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Luís Nunes

Professor Associado (com Agregação)

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



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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	Licenciante	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; Specialization Seminar in Big Data and Artificial Intelligence 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	1°	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	2°	Research Methods for Phd in Complexity Sciences II		No
2017/2018	2°	Object Oriented Programming	Bachelor Degree in Computer Engineering;	Yes
2017/2018	1°	Trandisciplinary Digital Culture		No
2017/2018	1°	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering;	No
2017/2018	1°	Object Oriented Programming		Yes
2017/2018	1°	Machine Learning		Yes
2016/2017	2°	Sitrep.at Lisbon: the Urbanity of Civic Forums		No
2016/2017	2°	Collaborative Digital Processes		No
2016/2017	2°	Object Oriented Programming	Bachelor Degree in Computer Engineering;	Yes
2016/2017	2°	Object Oriented Programming	Bachelor Degree in Computer Engineering;	Yes
2016/2017	1°	Concurrent and Parallel Programming	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2016/2017	1°	Object Oriented Programming		Yes
2016/2017	1°	Machine Learning		No
2015/2016	2°	Research Methods for Phd in Complexity Sciences II		No
2015/2016	2°	Sitrep.at Lisbon: the Urbanity of Civic Forums		No
2015/2016	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
2015/2016	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
2015/2016	1°	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
3	Nuno Miguel da Conceição António	Hotel Revenue Management: Using Data Science to Predict Booking Cancellations	English	Iscte	2016
4	Nuno Miguel da Conceição António	Hotel Revenue Management: Using Data Science to Predict Booking Cancellations	English	Iscte	2016
5	David Walter Figueira Jardim	Human activity recognition and prediction in RGB-D videos	English	Iscte	2015

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Gonçalo Alexandre Pombo Santos	Reinforcement Learning for Swarm Control	--	Developing	Iscte
2	Bruno Da Fonseca Ramos	Applied Machine Learning to Criminal Recidivism	--	Developing	Iscte
3	Vasco da Silva Santos	Analysis of Criminal Recidivism using Machine Learning	--	Developing	Iscte
4	Celso Emanuel Daniel Ribeiro	Personalization of Tourism Experiences through Conversational Interfaces and Recommendation Systems	--	Developing	Iscte
5	Vanda Soraia Friza Barata	The role of synthetic data in Health	--	Developing	Iscte
6	Manuel Alvarez Couto Martins	Criação de rotas turísticas com base em dados	--	Developing	Iscte
7	Rebecca de Oliveira Cunha	Synthetic Data for Machine Learning: A Study on Data Quality and Evaluation	--	Developing	Iscte
8	André Monteiro Repolho dos Santos	Impact of Artificial Intelligence on Public Policy Automation: Benefits, Risks, and Pathways for Responsible Governance	--	Developing	Iscte
9	Alice Baikova	Text Mining in the Context of Public Policy	--	Developing	Iscte
10	Rodrigo André Costa e Silva	Forecasting Teacher Shortages in Portugal Using Artificial Intelligence Models and Public Employment Data	--	Developing	Iscte

11	Tiago Jantarada Patrício	Evaluation of Privacy-Preserving Techniques and Their Impact	--	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	Pedro Miguel de Almeida Gonçalves Marques	AI for Detecting and Preventing Lost Parcels in Last-Mile Delivery: A Company Case Study	--	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	Tiago Afonso de Sousa Afonseca	Optimization of Neighbour Relations and Anomaly Detection in Mobile Networks using Machine Learning	--	Developing	Iscte
16	Ana Rita da Silva Ferreira	Integration of ESG Indicators in Credit Risk Assessment: An Analytical Approach	--	Developing	Iscte
17	Felipe Gomes Silva	Prediction of missed flight connections using machine learning algorithms	--	Developing	Iscte
18	Mara Andreia Pimpão Alves	Land cover image segmentation based on sparse annotation	--	Developing	Iscte
19	Tiago Rodrigues Francisco	Youth employment analysis	--	Developing	Iscte
20	Bruno Filipe Celestino Pedro	Análise preditiva de indicadores demográficos de Portugal	--	Developing	Iscte
21	Aline Pozzebon	Information extraction for public policy planning	--	Developing	Iscte
22	Hugo Alexandre Madeira Patrício	Identificação de variáveis processuais num sistema de refinação por inline blending	English	Developing	Iscte
23	Clara Alexandra dos Santos Martins Carvalho Baptista	Aplicações de Aprendizagem Automática	English	Developing	Iscte
24	Inês Alexandra Guimarães Fernandes	LISBOA GREEN & SMART: Análise e contribuições do desempenho da cidade de Lisboa e avaliação do seu progresso e cumprimento dos ODS da Agenda 2030 para o Desenvolvimento Sustentável.	English	Developing	Iscte

25	Nuno Luís da Silva Miranda	Caracterização e identificação discrepâncias populacionais com dados de operadora telefónica	English	Developing	Iscte
26	Lourenço do Nascimento Marvão	Avaliação automática de risco ambiental de empresas	English	Developing	Iscte
27	Tiago Simão Tomás	Estudar e desenvolver mecanismos inteligentes que permitam a deteção de relações ou agrupamentos relevantes para a avaliação de risco em redes. Construção de um sistema que permite identificar níveis de risco operacional e estratégico de insucesso de projetos financiados por programas de incentivos.	English	Developing	Iscte
28	Ricardo José Martins Castanheira	Identificação de pontos de incidência dos acidentes rodoviários e da sua correlação com outros factores na cidade de Lisboa	English	Developing	Iscte
29	Pedro António Galindo Jorge	Modelo de caracterização de clientes baseado em imagens	English	Developing	Iscte
30	Miguel Del Barco Peres Rodrigues	3D swarm flying simulation	English	Developing	Iscte
31	Alexandre Filipe Conceição Mendes	Aprendizagem por Reforço vs Estratégias Evolucionárias em Cenários de Controle de Enxame	English	Developing	Iscte
32	Francisco Miguel Marto Vila Real Pereira	Identificação Automática dos Objetivos de Desenvolvimento Sustentável (ODS) em Texto	English	Developing	Iscte
33	João Diogo Duarte da Silva Andrade	Portal de fusão de dados para informações imobiliárias	English	Developing	Iscte
34	Fábio André Silveiras Dias	Motorcycle ride aid tool for data gathering and pattern matching	English	Developing	Iscte
35	José Jorge Marreiros Serro	Market Forecasting using Natural Language Processing and Deep Learning Algorithms	English	Developing	Iscte
36	Paulo Jorge Filipe da Silva	Mining e padrões em dados imobiliários.	English	Developing	Iscte
37	Simone Isabel Alenquer Gonçalves	Análise evolutiva do consumo elétrico no sector empresarial português em contexto de crise.	English	Developing	Iscte
38	Nuno Filipe Gonçalves Rato Cavalheira Antunes	"Interactive, dynamic Scheduling"	English	Developing	Iscte

39	Valéria Cristina Seixas Pacheco	Big Data - Guardar, tratar e visualizar dados.	English	Developing	Iscte
40	Paulo Jorge Rodrigues de Carvalho	Elaboração de um mecanismo de recomendações na área das telecomunicações para fidelizar clientes e aumentar o retorno.	English	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Andrea Bersellini	Application of Reinforcement Learning to Large, Partially Observable State Spaces in a Video Game Environment	English	--	2026
2	Ana Mercês Soares dos Reis Moreira	Atrial Flutter Classification with Active Learning in Imbalanced Learning Context	English	Iscte	2025
3	Miguel Gonçalves Teodoro	Vision-Based Reinforcement Learning: The Role of Transfer Learning and Action Space Design in Symmetric Reward Financial Markets	English	Iscte	2025
4	Miguel Lopes Valadares	Exploratory Data Analysis of Self-Consumption Units in Portugal's Energy Transition	English	Iscte	2025
5	Tiago Manuel Pereira dos Santos Alves	Enhancing Intrusion Detection Systems using Anomaly Detection and Imbalanced Learning Techniques	English	Iscte	2025
6	Inês Colaço Ascenso	Artificial Intelligence applied to public employment data in the Portuguese Education sector	English	Iscte	2025
7	Susana Filipa Raposo Ferreira	Public Procurement and Human Resources Data Analysis in Healthcare	English	Iscte	2025
8	Clara Nunes Barrancos	Explaining Image Classification by Monitoring Layers activity	English	Iscte	2025
9	Dílan Vera Cruz Viana da Conceição	Imbalanced Learning on Bank Account Frauds	Portuguese	Iscte	2024
10	Luís Miguel Caroço Ranito	Exploring Relationships in User Story Management using a graph database	English	Iscte	2024
11	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
12	Tiago Filipe Martins Tavares	Territorial Inequalities in Secondary Education in Portugal	Portuguese	Iscte	2024

13	João Pedro Tomás Ferreira	Deep Learning for Personal Protection Equipment (PPE) Detection in Real-Life Scenarios	English	Iscte	2024
14	Diogo Esteves Matias Lopes	Maximise Available Transfer Capability in a Power Network with the support of Deep Reinforcement Learning	English	Iscte	2024
15	Afonso José Tripa Geraldo	Multi-season deep learning-based land cover classification using satellite images	English	Iscte	2024
16	Ana Beatriz Nunes Lapa	Quality of youth employment in Portugal over a decade	--	Iscte	2024
17	Rodrigo Miguel Jorge Mendes	Impact on academic success of changes in the student's life	Portuguese	Iscte	2024
18	João Sérgio Vieira Zolá Ribeiro	Detecting anomalies in waste management data in Portugal	Portuguese	Iscte	2024
19	Rodrigo Miguel Jorge Mendes	Como mudanças na vida dos alunos impactam o sucesso escolar e as desistências dos alunos	English	Iscte	2024
20	Clara Alexandra dos Santos Martins Carvalho Baptista	Predictive Modeling of Financed Amount of Personal Loans in the context of Outbound Marketing	English	Iscte	2023
21	Afonso Chen Miao	Forecast of cancellation of projects in the management of public funds	English	Iscte	2023
22	Simão de São José Gregório de Oliveira Frazão Correia	Extracting relevant information regarding customer behaviour from surveillance videos	English	Iscte	2023
23	João Tomás Ferreira Guerra	Data Analysis to detect Successful Strategies in Education	Portuguese	Iscte	2023
24	Diogo Amaro Mendes	Multi-camera person re-identification based on trajectory data in a retail environment	Portuguese	Iscte	2023
25	Sérgio Filipe Paiva da Silva Gonçalves dos Santos	Land Cover Automatic classification using a deep learning technique applied to satellite imagery	English	Iscte	2023
26	Tiago de Sousa Alves	Analysis of investment product prospectuses and management regulations	Portuguese	Iscte	2023
27	Sérgio Filipe Paiva da Silva Gonçalves dos Santos	Classificação automática do solo com recurso a técnicas de aprendizagem profunda aplicadas a imagens de satélite	English	Iscte	2023
28	João Tomás Ferreira Guerra	Análise de dados para a deteção de Estratégias de Sucesso na Educação.	English	Iscte	2023

29	Simão de São José Gregório de Oliveira Frazão Correia	Extração de informações relevantes sobre o comportamento de clientes a partir de vídeos de vigilância.	English	Iscte	2023
30	Tiago de Sousa Alves	Análise de prospetos e regulamentos de gestão de produtos de investimento.	English	Iscte	2023
31	Afonso Chen Miao	Previsão de anulação de projetos na gestão de fundos públicos	English	Iscte	2023
32	Diogo Amaro Mendes	Reidentificação de pessoas em ambientes comerciais multicâmara com base no seu percurso.	English	Iscte	2023
33	Luís Henrique Broncas Chinita	Text mining applied to the prediction of irregularities in public funds applications	Portuguese	Iscte	2022
34	Alexandre Valério Rodrigues	Evolutionary strategies in swarm robotics controllers	English	Iscte	2022
35	Inês Mendes dos Santos Rodrigues de Carvalho	Identification of Risk Factors in the Severity of Road Accidents	Portuguese	Iscte	2022
36	Francisco Miguel da Silva Caldeira	Automatic Classification of Complaints from Public Administration	English	Iscte	2022
37	Alexandre Valério Rodrigues	Estratégias evolutivas em controladores de swarm robots.	English	Iscte	2022
38	Francisco Miguel da Silva Caldeira	Triagem de dados de reclamações	English	Iscte	2022
39	Alexandre Sadik Vieira Juma	Impact of COVID-19 Pandemic Restrictions in Urban Mobility and Air Pollution in Lisbon, Portugal	English	Iscte	2021
40	Alberto Neto Vilas	Forecasting cancelation on public funded projects	Portuguese	Iscte	2021
41	Soraia Hermínia Aguiar Afonso Fernandes	Identification of the residues deposited outside the deposition equipment, using video analytics	English	Iscte	2021
42	Nicole Furtado Oliveira	ETL for Data Science? A Case Study.	English	Iscte	2021
43	Filipa Isabel Viegas Batista	Big Data Analytics of Electricity Consumption in Portugal	Portuguese	Iscte	2021
44	João Carlos Pereira Sousa Macedo Mesquitela	A data-driven approach to road accidents in the municipality of Lisbon	English	Iscte	2021
45	Alberto Neto Vilas	Previsão de anulação de projetos financiados por fundos públicos.	English	Iscte	2021
46	Nicole Furtado Oliveira	ETL para Ciência de Dados? Um Caso de Estudo.	English	Iscte	2021

47	Alexandre Sadik Vieira Juma	Impacto das restrições da pandemia COVID-19 na mobilidade urbana e qualidade do ar em Lisboa, Portugal.	English	Iscte	2021
48	Nicole Furtado Oliveira	ETL para Ciência de Dados? Um Caso de Estudo.	English	Iscte	2021
49	João Carlos Pereira Sousa Macedo Mesquitela	Uma abordagem orientada por dados sobre os acidentes rodoviários no município de Lisboa	English	Iscte	2021
50	Mário Lança Campos Salgado	Community Discovery in Mobile Games	English	Iscte	2020
51	Miguel de Guerra Narciso	Cryptocurrency Analysis based on User-Generated Social Media Content	English	Iscte	2020
52	Miguel José Candeias Bento	User behaviour identification based on location data	English	Iscte	2020
53	João Guilherme de Lourenço Vieira Duque	Malware Detection based on dynamic analysis features	English	Iscte	2020
54	António Francisco Serol Sequeira	Mobile App for Identification of Recycling Materials	English	Iscte	2020
55	João Pedro Lapa da Silva Lopes	Malware detection methods for Android malware applications	English	Iscte	2020
56	Miguel José Candeias Bento	Identificação de comportamentos de utilizadores utilizando dados de localização	English	Iscte	2020
57	João Guilherme de Lourenço Vieira Duque	Detecção de malware baseada em recursos de análise dinâmica	English	Iscte	2020
58	Mário Lança Campos Salgado	Descoberta de Comunidades em Jogos para Dispositivos Móveis	English	Iscte	2020
59	Mário Lança Campos Salgado	Descoberta de Comunidades em Jogos para Dispositivos Móveis	English	Iscte	2020
60	Miguel de Guerra Narciso	Análise de criptomoeda baseada em conteúdo gerado por utilizadores de redes sociais	English	Iscte	2020
61	Miguel José Candeias Bento	Identificação de comportamentos de utilizadores utilizando dados de localização	English	Iscte	2020
62	Maria Quintela Cruz	Indoor/outdoor image classification and its representative quality	Portuguese	Iscte	2019
63	João Filipe Ferreira Januário	Electricity price forecasting utilizing machine learning in MIBEL	English	Iscte	2019

64	João Filipe Ferreira Januário	Electricity price forecasting utilizing machine learning in MIBEL	English	Iscte	2019
65	Francisco Marques Gracias	Recognition of Customer- Product Interactions in Retail Environments	Portuguese	Iscte	2018
66	João Rodrigo Romão Marinho Pinto da Cruz	Deep Learning for Large-Scale Fine-Grained Recognition of Cars	English	Iscte	2018
67	Mário Rivotti Hauptfleisch	Automated Curriculum Screening	Portuguese	Iscte	2018
68	Pedro Sousa Romano	A cooperative active perception approach for Swarm Robotics.	English	Iscte	2018
69	João Rodrigo Romão Marinho Pinto da Cruz	Deep Learning for Large-Scale Fine-Grained Recognition of Cars	English	Iscte	2018
70	Mário Rivotti Hauptfleisch	Automated Curriculum Screening	English	Iscte	2018
71	Pedro Sousa Romano	A cooperative active perception approach for Swarm Robotics.	English	Iscte	2018
72	Mário Rivotti Hauptfleisch	Automated Curriculum Screening	English	Iscte	2018
73	João Rodrigo Romão Marinho Pinto da Cruz	Deep Learning for Large-Scale Fine-Grained Recognition of Cars	English	Iscte	2018
74	Diogo Franco	Sistema de Recomendação para Regras de Automação em IoT	English	Instituto Superior Técnico	2017
75	Marco Hélio Ramos Silva	Predicting Space Occupancy for Street Paid Parking	English	Iscte	2017
76	Marco Hélio Ramos Silva	Predicting Space Occupancy for Street Paid Parking	English	Iscte	2017
77	Marco Hélio Ramos Silva	Predicting Space Occupancy for Street Paid Parking	English	Iscte	2017
78	Pedro Ruben Januário Pêgo	Automatic Integration of IoT Devices	English	Iscte	2016
79	Rui Nuno Neves Madeira	A Machine Learning Approach for Indirect Human Presence Detection Using IoT Devices	English	Iscte	2016
80	Pedro Ruben Januário Pêgo	Automatic Integration of IoT Devices	English	Iscte	2016
81	Rui Nuno Neves Madeira	A Machine Learning Approach for Indirect Human Presence Detection Using IoT Devices	English	Iscte	2016
82	Pedro Ruben Januário Pêgo	Automatic Integration of IoT Devices	English	Iscte	2016

83	Rui Nuno Neves Madeira	A Machine Learning Approach for Indirect Human Presence Detection Using IoT Devices	English	Iscte	2016
84	Pedro Fonseca das Neves	Multifactor Authentication using Smartphone as Token.	English	Iscte	2015
85	Pedro Fonseca das Neves	Multifactor Authentication using Smartphone as Token.	English	Iscte	2015
86	Pedro Proença D'Almeida Bonifácio Costa	Profiling users' preferences with Text Mining	English	Iscte	2014
87	Tiago José Saloio Marques do Bem	--	--	Iscte	2011
88	David Jardim	Aprendizagem por Reforço Hierárquica	English	Iscte	2010
89	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 Sertã	--	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®	507
Scopus	788

Publications

• **Scientific Journals**

- **Scientific journal paper**

1	Juma, A., Elvas, L. B., Ferreira, J. C. & Nunes, L. (N/A). Mobility effect on city pollution: A case study. Journal of Ambient Intelligence and Smart Environments. N/A
2	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®: 25 - Times Cited Scopus: 27 - Times Cited Google Scholar: 61
3	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®: 4 - Times Cited Scopus: 5 - Times Cited Google Scholar: 7
4	Duque, J., Mendes, G., Nunes, L., de Almeida, A. & Serrão, C. (2022). Automated android malware detection using user feedback. Sensors. 22 (17) - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 3
5	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®: 31 - Times Cited Scopus: 35 - Times Cited Google Scholar: 52
6	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
7	Phillips; P., Antonio, N., de Almeida, A. & Nunes, L. (2020). The influence of geographic and psychic distance on online hotel ratings. Journal of Travel Research. 59 (4), 722-741 - Times Cited Web of Science®: 37 - Times Cited Scopus: 37 - Times Cited Google Scholar: 56
8	António, N., de Almeida, A. & Nunes, L. (2019). An automated machine learning based decision support system to predict hotel booking cancellations. Data Science Journal. 18 (1), 1-20 - Times Cited Web of Science®: 17 - Times Cited Scopus: 30 - Times Cited Google Scholar: 55
9	António, N., de Almeida, A. & Nunes, Luis (2019). Predictive models for hotel booking cancellation: a semi-automated analysis of the literature. Tourism and Management Studies. 15 (1), 7-21 - Times Cited Web of Science®: 12 - Times Cited Scopus: 13 - Times Cited Google Scholar: 25

10	<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: 122
11	<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: 79 - Times Cited Google Scholar: 121
12	<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: 35 - Times Cited Google Scholar: 67
13	<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®: 33 - Times Cited Scopus: 37 - Times Cited Google Scholar: 74
14	<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
15	<p>Nunes, Luis & Oliveira, E. (2008). Communication during learning in heterogeneous teams of learning agents. <i>Intelligent Decision Technologies</i>. 2 (3), 153-166</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 7 - Times Cited Scopus: 4 - Times Cited Google Scholar: 5
16	<p>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</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 10 - Times Cited Scopus: 9 - Times Cited Google Scholar: 20
17	<p>Nunes, Luis & Oliveira, E. (2003). Cooperative learning using advice exchange. <i>Lecture Notes in Computer Science</i>. 2636, 33-48</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 12 - Times Cited Google Scholar: 43
18	<p>Nunes, L. & Oliveira, E. (2003). On learning by exchanging advice. <i>The Interdisciplinary Journal of Artificial Intelligence and the Simulation of Behaviour</i>. 1 (3), 241-257</p> <ul style="list-style-type: none"> - Times Cited Google Scholar: 37
19	<p>Nunes, Luis & Oliveira, E. (2003). Exchanging advice and learning to trust. <i>Lecture Notes in Computer Science</i>. 2782, 250-265</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 4 - Times Cited Scopus: 4 - Times Cited Google Scholar: 13

• Books and Book Chapters

- Book chapter

1	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.
2	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.
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.), Emerging trends in cybersecurity applications. (pp. 251-274).: Springer. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
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: 11
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: 26
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: 25

• 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. - Times Cited Google Scholar: 2
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.
4	Correia, S., Mendes, D., Jorge, P., Brandão, T., Arriaga, P. & Nunes, L. (2023). Occlusion-aware pedestrian detection and tracking. In 2023 30th International Conference on Systems, Signals and Image Processing (IWSSIP). Ohrid, North Macedonia: IEEE. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
5	Caldeira, F., Nunes, L. & Ribeiro, R. (2022). Classification of public administration complaints. In Cordeiro, J., Pereira, M. J., Rodrigues, N. F., and Pais, S. (Ed.), OpenAccess Series in Informatics. Covilhã: Schloss Dagstuhl-Leibniz-Zentrum fur Informatik GmbH, Dagstuhl Publishing. - Times Cited Scopus: 1 - Times Cited Google Scholar: 5
6	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: 9
7	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: 26
8	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
9	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®: 31 - Times Cited Scopus: 34 - Times Cited Google Scholar: 66
10	Ventura, J. V., Paio, A., Beirão, J. N., Nunes, L. & Pezzica, C. (2017). Multidimensional study of urban squares through perimetral analysis: three Portuguese case studies. In Teresa Heitor, Miguel Serra, João Pinelo Silva, Maria Bacharel e Luísa Cannas da Silva (Ed.), 11th International Space Syntax Symposium, SSS 2017. (pp. 85.1-85.20). Lisboa: Instituto Superior Tecnico, Departamento de Engenharia Civil, Arquitetura e Georrecursos. - Times Cited Scopus: 1 - Times Cited Google Scholar: 6
11	Pêgo, P. & Nunes, L. (2017). Automatic discovery and classifications of IoT devices. In 12th Iberian Conference on Information Systems and Technologies, CISTI 2017. Lisboa: IEEE. - Times Cited Scopus: 10 - Times Cited Google Scholar: 16

12	<p>Neves, P., Nunes, L. & Lourenço, A. (2016). Multi-factor authentication for improved efficiency in ECG: Based login. In Fairclough, S., Holzinger, A., Otero, A., Pope, A., and Silva, H. P. da. (Ed.), <i>PhyCS 2016 - Proceedings of the 3rd International Conference on Physiological Computing Systems</i>. (pp. 67-74). Lisboa: SciTePress.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 1</p>
13	<p>Madeira, R. & Nunes, Luis (2016). A machine learning approach for indirect human presence detection using IOT devices. In Robles, R., Pichappan, P., Pichappan, P., and Tallon-Ballesteros, A. J. (Ed.), <i>2016 Eleventh International Conference on Digital Information Management (ICDIM)</i>. (pp. 145-150). Porto: IEEE.</p> <p>- Times Cited Web of Science®: 12 - Times Cited Scopus: 14 - Times Cited Google Scholar: 26</p>
14	<p>Jardim, D., Nunes, L. & Dias, M. (2016). Impact of automated action labeling in classification of human actions in RGB-D videos. In Van Harmelen, F., Dignum, V., Dignum, F., Bouquet, P., Fox, M., Kaminka, G. A., and Hüllermeier, E. (Ed.), <i>ECAI 2016: 22nd European Conference on Artificial Intelligence</i>. (pp. 1632-1633). The Hage: IOS Press .</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
15	<p>Jardim, D., Nunes, L. & Dias, M. (2016). Human activity recognition from automatically labeled data in RGB-D videos. In <i>2016 8th Computer Science and Electronic Engineering (CEEC)</i>. (pp. 89-94). Colchester, UK: IEEE.</p> <p>- Times Cited Web of Science®: 8 - Times Cited Scopus: 6 - Times Cited Google Scholar: 9</p>
16	<p>Jardim, D., Nunes, L. & Dias, M. (2016). Predicting human activities in sequences of actions in RGB-D videos. In Verikas, A., Radeva, P., Nikolaev, D. P., Zhang, W. and Zhou, J. (Ed.), <i>Proceedings of SPIE, Ninth International Conference on Machine Vision (ICMV 2016)</i>. Nice, France: SPIE.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
17	<p>Jardim, D., Nunes, L. & Dias, M. S. (2016). Automatic human activity segmentation and labeling in RGBD videos. In <i>8th KES International Conference on Intelligent Decision Technologies, KES-IDT 2016</i>. (pp. 383-394). Czarnowski I., Caballero A., Howlett R., Jain L.: Springer.</p> <p>- Times Cited Web of Science®: 3 - Times Cited Scopus: 4 - Times Cited Google Scholar: 8</p>
18	<p>Christensen, A. L., Duarte, M., Postolache, O., Sargento, S., Oliveira, M.J., Santana, P...Silva, F. (2015). Design of communication and control for swarms of aquatic surface drones. In Stephane Loiseau, Joaquim Filipe (Ed.), <i>Proceedings of the International Conference on Agents and Artificial Intelligence (ICAART-2015)</i>. Lisboa: SCITEPRESS.</p> <p>- Times Cited Scopus: 30 - Times Cited Google Scholar: 49</p>
19	<p>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.), <i>Proceedings of the ROBOT'2015: Second Iberian Robotics</i>. Lisboa: Springer.</p> <p>- Times Cited Google Scholar: 2</p>

20	<p>Lopes, J, Paio, A., Beirão, J. N., Pinho, E. M. & Nunes, Luis (2015). Multidimensional analysis of public open spaces: Urban morphology, parametric modelling and data mining. In Martens, B, Wurzer, G, Grasl T, Lorenz, WE and Schaffranek, R (Ed.), Real Time - Proceedings of the 33rd eCAADe Conference. (pp. 351-360). Viena: CUMINCAD.</p> <p>- Times Cited Scopus: 6 - Times Cited Google Scholar: 14</p>
21	<p>Jardim, D., Nunes, L. & Dias, J. (2015). Human activity recognition and prediction. In Maria De Marsico, Mário Figueiredo, Ana Fred (Ed.), ICPRAM 2015: Proceedings of the International Conference on Pattern Recognition Applications and Methods. (pp. 24-32). Lisboa: SCITEPRESS.</p> <p>- Times Cited Google Scholar: 3</p>
22	<p>Costa, P. B., Oliveira, S. & Nunes, L. (2013). Profiling web users preferences with text mining: Plan2See - Dynamic formulation of conceptual groups. In 2013 8th Iberian Conference on Information Systems and Technologies (CISTI) . Lisboa: IEEE.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 2</p>
23	<p>Medeiros, H., Batista, F., Moniz, H., Trancoso, I. & Nunes, L. (2013). Comparing different machine learning approaches for disfluency structure detection in a corpus of university lectures. In Leal, J. P., Rocha, R., and Simões, A. (Ed.), 2nd Symposium on Languages, Applications and Technologies, SLATE 2013. (pp. 259-269). Porto: OASlcs.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 5</p>
24	<p>Medeiros, H., Moniz, H., Batista, F., Trancoso, I. & Nunes, L. (2013). Disfluency detection based on prosodic features for university lectures. In Bimbot, F., Cerisara, C., Fougeron, C., Gravier, G., Lamel, L., Pellegrino, F., and Perrier, P. (Ed.), Proceedings of the 14th Annual Conference of the International Speech Communication Association (INTERSPEECH 2013) . (pp. 2629-2633). Lyon: International Speech Communication Association.</p> <p>- Times Cited Web of Science®: 8 - Times Cited Scopus: 17 - Times Cited Google Scholar: 24</p>
25	<p>Gil, P. & Nunes, L. (2013). Hierarchical reinforcement learning using path clustering. In 2013 8th Iberian Conference on Information Systems and Technologies (CISTI). Lisboa: IEEE.</p> <p>- Times Cited Web of Science®: 3 - Times Cited Scopus: 7 - Times Cited Google Scholar: 12</p>
26	<p>Oliveira, S., Nunes, L. & Christensen, A. L. (2011). An experiment in mixing evolving and preprogrammed robots. In Lenaerts, T., Giacobini, M., Bersini, H., Bourguine, P., Dorigo, M., and Doursat, T. (Ed.), Advances in Artificial Life: 20th Anniversary Edition - Back to the Origins of Alife, ECAL 2011. (pp. 605-612). Paris: MIT Press.</p>
27	<p>Jardim, D., Nunes, Luis & 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.</p> <p>- Times Cited Scopus: 5 - Times Cited Google Scholar: 11</p>
28	<p>Oliveira, D. de., Bazzan, A. L. C., Silva, B. C. da., Basso, E. W., Nunes, L., Rossetti, R....Lamb, L. (2006). Reinforcement learning-based control of traffic lights in non-stationary environments: A case study in a microscopic simulator. In Dunin-Kpłicz, B., Omicini, A., and Padget, J. (Ed.), CEUR Workshop Proceedings. European Workshop on Multi-Agent Systems 2006. Lisboa: CEUR-WS.</p> <p>- Times Cited Scopus: 19 - Times Cited Google Scholar: 101</p>

29	Nunes, L. & Oliveira, E. (2004). Learning from multiple sources. In AAMAS '04: Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems. (pp. 1106-1103). New York: IEEE. - Times Cited Scopus: 29 - Times Cited Google Scholar: 54
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: 83
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: 279

- Talk

1	de Almeida, A., Nunes, Luis & Moreira, A. (2025). Imbalanced Learning Study on Atrial Flutter using Active Learning. RECPAD 2025 - 31st Portuguese Conference on Pattern Recognition.
2	Nunes, Luis (2024). Use of Programming Aids in Undergraduate Courses. International Computer Programming Education Conference.
3	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
4	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
5	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
6	Nunes, Luis, Luís Borges de Almeida & Thibault Langlois (1996). Interpolation networks. 1996 IEEE International Conference on Neural Networks (ICNN 96). 1750-1754

- 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: 6
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	Moreira, A., de Almeida, A. & Nunes, Luis (2026). Atrial Flutter Classification with Active Learning in Imbalanced Learning Context. RECPAD 2026.
2	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.
3	Botelho, L., Nunes, Luis, Ribeiro, R. & Lopes, Rui J. (2022). Learning Rhetoric Structure Theory-based descriptions of observed behaviour. arxiv.
4	Vicente, Jorge & Nunes, Luis (2010). Automatic Learning of Typical Paths in Video Surveillance. XVII Jornadas de Classificação e Análise de Dados, JOCLAD 2010.
5	Nunes, Luis & Oliveira, E. (2004). Learning from multiple sources. Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS 2004.
6	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 (RAISE), Aptoide - Leader (Portugal)	2015 - 2018
Multipass	Local Coordinator	IT-Iscte	2013 - 2014

Academic Management Positions

Coordenador do 2º Ano (2026 - 2029)
Unit/Area: Master Degree in Artificial Intelligence

Coordenador do 1º Ano (2026 - 2029) Unit/Area: Master Degree in Artificial Intelligence
Director (2026 - 2029) Unit/Area: Master Degree in Artificial Intelligence
Coordenador do 2º Ano (2025 - 2026) 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 (2017 - 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
Coordination of non-scientific event	Workshop – Interdisciplinary cooperation for challenges with public administration data: dissertation and project proposals	IA>>AP	2025
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
Talk/Conference in public diffusion event	AI Summit AP		2026
Talk/Conference in public diffusion event	Presentation - "Melhores práticas de aplicação da Inteligência Artificial na Administração Pública"		2025
Talk/Conference in public diffusion event	3.º Encontro do Laboratório de Dados Urbanos de Lisboa		2025
Coordination of knowledge diffusion event	E-REDES Open Data Academy Challenge Prize		2025
Talk/Conference in public diffusion event	Presentation and Discussion Panel - "Revolucionar a segurança e a saúde no trabalho: o papel da IA e da digitalização"		2025
Coordination of knowledge diffusion event	Workshop "AI in Public Administration"		2025
Talk/Conference in public diffusion event	Presentation for project "Models and Instruments for Transforming Higher Education Systems through Transnational Multi-Sector Links"		2025
Coordination of knowledge diffusion event	First IA>>AP Workshop		2025
Publication in general diffusion news outlet	EntreCampus	Artificial Intelligence for Public Administration	2024
Talk/Conference in public diffusion event	AI challenge in Public Sector Auditing		2023

Talk/Conference in public diffusion event	Discussion Panel "Inteligência Artificial na Administração Pública: casos práticos do Centro de Competências IA & AP do Iscte"		2022
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
Coordination of knowledge diffusion event	Discussion Panel "O papel da IA na Transformação Digital da AP"		2022