeca Henriques de Melo Sampaio	Entre duas crises: os efeitos da pandemia de COVID-19 no emprego jovem em Portugal	--	Developing	Iscte

13	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
14	Tiago Afonso de Sousa Afonseca	Optimization of Neighbour Relations and Anomaly Detection in Mobile Networks using Machine Learning	--	Developing	Iscte
15	Ana Rita da Silva Ferreira	Integration of ESG Indicators in Credit Risk Assessment: An Analytical Approach	--	Developing	Iscte
16	Felipe Gomes Silva	Prediction of missed flight connections using machine learning algorithms	--	Developing	Iscte
17	Mara Andreia Pimpão Alves	Land cover image segmentation based on sparse annotation	--	Developing	Iscte
18	Tiago Rodrigues Francisco	Youth employment analysis	--	Developing	Iscte
19	Bruno Filipe Celestino Pedro	Análise preditiva de indicadores demográficos de Portugal	--	Developing	Iscte
20	Aline Pozzebon	Information extraction for public policy planning	--	Developing	Iscte
21	Celso Emanuel Daniel Ribeiro	Creation of Tourist Routes Based on Data from Tourism of Portugal	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Ana Mercês Soares dos Reis Moreira	Atrial Flutter Classification with Active Learning in Imbalanced Learning Context	English	Iscte	2025
2	Miguel Gonçalves Teodoro	Vision-Based Reinforcement Learning: The Role of Transfer Learning and Action Space Design in Symmetric Reward Financial Markets	English	Iscte	2025
3	Miguel Lopes Valadares	Exploratory Data Analysis of Self-Consumption Units in Portugal's Energy Transition	English	Iscte	2025
4	Tiago Manuel Pereira dos Santos Alves	Enhancing Intrusion Detection Systems using Anomaly Detection and Imbalanced Learning Techniques	English	Iscte	2025
5	Inês Colaço Ascenso	Artificial Intelligence applied to public employment data in the Portuguese Education sector	English	Iscte	2025

6	Susana Filipa Raposo Ferreira	Public Procurement and Human Resources Data Analysis in Healthcare	English	Iscte	2025
7	Clara Nunes Barrancos	Explaining Image Classification by Monitoring Layers activity	English	Iscte	2025
8	Dílan Vera Cruz Viana da Conceição	Imbalanced Learning on Bank Account Frauds	Portuguese	Iscte	2024
9	Luís Miguel Carçoço Ranito	Exploring Relationships in User Story Management using a graph database	English	Iscte	2024
10	Joaquim Henriques Carvalho	Criminal Recidivism in Portugal: A Look Through the Data from the General Directorate of Rehabilitation and Prison Services (DGRSP)	Portuguese	Iscte	2024
11	Tiago Filipe Martins Tavares	Territorial Inequalities in Secondary Education in Portugal	Portuguese	Iscte	2024
12	João Pedro Tomás Ferreira	Deep Learning for Personal Protection Equipment (PPE) Detection in Real-Life Scenarios	English	Iscte	2024
13	Diogo Esteves Matias Lopes	Maximise Available Transfer Capability in a Power Network with the support of Deep Reinforcement Learning	English	Iscte	2024
14	Afonso José Tripa Geraldo	Multi-season deep learning-based land cover classification using satellite images	English	Iscte	2024
15	Ana Beatriz Nunes Lapa	Quality of youth employment in Portugal over a decade	--	Iscte	2024
16	Rodrigo Miguel Jorge Mendes	Impact on academic success of changes in the student's life	Portuguese	Iscte	2024
17	João Sérgio Vieira Zolá Ribeiro	Detecting anomalies in waste management data in Portugal	Portuguese	Iscte	2024
18	Clara Alexandra dos Santos Martins Carvalho Baptista	Predictive Modeling of Financed Amount of Personal Loans in the context of Outbound Marketing	English	Iscte	2023
19	Afonso Chen Miao	Forecast of cancellation of projects in the management of public funds	English	Iscte	2023
20	Simão de São José Gregório de Oliveira Frazão Correia	Extracting relevant information regarding customer behaviour from surveillance videos	English	Iscte	2023
21	João Tomás Ferreira Guerra	Data Analysis to detect Successful Strategies in Education	Portuguese	Iscte	2023
22	Diogo Amaro Mendes	Multi-camera person re-identification based on trajectory data in a retail environment	Portuguese	Iscte	2023

23	Sérgio Filipe Paiva da Silva Gonçalves dos Santos	Land Cover Automatic classification using a deep learning technique applied to satellite imagery	English	Iscte	2023
24	Tiago de Sousa Alves	Analysis of investment product prospectuses and management regulations	Portuguese	Iscte	2023
25	Luís Henrique Broncas Chinita	Text mining applied to the prediction of irregularities in public funds applications	Portuguese	Iscte	2022
26	Alexandre Valério Rodrigues	Evolutionary strategies in swarm robotics controllers	English	Iscte	2022
27	Inês Mendes dos Santos Rodrigues de Carvalho	Identification of Risk Factors in the Severity of Road Accidents	Portuguese	Iscte	2022
28	Francisco Miguel da Silva Caldeira	Automatic Classification of Complaints from Public Administration	English	Iscte	2022
29	Alexandre Sadik Vieira Juma	Impact of COVID-19 Pandemic Restrictions in Urban Mobility and Air Pollution in Lisbon, Portugal	English	Iscte	2021
30	Alberto Neto Vilas	Forecasting cancellation on public funded projects	Portuguese	Iscte	2021
31	Soraia Hermínia Aguiar Afonso Fernandes	Identification of the residues deposited outside the deposition equipment, using video analytics	English	Iscte	2021
32	Nicole Furtado Oliveira	ETL for Data Science? A Case Study.	English	Iscte	2021
33	Filipa Isabel Viegas Batista	Big Data Analytics of Electricity Consumption in Portugal	Portuguese	Iscte	2021
34	João Carlos Pereira Sousa Macedo Mesquitela	A data-driven approach to road accidents in the municipality of Lisbon	English	Iscte	2021
35	Mário Lança Campos Salgado	Community Discovery in Mobile Games	English	Iscte	2020
36	Miguel de Guerra Narciso	Cryptocurrency Analysis based on User-Generated Social Media Content	English	Iscte	2020
37	Miguel José Candeias Bento	User behaviour identification based on location data	English	Iscte	2020
38	João Guilherme de Lourenço Vieira Duque	Malware Detection based on dynamic analysis features	English	Iscte	2020
39	António Francisco Serol Sequeira	Mobile App for Identification of Recycling Materials	English	Iscte	2020
40	João Pedro Lapa da Silva Lopes	Malware detection methods for Android malware applications	English	Iscte	2020

41	Maria Quintela Cruz	Indoor/outdoor image classification and its representative quality	Portuguese	Iscte	2019
42	João Filipe Ferreira Januário	Electricity price forecasting utilizing machine learning in MIBEL	English	Iscte	2019
43	Francisco Marques Gracias	Recognition of Customer-Product Interactions in Retail Environments	Portuguese	Iscte	2018
44	João Rodrigo Romão Marinho Pinto da Cruz	Deep Learning for Large-Scale Fine-Grained Recognition of Cars	English	Iscte	2018
45	Mário Rivotti Hauptfleisch	Automated Curriculum Screening	Portuguese	Iscte	2018
46	Pedro Sousa Romano	A cooperative active perception approach for Swarm Robotics.	English	Iscte	2018
47	Diogo Franco	Sistema de Recomendação para Regras de Automação em IoT	English	Instituto Superior Técnico	2017
48	Marco Hélio Ramos Silva	Predicting Space Occupancy for Street Paid Parking	English	Iscte	2017
49	Pedro Ruben Januário Pêgo	Automatic Integration of IoT Devices	English	Iscte	2016
50	Rui Nuno Neves Madeira	A Machine Learning Approach for Indirect Human Presence Detection Using IoT Devices	English	Iscte	2016
51	Pedro Fonseca das Neves	Multifactor Authentication using Smartphone as Token.	English	Iscte	2015
52	Pedro Proença D'Almeida Bonifácio Costa	Profiling users' preferences with Text Mining	English	Iscte	2014
53	Tiago José Saloio Marques do Bem	--	--	Iscte	2011
54	David Jardim	Aprendizagem por Reforço Hierárquica	English	Iscte	2010
55	Jorge Vicente	Aprendizagem de Caminhos Típicos	English	Iscte	2009

• M.Sc. Final Projects

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Ana Isabel Lima Carreiro	Impact of big data on accountability in public administration	--	Developing	Iscte
2	Marta Maria Farinha Martins	Digital Preservation of Institutional Information: a case study in Municipality of Sertão	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Sandra da Encarnação Rodrigues Ventura	Digital model to modernize the IGEC Human Resources processes: Predictive analytics and efficiency in Public Administration	Portuguese	Iscte	2025

Total Citations

Web of Science®	455
Scopus	775

Publications

• Scientific Journals

- Scientific journal paper

1	Martins, T., de Almeida, A., Cardoso, E. & Nunes, L. (2024). Explainable artificial intelligence (XAI): A systematic literature review on taxonomies and applications in finance. IEEE Access. 12, 618-629 - Times Cited Web of Science®: 19 - Times Cited Scopus: 22 - Times Cited Google Scholar: 43
2	Mendes, D., Correia, S., Jorge, P., Brandão, T., Arriaga, P. & Nunes, L. (2023). Multi-camera person re-identification based on trajectory data. Applied Sciences. 13 (20) - Times Cited Web of Science®: 3 - Times Cited Scopus: 3 - Times Cited Google Scholar: 5
3	Duque, J., Mendes, G., Nunes, L., de Almeida, A. & Serrão, C. (2022). Automated android malware detection using user feedback. Sensors. 22 (17) - Times Cited Google Scholar: 2
4	Mesquitela, J., Elvas, L. B., Ferreira, J. & Nunes, L. (2022). Data analytics process over road accidents data—A case study of Lisbon city. ISPRS International Journal of Geo-Information. 11 (2) - Times Cited Web of Science®: 24 - Times Cited Scopus: 29 - Times Cited Google Scholar: 46
5	Antonio, N., De Almeida, A. & Nunes, L. (2020). A hotel's customers personal, behavioral, demographic, and geographic dataset from Lisbon, Portugal (2015–2018). Data in Brief. 33 - Times Cited Scopus: 3 - Times Cited Google Scholar: 9

6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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®: 45 - Times Cited Google Scholar: 109
14	Nunes, Luis & Oliveira, E. (2008). Communication during learning in heterogeneous teams of learning agents. <i>Intelligent Decision Technologies</i>. 2 (3), 153-166 - Times Cited Web of Science®: 7 - Times Cited Scopus: 4 - Times Cited Google Scholar: 5
15	Nunes, Luis & Oliveira, E. (2005). Advice-exchange between evolutionary algorithms and reinforcement learning agents: Experiments in the pursuit domain. <i>Lecture Notes in Computer Science</i>. 3394, 185-204 - Times Cited Web of Science®: 10 - Times Cited Scopus: 9 - Times Cited Google Scholar: 19

16	Nunes, L. & Oliveira, E. (2003). On learning by exchanging advice. The Interdisciplinary Journal of Artificial Intelligence and the Simulation of Behaviour. 1 (3), 241-257 - Times Cited Google Scholar: 38
17	Nunes, Luis & Oliveira, E. (2003). Exchanging advice and learning to trust. Lecture Notes in Computer Science. 2782, 250-265 - Times Cited Web of Science®: 4 - Times Cited Scopus: 4 - Times Cited Google Scholar: 12
18	Nunes, Luis & Oliveira, E. (2003). Cooperative learning using advice exchange. Lecture Notes in Computer Science. 2636, 33-48 - Times Cited Web of Science®: 12 - Times Cited Scopus: 20 - Times Cited Google Scholar: 43

• Books and Book Chapters

- Book chapter

1	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
2	Nunes, L. (2023). A inteligência artificial como ferramenta de apoio à decisão. In Francisco Camacho (Ed.), 88 Vozes sobre inteligência artificial: O que fica para a máquina e o que fica para o homem?. (pp. 420-424).: Oficina do Livro.
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, Nádia 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	Moura, J., Batista, F., Cardoso, E. & Nunes, L. (2015). Intelligent management and efficient operation of big data. In Noor Zaman, Mohamed Elhassan Seliaman, Mohd Fadzil Hassan, Fausto Pedro Garcia Marquez (Ed.), Handbook of research on trends and future directions in big data and web intelligence. (pp. 105-129).: IGI Global. - Times Cited Google Scholar: 5
7	Oliveira, E. & Nunes, L. (2005). Learning by exchanging advice. In Nikhil Ichalkaranje , Lakhmi C. Jain , Rajiv Khosla (Ed.), Design of intelligent multi-agent systems: Human-centredness, architectures, learning and adaptation. (pp. 279-313). Berlin Heidelberg: Springer. - Times Cited Google Scholar: 24

8	Romano, P., Nunes, Luis, Christensen, A. L., Duarte, M. & Oliveira, S. M. (). Genome Variations. In (pp. 309-319). - Times Cited Scopus: 1
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• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Peixoto, A., Glória, A., Silva, J. L., Pinto-Albuquerque, M., Brandão, T. & Nunes, L. (2024). Use of programming aids in undergraduate courses. In Santos A.L., Pinto-Albuquerque M. (Ed.), 5th International Computer Programming Education Conference (ICPEC 2024). (pp. 20:1-20:9). Lisboa: Schloss Dagstuhl – Leibniz-Zentrum für Informatik.
2	Nunes, L. (2023). Inteligência artificial na administração pública: Casos práticos do centro de competências IA & AP do Iscte. In Miguel Sales Dias (Ed.), 1.ª Conferência SocioDigital Lab 2022: Transformação digital em tempos de crise: Policy briefs. (pp. 31-34): SocioDigital Lab, Iscte – Instituto Universitário de Lisboa.
3	Romano, P., Nunes, L. & Oliveira, S. (2023). Hybrid training to generate robust behaviour for swarm robotics tasks. In van Stein, N., Marcelloni, F., Lam, H. K., Cottrell, M., and Filipe, J. (Ed.), Proceedings of the 15th International Joint Conference on Computational Intelligence. (pp. 265-277). Rome, Italy: SciTePress.
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19	Romano, P., Nunes, L., Christensen, A. L., Duarte, M. & Oliveira, S. (2015). Genome variations: Effects on the robustness of neuroevolved control for swarm robotics systems. In Luís Paulo Reis, António Paulo Moreira, Pedro U. Lima, Luis Montano, Victor Muñoz-Martinez (Ed.), Proceedings of the ROBOT'2015: Second Iberian Robotics. Lisboa: Springer. - Times Cited Google Scholar: 2
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27	Nunes, Luis, Jardim, D. & Oliveira, S. (2011). Hierarchical reinforcement learning: Learning sub-goals and state-abstraction. In AISTI - Associação Ibérica de Sistemas e Tecnologias de Informação (Ed.), 6th Iberian Conference on Information Systems and Technologies (CISTI 2011). (pp. 245-248). Chaves, Portugal: IEEE. - Times Cited Scopus: 5 - Times Cited Google Scholar: 11
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30	Abreu, B., Botelho, L., Cavallaro, A., Douchamps, D., Ebrahimi, T., Figueiredo, P....Violante, A. (2000). Video-based multi-agent traffic surveillance system. In Rillings, J. (Ed.), Proceedings of the IEEE Intelligent Vehicles Symposium 2000. (pp. 457-462). Dearborn, MI, USA - Times Cited Web of Science®: 35 - Times Cited Scopus: 37 - Times Cited Google Scholar: 81
31	Nunes, Luis & Luís Borges de Almeida (1998). Initialization and construction of locally tuneable neural networks. In 2nd IEEE World Congress on Computational Intelligence (WCCI 98). (pp. 2224-2229).
32	Nunes, Luis, Luís Borges de Almeida & Thibault Langlois (1996). Interpolation networks. In 1996 IEEE International Conference on Neural Networks (ICNN 96). (pp. 1750-1754). Washington - Times Cited Google Scholar: 1
33	Neto, João P., Luís Borges de Almeida, Mike Hochberg, Ciro Martins, Nunes, Luis, Steve Renals...Tony Robinson (1995). Speaker Adaptation for Hybrid HMM-ANN Continuous Speech Recognition System. In European Conference on Speech Communication and Technology, Eurospeech 95. (pp. 2171-2174). Madrid - Times Cited Scopus: 142 - Times Cited Google Scholar: 277

- Talk

1	Nunes, Luis (2024). Use of Programming Aids in Undergraduate Courses. International Computer Programming Education Conference.
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2	Nunes, Luis & Eugénio Oliveira (2004). Learning from multiple sources. Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS 2004. 1106-1103
3	Nunes, Luis & Oliveira, E. (2003). Advice-Exchange in Heterogeneous Groups of Learning Agents. International Conference on Autonomous Agents. - Times Cited Scopus: 3 - Times Cited Google Scholar: 19
4	Nunes, Luis & Luís Borges de Almeida (1998). Initialization and construction of locally tuneable neural networks. 2nd IEEE World Congress on Computational Intelligence (WCCI 98). 2224-2229
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- Conference paper not in proceedings

1	António, N., Almeida, A. & Nunes, L. (2017). Enabling bookings cancellation prediction with data science. 4th World Research Summit for Tourism and Hospitality.
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• Other Publications

- Non-peer-reviewed papers

1	Elvas, L. B., Nunes, Luis, Ferreira, J., Francisco, Bruno Alexandre, Afonso, J. A., Afonso, J. A....Afonso, J. A. (2023). Georeferenced Analysis of Urban Nightlife and Noise Based on Mobile Phone Data. Applied Sciences. - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
2	Botelho, L., Nunes, Luis, Ribeiro, R. & Lopes, Rui J. (2022). Learning Rhetorical Structure Theory-based descriptions of observed behaviour. arXiv.
3	Botelho, L., Nunes, Luis, Ribeiro, R. & Lopes, Rui J. (2015). Software Agents with Concerns of their Own. ArXiv. - Times Cited Google Scholar: 1

- Other publications

1	Lapa, A. B., Nunes, Luis & Suleman, F. (2025). Trajetórias profissionais de jovens em Portugal: Uma análise entre 2009 e 2019. Observatório do Emprego Jovem, Policy Briefs.
2	Vicente, Jorge & Nunes, Luis (2010). Automatic Learning of Typical Paths in Video Surveillance. XVII Jornadas de Classificação e Análise de Dados, JOCLAD 2010.
3	Nunes, Luis & luis.nunes@iscte.pt (2003). Advice-Exchange Amongst Heterogeneous Learning Agents: Experiments in the Pursuit Domain. Second International Joint Conference on Autonomous Agents & Multiagent Systems, AAMAS 2003.

- Newspaper article

1	Nunes, Luis (2022). Inteligência Artificial no Estado. Expresso.
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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	Principal Researcher	ISTAR-Iscte (SCM)	2025 - 2026
Sistemas de Informação e Análise de Dados para o Planeamento de Políticas Pública	Principal Researcher	ISTAR-Iscte - Leader, INESC-ID - (Portugal), UAIG - (Portugal)	2025 - 2026
AIH - A secure standard for storing health data and AI applications	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	Global Coordinator	ISTAR-Iscte (SCM), CIES-Iscte	2022 - 2023
Smart Commercial Spaces	Local Coordinator	ISTAR-Iscte (SCM), CIS-Iscte, Axians - Leader (Portugal), SONAE - (Portugal)	2021 - 2022
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)	2015 - 2018
Multipass	Local Coordinator	IT-Iscte	2013 - 2014

Academic Management Positions

Director (2026 - 2029)
Unit/Area: Master Degree in Artificial Intelligence

Coordenador do 2º Ano (2025 - 2027)
Unit/Area: Master Degree in Artificial Intelligence

Coordenador do 1º Ano (2024 - 2026)
Unit/Area: Master Degree in Artificial Intelligence

Director (2024 - 2026)
Unit/Area: Master Degree in Artificial Intelligence

Coordenador do 2º Ano (2021 - 2023)
Unit/Area: Master Degree in Computer Engineering

Coordenador do 1º Ano (2021 - 2023)
Unit/Area: Master Degree in Computer Engineering

Director (2020 - 2022)
Unit/Area: Master Degree in Computer Engineering

Director (2018 - 2020)
Unit/Area: Master Degree in Computer Engineering

Coordenador do 1º Ano (2016 - 2018)
Unit/Area: Bachelor Degree in Computer Engineering (PL)

Coordenador do 1º Ano (2016 - 2018)
Unit/Area: Bachelor Degree in Computer Engineering

Coordenador do 1º Ano (2014 - 2016)
Unit/Area: Bachelor Degree in Computer Engineering (PL)

Coordenador do 1º Ano (2014 - 2016)
Unit/Area: Bachelor Degree in Computer Engineering

Coordenador do 1º Ano (2011 - 2014)
Unit/Area: Bachelor Degree in Computer Engineering

Research Networks

Research Network Name	Representative Role	Period
Artificial Intelligence Competence Center for Public Administration (IA - AP)	Coordenador	Since 2021
Whaller	Participant	2022

Professional Associations

APPIA (Since 2000)

Organization/Coordination of Events			
Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event's organizing committee	1st Conference of the Socio-Digital Lab 2022 Digital Transformation in Times of Crisis	Socio Digital Lab - Iscte	2022
Member of scientific event committee	International Conference on Soft Computing Models in Industrial Applications		2013
Member of scientific event committee	Workshop in Intelligent Systems and Applications, Conferência Ibérica de Sistemas e Tecnologias da I		2013
Member of scientific event committee	5th International Conference on Agents and Artificial Intelligence		2013
Member of scientific event's organizing committee	Lisbon Machine Learning School LxMLS, 2012		2012

Diffusion Activities			
Activity Type	Event Title	Activity Description	Year
Publication in general diffusion news outlet	EntreCampus	Artificial Intelligence for Public Administration	2024
Member of organizing committee of knowledge diffusion event	1st Conference of the Socio-Digital Lab 2022 Digital Transformation in Times of Crisis	Program Committee, organization and workshop moderation, discussion panel organization and moderation	2022