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Luís B. Elvas

Professor Auxiliar

ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre
Department of Social and Enterprise Sciences (ETDA)



Contacts

E-mail	Luis.Elvas@iscte-iul.pt
Office	D0.10

Curriculum

Luís Manuel Nobre de Brito Elvas, with a degree in Computer Engineering and a Master's degree in Integrated Decision Support Systems, is a researcher at the Technologies and Architecture Research Center (ISTAR) and at the Association for Research and Development of the Faculty of Medicine of the University of Lisbon (AIDFM). In the context of health informatics, he has worked on data mining techniques, computer vision and artificial intelligence, to extract data patterns, perform image classification and text reports, respectively. In 2022 his work was distinguished by the Portuguese Order of Engineers.

He is also Chair of IEEE Computational Intelligence Society Student Branch Chapter at iscte.

Research Interests

Smart Cities
Intelligent Health and Wellness
Data Science
Data Mining
Decision Support Systems

Text Mining
Sentiment Analysis
Big Data
Internet of Things
Artificial Intelligence
Machine Learning
Intelligent Transportation Systems

Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE-Instituto Universitario de Lisboa	PhD	Ciências e Tecnologias da Informação	2025
ISCTE-Instituto Universitario de Lisboa	M.Sc.	Sistemas Integrados de Apoio à Decisão	2021
Coursera	Technical Specialization Course	Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning	2021
ISCTE-Instituto Universitário de Lisboa Escola de Tecnologias e Arquitectura	Other type of qualification	Winter School 2020 - IOT AND BLOCKCHAIN FOR SMART CITIES	2020
ISCTE-Instituto Universitário de Lisboa Escola de Tecnologias e Arquitectura	Other type of qualification	Winter School 2020 - IOT AND BLOCKCHAIN FOR SMART CITIES	2020
Instituto Politecnico de Castelo Branco	Licenciate	Engenharia Informática	2019
ISCTE-Instituto Universitário de Lisboa Centro de Investigação em Ciências da Informação Tecnologias e Arquitetura	Other type of qualification	IOT FOR SMART CITIES	2019
ISCTE-Instituto Universitário de Lisboa Centro de Investigação em Ciências da Informação Tecnologias e Arquitetura	Other type of qualification	IOT FOR SMART CITIES	2019
PALO ALTO NETWORKS	Other type of qualification	Palo Alto Networks Cybersecurity Infrastructure Configuration Assessment	2019
PALO ALTO NETWORKS	Other type of qualification	Palo Alto Networks Cybersecurity Infrastructure Configuration Assessment	2019
CISCO NETWORKING ACADEMY	Technical Specialization Course	CCNA Routing and Switching: Introduction to Networks	2017

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord .
2025/2026	2º	Health Information Systems		Yes
2025/2026	2º	Artificial Intelligence in Health	Bachelor Degree in Digital Technologies and Health;	Yes
2025/2026	2º	Applied Project in Digital Technologies and Health II	Bachelor Degree in Digital Technologies and Health;	Yes
2025/2026	2º	Deep Learning and Computer Vision in Health	Master Degree in Managing Digital Transformation in the Health Sector;	Yes
2025/2026	2º	Medical Text Processing		Yes
2025/2026	2º	Transformação Digital Na Cadeia De Abastecimento E Indústria 4.0	Other programme in Applied Online Post Graduate Logistics and Supply Chain Management;	Yes
2025/2026	2º	Inteligência Artificial na Cadeia de Abastecimento	Other programme in Applied Online Post Graduate Logistics and Supply Chain Management;	Yes
2025/2026	1º	Data Science in Health	Bachelor Degree in Digital Technologies and Health;	Yes
2025/2026	1º	Disruptive Technologies	Master Degree in Digital Technologies for Business;	No
2025/2026	1º	Applied Project in Digital Technologies and Health I	Bachelor Degree in Digital Technologies and Health;	Yes
2025/2026	1º	Notions of Human Health		Yes
2025/2026	1º	Health Data and Information Systems	Master Degree in Managing Digital Transformation in the Health Sector;	Yes
2025/2026	1º	Deep Learning for Computer Vision	Post Graduation Program in Applied Machine Learning;	No
2025/2026	1º	Artificial Intelligence	Other programme in Online Applied Quality Management Program;	Yes
2025/2026	1º	Inteligência Artificial na Cadeia de Abastecimento	Other programme in Applied Online Post Graduate Logistics and Supply Chain Management;	Yes
2025/2026	1º	Analytics and Data; Ai and Computer Vision	Other programme in Advanced Programa in Digital Health;	Yes
2024/2025	2º	Artificial Intelligence Applied to Education	Bachelor Degree in Digital Educational Technologies;	Yes
2024/2025	2º	Data Science in Health	Bachelor Degree in Digital Technologies and Health;	Yes
2024/2025	2º	Work Project in Digital Technologies for Business	Master Degree in Digital Technologies for Business;	No

2024/2025	2°	Deep Learning and Computer Vision in Health	Master Degree in Managing Digital Transformation in the Health Sector;	Yes
2024/2025	2°	Inteligência Artificial na Cadeia de Abastecimento	Other programme in Applied Online Post Graduate Logistics and Supply Chain Management;	Yes
2024/2025	2°	Analytics and Data; Ai and Computer Vision	Other programme in Advanced Programa in Digital Health;	Yes
2024/2025	1°	Business Inteligence Applications		No
2024/2025	1°	Disruptive Technologies	Master Degree in Digital Technologies for Business;	No
2024/2025	1°	Artificial Intelligence in Health	Bachelor Degree in Digital Technologies and Health;	Yes
2024/2025	1°	Applied Project in Digital Technologies and Health I	Bachelor Degree in Digital Technologies and Health;	No
2024/2025	1°	Artificial Intelligence in the Teaching-Learning Process	Post Graduation Program in Digital Transformation in Teaching and Learning;	No
2024/2025	1°	Health Data and Information Systems	Master Degree in Managing Digital Transformation in the Health Sector;	No
2024/2025	1°	Inteligência Artificial na Cadeia de Abastecimento	Other programme in Applied Online Post Graduate Logistics and Supply Chain Management;	Yes
2023/2024	2°	Patterns and Knowledge Extraction Guided by Data	Master Degree in Integrated Business Intelligence Systems;	No
2023/2024	2°	Data Science in Health	Bachelor Degree in Digital Technologies and Health;	No
2023/2024	2°	Inteligência Artificial na Cadeia de Abastecimento	Other programme in Applied Online Post Graduate Logistics and Supply Chain Management;	Yes
2023/2024	2°	Analytics and Data; Ai and Computer Vision	Other programme in Advanced Programa in Digital Health;	Yes
2023/2024	1°	Data-Driven Decision Making	Master Degree in Integrated Business Intelligence Systems;	No
2023/2024	1°	Business Inteligence Applications		No
2023/2024	1°	Disruptive Technologies		No
2022/2023	2°	Patterns and Knowledge Extraction Guided by Data	Master Degree in Integrated Business Intelligence Systems;	No
2022/2023	1°	Data-Driven Decision Making	Master Degree in Integrated Business Intelligence Systems;	No
2022/2023	1°	Business Inteligence Applications		No

2022/2023	1°	Analytics and Data; Ai and Computer Vision	Other programme in Advanced Programa in Digital Health;	Yes
2021/2022	2°	Patterns and Knowledge Extraction Guided by Data	Master Degree in Integrated Business Intelligence Systems;	No
2021/2022	2°	Data-Driven Decision Making		No
2021/2022	1°	Data-Driven Decision Making	Master Degree in Integrated Business Intelligence Systems;	No
2020/2021	2°	Analytics and Data; Ai and Computer Vision	Other programme in Advanced Programa in Digital Health;	No

Supervisions

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Maria Manuela Santos Mendes Cordeiro	Enhancing Agricultural Product Digital Identity with Blockchain and SSI	English	Developing	Iscte
2	Simon Luca Lewerenz	Transforming European Digital Health: An Orchestration Approach to Effective Governance of the European Health Data Space (EHDS)	English	Developing	Iscte

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Ana Francisca Carvalho de Menezes Duro	Deep learning and transformer architectures in the quantification of aortic valve calcification in 3D TEE.	--	Developing	Iscte
2	Theodora Chatzopoulou	Retrieval-Augmented Generation for Structured Clinical Data Extraction	--	Developing	Iscte
3	Joana Silvério das Neves	Abordagens Guiadas por Dados para a Otimização da Gestão Terapêutica e Redução do Desperdício Farmacêutico	--	Developing	Iscte
4	Ana Sofia Semião de Mendonça Trabulo	Detection and Classification of Technical Construction Defects in Buildings using Vision-Language Models	--	Developing	Iscte

5	Patrícia Fialho Inácio	Impact of automated vs manual data integration on compliance rate of COPD patients under RPM program: a retrospective study	--	Developing	Iscte
6	Madalena Sarreira Horta Monteiro	Optimizing surgical scheduling using machine learning models: a data-driven approach to operating room management	--	Developing	Iscte
7	Ilias Georgousis	From User Manual to AI: A Practical Framework for Developing AI-Driven Systems in Healthcare Workflows	--	Developing	Iscte
8	Bianca Bernardes Silvestre	Promoting Interoperability and Digital Transformation in Healthcare with a FHIR Implementation Guide Similarity Ranking Tool	--	Developing	Iscte
9	Diogo Sá Oliveira Pereira Dias	AI-Generated Minutes: Automating Condominium Meetings with the use of AI	--	Developing	Iscte
10	Hugo Nunes Cristino	Monitoring of patient journeys (Specific pathologies)	--	Developing	Iscte
11	André Figueiredo Oliveira	How do events impact tourism in Lisbon?	--	Developing	Iscte
12	Angelino Chingunguna Culila	Data-Driven Decision Support for Smart Cities: A Case Study with Lisbon Municipality	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Sara Emídio Nunes	Predictive decision support system based on telehealth data	Portuguese	Iscte	2025
2	Madalena do Rosário Ferreira	Artificial Intelligence Applied to Smart Cities: Urban Mobility in Lisbon	Portuguese	Iscte	2025
3	Matilde dos Prazeres Cabaço de Carvalho Ferreira	AI-Based Tool for Automatic Hierarchical BIM Objects Classification	English	Iscte	2025
4	Mariana Soares Romeu Borralho	A Data-Driven Approach to Nighttime Urban Mobility	English	Iscte	2025
5	Afonso Duvergé dos Santos Carreteiro	Artificial Intelligence applied to real-time translation in the context of user consultation/assistance	English	Iscte	2025

6	Gabriela Marisa Veloso Canário Batista Figueiredo	Integrating AI into Critical Care Medicine: Exploratory and Predictive Analysis of Tachycardia in Pneumonia and ARDS	English	Iscte	2025
7	Mariana Ferreira Borges Fernandes	Intelligent Systems for Traffic Management in Lisbon: An Integrated Analysis of Climate Impact and Mobility	Portuguese	Iscte	2025
8	André Rodrigues dos Santos	Machine Learning for Temperature Forecasting and Pest and Disease Prediction in Tomato Crops	English	Iscte	2024
9	Rafaela Carromeu Santos	Transforming Healthcare Imaging: Advanced Analysis of Medical Exam Reports	English	Iscte	2024
10	José Miguel Nunes Fernandes	Covid-19 Classification From Magnetic Resonance Imaging Analysis	English	Iscte	2024
11	Rita Seixas Bairros	Deep Learning-Based Calcium Scoring of the Aortic Valve Using 3D TEE: Preliminary Study	English	Iscte	2024
12	Sara Raquel de Sá Gomes	Automatic Calcium Detection in Echocardiography based on Deep Learning	English	Iscte	2023
13	Pedro Miguel Ferreira Viegas Águas	Classification of Aortic Stenosis based on AI in MRI Scans	English	Iscte	2023
14	Ana Beatriz da Cruz Baptista Galamba Vieira	mHealth Application Based on Artificial Intelligence for Decision Support System	English	Iscte	2023
15	André Filipe Inácio Ramos Bergano	Secure Health Data Mining in the Cloud: A Homomorphic Computing Approach for Privacy-Preserving Predictive Analytics	Portuguese	Iscte	2023

• M.Sc. Final Projects

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Lúcia Cristina Gomes de Almeida Correia Sêncio	Design of a Gamified LIFOW AI Agent for Power Skills Development in Corporate Leadership	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Ednilson Fonseca Queni	Transformation of handwritten records to digital format using OCR (Optical Character Recognition)	Portuguese	Iscte	2025

2	Luiz Gustavo Simoes Batista	The Use of AI in Optimizing Human Resources Allocations for Telecom Projects	English	Iscte	2025
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Total Citations

Web of Science®	355
Scopus	443

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	Elvas, L. B., Gomes, S., Ferreira, J. C., Rosário, L. B. & Brandão, T. (2024). Deep learning for automatic calcium detection in echocardiography. BioData Mining. 17 (1) - Times Cited Web of Science®: 3 - Times Cited Scopus: 3 - Times Cited Google Scholar: 5
3	Elvas, L. B., Ferreira, J., Dias, J. & Rosário, L. B. (2023). Health data sharing towards knowledge creation. Systems. 11 (8) - Times Cited Web of Science®: 12 - Times Cited Scopus: 14 - Times Cited Google Scholar: 19
4	Elvas, L. B., Águas, P., Ferreira, J., Oliveira, J., Dias, J. & Rosário, L. B. (2023). AI-based aortic stenosis classification in MRI scans. Electronics. 12 (23) - Times Cited Web of Science®: 4 - Times Cited Scopus: 5 - Times Cited Google Scholar: 6
5	Elvas, L. B., Nunes, M., Ferreira, J. C., Dias, M. S. & Rosário, L. B. (2023). AI-driven decision support for early detection of cardiac events: Unveiling patterns and predicting myocardial ischemia. Journal of Personalized Medicine. 13 (9) - Times Cited Web of Science®: 19 - Times Cited Scopus: 23 - Times Cited Google Scholar: 34
6	Elvas, L. B., Serrão, C. & Ferreira, J. (2023). Sharing health information using a blockchain. Healthcare. 11 (2) - Times Cited Web of Science®: 29 - Times Cited Scopus: 37 - Times Cited Google Scholar: 52
7	Elvas, L. B., Gonçalves, S. P., Ferreira, J. C. & Madureira, A. (2022). Data fusion and visualization towards city disaster management: Lisbon case study. EAI Endorsed Transactions on Smart Cities. 6 (18) - Times Cited Web of Science®: 2 - Times Cited Google Scholar: 5

8	<p>Mesquitela, J., Elvas, L. B., Ferreira, J. & Nunes, L. (2022). Data analytics process over road accidents data—A case study of Lisbon city. <i>ISPRS International Journal of Geo-Information</i>. 11 (2)</p> <p>- Times Cited Web of Science®: 31</p> <p>- Times Cited Scopus: 35</p> <p>- Times Cited Google Scholar: 51</p>
9	<p>Peyroteo, M., Ferreira, I. A., Elvas, L. B., Ferreira, J. & Lapão, L. V. (2021). Remote monitoring systems for patients with chronic diseases in primary health care: systematic review. <i>JMIR mhealth and uhealth</i>. 9 (12), e28285</p> <p>- Times Cited Web of Science®: 101</p> <p>- Times Cited Scopus: 132</p> <p>- Times Cited Google Scholar: 216</p>
10	<p>Elvas, L. B. & Ferreira, J. C. (2021). Intelligent transportation systems for electric vehicles. <i>Energies</i>. 14 (17)</p> <p>- Times Cited Web of Science®: 14</p> <p>- Times Cited Scopus: 20</p> <p>- Times Cited Google Scholar: 33</p>
11	<p>Elvas, L. B., Almeida, A. G., Rosário, L., Dias, J. & Ferreira, J. (2021). Calcium identification and scoring based on echocardiography. An exploratory study on aortic valve stenosis. <i>Journal of Personalized Medicine</i>. 11 (7)</p> <p>- Times Cited Web of Science®: 10</p> <p>- Times Cited Scopus: 8</p> <p>- Times Cited Google Scholar: 14</p>
12	<p>Elvas, L. B., Mataloto, B., Martins, A. & Ferreira, J. (2021). Disaster management in smart cities. <i>Smart Cities</i>. 4 (2), 819-839</p> <p>- Times Cited Web of Science®: 49</p> <p>- Times Cited Scopus: 65</p> <p>- Times Cited Google Scholar: 100</p>
13	<p>Elvas, L. B., Marreiros, C. F., Dinis, J. M. , Pereira, M. C. , Martins, A. L. & Ferreira, J. C. (2020). Data-driven approach for incident management in a smart city. <i>Applied Sciences</i>. 10 (22)</p> <p>- Times Cited Web of Science®: 7</p> <p>- Times Cited Scopus: 10</p> <p>- Times Cited Google Scholar: 21</p>

• Books and Book Chapters

- Book chapter

1	<p>Sudip Phuyal, Elvas, L. B., Ferreira, J. & Rabindra Bista (2025). Wearable Devices for Long-Term Care – Survey and Opportunities. In</p>
2	<p>Sudip Phuyal, Elvas, L. B., Ferreira, J. & Rabindra Bista (2025). Blockchain Technology in Healthcare: Unifying Patient Medical Records - A Survey. In</p> <p>- Times Cited Scopus: 3</p> <p>- Times Cited Google Scholar: 5</p>
3	<p>Elvas, L. B., Ferreira, J. & Helgheim, B. (2025). Hospital Remote Care Assistance AI to Reduce Workload. In</p> <p>- Times Cited Scopus: 1</p> <p>- Times Cited Google Scholar: 4</p>
4	<p>Elvas, L. B., Nunes, M., Francisco, Bruno Alexandre & Nuno Domingues (2023). City Mobility and Night Life Monitor. In <i>Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering</i>. (pp. 126-150).: Springer Nature Switzerland.</p> <p>- Times Cited Scopus: 2</p>

5	Elvas, L. B., Nunes, M., José Augusto Afonso, Helgheim, B. & Francisco, Bruno Alexandre (2023). Mining Tourists' Movement Patterns in a City. In Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering. (pp. 105-125).: Springer Nature Switzerland.
6	Ferreira, J. & Elvas, L. B. (2023). INTELIGÊNCIA ARTIFICIAL PARA A ADMINISTRAÇÃO PÚBLICA COMO EXPERIÊNCIA PEDAGÓGICA. In TEACHING WITH AN EXTERNAL EXPERT IN AN ACADEMIC ENVIRONMENT IN A MULTIDISCIPLINARY APPROACH. Lisboa: Iscte - Instituto Universitário de Lisboa.
7	Elvas, L. B., Filipe Martins, Maria Brites, Ana Matias, Hugo Plácido Silva, Gonçalves, N....Luís Brás Rosário (2023). Wearable Temperature Sensor and Artificial Intelligence to Reduce Hospital Workload. In Innovations in Bio-Inspired Computing and Applications. (pp. 796-805).
8	Elvas, L. B. & Ferreira, J. (2023). Aplicações da IA na saúde. In Francisco Camacho (Ed.), 88 vezes pela inteligência artificial: O que fica para a máquina e o que fica para o homem?. (pp. 400-419). Lisboa: Oficina do Livro. - Times Cited Google Scholar: 1

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Ferreira, J., Elvas, L. B., Martins, A. & Domingues, N. (2024). Blockchain, IoT, and smart grids challenges for energy systems. In Smart trends in computing and communications: Proceedings of SmartCom 2024. (pp. 65-80). Pune: Springer. - Times Cited Web of Science®: 4 - Times Cited Scopus: 3 - Times Cited Google Scholar: 6
2	Elvas, L. B., Nunes, M., Francisco, B., Gonçalves, F., Martins, A. & Ferreira, J. (2023). Points of interest in smart cities and visitor behavior. In Ana Lucia Martins, Joao C. Ferreira, Alexander Kocian, Ulpan Tokkozhina, Berit Irene Helgheim, Svein Bråthen (Ed.), Intelligent Transport Systems: 7th EAI International Conference, INTSYS 2023, Proceedings. (pp. 69-91). Molde: Springer Nature. - Times Cited Google Scholar: 4
3	Elvas, L. B., Tokkozhina, U., Martins, A. & Ferreira, J. (2023). Implementation of disruptive technologies for the last mile delivery efficiency achievement. In Luís de Picado Santos, Jorge Pinho de Sousa, Elisabete Arsenio (Ed.), 2022 Conference Proceedings Transport Research Arena, TRA Lisbon 2022. (pp. 32-39).: Elsevier. - Times Cited Web of Science®: 2 - Times Cited Scopus: 6 - Times Cited Google Scholar: 9
4	Gomes, S., Elvas, L. B., Ferreira, J. & Brandão, T. (2023). Automatic calcium detection in echocardiography based on deep learning: A systematic review. In Ajith Abraham, Anu Bajaj, Niketa Gandhi, Ana Maria Madureira, Cengiz Kahraman (Ed.), Innovations in bio-inspired computing and applications: Proceedings of the 13th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2022). (pp. 754-764).: Springer. - Times Cited Google Scholar: 1
5	Oliveira, B., Mira, M., Monteiro, S., Elvas, L. B., Rosário, L. & Ferreira, J. (2023). Implementing a data integration infrastructure for healthcare data: A case Study. In Ajith Abraham, Anu Bajaj, Niketa Gandhi, Ana Maria Madureira, Cengiz Kahraman (Ed.), Innovations in bio-inspired computing and applications: Proceedings of the 13th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2022). (pp. 744-753).: Springer. - Times Cited Scopus: 1

6	Vieira, A., Elvas, L. B., Ferreira, J., Cascalho, M., Raposo, A., Dias, J....Silva, H. (2023). AI-based mHealth App for Covid-19 or cardiac diseases diagnosis and prognosis. In Ajith Abraham, Anu Bajaj, Niketa Gandhi, Ana Maria Madureira, Cengiz Kahraman (Ed.), Proceedings of the 13th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2022). (pp. 765-777): Springer, Cham. - Times Cited Google Scholar: 1
7	Elvas, L. B., Mataloto, B. & Ferreira, J. (2023). The impact of the pandemic due to covid-19 on mobility and environment. In Nuno A S Domingues, Cecília R C Calado, Nuno C Leitão (Ed.), Proceedings of the 1st International Conference on Challenges in Engineering, Medical, Economics & Education: Research & Solutions (CEMEERS-23). (pp. 115-122). Lisboa: EIRAI.
8	Elvas, L., Calé, D., Ferreira, J. C. & Madureira, A. (2021). Remote Monitor System for Alzheimer disease. In Abraham, A., Madureira, A. M., Kaklauskas, A., Gandhi N., Bajaj, A., Muda, A. K., Kriksciuniene, D., and Ferreira, J. C. (Ed.), Innovations in Bio-Inspired Computing and Applications. Lecture Notes in Networks and Systems. (pp. 251-260). Virtual, Online: Springer Cham. - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 3

- Talk

1	Elvas, L. B., Mataloto, B. & Ferreira, J. (2023). The Impact of the pandemic due to COVID-19 on mobility and environment. International Conference Proceedings 1st International Conference on Challenges in Engineering, Medical, Economics & Education: Research & Solutions (CEMEERS-23).
2	Elvas, L. B. & Ferreira, J. (2022). Wearable Temperature Sensor and Artificial Intelligence to Reduce Hospital Workload. 12th World Congress on Information and Communication Technologies (WICT'22) .

• Other Publications

- Non-peer-reviewed papers

1	Ferreira, J., Elvas, L. B., Correia, R. & Miguel Mascarenhas (2025). Empowering Health Professionals with Digital Skills to Improve Patient Care and Daily Workflows. Healthcare. - Times Cited Web of Science®: 13 - Times Cited Scopus: 11 - Times Cited Google Scholar: 39
2	Stephanie Monteiro, Oliveira, B., Elvas, L. B. & Ferreira, J. (2025). Improving Healthcare Data Quality: A Case Study in a Portuguese Hospital. Procedia Computer Science.
3	Elvas, L. B., Rafaela Santos & Ferreira, J. (2025). Fine-tuning of language models for automated structuring of medical exam reports to improve patient screening and analysis. Scientific Reports. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
4	Elvas, L. B., Almeida & Ferreira, J. (2025). Natural language processing in medical text processing: A scoping literature review. International Journal of Medical Informatics. - Times Cited Scopus: 2 - Times Cited Google Scholar: 7
5	Ferreira, J., Elvas, L. B., Correia, R. & Miguel Mascarenhas (2025). Tokenization of electronic health records and healthcare data: enhancing security and privacy while enabling usability. Health and Technology. - Times Cited Google Scholar: 1

6	<p>Elvas, L. B., Almeida & Ferreira, J. (2025). The Role of AI in Cardiovascular Event Monitoring and Early Detection: Scoping Literature Review. JMIR Medical Informatics.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 13 - Times Cited Scopus: 15 - Times Cited Google Scholar: 27
7	<p>Ferreira, J., Elvas, L. B., Correia, R. & Miguel Mascarenhas (2024). Enhancing EHR Interoperability and Security through Distributed Ledger Technology: A Review. Healthcare.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 22 - Times Cited Scopus: 26 - Times Cited Google Scholar: 59
8	<p>Nunes, M., João Boné, Ferreira, J. & Elvas, L. B. (2024). Health Care Language Models and Their Fine-Tuning for Information Extraction: Scoping Review. JMIR Medical Informatics.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 11 - Times Cited Scopus: 9 - Times Cited Google Scholar: 17
9	<p>Ferreira, J., Francisco, Bruno Alexandre, Elvas, L. B., Nunes, M. & José Augusto Afonso (2024). Predicting People's Concentration and Movements in a Smart City. Electronics (Switzerland). 13 (1)</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 2 - Times Cited Scopus: 1 - Times Cited Google Scholar: 3
10	<p>Nunes, M., João Boné, Ferreira, J., Pedro Chaves & Elvas, L. B. (2024). MediAlbertina: An European Portuguese medical language model. Computers in Biology and Medicine.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 3 - Times Cited Scopus: 6 - Times Cited Google Scholar: 13
11	<p>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.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 6

- Other publications

1	<p>Brandão, T., Elvas, L. B., Ferreira, J. & Brandão, T. (2023). Automatic Calcium Detection in Echocardiography Based on Deep Learning: A Systematic Review. Innovations in Bio-Inspired Computing and Applications.</p>
2	<p>Elvas, L. B., Helgheim, B. & Ferreira, J. (2023). Information Sharing through Digital Service Agreement.</p>
3	<p>Mariana Peyroteo, Inês Augusto Ferreira, Elvas, L. B., Ferreira, J. & L. V. Lapão (2021). Healthcare Remote Monitoring Systems in patients with Chronic Diseases in Primary Health Care: A Systematic Review (Preprint).</p>

- Newspaper article

1	<p>Elvas, L. B. (2022). A importância da Visão por Computador na Saúde. IntelCities. 10, 48-49</p>
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Research Projects

Project Title	Role in Project	Partners	Period
EduCation on Antimicrobial REsistance for the health workforce	Researcher	ISTAR-Iscte (SSE), BRU-Iscte, CIS-Iscte, HEALTH CARE WITHOUT HARM EUROPE - (Belgium), AGENCIA ESPANOLA DE MEDICAMENTOS Y PRODUCTOS - (Spain), SERVICIO ANDALUZ DE SALUD - (Spain), FUNDACION PUBLICA ANDALUZA PARA LAGESTION DE LA - (Spain), INVESTIGACION EN SALUD DE SEVILL - (Spain), ECHALLIANCE COMPANY LIMITED BY GUARANTEE - (Ireland), EUROPEAN HEALTH MANAGEMENT ASSOCIATION - (Belgium), EUROPEAN SOCIETY FOR QUALITY AND PATIENTSAFETY IN GENERAL PRACTICE/FAMILY MEDICINE - (Denmark), FUNDACION PRIVADA INSTITUTO DE SALUD GLOBAL BARCELONA - (Spain), HOSPITAL CLINIC DE BARCELONA - (Spain), ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON - (Greece), SEMMELWEIS EGYETEM - (Hungary), UNIVERSITA DEGLI STUDI DI FIRENZE - (Italy), LIETUVOS SVEIKATOS MOKSLU UNIVERSITETAS - (Lithuania)	2023 - 2025
Nepalese Education in E-health - Master	Researcher	ISTAR-Iscte (SSE) - Leader, BRU-Iscte, CIS-Iscte, UNIVERSITETET I OSLO - (Norway), KATHMANDU UNIVERSITY - (Nepal), POKHARA UNIVERSITY - (Nepal)	2023 - 2026
Decentralize Portugal with blockchain agenda	Researcher	ISTAR-Iscte, BRU-Iscte, CIES-Iscte, CIS-Iscte, VOID - Leader (Portugal), INESC-ID - (Portugal), IST-ID - (Portugal), UM - (Portugal), IPLeiria - (Portugal), BioGHP - (Portugal), INESC TEC - (Portugal), INOV - (Portugal)	2024 - 2025
Master's Degree of Managing Digital Transformation in the Health Sector	Research Assistant	Iscte - Leader, LAUREA - (Finland), AUTH - (Greece), UNI EIFFEL - (France), IT-IUL - (Portugal), Clinipower - (Finland), Whymob - (Portugal), MundiConsulting - (Portugal)	2023 - 2026

Academic Management Positions

Coordenador do 3º Ano (2025 - 2026)
Unit/Area: Bachelor Degree in Digital Technologies and Health

Director (2025 - 2028)
Unit/Area: Bachelor Degree in Digital Technologies and Health

Coordenador de ECTS (2025 - 2026)
Unit/Area: Department of Management and Social Sciences

Director (2025)
Unit/Area: Bachelor Degree in Digital Technologies and Health

Coordenador do 2º Ano (2024 - 2025)
Unit/Area: Bachelor Degree in Digital Technologies and Health

Coordenador do 2º Ano (2024 - 2025)
Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence

Awards

Distinction for best traineeship in speciality colleges for admission to the Order of Engineers - 2022 (2022)

Distinction for the best internship for admission to the Order of Engineers - 2021 (2021)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event's organizing committee	Web manager		2020