

Curriculum Vitae

# Firmino Silva

Firmino Oliveira da Silva is a Professor at ISLA Gaia – Polytechnic Institute of Management and Technology of Gaia (Lusófona Group), where he serves as Director of the Research Unit and is a member of the institution's Board. He also holds leadership responsibilities in several academic programmes, including the Master's degree in Engineering of Technologies and Web Systems and the Master's degree in Computer Science.
He is the Coordinator of the CEOS.PP Technological Hub at ISLA Gaia and a Research Member of CEOS.PP – Centre for Organisational and Social Studies of the Polytechnic of Porto, contributing to research initiatives focused on technological innovation, digital transformation, and applied information systems.
He has more than twenty years of experience in higher education teaching and has also lectured within the Polytechnic of Porto, namely at ISCAP and ESMAD.
In parallel with his academic career, he has developed an extensive professional trajectory in the fields of information technologies and information systems management, having worked across several sectors, including finance, banking, automotive, and technology. His professional experience includes positions at organisations such as IBM, Banco BPI, Credifin/Cetelem, and Auto-Sueco (NORS), where he coordinated and participated in large-scale and transformative projects, including enterprise resource planning (ERP) implementations, datacentre virtualisation programmes, and service-oriented architecture initiatives.
In addition, he has significant experience as a professional trainer, delivering advanced training programmes for major organisations in areas such as analytics, data modelling, e-commerce, and decision-support systems.
He holds a PhD in Computer Science from Eindhoven University of Technology (TU/e), a Master's degree in Information Management from the Faculty of Engineering of the University of Porto (FEUP), and a degree in Computer Engineering from the Polytechnic Institute of Engineering of Porto (ISEP).
His main research and professional interests include Data Science, Big Data, Internet of Things, Blockchain technologies, enterprise resource planning systems, Service-Oriented Computing, Industry 4.0, Digital Transformation, and Artificial Intelligence.

## Identification

### Personal identification

Full name
Firmino Silva

Gender
Male

### Citation names

Da Silva, F. O.
Silva, F.
Firmino Oliveira da Silva
Silva, F. O.

### Author identifiers

Ciência ID
C21A-91DC-B90B

ORCID iD
0000-0002-7489-7565

AuthenticusID
Web of Science Researcher IDAIC: 8607-2022

Google Scholar ID
I8ctebsAAAAJ

Researcher Id
https://www.researchgate.net/profile/Firmino-Oliveira-Da-Silva

Scopus Author Id
56014653800

## Email addresses

firmino.silva@islagaia.pt (Professional)
firmino.silva@islagaia.pt (Professional)
firmino.silva@gmail.com (Personal)

## Telephones

Mobile phone
962832832 (Personal)

## Addresses

Rua Diogo de Macedo, nº192, 4400-107 Vila Nova Gaia, Vila Nova de Gaia, Portugal (Professional)

## Websites

https://investigacao.islagaia.pt/ (Professional)

## Knowledge fields

Engineering and Technology - Electrotechnical Engineering, Electronics and Informatics

## Languages

| Language | Speaking | Reading | Writing | Listening | Peer-review |
|---|---|---|---|---|---|
| English | Advanced (C1) | Advanced (C1) | Advanced (C1) | Advanced (C1) | |
| German | Elementary (A2) | Intermediate (B1) | Beginner (A1) | Elementary (A2) | Elementary (A2) |
| Spanish; Castilian | Elementary (A2) | Upper intermediate (B2) | Elementary (A2) | Intermediate (B1) | Intermediate (B1) |

## Education

| | Degree | Classification |
|---|---|---|
| 2019/01/21<br>Concluded | Computer Science (Doktor (PhD))<br>Major in Information Systems and Software Engineering, with a focus on Service-Oriented Computing (SOA), cross-organizational business processes, performance monitoring and metrics, and service selection and orchestration in collaborative networks.<br><br>Technische Universiteit Eindhoven Department of Industrial Engineering & Innovation Sciences, Netherlands<br>*"Service Selection and Ranking in Cross-Organizational* | Approved Max grade |

| | | |
|---|---|---|
| | *Business Process Collaboration" (THESIS/DISSERTATION)* | |
| 2005<br>Concluded | Mestrado de Gestão de Informação (Master's Degree)<br>Universidade do Porto Faculdade de Engenharia, Portugal<br>*"Integração de Sistemas e Plataformas como Solução para a Gestão de Informação de Clientes" (THESIS/DISSERTATION)* | Muito Bom |
| 1999<br>Concluded | Engenharia Informática (Licenciate Degree)<br>Instituto Politécnico do Porto Instituto Superior de Engenharia do Porto, Portugal<br>*"Reengenharia de Processos e de Sistemas - Implementação Técnica do ERP SAP R/3 no Grupo Auto-Sueco" (THESIS/DISSERTATION)* | 15 |

## Affiliation

### Science

| | Category<br>Host institution/organization | Employer |
|---|---|---|
| 2022/05/01 - Current | Researcher (Research)<br>Universidade Lusófona Associação para a Investigação e Desenvolvimento em Cognição e Computação Centrado nas Pessoas, Portugal | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2022 - Current | Researcher (Research)<br>Grupo Lusófona, Portugal | Universidade Lusófona Associação para a Investigação e Desenvolvimento em Cognição e Computação Centrado nas Pessoas, Portugal |
| 2020 - Current | Science and Technology Management<br>Grupo Lusófona, Portugal | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2017 - Current | Researcher (Research)<br>Instituto Politécnico do Porto, Portugal | Instituto Politécnico do Porto Centro de Estudos Organizacionais e Sociais, Portugal |

## Teaching in Higher Education

| | Category<br>Host institution/organization | Employer |
|---|---|---|
| 2020/10/01 - Current | Adjunct Teacher (Polytechnic Teacher)<br>Grupo Lusófona, Portugal | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2018 - 2024/07/31 | Invited Adjunct Teacher (Polytechnic Teacher) | Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2001/03/26 - 2020/07/31 | Invited Adjunct Teacher (Polytechnic Teacher)<br>Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal | Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal |
| 2016 - 2019 | Invited Assistant (Polytechnic Teacher) | Instituto Politécnico do Porto, Portugal |
| 2016 - 2019 | Invited Assistant (Polytechnic Teacher) | Instituto Politécnico do Porto, Portugal |
| 2016 - 2019 | Invited Assistant (Polytechnic Teacher) | Instituto Politécnico do Porto, Portugal |
| 2013 - 2016 | Assistant (Polytechnic Teacher) | Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal |
| 2013 - 2016 | Assistant (Polytechnic Teacher) | Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal |
| 2013 - 2016 | Assistant (Polytechnic Teacher) | Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal |

## Positions / Appointments

| | Category<br>Host institution/organization | Employer |
|---|---|---|

| | | |
|---|---|---|
| 2021/09/01 - Current | Organic Unit Director<br>Grupo Lusófona, Portugal | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |

## Projects

### Grant

| | Designation | Funders |
|---|---|---|
| 2025/02/01 - 2028/08/31 | WiseChain- Enhancing Higher Education Admissions Through Blockchain-Powered Application Evaluation<br>WiseChain<br>Principal investigator<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal | Erasmus Plus, Belgium<br>Submitted |
| 2023/01/02 - 2026/12/31 | SOLVER ATE<br>Programa para a Promoção da Saúde Mental no Ensino Superior (DGES)<br>Researcher<br>Grupo Lusófona, Portugal | Fundação para a Ciência e a Tecnologia, Portugal<br>Ongoing |
| 2024/02/01 - 2026/01/31 | Young2HL Youth Health Literacy<br>KA210-VET-2E9DDE6B<br>Researcher<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal | Erasmus Plus, Belgium<br>Ongoing |
| 2025/02/01 - 2026 | Dynamic Growth: Financial Generation through Active Methodologies<br>DGW<br>Researcher<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal | Erasmus Plus, Belgium<br>Submitted |
| 2024 - 2026 | Entrepreneur Digital Notebook<br>IAPMEI<br>Researcher<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal | Ongoing |
| 2023/09/01 - 2025/08/31 | Happiness and well-being at School: promoting the student experience<br>KA210-VET-DC272DF2<br>Researcher<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal | Erasmus Plus, Belgium<br>Ongoing |

| | | |
|---|---|---|
| 2024/02/01 - 2025/01/31 | Finance4youth<br>2023-1-PT01-KA210-VET-000164896<br>Research Technician Fellow<br>ISLA - Gaia / Research Center, Portugal | Erasmus Plus, Belgium<br>Ongoing |
| 2022/07/01 - 2024/11/30 | Scientifical Portal (Scientific Production Collection System)<br>POCH-12-5312-FSE-000019<br>Principal investigator<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal | Fundação para a Ciência e a Tecnologia, Portugal<br>Concluded |
| 2022/05/02 - 2024/10/31 | Blockchain and Digital Signature supporting remote assessment systems in a HEI<br>POCH-02-5312-FSE-000019<br>Principal investigator<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal | Fundação para a Ciência e a Tecnologia, Portugal<br>Concluded |
| 2022/03/01 - 2023/08/31 | Entrepreneurial Generation<br>2021-2-PT01-KA210-VET-000049223<br>Researcher<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal | Erasmus, Netherlands<br>Concluded |

## Contract

| | Designation | Funders |
|---|---|---|
| 2025/01/01 - 2029/12/31 | Centro de Estudos Organizacionais e Sociais do Politécnico do Porto \| Center of Organizational and Social Studies of Polytechnic of Porto<br>UID/05422/2025<br><style forecolor="#0000FF"><a href=" https://doi.org/10.54499/UID/05422/2025" type="Reference">10.54499/UID/05422/2025</a></style><br>Universidade Técnica do Porto, Portugal | Fundação para a Ciência e a Tecnologia, Portugal<br>Ongoing |
| 2023/07/03 - 2024/12/31 | Center of Organizational and Social Studies of Polytechnic of Porto<br>UIDB/05422/2020<br>10.54499/UIDB/05422/2020<br>Instituto Politécnico do Porto, Portugal | Fundação para a Ciência e a Tecnologia, Portugal<br>Concluded |

| | | |
|---|---|---|
| 2020/01/01 - 2024/12/31 | Centro de Estudos Organizacionais e Sociais do Politécnico do Porto<br>UIDP/05422/2020<br>10.54499/UIDP/05422/2020<br><br>Instituto Politécnico do Porto, Portugal | Fundação para a Ciência e a Tecnologia, Portugal<br><br>Concluded |
| 2022/11 - 2024/11 | Intelligent Scientific Production Collection System<br>POCH-02-5312-FSE-000019 | Concluded |

## Outputs

### Publications

**Book**

1. Lamas, Marco; Da Silva, F. O.; Duque, Jorge; Goncalves, Helena. *Converging Business Models With Digital Transition Strategies*. IGI Global. 2027.
   Published · Editor
2. Silva, F. O.. Corresponding author: Silva, F. O.. *Assistive Mobile Application for Visually Impaired Individuals Using Real-Time Object Recognition with Voice Feedback*. Springer Nature Link. 2026.
   Published · 10.1007/978-3-032-10721-3_75
3. Manuel Tender; Matej Mihic; Firmino Oliveira da Silva; João Pedro Couto; Paul Anthony Fuller; Peter Demian; Kitty Karolyfi; Rania Wehbe; Radhlinah Aulin. *Integrating Occupational Safety and Health using Digital Technologies - the case of Building Information Modelling*. 2026.
4. Lamas, Marco; Firmino Oliveira da Silva; Gonçalves, Helena Isabel Marques; DUQUE, JORGE. *Sustainable digital transition: successful business models*. United Kingdom: IGI Global Book. 2025.
   Under revision · Editor
5. Tender, M.; Fuller, P.; Demian, P.; Mihic, M.; Couto, J.P.; Wehbe, R.; Károlyfi, K.A.; et al. *INTEGRATING OCCUPATIONAL SAFETY AND HEALTH USING DIGITAL TECHNOLOGIES: The case of Building Information Modelling*. 2025.
   10.1201/9781003615217
6. Lamas, Marco; Silva, F. O.; Goncalves, Helena; DUQUE, JORGE. *Converging Business Models With Digital Transition Strategies*. IGI Global. 2024.
   Accepted
7. Silva, Firmino. *ERP e CRM*. Porto, Portugal: Edições Centro Atlântico. 2001.
   Published

**Book chapter**

1. da Silva, Firmino Oliveira; Gonçalves, Helena Isabel Marques; Godinho, Manuel; Maçães, Filipe. "Approach to an Innovative Model for Health Care Monitoring, Ensuring Efficiency, Quality and sustainability of Services". In *International Conference on Information Systems and Medicine. Volume 2*, 33-44. Springer

Nature Switzerland, 2026.

Published • 10.1007/978-3-031-99702-0_4

2 Tender, Manuel; Firmino Oliveira da Silva. "Key Technological Developments in Construction". In *Integrating Occupational Safety and Health Using Building Information Modelling*. United Kingdom: Routledge | Taylor & Francis Group, 2025.

Under revision

3 Duque, Jorge; Godinho, António; Moreira, José; Silva, Firmino. "The Impact of Machine Learning Techniques Applied to Businesses Strategies". In *Emerging Trends in Information Systems and Technologies*, 485-497. Springer Nature Switzerland, 2025.

Published • 10.1007/978-3-031-97119-8_37

4 Aloui, Rami; Oliveira da Silva, Firmino; Godinho, António Lencastre. "Telecom Threats in Web Security: An AI-Based Detection Model for Mobile Flaws". In *Emerging Trends in Information Systems and Technologies*, 113-125. Switzerland: Springer Nature Switzerland, 2025.

Published • 10.1007/978-3-031-97119-8_9

5 Firmino Oliveira da Silva; Lamas, Marco; Duque, Jorge; Goncalves, Helena. "The Challenge of Entrepreneurial Management: Balancing Energy Sustainability and Emerging Electricity-Intensive Technologies". In *Converging Business Models With Digital Transition Strategies*. Portugal: IGI Global, 2025.

Under revision

6 Silva, F. O.; Tender, M.. Corresponding author: Tender, M.. "The case of Building Information Modelling". In *Integrating Occupational Safety and Health using Digital Technologies*. Routledge, 2025.

Published

7 de Matos Monteiro, Joana; Silva, F. O.. Corresponding author: de Matos Monteiro, Joana. "Data-Driven Design in e-Commerce: Contribution of Customer Data Applied to User Experience". In *Proceedings of Eighth International Congress on Information and Communication Technology*, 615-624. London, United Kingdom: Springer Nature Singapore, 2023.

Published • 10.1007/978-981-99-3236-8_49

8 Tender, M.; Fuller, Paul; Vaughan, Alex; Chow, Vivien; SILVA, F.O.; Couto, João; santos, ricardo; et al. "LESSONS LEARNED FROM THE USE OF VIRTUAL REALITY FOR OCCUPATIONAL SAFETY AND HEALTH TRAINING IN THAMES TIDEWAY TUNNEL". In *Proceedings Journal of Management, Procurement and Law*. Porto, Portugal, 2023.

Published

9 Dias, Paulo Victor; Silva, Firmino. "Blockchain and Digital Signature Supporting Remote Assessment Systems: A Solution Approach Applied to Higher Education Institutions Scope". In *Advances in Tourism, Technology and Systems*, 775-784. Springer Nature Singapore, 2023.

Published • 10.1007/978-981-19-9960-4_64

10 Paulo Victor Dias; Firmino Silva; António Godinho; Dias, Paulo Victor; Silva, F. O.. "A Blockchain-Based Framework Solution to Enhance the Remote Assessment Process in HEIs". In *5th International Congress on Blockchain and Applications*, 775-784. Springer Nature Singapore, 2023.

Published • 10.1007/978-3-031-45155-3_22

11 Guerra, M. J.; Silva, F. O.. "Digital Marketing Strategy: A Step-By-Step Approach". In *Smart Innovation, Systems and Technologies*, 339-350. Tenerife, Spain: Springer Nature Singapore, 2022.

Published • 10.1007/978-981-16-9268-0_28

12 Tender, Manuel; Fuller, Paul; Vaughan, Alex; Long, Marc; Couto, João; Damien, Peter; Chow, Vivien; et al. "Real world lessons that can assist construction organisations in implementing BIM to improve the OSH processes". In *4° Congresso Português de Building Information Modelling vol. 1 - ptBIM*, 155-167. Portugal: UMinho Editora, 2022.

Published • 10.21814/uminho.ed.32.13

13 Silva, F. O.; Pereira, Rui Humberto; Gonçalves, Maria José Angélico; da Silva, Amélia Ferreira; Silva, Manuel. "Exploring the Innovative Aspects of CV Distributed Ledgers Based on Blockchain". In *Trends and Innovations in Information Systems and Technologies*, 14-24. Springer International Publishing, 2020.

Published • 10.1007/978-3-030-45691-7_2

14 da Silva, Firmino Oliveira. "A Framework for Customer-Oriented Solution Applied to the Tourism Sector". In *Advances in Tourism, Technology and Systems*, 255-265. Springer Singapore, 2020.

Published • 10.1007/978-981-33-4256-9_23

15 Silva, F. O.; Chituc, Claudia-Melania; Grefen, Paul. "Service Selection and Ranking: A Framework Proposal and Prototype Implementation". In *IFIP Advances in Information and Communication Technology*, 395-403. Springer International Publishing, 2017.

Published • 10.1007/978-3-319-65151-4_36

Conference paper

1 Masioli, Adelino; Da Silva, F. O.; Moreira, J. J.; Godinho, António; Duque, Jorge. "Smart ecosystem for proactive monitoring of vital signs - Modular architecture and technical evaluation with synthetic data". Paper presented in *ICISMED 2027 International Conference in Information Systems and Medicine*, 2027.

Submitted

2 Duque, Jorge; Godinho, António; Moreira, José Joaquim; Silva, F. O.. "From predicting dropout rates to responsible intervention: explainable machine learning for academic success in higher education". Paper presented in *WorldS4 2026*, 2026.

Accepted

3 Duque, Jorge; Godinho, António; Moreira, José Joaquim; Silva, F. O.. "Institutional and Student Digital Twins for the Sustainable Prevention of Dropout in Higher Education". Paper presented in *11th Edition ICT4SD International ICT summit & Awards 2026*, 2026.

4 Silva, F. O.; Duque, Jorge. "AI-Driven Predictive Model for Diabetes Risk Assessment - A Class-Balanced Machine Learning Approach with Web-Based Deployment". Paper presented in *iSCSi - International Conference on Industry Sciences and Computer Sciences Innovation 2026*, *Açores*, 2026.

Submitted

5 Lanção, Ricardo; Santos, Mónica; Graaf, Susanne; Silva, F. O.. "A Structured Work-Based Learning Model in Hospitality Education: Bridging Curriculum and Real-World Practice through In-Situ Integration". Paper presented in *iSCSi - International Conference on Industry Sciences and Computer Sciences Innovation 2026*, 2026.

Submitted

6 Silva, F. O.. "SiSchool: A QR-Based Mobile Device Control System for Educational Environments". Paper presented in *iSCSi - International Conference on Industry Sciences and Computer Sciences Innovation 2026*, *Açores*, 2026.

Submitted

7 Miguel Moreira; Firmino Oliveira da Silva. "AI-Powered Prevention Evaluating Intelligent Tools for Mental Health Support". Paper presented in *ICISME2026 - 2nd ICISMED International Conference in Information Systems and Medicine*, *Temuco*, 2026.

Published

8 N Domingues, Susana; Silva, F. O.; Menezes, Natércia. "In Silico Models in Preclinical Drug Development and Toxicology: A PRISMA-Based Systematic Review". Paper presented in *ICISMED 2026*, 2026.

Published

9 jorge duque; Moreira, José Joaquim; Godinho, António; Silva, Firmino. "Artificial Intelligence in Teaching Support: Predictive Models and Adaptive Systems for Personalizing Learning". Paper presented in *CENTERIS*, 2025.

Published

10 Dharmik Savani; Silva, F. O.. "HUMAN-IN-THE-LOOP AI FOR RADIOLOGY REPORT GENERATION: A METHODOLOGY FRAMEWORK FOR CONTINUOUS LEARNING FROM EXPERT FEEDBACK". Paper presented in *22nd International Conference on Applied Computing 2025*, *Porto*, 2025.

Accepted

11 Firmino Oliveira da Silva; Goncalves, Helena. "API-DRIVEN Agregation of Academic production: The Isla-Gaia Scientific Portal Case Study". Paper presented in *ESD*, 2025.

Under revision

12 Firmino Oliveira da Silva. "Artificial Intelligence-Driven Vehicle Image Recognition for Enhanced Urban Planning and Transportation". 2025.

Accepted

13 Goncalves, Helena; Firmino Oliveira da Silva. "Variability in Post-Operative Care and Resource Utilization for Knee and Hip Arthroplasty: A Retrospective Study in Portugal". 2024.

Submitted

14 Dias, P.; Gonçalves, H.; Silva, F.; Duque, J.; Martins, J.; Godinho, A.; Dias, Paulo Victor; et al. "Blockchain Technologies: A scrutiny into Hyperledger Fabric for Higher Educational Institutions"". Paper presented in *iSCSi23 - International Conference on Industry Sciences and Computer Sciences Innovation*, 2024.

Accepted • 10.1016/j.procs.2024.05.098

15 1E1D-19B9-1DAF; Silva, F. O.. "The Impact of Technology on Marketing: Exploring the Evolutionary Paradigm of Marketing 5.0". Paper presented in *ICMarkTech'23 - International Conference on Marketing and Technologies*, 2023.

Accepted

16 491C-FAA7-09AE; Firmino Oliveira da Silva; Costa, André F.. "A Serious Games Model applied to elderly population in a Digital Health environment". Paper presented in *HCist 2023 - International Conference on Health and Social Care Information Systems and Technologies*, *Porto*, 2023.

Published

17 Dias, Paulo Victor; Goncalves, Helena; Silva, F. O.; Duque, Jorge; D11F-CF93-483A; 6719-810A-99BB. "Blockchain Technology : A scrutiny into Hyperledger Fabric for Higher Educational Institutions". Paper presented in *iSCSi23 - International Conference on Industry Sciences and Computer Sciences Innovation*, 2023.

Accepted

18 Tender, M.; Fuller, Paul; Chow, V.; Silva, F. O.. "BIM4OSH OBSERVATORY: CENTRAL REPOSITORY TO MONITOR THE STATUS OF BIM IMPLEMENTATION FOR OSH - PURPOSED ARCHITECTURE". Paper presented in *CIBW099W123: Digital Transformation of Health and Safety in Construction*, 2023.

Accepted • https://doi.org/10.24840/978-972-752-309-2

19 Tender, M.; Couto, João; Silva, F. O.; Fuller, P.. "BIM4OSH Observatory - an exploratory justification". Paper presented in *11th International Conference WorkingOnSafety.net - WOS 2022*, *Olhão*, 2022.

Accepted

20 Costa, A.; Silva, F.; Costa, André; Silva, F. O.. "Interaction Design for AI Systems: An oriented state-of-the-art". Paper presented in *4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications*, *Ancara*, 2022.

Published • 10.1109/HORA55278.2022.9800084

21 Silva, Firmino; Chituc, Claudia-Melania; Grefen, Paul; Silva, F.; Chituc, C.-M.; Grefen, P.. "An Approach for Automated Service Selection and Ranking using Services Choreography". Paper presented in *11th International Conference on Web Information Systems and Technologies*, *Lisbon*, 2015.

Published • 10.5220/0005461202590266

22 Silva, F. O.; Silva, F.; Chituc, C.-M.. "Towards the Definition of a Framework Supporting High Level Reliability of Services". Paper presented in *ICSOC: International Conference on Service-Oriented Computing - 2012*, *Shangai*, 2012.

Published • 10.1007/978-3-642-37804-1_16

23 Silva, F. O.. "An Approach to Modelling Informal Communication in Business Networks". Paper presented in *IADIS International Conference on Applied Computing*, *Salamanca*, 2007.

Published

Journal article

1 Moreira, José Joaquim; Duque, Jorge; Godinho, António; Da Silva, F. O.. Corresponding author: Moreira, José Joaquim. "Teacher Assignment Problem: A Bibliometric Analysis from 1976 to 2024". *World Journal of Information Systems* 3 3 (2026): 27-43. https://doi.org/10.17013/wjis.v3i3.65.

Published • 10.17013/wjis.v3i3.65

2 Guimarães, Paulo; da Silva, Firmino Oliveira. "AI-Powered Vehicle Image Recognition Model for Sustainable and Smart Urban Traffic Management". *Procedia Computer Science* 278 (2026): 808-816. https://doi.org/10.1016/j.procs.2026.03.054.

Published • Open access • 10.1016/j.procs.2026.03.054

3 Duque, Jorge; Moreira, José; Silva, Firmino; Gonçalves, Helena. "Artificial Intelligence in Support of Teaching: Predictive Models and Adaptive Systems for Personalising Learning". *Procedia Computer Science* 278 (2026): 192-199. https://doi.org/10.1016/j.procs.2026.02.454.

Published • Open access • 10.1016/j.procs.2026.02.454

4 da Silva, Firmino Oliveira; Godinho, António; Gonçalves, Helena; Pinto, Agostinho Sousa; Azevedo, Ana; Lamas, Marco; Furtado, Paulo. "Catalyst Knowledge and Social Innovation Hub: A Replicable Model for Transformative Engagement in Higher Education". *Procedia Computer Science* 278 (2026): 825-835. https://doi.org/10.1016/j.procs.2026.03.056.

Published • Open access • 10.1016/j.procs.2026.03.056

5 Nada Bejauoui; Firmino Oliveira da Silva. "Enhancing Organic Social Media Engagement in Online Language Education: A Data-Driven Approach". *CENTERIS – International Conference on ENTERprise Information Systems* (2026):

Published

6 Cecconi, Clarisse; da Silva, Firmino Oliveira; Furtado, Paulo; Duque, Jorge. "FireHawk: An Integrated and Adaptive Model for Wildfire Management Using IoT and AI Analytics". *Procedia Computer Science* 278 (2026): 836-843. https://doi.org/10.1016/j.procs.2026.03.057.

Published • 10.1016/j.procs.2026.03.057

7 da Silva, Firmino Oliveira; Gonçalves, Helena; Godinho, Manuel; Mações, Filipe. "Design of an Intelligent Clinical Treatment Pathway Model: A Holistic System for Sustainable Healthcare Applied to Orthopaedical". *Procedia Computer Science* 278 (2026): 1404-1414. https://doi.org/10.1016/j.procs.2026.03.126.

Published • 10.1016/j.procs.2026.03.126

8 Matos Pereira, N. M.; Da Silva, F. O.; Moreira, J. J.; Godinho, António; Duque, Jorge. "A Digital Political Marketing Optimization Model for Enhancing Political Engagement: A Design Science Research Approach in the Portuguese Context". *Smart Innovation, Systems and Technologies* (2026):

Accepted

9 Neves, André; Da Silva, F. O.; Duque, Jorge; Moreira, J. J.; Godinho, António. "AI-Based Audio-to-MIDI Technologies for Music Creation and Education: A Comparative Analysis and a Conceptual Framework". *Procedia Computer Science* (2026):

Accepted

10 Nascimento, Hugo; Godinho, António; Moreira, J. J.; Da Silva, F. O.; Duque, Jorge. "Where Does the Evidence Get Lost? End-to-End Evaluation of na AI Pipeline for Enterprise Documents". *Procedia Computer Science* (2026):

Accepted

11 Duque, Jorge; Da Silva, F. O.. "AN AUDITABLE STUDENT DIGITAL TWIN TO SUPPORT DROPOUT PREVENTION IN HIGHER EDUCATION: EXPLAINABLE MACHINE LEARNING AND A REPRODUCIBLE SYNTHETIC DEMONSTRATION". *ECIS27* (2026):

Accepted

12 <style isUnderline="true">Godinho, Manuel; Mações, Filipe</style>; Gonçalves, Helena; Silva, Firmino. Corresponding author: Godinho, Manuel. "Clinical Pathways in Knee and Hip Arthroplasty: Narrative Review on Sustainability, Quality, and Resource Management". <style isItalic="true">JMIR Perioperative Medicine</style> 8 (2025): e78174-e78174. <style forecolor="#0000FF"><a href="https://https://doi.org/10.2196/78174<br/>https://s3.ca-central-1.amazonaws.com/assets.jmir.org/assets/preprints/preprint-78174-submitted.pdf" type="Reference" target="_blank">https://doi.org/10.2196/78174 https://s3.ca-central-1.amazonaws.com/assets.jmir.org/assets/preprints/preprint-78174-submitted.pdf</a></style>.

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21 Gonçalves, Helena; Silva, Firmino; Rodrigues, Catarina; Godinho, António. "Navigating the Digital Landscape of Diabetes Care: Current State of the Art and Future Directions". *Procedia Computer Science* 237 (2024): 336-343. https://doi.org/10.1016/j.procs.2024.05.113.

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|---|---|---|
| | 23 | Gonçalves, Helena Isabel Marques; da Silva, Firmino Oliveira. "Cognitive Rehabilitation: A Comparison Model of a Digital Environment based on Serious Games and the Traditional Methods". *Procedia Computer Science* 219 2023 (2023): 1333-1340. https://doi.org/10.1016/j.procs.2023.01.418.<br>Published • 10.1016/j.procs.2023.01.418 |
| | 24 | Tender, Manuel; Fuller, Paul; Vaughan, Alex; Long, Marc; Couto, João Pedro; Damien, Peter; Chow, Vivien; et al. "Lessons from implementation of Key Technological Developments to improve occupational safety and health processes in a complex UK-based construction project". *IOP Conference Series: Earth and Environmental Science* 1101 9 (2022): 092016. http://dx.doi.org/10.1088/1755-1315/1101/9/092016.<br>Published • Open access • 10.1088/1755-1315/1101/9/092016 |
| Preprint | 1 | Manuel Godinho; Filipe Mações; Helena Gonçalves; Firmino Silva. "Clinical pathways in knee and hip arthroplasty: A narrative review on sustainability, quality, and resource management (Preprint)". 2025. https://doi.org/10.2196/preprints.78174.<br>10.2196/preprints.78174 |
| Thesis / Dissertation | 1 | Ramos, Diogo. "Marketing 5.0: O impacto da Tecnologia no Marketing". Master, 2023. http://hdl.handle.net/10400.26/50768. |
| | 2 | Cordeiro, Afonso Castro. "Aplicação móvel de realidade aumentada para o património e cultura da Ilha de São Miguel". Master, 2021. http://hdl.handle.net/10400.22/16987. |
| | 3 | Guerra, Maria João de Oliveira. "Definição da estratégia digital sustentada no desenvolvimento de objetos multimédia para promoção de soluções tecnológicas da IOTech: do desenho à implementação". Master, 2021. http://hdl.handle.net/10400.22/18181. |
| | 4 | Gomes, Marta Agostinha Vieira. "Avaliação do impacto do uso de jogos digitais sérios na promoção de competências comunicativas na paralisia cerebral". Master, 2020. http://hdl.handle.net/10400.22/16709. |
| | 5 | Rodrigues, Liliana Daniela da Cunha. "O uso de jogos virtuais interativos para telereabilitação na paralisia cerebral". Master, 2020. http://hdl.handle.net/10400.22/16725. |
| | 6 | Silva, F. O.. "Service Selection and Ranking in Cross-Organizational Business Process Collaboration". PhD, Technische Universiteit Eindhoven Faculteit Industrial Engineering and Innovation Sciences, 2019. https://pure.tue.nl/ws/files/114053520/20190121_Oliveira_da_Silva.pdf. |

## Other

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|---|---|---|
| Other output | 1 | BIM4OHS observatory: central repository to monitor the status of BIM implementation for OSH: purposed architecture. Key Technological Developments (KTDs), in recent years, have led to a step change in dealing with Occupational Safety and Health (OSH) risk management. Building Information Modelling (BIM), part of a wider trend of applying digital |

technology in the Architecture, Engineering, Construction and Operation (AECO) sector, has the potential to optimize the management of risks and costs of accidents at w. 2023. Tender, Manuel; Fuller, Paul; Demian, Peter; Chow, Vivien; Silva, Firmino; Couto, J. Pedro. https://hdl.handle.net/1822/88799.

## Activities

### Supervision

| | Thesis Title<br>Role | Degree Subject (Type)<br>Institution / Organization |
|---|---|---|
| 2025/07/30 - Current | Optimizing Organic Social Media Strategies for Online English Schools: A Data Analytics Approach<br>Supervisor | MASTER'S DEGREE IN WEB TECHNOLOGY AND SYSTEMS ENGINEERING (Master)<br>ISLA Gaia Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2021/10/01 - Current | Physical Game with Augmented Reality Application support<br>Supervisor of Catarina Marinho | Master in Interactive Media and Systems (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2021/10/01 - Current | Immersive environment in Augmented Reality<br>Supervisor of António Correia | Master in Interactive Media and Systems (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2024 - 2025 | Enhancing Financial Systems Through Blockchain A Design Sciece Research<br>Supervisor | Engenharia de Tecnologias e Sistemas Web (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 - 2025 | ASSISTIVE MOBILE APPLICATION FOR VISUALLY IMPAIRED BASED ON REAL TIME OBJECT RECOGNITION USING MACHINE LEARNING WITH VOICE FEEDBACK<br>Supervisor | Engenharia de Tecnologias e Sistemas Web (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 - 2025 | Image Recognition with AI: A Case Study in Car Identification for urban planning and transportation<br>Supervisor | Engenharia de Tecnologias e Sistemas Web (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 - 2025 | MICROFINANCE<br>Supervisor | Engenharia de Tecnologias e Sistemas Web (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |

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|---|---|---|
| 2023 - 2024 | Intelligent Library management web-application<br>Supervisor | Engenharia de Tecnologias e Sistemas Web (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2023 - 2024 | Unveiling the Future: AI-Driven Predictive Model for Diabetes Risk Assessment and Personalized Prevention Strategies<br>Supervisor | Engenharia de Tecnologias e Sistemas Web (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2023 - 2024 | Development of an AI-based Chatbot for University Assistance "Enhancing Student and Professor Experience"<br>Supervisor | Engenharia de Tecnologias e Sistemas Web (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2023/10/10 - 2023/10/10 | Experiência de Consumidor no Metaverse: Interação do Utilizador em Mundos Virtuais e v-Commerce<br>Supervisor | MESTRADO EM ENGENHARIA DE TECNOLOGIAS E SISTEMAS WEB (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2023/10/03 - 2023/10/03 | Marketing 5.0: O impacto da Tecnologia no Marketing<br>Supervisor | Mestrado em Engenharia das Tecnologias e Sistemas Web (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2021/10/01 - 2022/11/29 | Jogo Educativo com Aplicação de Realidade Aumentada<br>Supervisor | Mestrado em Sistemas e Media Interativos (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2021/10/01 - 2022/11/07 | The use of serious games in promoting habits for cognitive rehabilitation<br>Supervisor of Helena Gonçalves | Master in Interactive Media and Systems (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2021/09/01 - 2022/11/07 | Estudo do hábito para a reabilitação cognitiva suportado em Jogos Sérios<br>Supervisor | Mestrado em Sistemas e Media Interativos (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2021/10/01 - 2022/10/18 | BLOCKCHAIN AND REMOTE ASSESSMENT SYSTEM: A conceptual approach for plagiarism mitigation in the Higher Education Institutions<br>Supervisor of Paulo Victor | Master in Web Technologies and Systems Engineering (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |

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| 2020/10/01 - 2022/10/18 | BLOCKCHAIN AND REMOTE ASSESSMENT SYSTEM - A conceptual approach for plagiarism mitigation in the Higher Education Institutions<br>Supervisor | MASTER OF ENGINEERING IN WEB TECHNOLOGIES AND SYSTEMS (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2021/10/01 - 2022/10/10 | Human-AI Interaction Design: How the Human-Centered Design Impact AI Systems<br>Supervisor of André Costa | Master in Web Technologies and Systems Engineering (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2020/10/01 - 2021/07/16 | Definição da estratégia digital sustentada no desenvolvimento de objetos multimédia para promoção de soluções tecnológicas da IOTech: do desenho à implementação<br>Supervisor | Sistemas e Media Interativos (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2020/09/30 - 2021/07/16 | Definição da estratégia digital sustentada no desenvolvimento de objetos multimédia para promoção de soluções tecnológicas da IOTech: do desenho à implementação<br>Supervisor | Sistemas e Media Interativos (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2019/09/30 - 2020/12/22 | O uso de jogos virtuais interativos para telereabilitação na Paralisia Cerebral.<br>Supervisor | Sistemas e Media Interativos (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2019/09/30 - 2020/12/18 | Avaliação do impacto do uso de jogos digitais sérios na promoção de competências comunicativas na Paralisia Cerebral.<br>Supervisor | Sistemas e Media Interativos (Master)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2019/09/30 - 2020/07/10 | Abordagem aos fatores que influenciam a fidelização do consumidor em Comércio Eletrónico<br>Supervisor | Negócio Eletrónico (Master)<br>Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal |

## Event organisation

| | Event name<br>Type of event (Role) | Institution / Organization |
|---|---|---|
| 2025/07/17 - Current | CIAIQ2025 no ISLA Gaia (2025/07/17)<br>Conference (Co-organiser) | |
| 2025/10/23 - 2025/10/23 | Finances Day - Finances for Youth (2025/10/23 - 2025/10/23) | Instituto Superior de Línguas e Administração de Vila Nova de Gaia, |

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| | | Portugal |
| | Conference (President of the Organising Committee) | |
| 2025/07/15 - 2025/07/17 | Organization of the: "14º Congresso iberoamericano de investigação QUALITATIVA" (2025/07/15 - 2025/07/17)<br>Conference (President of the Organising Committee) | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2025/06/27 - 2025/06/28 | Organization of the International Scientific Conference "Economic and Social Development" - ISLA – Polytechnic University of Management and Technology (ISLA Gaia), located at Rua Diogo de Macedo, nº192 \| 4400-107 Vila Nova de Gaia, Portugal (2025/06/27 - 2025/06/28)<br>Conference (President of the Organising Committee) | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2025/02/11 - 2025/02/11 | Open Day ISLA Gaia (2025/02/11)<br>Symposium (Member of the Organising Committee) | ISLA Gaia Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024/12/04 - 2024/12/04 | Day of Science 2024 / Syposium: ISLA Research Center promoted an event with an interesting set of initiatives and encouraged the ISLA community to participate in scientific development. Event Organization. (2024/12/04 - 2024/12/04) (2024/12/04 - 2024/12/04)<br>Conference (President of the Organising Committee) | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 - 2024 | Development of workshops and seminars on scientific interests. (2024 - 2024)<br>Seminar (President of the Organising Committee) | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 - 2024 | Workshop de Apoio à Elaboração de Candidaturas para Projetos Científicos Financiados – 20/03/2024<br>20240320 - Guidance for Applicants_ Erasmus KA210 & KA220<br>(2024 - 2024)<br>Workshop (President of the Organising Committee) | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 - 2024 | WoS presentation - from Easy to Usefull (2024 - 2024)<br>Seminar | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |

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|---|---|---|
| 2023/11/24 - 2023/11/24 | Day of Science 2023 / Syposium: ISLA Research Center promoted an event with an interesting set of initiatives and encouraged the ISLA community to participate in scientific development. The program included lectures given by invited experts, who spoke about the need to produce science, as well as the effective involvement of students. (2023/11/24 - 2022/11/23) (2023/11/24 - 2023/11/24)<br>Conference (President of the Organising Committee) | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2022/07/01 - 2022/11/24 | Day of Science / Syposium: ISLA Research Center promoted an event with an interesting set of initiatives and encouraged the ISLA community to participate in scientific development. The program included lectures given by invited experts, who spoke about the need to produce science, as well as the effective involvement of students. (2022/11/24 - 2022/11/24)<br>Symposium (President of the Organising Committee) | ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |

## Event participation

| | Activity description<br>Type of event | Event name<br>Institution / Organization |
|---|---|---|
| 2025/06/30 - Current | Comissão de Visita a Cabo Verde<br>Workshop | Comissão de Visita a Cabo Verde |
| 2025/05 - Current | III Congresso Internacional de Ambientes de Aprendizagem e Trabalho Saudáveis – O Papel Central das Relações<br>Conference | III Congresso Internacional de Ambientes de Aprendizagem e Trabalho Saudáveis – O Papel Central das Relações<br>Grupo Lusófona, Portugal |
| 2025/11/10 - 2025/11/14 | 38° Businet (Bulgaria)<br>Congress | 38° Businet (Bulgaria) |
| 2025/10/13 - 2025/10/16 | GUNi Istambul - GUNi Global University Network for innovation<br>Congress | "GUNi Global University Network for innovation" |
| 2025/09/10 - 2025/09/10 | FAZER CIÊNCIA - LUSOFONA<br>Symposium | Fazer Ciência<br>Grupo Lusófona, Portugal |

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|---|---|---|
| 2025/06/02 - 2025/06/04 | GUNi Strategic Projects (Barcelona)<br>Congress | GUNi Strategic Projects (Barcelona) |
| 2025/03/10 - 2025/03/12 | Businet Students Conference (Antuérpia - Bélgica)<br>Workshop | Businet Students Conference (Antuérpia - Bélgica) |
| 2024/12/04 - 2024/12/04 | Day of Science / Symposium 2024: ISLA Research Center promoted an event with an interesting set of initiatives and encouraged the ISLA community to participate in scientific development. The program included lectures given by invited experts. Participation in the event.<br>Symposium | Day of Science / Symposium 2024<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2022/03/09 - 2022/03/11 | iSCSi - International Conference on Industry Sciences and Computer Sciences Innovation.<br>Three panel Moderator<br>Conference | iSCSi - International Conference on Industry Sciences and Computer Sciences Innovation.<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |

## Jury of academic degree

| | Theme<br>Role | Candidate name (Type of degree)<br>Institution / Organization |
|---|---|---|
| 2026/01/05 | FROM TOUCH TO INTUITION: THE EVOLUTION OF INVISIBLE USER EXPERIENCE IN CONTEMPORARY DIGITAL DESIGN<br>Supervisor | Firas Achour (Master)<br>ISLA Gaia Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2025/12/18 | AI-Driven Predictive Model for Diabetes Risk Assessment<br>Supervisor | TOUMINA AMINA (Master)<br>ISLA Gaia Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2025/12/18 | A Hybrid Chatbot for University Service Delivery<br>Supervisor | Hamdi Gueddes (Master)<br>ISLA Gaia Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2025/11/06 | Aplicação Web para Gestão Eficiente de Horários Académicos Baseada em Algoritmos de Otimização<br>President of the jury | Armando Inácio António (Master)<br>ISLA Gaia Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2025/07/30 | Intelligent Library Management Application Supporting a Recommendation System<br>Supervisor | Khalil Zitoun (Master)<br>ISLA Gaia Instituto Politécnico de Gestão e Tecnologia, Portugal |

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| 2024 | Reformulação da funcionalidade “Formulário de Gestão de Atividade” no Produto SCRAIM<br>Supervisor | Lucas Silva (Other)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2024 | SCRAIM Helpdesk<br>Supervisor | Daniel Moreira (Other)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2024 | Prototipagem de Interface web<br>(Thesis) Main arguer | Bernardo Ferreira (Other)<br>Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal |
| 2024 | FLOWMARK - BOOST YOUR ACADEMIC JOURNEY NOW!<br>Supervisor | Tiago Fortuna (Other)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 | FLOWMARK  - BOOST YOUR ACADEMIC JOURNEY NOW!<br>Supervisor | Alexandre Ermida (Other)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 | FLOWMARK - BOOST YOUR ACADEMIC JOURNEY NOW!<br>Supervisor | Ricardo Sousa (Other)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 | Blackwood legacy<br>Supervisor | Pedro Perstes (Other)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 | Data Mining do modelo de previsão dos métodos de controlo da diabetes<br>President of the jury | Tiago Godinho (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 | Estudo de Uma Interface de Uma Aplicação Móvel<br>President of the jury | Joana Loureiro (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 | Estudo de uma interface de uma aplicação móvel<br>President of the jury | Joana Catarina Soares Loureiro (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 | A importância e implementação de um Design System num contexto multimarca, multiproduto e multidimensão<br>President of the jury | Daniel Moreira (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2024 | Testamento na blockchain<br>(Thesis) Main arguer | Mário Viana (Master)<br>Instituto Politécnico do Cávado e do |

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| | | Ave, Portugal |
| 2024 | Data Mining para suporte à tomada de decisão nas organizações<br>Análise do modelo de previsão dos métodos de controlo da Diabetes<br>President of the jury | Tiago Coutinho (Master)<br>Instituto Politécnico de Gestão e Tecnologia Escola Superior de Tecnologia, Portugal |
| 2023/11/13 | A importância e implementação de um Design System num contexto multimarca, multiproduto e multidimensão<br>President of the jury | Daniel Moreira (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2022/11/29 | Business Inteligence: Projecto de Criação de Dashboards para a empresa NDRive<br>(Thesis) Main arguer | Hugo Filipe de Sousa Vieira (Master)<br>Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal |
| 2022/09/22 | CyberSoc Incident Management Response Framework<br>President of the jury | Mário Vilamarim Saraiva (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2022/09/20 | Human-AI Interaction Design: Usability Guidelines for AI Systems Interfaces Design<br>Supervisor | André Filipe Marques Costa (Master)<br>ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal |
| 2021/12/21 | Intervention of occupational therapists in the context of telerehabilitation: scoping review<br>(Thesis) Main arguer | Susana Isabel Lucas Ferreira (Master)<br>Instituto Politécnico do Porto, Portugal |
| 2021/11/26 | Aplicando inteligência nos dados do Sage 50C™ através do Power BI™<br>(Thesis) Main arguer | Creudinei da Silva (Master)<br>Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal |
| 2021/11/21 | A aplicação de mineração de processos a um processo de contabilidade empresarial<br>(Thesis) Main arguer | Francisco José Nóbrega Rodrigues (Master)<br>Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal |

## Committee member

| | Activity description<br>Role | Institution / Organization |
|---|---|---|
| 2025/06/27 - Current | Congresso internacional ESSD<br>Coordinator | |

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| 2025/06/17 - 2025/06/17 | CISTI25 Moderador de painel<br>Member |

## Conference scientific committee

| | Conference title | Conference host |
|---|---|---|
| 2024 - 2024 | ICITED 24 | Federal University of Rio Grande do Norte |
| 2023/10/04 - 2023/10/06 | iSCSi23 - International Conference on Industry Sciences and Computer Sciences Innovation | Lisbon, Portugal, in the Radisson Hotel and at Lusófona University' s campus |
| 2023/06/29 - 2023/06/30 | ICITED23 International Conference in Information Technology & Education | Nilton Lins University, in Manaus, Brazi |
| 2022/12/01 - 2022/12/03 | ICMarkTech'22 - The 2022 International Conference on Marketing and Technologies | Department of Organisation of Companies and Commercialisation of the Faculty of Economics and Business Administration of the University of Santiago de Compostela, in Spain |
| 2022/11/03 - 2022/11/05 | ICOTTS'22 INTERNATIONAL CONFERENCE ON TOURISM TECHNOLOGY AND SYSTEMS | Autonomous University of Chile, in Santiago |
| 2022/07/14 - 2022/07/16 | ICITED 22 International Conference in Information Technology & Education | ESPM - Higher School of Advertising and Marketing |
| 2022/03/09 - 2022/03/11 | iSCSi - International Conference on Industry Sciences and Computer Sciences Innovation | ISLA-IPGT |
| 2021/12/02 - 2021/12/04 | ICMarktech'21 – International Conference on Marketing and Technologies | Universidad de La Laguna |
| 2021/11/04 - 2021/11/06 | ICOTTS'21 International Conference on Tourism, Technology and Systems | |
| 2021/07/15 - 2021/07/17 | ICITED 21 International Conference in Information Technology & Education July 15-17, Sao Paulo, Brazil | |
| 2020/10/29 - 2020/10/31 | ICOTTS'20 International Conference on Tourism, Technology and Systems in Cartagena de Indias, Colombia | |
| 2019/12/05 - 2019/12/07 | ICOTTS 2019 International Conference on Tourism, Technology and Systems | https://www.icotts.org/committees |

## Distinctions

## Award

2025 Charles Manby Prize (ICE Awards 2025 - Institution of Civil Engineers UK)
Institution of Civil Engineers UK, United Kingdom