

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

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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 Concluded	Computer Science (Doktor (PhD)) 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. Technische Universiteit Eindhoven Department of Industrial Engineering & Innovation Sciences, Netherlands *"Service Selection and Ranking in Cross-Organizational*	Approved Max grade

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

Affiliation

Science

	Category Host institution/organization	Employer
2022/05/01 - Current	Researcher (Research) 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) 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 Grupo Lusófona, Portugal	ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal
2017 - Current	Researcher (Research) Instituto Politécnico do Porto, Portugal	Instituto Politécnico do Porto Centro de Estudos Organizacionais e Sociais, Portugal

Teaching in Higher Education

	Category Host institution/organization	Employer
2020/10/01 - Current	Adjunct Teacher (Polytechnic Teacher) 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) 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 Host institution/organization	Employer

2021/09/01 - Current	Organic Unit Director 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 WiseChain Principal investigator ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal	Erasmus Plus, Belgium Submitted
2023/01/02 - 2026/12/31	SOLVER ATE Programa para a Promoção da Saúde Mental no Ensino Superior (DGES) Researcher Grupo Lusófona, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Ongoing
2024/02/01 - 2026/01/31	Young2HL Youth Health Literacy KA210-VET-2E9DDE6B Researcher ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal	Erasmus Plus, Belgium Ongoing
2025/02/01 - 2026	Dynamic Growth: Financial Generation through Active Methodologies DGW Researcher ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal	Erasmus Plus, Belgium Submitted
2024 - 2026	Entrepreneur Digital Notebook IAPMEI Researcher 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 KA210-VET-DC272DF2 Researcher ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal	Erasmus Plus, Belgium Ongoing

2024/02/01 - 2025/01/31	Finance4youth 2023-1-PT01-KA210-VET-000164896 Research Technician Fellow ISLA - Gaia / Research Center, Portugal	Erasmus Plus, Belgium Ongoing
2022/07/01 - 2024/11/30	Scientifical Portal (Scientific Production Collection System) POCH-12-5312-FSE-000019 Principal investigator ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2022/05/02 - 2024/10/31	Blockchain and Digital Signature supporting remote assessment systems in a HEI POCH-02-5312-FSE-000019 Principal investigator ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded
2022/03/01 - 2023/08/31	Entrepreneurial Generation 2021-2-PT01-KA210-VET-000049223 Researcher ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal	Erasmus, Netherlands 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 UID/05422/2025 <style forecolor="#0000FF">10.54499/UID/05422/2025</style> Universidade Técnica do Porto, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Ongoing
2023/07/03 - 2024/12/31	Center of Organizational and Social Studies of Polytechnic of Porto UIDB/05422/2020 10.54499/UIDB/05422/2020 Instituto Politécnico do Porto, Portugal	Fundação para a Ciência e a Tecnologia, Portugal Concluded

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

Outputs

Publications

Book	1	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
	2	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.
	3	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
	4	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
	5	Lamas, Marco; Silva, F. O.; Goncalves, Helena; DUQUE, JORGE. *Converging Business Models With Digital Transition Strategies*. IGI Global. 2024. Accepted
	6	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; Mações, 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
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</style>.

Published • Open access • 10.2196/78174

13 Goncalves, Helena; Firmino Oliveira da Silva; Godinho, Manuel; Mações, Filipe; Magalhães, João; Magalhães, Frederico; Branco, Carlos; et al. "Translation and Cross-Cultural Adaptation of the International Hip Outcome Tool 12 and 33 into European Portuguese". *Orthopaedic SPOT* (2025): https://doi.org/10.82189/spot.57.

Published • https://doi.org/10.82189/spot.57

14 kirill Tatarnikov; Firmino Oliveira da Silva. "AI-POWERED CROWDSOURCING FOR INCLUSIVE PUBLIC TRANSPORT ACCESSIBILITY IN PORTUGAL". *Applied Computing 2025* (2025):

Published

15 Tender, Manuel; Couto, João Pedro; Fuller, Paul; Demian, Peter; Chow, Vivien; Vaughan, Alex; Silva, Firmino; Santos, Ricardo. "Using virtual reality for occupational safety and health in a UK tunnelling megaproject". *Proceedings of the Institution of Civil Engineers - Management, Procurement and Law* 177 4 (2024): 232-239. https://doi.org/10.1680/jmapl.23.00109.

Published • 10.1680/jmapl.23.00109

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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. 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.
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Other

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 Role	Degree Subject (Type) Institution / Organization
2025/07/30 - Current	Optimizing Organic Social Media Strategies for Online English Schools: A Data Analytics Approach Supervisor	MASTER'S DEGREE IN WEB TECHNOLOGY AND SYSTEMS ENGINEERING (Master) ISLA Gaia Instituto Politécnico de Gestão e Tecnologia, Portugal
2021/10/01 - Current	Physical Game with Augmented Reality Application support Supervisor of Catarina Marinho	Master in Interactive Media and Systems (Master) Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal
2021/10/01 - Current	Immersive environment in Augmented Reality Supervisor of António Correia	Master in Interactive Media and Systems (Master) Instituto Politécnico do Porto Escola Superior de Media Artes e Design, Portugal
2024 - 2025	Enhancing Financial Systems Through Blockchain A Design Sciece Research Supervisor	Engenharia de Tecnologias e Sistemas Web (Master) 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 Supervisor	Engenharia de Tecnologias e Sistemas Web (Master) 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 Supervisor	Engenharia de Tecnologias e Sistemas Web (Master) ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal
2024 - 2025	MICROFINANCE Supervisor	Engenharia de Tecnologias e Sistemas Web (Master) ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal

2023 - 2024	Intelligent Library management web-application Supervisor	Engenharia de Tecnologias e Sistemas Web (Master) 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 Supervisor	Engenharia de Tecnologias e Sistemas Web (Master) ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal
2023 - 2024	Development of an AI-based Chatbot for University Assistance "Enhancing Student and Professor Experience" Supervisor	Engenharia de Tecnologias e Sistemas Web (Master) 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 Supervisor	MESTRADO EM ENGENHARIA DE TECNOLOGIAS E SISTEMAS WEB (Master) ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal
2023/10/03 - 2023/10/03	Marketing 5.0: O impacto da Tecnologia no Marketing Supervisor	Mestrado em Engenharia das Tecnologias e Sistemas Web (Master) ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal
2021/10/01 - 2022/11/29	Jogo Educativo com Aplicação de Realidade Aumentada Supervisor	Mestrado em Sistemas e Media Interativos (Master) 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 Supervisor of Helena Gonçalves	Master in Interactive Media and Systems (Master) 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 Supervisor	Mestrado em Sistemas e Media Interativos (Master) 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 Supervisor of Paulo Victor	Master in Web Technologies and Systems Engineering (Master) ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal

2020/10/01 - 2022/10/18	BLOCKCHAIN AND REMOTE ASSESSMENT SYSTEM - A conceptual approach for plagiarism mitigation in the Higher Education Institutions Supervisor	MASTER OF ENGINEERING IN WEB TECHNOLOGIES AND SYSTEMS (Master) 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 Supervisor of André Costa	Master in Web Technologies and Systems Engineering (Master) 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 Supervisor	Sistemas e Media Interativos (Master) 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 Supervisor	Sistemas e Media Interativos (Master) 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. Supervisor	Sistemas e Media Interativos (Master) 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. Supervisor	Sistemas e Media Interativos (Master) 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 Supervisor	Negócio Eletrónico (Master) Instituto Politécnico do Porto Instituto Superior de Contabilidade e Administração do Porto, Portugal

Event organisation

	Event name Type of event (Role)	Institution / Organization
2025/07/17 - Current	CIAIQ2025 no ISLA Gaia (2025/07/17) 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,

	Conference (President of the Organising Committee)	Portugal
2025/07/15 - 2025/07/17	Organization of the: "14º Congresso iberoamericano de investigação QUALITATIVA" (2025/07/15 - 2025/07/17) 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) 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) 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) 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) 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 20240320 - Guidance for Applicants_ Erasmus KA210 & KA220 (2024 - 2024) Workshop (President of the Organising Committee)	ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal
2024 - 2024	WoS presentation - from Easy to Usefull (2024 - 2024) Seminar	ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal

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) 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) Symposium (President of the Organising Committee)	ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal

Event participation

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

2025/06/02 - 2025/06/04	GUNi Strategic Projects (Barcelona) Congress	GUNi Strategic Projects (Barcelona)
2025/03/10 - 2025/03/12	Businet Students Conference (Antuérpia - Bélgica) 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. Symposium	Day of Science / Symposium 2024 ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal
2022/03/09 - 2022/03/11	iSCSi - International Conference on Industry Sciences and Computer Sciences Innovation. Three panel Moderator Conference	iSCSi - International Conference on Industry Sciences and Computer Sciences Innovation. ISLA Instituto Politécnico de Gestão e Tecnologia, Portugal

Jury of academic degree

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

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

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

Committee member

	Activity description Role	Institution / Organization
2025/06/27 - Current	Congresso internacional ESSD Coordinator	

2025/06/17 - 2025/06/17	CISTI25 Moderador de painel 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