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Academic Qualifications

University/Institution	Type	Degree	Period
Instituto Superior Técnico - UTL	PhD	Engenharia Electrotécnica e Computadores	2010
Instituto Superior Técnico - UTL	M.Sc.	Engenharia Electrotécnica e Computadores	1999
Instituto Superior Técnico - UTL	Licenciate	Engenharia Electrotécnica e Computadores	1995
Instituto Superior Engenharia de Lisboa - IPL	Bachelor of Science	Engenharia Electrotécnica e Telecomunicações	1991

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2026/2027	2º	Telecommunication Systems Project	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2026/2027	2º	Development of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2026/2027	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technology and Sustainable Built Environment;	No
2026/2027	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2026/2027	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technologies and Automation;	No
2026/2027	1º	Conception and Viability of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2026/2027	1º	Information Processing	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2025/2026	2º	Telecommunication Systems Project	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2025/2026	2º	Development of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2025/2026	2º	Entrepreneurship and Innovation II		Yes
2025/2026	2º	Entrepreneurship and Innovation II		Yes
2025/2026	2º	Entrepreneurship and Innovation II		Yes
2025/2026	2º	Entrepreneurship and Innovation II	Bachelor Degree in Software and Applications Development;	Yes
2025/2026	2º	Entrepreneurship and Innovation II		Yes
2025/2026	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Educational Technologies;	Yes
2025/2026	2º	Service Design	Master Degree in Managing Digital Transformation in the Health Sector;	Yes
2025/2026	1º	Conception and Viability of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2025/2026	1º	Entrepreneurship and Innovation I		Yes

2025/2026	1º	Entrepreneurship and Innovation I		Yes
2025/2026	1º	Entrepreneurship and Innovation I		Yes
2025/2026	1º	Entrepreneurship and Innovation I		Yes
2025/2026	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development;	Yes
2025/2026	1º	Entrepreneurship and Innovation I		Yes
2025/2026	1º	New Ideas and Entrepreneurship	Other programme in Advanced Programa in Digital Health;	Yes
2025/2026	1º	Information Processing	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2024/2025	2º	Telecommunication Systems Project	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2024/2025	2º	Development of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2024/2025	2º	Entrepreneurship and Innovation II		Yes
2024/2025	2º	Entrepreneurship and Innovation IV		Yes
2024/2025	2º	Service Design	Master Degree in Managing Digital Transformation in the Health Sector;	No
2024/2025	2º	Introduction to Entrepreneurship in a Technology-based Project	Summer course in Introduction to entrepreneurship in a technology-based project;	Yes
2024/2025	2º	New Ideas and Entrepreneurship	Other programme in Advanced Programa in Digital Health;	Yes
2024/2025	1º	Conception and Viability of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2024/2025	1º	Entrepreneurship and Innovation I		Yes
2024/2025	1º	Entrepreneurship and Innovation III		Yes
2024/2025	1º	Information Processing		Yes
2023/2024	2º	Telecommunication Systems Project	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2023/2024	2º	Development of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes

2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technologies and Management; Bachelor Degree in Digital Technologies and Health;	Yes
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	Yes
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Mathematics Applied and Digital Technologies;	Yes
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technologies and Automation;	Yes
2023/2024	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Educational Technologies;	Yes
2023/2024	2º	New Ideas and Entrepreneurship	Other programme in Advanced Programa in Digital Health;	Yes
2023/2024	1º	Conception and Viability of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Management; Bachelor Degree in Digital Technologies and Health;	Yes
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	Yes
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Mathematics Applied and Digital Technologies;	Yes
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Technologies and Automation;	Yes
2023/2024	1º	Entrepreneurship and Innovation I	Bachelor Degree in Digital Educational Technologies;	Yes
2023/2024	1º	Introduction to Entrepreneurship in a Technology-based Project	Specialization Seminar in Introduction to Entrepreneurship in a Technology-based Project;	Yes
2023/2024	1º	Information Processing		Yes
2022/2023	2º	Development of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2022/2023	2º	Project in Digital Technologies I		Yes
2022/2023	2º	Project in Digital Technologies I		Yes
2022/2023	2º	Project in Digital Technologies I		Yes

2022/2023	2º	Project in Digital Technologies I		Yes
2022/2023	1º	Conception and Viability of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL);	Yes
2022/2023	1º	New Ideas and Entrepreneurship	Other programme in Advanced Programa in Digital Health;	Yes
2022/2023	1º	Information Processing		Yes
2021/2022	2º	Development of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2021/2022	1º	Conception and Viability of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2021/2022	1º	Information Processing		Yes
2020/2021	2º	Development of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2020/2021	1º	Conception and Viability of Technology-Based Project	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2020/2021	1º	Information Processing		Yes
2019/2020	2º	Research Methods in Innovation and Technology		Yes
2019/2020	2º	Radio Telecommunication Systems		Yes
2019/2020	1º	Information Processing		Yes
2018/2019	2º	Research Methods in Innovation and Technology		Yes
2018/2019	2º	Technological Entrepreneur Project in Internet of Things		Yes
2018/2019	2º	Radio Telecommunication Systems		No
2018/2019	1º	Information Processing		Yes
2017/2018	2º	Research Methods in Innovation and Technology		No
2017/2018	2º	Radio Telecommunication Systems		No
2017/2018	2º	Radio Telecommunication Systems		No

2017/2018	1º	Information Processing		Yes
2017/2018	1º	Information Processing		Yes
2016/2017	2º	Research Methods in Innovation and Technology		No
2016/2017	2º	Radio Telecommunication Systems		Yes
2016/2017	2º	Radio Telecommunication Systems		Yes
2016/2017	1º	Information Processing		Yes
2016/2017	1º	Information Processing		Yes
2015/2016	2º	Radio Telecommunication Systems		No
2015/2016	2º	Mobile Communications		No
2015/2016	1º	Seminário 2:Inovação Disruptiva - Novas Tecnologias E Implicações		Yes
2015/2016	1º	Information Processing		Yes
2015/2016	1º	Information Processing		Yes
2014/2015	2º	Radio Telecommunication Systems		No
2014/2015	2º	Mobile Communications		No
2014/2015	1º	Information Processing		Yes
2014/2015	1º	Information Processing		Yes
2013/2014	2º	Radio Telecommunication Systems		No
2013/2014	2º	Mobile Communications		No
2013/2014	1º	Information Processing		Yes
2013/2014	1º	Advanced Mobile Communications	Master Degree in Telecommunications and Computer Engineering;	No

Supervisions

- **Ph.D. Thesis**

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution

1	Vasco Rafael Jerónimo Velez	UAV Countermeasures using efficient RF Techniques	English	Developing	Iscte
2	António José Borges de Brito	Spectrum sensing and sharing in 5G systems in scenarios using small cells	English	Developing	Iscte
3	André Filipe Xavier da Glória	A novel and generalized technologic IoT solution for sustainability and environmental challenges supported by by ML algorithms	English	Developing	Iscte
4	António Sérgio Lima Raimundo	A new way to perform inspection plans using UAVs and artificial intelligence	English	Developing	Iscte
5	Arlindo Jorge de Jesus Ribeiro	The Twin Revolutions in Learning and Labor: Navigating AI's Integration into Educational and Organizational Ecosystems	English	Developing	Iscte
6	David Gomes	Gestão eficiente e flexível do espectro radioelétrico para zonas insulares: a partilha dinâmica-conceitos e governança	Portuguese	Developing	Iscte
7	João Filipe de Quadros Gaspar	A new way to protect areas of unauthorized drones trough communications spoofing and beamforming	English	Developing	Iscte
8	Diogo João Alves Clemente	Machine leaning system for self organised radio resource management - a cloud based implementation	English	Developing	Iscte
9	António José Borges de Brito	Spectrum Sharing and Sensing for Cognitive Radio in Future Networks	English	Developing	Iscte
10	Marcio Silva Santos	Securing IoT: Industrial and smart home platforms. A model approach to secure heterogeneous devices	English	Developing	Iscte
11	Stefan Postolache	Measuring and Predicting Nutrient Retention using an Intelligent Information System	English	Developing	Iscte
12	Luis Gonçalves	--	English	Developing	Iscte
13	Pedro Sousa Romano	Leveraging Fine-Tuned Large Language Models for Automated Open-Response Assessment in Educational Environments	English	Developing	Iscte
14	Filipe Casal Ribeiro	--	English	Developing	Iscte
15	João Neves	--	English	Developing	Iscte

16	Fareeha Sarwar	An Application of Deep Learning to Healthcare	English	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Hamed Farkhari	AI based Cybersecurity enhancement in 5G networks	English	Iscte	2025
2	Chen Rong	Operation and Management Optimization on Data-Driven Intelligent Parking Reservation Platform	English	Iscte	2025
3	Vasco Rafael Jerónimo Velez	Design and Integration of novel transmission techniques for coverage, power consumption and data improvements in wireless communication networks	English	Iscte	2024
4	Renato Branco Almeida Ferreira	Anti-UAV mobile system with jamming and spoofing capabilities to intercepting and controlling target-drones	English	Iscte	2023
5	António Sérgio Lima Raimundo	A new way to perform inspection plans using Computer Vision and Deep Learning	English	Iscte	2023
6	André Filipe Xavier da Glória	Sustainable Modular IoT Solution for Smart Cities Applications Supported By Machine Learning Algorithms	English	Iscte	2021
7	Luís Carlos Barruncho dos Santos Gonçalves	Improved Planning and Resource Management in Next Generation Green Mobile Communication Networks	English	Iscte	2020

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	João Luís Valente Camacho	Universal telecommunication system for emerging countries of the CPLP-Community of Portuguese Language Countries	--	Developing	Iscte
2	Tiago Ramos Faria	Automatic Parameter Otimization	--	Developing	Iscte
3	Tomás Leal Pereira	Digital platform to support farmers with artificial intelligence intervention	--	Developing	Iscte
4	Gonçalo de Lima Fonseca Amaral Couto	Optimization of Capacity and Coverage in Mobile Networks	--	Developing	Iscte

5	Eduardo António Grangeia dos Santos Rei	Defining the requirements for the development of an AI-assisted teletriage app: perceptions of the clinical staff	--	Developing	Iscte
6	Pedro Trogeira Cruz	Automatic Optimization of Reuse Codes for KPI Improvement in 3G, 4G, and 5G Networks	--	Developing	Iscte
7	Alexandre Mamede Martins Rodrigues	Virtual Drive Test – Development of Geolocation Methods Based on Signal Measurements for Cellular Networks	--	Developing	Iscte
8	Tiago Afonso de Sousa Afonseca	Optimization of Neighbour Relations and Anomaly Detection in Mobile Networks using Machine Learning	--	Developing	Iscte
9	Vasco Mendes Baleia	Intelligent Automation for Compliance Remediation in Guidewire Cloud Deployments	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Constança Guapo Bação Carvalho Domingos	Resource Management and Investment Options	Portuguese	Iscte	2025
2	João Pedro Vieira Montez	The Impact of Short Term Rentals on the Economy	Portuguese	Iscte	2025
3	Tiago Miguel Martins Felício	Multispectral Imaging Applied to Precision Agriculture	English	Iscte	2025
4	Bruno Filipe Santos Saraiva	Data Analysis for Precision Agriculture	English	Iscte	2024
5	Diogo Filipe Bento Prata Pina	On the Low-Code Premise: OutSystems and Mendix for Real-World Enterprise Applications	English	Iscte	2024
6	Epifânio António de Araújo	Planning of Private 5G Network at the Zango 8000 Health Institute.	Portuguese	Iscte	2024
7	Gustavo Laginha Santos Ferreira	A Deep Learning Toolkit for Water Stress Detection in Viticulture	English	Iscte	2024
8	Diogo Maria Pinto do Souto Cardoso	BUSINESS PLAN AND E-HEALTH	Portuguese	Iscte	2024
9	Joaquina Daniela Lages Abreu	Digital Transformation for Sustainable Agriculture	Portuguese	Iscte	2023
10	Diogo Filipe Guedes Soares	SoilIoT - IoT for Precision Agriculture - Soil characteristics monitoring	English	Iscte	2023

11	Carolina Aguiar Campos	The user's perspective on the ethics of artificial intelligence systems	Portuguese	Iscte	2023
12	Eduardo Filipe da Cruz Mota Ferreira	Development of integraded platform for planning terrestrial and satellite communication systems	English	Iscte	2022
13	Flávio Alexandre Braga Cabral	System Level Simulation for Drone Communications	Portuguese	Iscte	2022
14	Francisco José dos Santos Negrier Raimundo	Improve Irrigation Sustainability using Machine Learning	Portuguese	Iscte	2021
15	Beatriz Carolina Duque Dias	Heterogeneous Communication Scheme for IoT Smart Nodes	English	Iscte	2021
16	Raúl Emilio Fretes Dias Romero	An Exploratory Research on the Impact of IoT and 5G Technology in the Climate Policymaking Process	English	Iscte	2021
17	Raúl Emilio Fretes Dias Romero	An Exploratory Research on the Impact of IoT and 5G Technology in the Climate Policymaking Process	English	Iscte	2021
18	Maria Inês Soares de Matos dos Santos Pires	Intelligent rainwater reuse system for irrigation	English	Iscte	2020
19	João Miguel de Jesus Alves Coelho	Machine Learning for precise water leaks detection	English	Iscte	2020
20	João Miguel Botas Cardoso	SmartFarm: Improve Sustainability using Wireless Sensor Networks	English	Iscte	2020
21	Karla Valentina de Freitas Lara	Jammers for Mobile Cellular Systems applied to unauthorized UAVs	English	Iscte	2020
22	João Francisco Diogo Almeida Lopes Martins	Water stress analysis system for vineyard applications supported by uavs	Portuguese	Iscte	2020
23	Jorge Rafael Cunha Santos	An effective and efficient web platform for monitoring, control, and management of drones supported by a new microservices approach	English	Iscte	2020
24	Francisco Mateus Valente Matos Silva	Digital platform for psychological assessment supported by sensors and efficiency algorithms	English	Iscte	2020
25	Filipe Manuel Nogueira Afonso	System to Monitor Pets Remotely.	Portuguese	Iscte	2020
26	André Frias Godinho	Efficient algorithm for frequency planning of mobile cellular networks, supported by linear programming	Portuguese	Iscte	2020

27	Paulo Vitor Mateus de Pina	System for the optimization of neighbour relation estimation in mobile networks based on geographical coverage	Portuguese	Iscte	2020
28	Carlos Miguel Domingues Saraiva	AUTONOMUS ENVIROMENTAL PROTECTION DRONE	English	Iscte	2019
29	Gonçalo Alexandre Rodrigues Simões	Smart System for Control and Monitoring of Swimming Pools	English	Iscte	2019
30	Ricardo Jorge Gomes da Silva Almeida	Supervisor Virtual Machine for VoLTE Service on a Cloud Environment	English	Iscte	2019
31	Ana Gisela Duarte Madruga	Characterization of a Global 4G Mobile Communications Network Using the Commercial Aircraft Network	English	Iscte	2019
32	Rodrigo Ramalho de Lobato Cortesão	Efficient Cloud-based Cellular Planning Algorithms for 3G and 4G Networks	English	Iscte	2019
33	Carolina Aparício Dionísio	Distributed sensing solution for home efficiency tracking	English	Iscte	2019
34	Diogo Dias dos Santos	Wireless UAV Restraining System	English	Iscte	2019
35	João Pedro de Castro Ponte	Intentional control of invasive wireless mobile systems	English	Iscte	2019
36	Pedro Emanuel da Conceição Semedo	Study of the interference in mobile communications	Portuguese	Iscte	2019
37	Kankho Sefo Maria Barros	Interference Analysis at the new Luanda Airport	Portuguese	Iscte	2019
38	Carlos Miguel Domingues Saraiva	AUTONOMUS ENVIROMENTAL PROTECTION DRONE	English	Iscte	2019
39	Carolina Aparício Dionísio	Distributed sensing solution for home efficiency tracking	English	Iscte	2019
40	Gonçalo Alexandre Rodrigues Simões	Smart System for Control and Monitoring of Swimming Pools	English	Iscte	2019
41	Ricardo Jorge Gomes da Silva Almeida	Supervisor Virtual Machine for VoLTE Service on a Cloud Environment	English	Iscte	2019
42	Marcio Silva Santos	Competitive product development for a data and application security	Portuguese	Iscte	2018
43	Domingos Garcia da Silva	IMS SOLUTIONS FOR THE PROVISION OF TELECOMMUNICATIONS SERVICES IN AD HOC ENVIRONMENTS	Portuguese	Iscte	2018
44	Ansumane Mané	Optimization of the Methodology of Configuration of Mobile Communication Networks	English	Iscte	2018
45	João Filipe de Quadros Gaspar	UAVS Capture Through GPS Signal Spoofing	Portuguese	Iscte	2018

46	Diogo Alexandre Rodrigues Lopes	Universal Internet of Things System Powered by FIWARE	English	Iscte	2018
47	Diogo João Alves Clemente	Efficient algorithms for energy management of base stations of mobile communication systems	Portuguese	Iscte	2018
48	Miriam Raquel da Silva Mamede Batista	WearIoT - Wearable IoT Human Emergency System	English	Iscte	2018
49	Henrique Braga Ferreira	Intelligent Irrigation Management System Supported in Low Cost IoT	Portuguese	Iscte	2018
50	António José Borges de Brito	Jamming for unauthorised UAV operations- Communications link	Portuguese	Iscte	2018
51	Vasco Rafael Jerónimo Velez	Implementation of Unauthorized Zones for UAVs using GPS spoofing	Portuguese	Iscte	2018
52	Renato Branco Almeida Ferreira	GPS Jamming Techniques for UAVs	Portuguese	Iscte	2018
53	Felisberto Varela Monteiro	Planeamento Otimizado para Implementação da TDT em Cabo Verde: Caso de Estudo Ilha de Santiago.	Portuguese	Iscte	2018
54	Nuno Gonçalo Matos Pardal	Sistema de Monitorização Biométrica e de Assistência Médica 4G	Portuguese	Iscte	2017
55	Diogo Alexandre Martins da Silva	GPS Jamming and Spoofing using Software Defined Radio	English	Iscte	2017
56	Filipe Carreiro Soares	Estudo e cálculo da órbita lunar aplicada a comunicações EME	Portuguese	Iscte	2017
57	André Miguel Pato Carvalho	Gamificação no Marketing aplicando modelação inteligente e processos estocásticos.	Portuguese	Iscte	2017
58	Tiago Miguel de Matos Ribeiro	SMR Sistema de Monitorização Remoto ("stand-alone")	Portuguese	Iscte	2017
59	Tiago Miguel Simão Caria	Design and Implementation of Reliable Unnamed Aerial System Design	English	Iscte	2017
60	Diogo Rafael Baptista Peres	Generalized software application for operation of a 3D vehicle in air, water and land.	English	Iscte	2017
61	André de Sousa Silvério	Propagation Model for Cellular Mobile Networks user in UAVS Communication Environments	English	Iscte	2017
62	Bruno Assunção Ricardo	Mecanismos de segurança para operação fiável para veículos 3D	Portuguese	Iscte	2017
63	Filipe Miguel Ferreira Cardiga	Reliable Communication System for 3D Vehicles using Heterogeneous Networks	English	Iscte	2016

64	Nuno Miguel Amorim dos Santos	Software platform to control squads of unmanned vehicles in real-time	English	Iscte	2016
65	António Sérgio Lima Raimundo	Autonomous Obstacle Collision Avoidance System for UAVs in Rescue Operations	English	Iscte	2016
66	Carlos Manuel Nunes Lima	Previsão de consumo de energia elétrica em contexto de Smart Grids	Portuguese	Iscte	2015
67	Filipe João Oca Cheléu Simões Vieira	Análise à qualidade da rede Wlan do ISCTE-IUL	Portuguese	Iscte	2015
68	Luís Carlos Margaço Murilhas	"Development of a new system to control and monitor ground vehicles using heterogeneous wireless networks."	English	Iscte	2015
69	Tiago Martins Saraiva	Reliable Air-to-Ground Communication for Low Altitude Unnamed Aerial Vehicles	English	Iscte	2015
70	Gonçalo Miguel da Silva Horta	Planning tool for fiber optic communication systems: Acess and Transport network	English	Iscte	2015
71	Luís Carlos Margaço Murilhas	New system to drive future vehicles supported by heterogeneous wireless networks	English	Iscte	2015
72	Filipe João Oca Cheléu Simões Vieira	Otimização de uma rede académica WIFI com a comparação de resultados de modelos estocásticos e data-mining.	English	Iscte	2015
73	Tiago Filipe Lopes Tavares	Generalized LUI propagation model for UAV communications using terrestrial celular nettworks	English	Iscte	2014
74	Eduardo Francisco Branco Cercas	Efficient and Green Simulation Technique for Telecommunication Systems	English	Iscte	2013
75	Filipe José Antunes Silva Moreno Vaz	Technical, Financial and Environmental Evaluation of 4G Long TTerm Evolution - Advanced With Femtocell Base Stations	English	Iscte	2013
76	José Albuquerque Jardim Figueira	Ferramenta de Planeamento e Simulação para LTE - A com Fentocélulas considerando um Sistema Multiagente	Portuguese	Iscte	2012
77	Gonçalo Jorge Domingues Bastos	Generalização do modelo de propagação LUI e Cenários com Tuneis para as Tecnologias WI-FI, GSM, UMTS, WIMAX e LTE	Portuguese	Iscte	2012
78	Miguel André Viegas da Costa	--	--	Iscte	2011

• M.Sc. Final Projects

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Vasco Henrique Martínez Pestana	Business Plan - Keep it Safe 24/7	English	Iscte	2024
2	Eteldilaide Manuel do Espírito Santo Ferreira	Creation of sustainable business for the production and sale of reusable sanitary pads in São Tomé and Príncipe	Portuguese	Iscte	2023
3	Nuno Antonio do Sacramento Penacho Pereira da Silva	A Construção Robotizada em Arquitetura.	Portuguese	Iscte	2017

Total Citations

Web of Science®	695
Scopus	1116

Publications

• Scientific Journals

- Scientific journal paper

1	Postolache, S., Sebastião, P., Viegas, V. & Postolache, O. (2025). Digital twin for horticulture farm: Data source and data domain architecture. IEEE Instrumentation and Measurement Magazine. 28 (4), 22-30 - Times Cited Scopus: 1
2	Postolache, S., Sebastião, P., Viegas, V. & Postolache, O. (2025). Digital twin for horticulture farm: Concept and requirements. IEEE Instrumentation and Measurement Magazine. 28 (1), 14-22 - Times Cited Web of Science®: 6 - Times Cited Scopus: 6 - Times Cited Google Scholar: 1
3	Viana, J., Farkhari, H., Sebastião, P., Campos, L. M., Koutlia, K., Bojovic, B. ...Dinis, R. (2024). Deep attention recognition for attack identification in 5G UAV scenarios: Novel architecture and end-to-end evaluation. IEEE Transactions on Vehicular Technology. 76 (1), 131-146 - Times Cited Web of Science®: 19 - Times Cited Scopus: 19 - Times Cited Google Scholar: 10
4	Postolache, S., Sebastião, P., Viegas, V., Dias Pereira, J. M & Postolache, O. (2023). Empathizing with plants in tropical botanical garden through IoT instrumentation for air and soil characteristics monitoring. IEEE Instrumentation and Measurement Magazine. 26 (7), 41-52 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1

5	Ferreira, E., Sebastião, P., Cercas, F., Costa, C. & Correia, A. (2023). An optimized planning tool for microwave terrestrial and satellite link design. Future Internet. 15 (2) - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 3
6	Raimundo, A., Pavia, J. P., Sebastião, P. & Postolache, O. (2023). YOLOX-Ray: An efficient attention-based single-staged object detector tailored for industrial inspections. Sensors. 23 (10) - Times Cited Web of Science®: 9 - Times Cited Scopus: 13 - Times Cited Google Scholar: 18
7	Velez, V., Pavia, J. P., Souto, N., Sebastião, P. & Correia, A. (2023). Performance assessment of a RIS-empowered post-5G/6G network operating at the mmWave/THz bands. IEEE Access. 11, 49625-49638 - Times Cited Web of Science®: 10 - Times Cited Scopus: 13 - Times Cited Google Scholar: 13
8	Viana, J., Madeira, J., Nidhi, Sebastião, P., Cercas, F., Mihovska, A....Dinis, R. (2022). Increasing reliability on UAV fading scenarios. IEEE Access. 10, 30959-30973 - Times Cited Web of Science®: 13 - Times Cited Scopus: 13 - Times Cited Google Scholar: 17
9	Pavia, J. P., Velez, V., Souto, N., Ribeiro, M., Sebastião, P. & Correia, A. (2022). System-level assessment of low complexity hybrid precoding designs for massive MIMO downlink transmissions in beyond 5G networks. Applied Sciences. 12 (6) - Times Cited Web of Science®: 3 - Times Cited Scopus: 4 - Times Cited Google Scholar: 7
10	Branco Ferreira, R., Gaspar, J., Sebastião, P. & Souto, N. (2022). A software defined radio based anti-UAV mobile system with jamming and spoofing capabilities. Sensors. 22 (4) - Times Cited Web of Science®: 35 - Times Cited Scopus: 50 - Times Cited Google Scholar: 70
11	Velez, V., Pavia, J. P., Rita, C., Gonçalves, C., Souto, N., Sebastião, P....Correia, A. (2022). System-level assessment of a C-RAN based on generalized space–frequency index modulation for 5G new radio and beyond. Applied Sciences. 12 (3) - Times Cited Web of Science®: 6 - Times Cited Scopus: 5 - Times Cited Google Scholar: 9
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57	Sebastião, P. J. A., Cercas, F. A. B. & Cartaxo, A. V. T. (2002). Performance of TCH codes in a land mobile satellite channel. In The 13th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2002). (pp. 1675-1679). Lisboa: IEEE. - Times Cited Web of Science®: 2 - Times Cited Scopus: 4 - Times Cited Google Scholar: 3
58	Cercas, F. A. B., Cartaxo, A. V. T. & Sebastião, P. J. A. (1999). Performance of TCH codes with independent and burst errors using efficient simulation techniques. In IEEE Vehicular Technology Conference. (pp. 2536-2540). Amesterdão: IEEE. - Times Cited Scopus: 2 - Times Cited Google Scholar: 4

- Talk

1	Sarwar, F., Garrido, N., Sebastião, P. & Margarida Silveira (2025). Enhanced Multiple Instance Learning for Breast Cancer Detection in Mammography: Adaptive Patching, Advanced Pooling, and Deep Supervision. Annu Int Conf IEEE Eng Med Biol Soc.
2	Martins, S., Garrido, N. & Sebastião, P. (2023). Port request classification automation through NLP. CENTERIS – International Conference on ENTERprise Information Systems / ProjMAN – International Conference on Project MANagement / HCist – International Conference on Health and Social Care Information Systems and Technologies.
3	Sarwar, F., Garrido, N., Sebastião, P. & Rehan, A. (2023). Examination of unremitting kidney illness by utilizing machine learning classifiers. Multi Conference on Computer Science and Information Systems.
4	Postolache, S., Sebastião, P., Viegas, V. & Postolache, O. (2023). IoT Smart Sensor System for Soil Characteristics Monitoring in a Vineyard. International Scientific Conference .
5	Matos, M., Martins, H., Oliveira, J., Sebastião, P., Ricardo Viegas, Bernardes, S.F....Purificação, S. (2022). PatientsUp : Um processo colaborativo para inovações em saúde. III Jornadas de Saúde societal.
6	Fonseca, S. & Sebastião, P. (2021). EMOTECHIE SERIOUS PLAY: DEVELOPMENT AND PROMOTION OF AN ECOSYSTEM OF SOCIAL AND EMOTIONAL LEARNING USING INNOVATIVE TECHNOLOGY. EDULEARN'21 (13th annual International Conference on Education and New Learning Technologies).
7	Monteiro, J., Pintassilgo, S., Paio, A., Carvalhosa, S., Pedro, N. & Sebastião, P. (2019). Ambientes de Aprendizagem Ativos e Colaborativos no Ensino Superior: construção participativa no caso do ISCTE-Instituto Universitário de Lisboa. CNaPPES 2019.
8	Ponte, J., Ponte, J., Cercas, F., Sebastião, P., Sanguino, J & Dias, R. (2019). GPS Data Alteration for Use in a Position Spoofing. ConfTele 2019 - 11th Conference on Telecommunications.
9	L. Gonçalves, Sebastião, P., Correia, A. & Nuno Souto (2016). 5G Mobile Challenges: A Feasibility Study on Achieving Carbon Neutrality. Proceedings of International Conference of Telecommunications, ICT2016. - Times Cited Scopus: 3

10	Pedro Pedroso, Cercas, F. & Sebastião, P. (2015). Educational Satellite Tracking Station . Conftele 2015 - 10th Conference on Telecommunications.
11	Saraiva, T., L. Murilhasd, Sebastião, P., Nuno Souto & Correia, A. (2015). Reliable Air-to-Ground communication for low altitude Unnamed Aerial Vehicles. Proceedings of Conftele 2015.
12	Gonçalo Horta, Sebastião, P., Rebola, J. & Cercas, F. (2015). Efficient planning tool for fiber optic communication systems: access and transport network. Conf. on Telecommunications - ConfTele, Aveiro, Portugal.
13	L. Murilhasd, Saraiva, T., Sebastião, P., Souto, N., Cercas, F. & Correia, A. (2015). Development of a new system to control and monitor ground vehicles using heterogeneous wireless networks. Conftele 2015 - 10th Conference on Telecommunications.
14	L. Murilhasd, Saraiva, T., Sebastião, P., Nuno Souto, Cercas, F. & Correia, A. (2015). Development of a new system for drive future ground vehicles supported by heterogeneous wireless networks. Proceedings of Contele 2015.
15	Gil Dias, Correia, A., Souto, N., Nuno Souto & Sebastião, P. (2015). Performance of networked femtocells with the interference of LTE-A macrocells. Conference on Telecommunications, Conftele.

• Other Publications

- Non-peer-reviewed papers

1	Sebastião, P. & Correia, A. (2011). O que é a tecnologia LTE. Comunicações (APDC). Maio (25), 26-28

- Other publications

1	Sebastião, P. & Simões, Gonçalo Alexandre Rodrigues (2019). Smart system for control and monitoring of swimming pools.
2	Sebastião, P. & Semedo, Pedro Emanuel da Conceição (2019). Estudo de interferências nas comunicações móveis.
3	Sebastião, P. & Dionísio, Carolina Aparício (2019). Distributed sensing solution for home efficiency tracking.
4	Raimundo, A. & Sebastião, P. (2019). Exploring New Ways to Perform Inspection Plans using UAVs and Artificial Intelligence. ConfTele.
5	Sebastião, P. & Barros, Kankho Sefo Maria (2019). Análise de interferência no novo aeroporto de Luanda.
6	Sebastião, P. & Almeida, Ricardo Jorge Gomes da Silva (2019). Supervisor virtual machine for VoLTE service on a cloud environment.
7	Sebastião, P. & Santos, Diogo Dias dos (2019). Wireless UAV restraining system.
8	Sebastião, P., Ponte, J. & Ponte, J. (2019). Intentional control of invasive mobile wireless systems.
9	Clemente, D. & Sebastião, P. (2018). Algoritmos eficientes para gestão energética das estações base de sistemas de comunicação móveis.

10	Sebastião, P. & Ferreira, Henrique Braga (2018). Sistema de gestão de rega inteligente suportado em IoT de baixo custo.
11	Sebastião, P. & Santos, Márcio Silva (2018). Desenvolvimento de produto competitivo para a área de gestão de segurança de dados e aplicações.
12	Sebastião, P. & Gaspar, João Filipe de Quadros (2018). Captura de UAVS através de spoofing de sinal GPS.
13	Sebastião, P. & Brito, António José Borges de (2018). Técnicas de bloqueio para operações não autorizadas de UAV link de comunicações.
14	Sebastião, P. & Batista, Miriam Raquel da Silva Mamede (2018). WearIoT: swearable IoT human emergency system.
15	Velez, V. & Sebastião, P. (2018). Implementação de zonas de acesso proibido para UAVs usando spoofing de sinais GPS.
16	Sebastião, P. & Branco Ferreira, R. (2018). Técnicas de Jamming GPS para UAVs não autorizados. Técnicas de Jamming GPS para UAVs não autorizados.
17	Sebastião, P. & Lopes, Diogo Alexandre Rodrigues (2018). Universal internet of things system powered by FIWARE.
18	Sebastião, P. & Monteiro, Felisberto Varela (2018). Planeamento otimizado para implementação da TDT em Cabo Verde: caso de estudo Ilha de Santiago.
19	Sebastião, P. & Mané, Ansumane (2018). Optimization of the methodology of configuration of mobile communication networks.
20	Sebastião, P. & Silva, Domingos Garcia da (2018). Soluções IMS para aprovisionamento de serviços de telecomunicações em ambientes AD HOC.
21	Sebastião, P. & Carvalho, André Miguel Pato (2017). Gamificação no marketing aplicando modelação inteligente e processos estocásticos.
22	Sebastião, P. & Caria, Tiago Miguel Simão (2017). Design and implementation of a reliable unmanned aerial system design.
23	Sebastião, P. & Ricardo, Bruno Assunção (2017). Safety mechanisms for the reliable operation of 3D vehicles.
24	Sebastião, P. & Peres, Diogo Rafael Baptista (2017). Generalized software application for operation of a 3D vehicle in air, water and land.
25	Sebastião, P. & Silva, Nuno António do Sacramento Penacho Pereira da (2017). A construção robótica em Arquitetura.
26	Sebastião, P. & Silva, Diogo Alexandre Martins da (2017). GPS jammimg and spoofing using software defined radio.
27	Sebastião, P. & Ribeiro, Tiago Miguel de Matos (2017). SMR: sistema de monitorização remoto ("stand-alone").

28	Sebastião, P. & Pardal, Nuno Gonçalo Matos (2017). Sistema de monitorização biométrica e de assistência médica 4G.
29	Sebastião, P. & Santos, Nuno Miguel Amorim dos (2016). Software platform to control squads of unmanned vehicles in realtime.
30	Sebastião, P. & Cardiga, Filipe Miguel Ferreira (2016). Reliable communication system for 3D vehicles using heterogeneous networks.
31	Sebastião, P. & Vieira, Filipe (2015). Análise à qualidade da rede WLAN do ISCTE.
32	Sebastião, P. & Murilhas, Luis Carlos Margaço (2015). Development of a new system to control and monitor ground vehicles using heterogeneous mobile networks.
33	Saraiva, T. & Sebastião, P. (2015). Reliable air to ground communications for low altitude unmanned aerial vehicles.
34	Sebastião, P. & Gonçalo Horta (2015). Planning tool for fiber optic communication systems: access and transport network.
35	Sebastião, P. & Sá, Sofia Margarida Rosa de (2011). Algoritmo para desenvolver uma ferramenta de planeamento para o sistema de comunicações móveis LTE.
36	Sebastião, P. & Sebastião, Rui Pedro Rodrigues (2011). Solving unstructured classification problems with multicriteria decision aiding.
37	Sebastião, P. & Brito, Jose Marcos Camara (1998). Multiplo acesso em redes de telecomunicações.

- Report

1	Alexandre, J., Almeida, S., Santos, R., Sebastião, P. & Mauro Santos (2023). Estudo sobre o Impacto das Ações de Sensibilização em Cibersegurança.

Research Projects

Project Title	Role in Project	Partners	Period
Adaptive system for crowding monitoring using user's devices fingerprinting	Researcher	IT-Iscte, ISTAR-Iscte (RAISE), IT - Leader (Portugal)	2024 - 2026
Master's Degree of Managing Digital Transformation in the Health Sector	Researcher	Iscte - Leader, LAUREA - (Finland), AUTH - (Greece), UNI EIFFEL - (France), IT-IUL - (Portugal), Clinipower - (Finland), Whymob - (Portugal), MundiConsulting - (Portugal)	2023 - 2026

Smart and Sustainable Drone-assisted Viticulture Excellence Network	Researcher	BRU-Iscte, IT-Iscte, AUA - Leader (Greece), Future Needs - (Cyprus), HDRON - (Greece), Dronint - (Cyprus), Casa do Joa - (Portugal), ALMADESIGN - (Portugal), Ramilo Wines - (Portugal), Agroecologia - (Greece), AWC - (Portugal), WALTR - (France)	2022 - 2025
Trailblazing Inclusive, Sustainable and Resilient Cities	Researcher	Iscte - Leader, TH KOLN - (Germany), LAUREA - (Finland), UNI EIFFEL - (France), UNIZA - (Slovakia)	2023 - 2024
Relaunching European smart and SustainablE Tourism models Through digitalization and INnovative technoloGies	Researcher	ISTAR-Iscte, BRU-Iscte, IT-Iscte, EURECAT - Leader (Spain), TICSUD - (Spain), FEHT-Turism - (Spain), - - (Italy), ANHER - (Greece), Albanian Trip - (Albania), AUDAX - (Portugal)	2022 - 2024
Strengthening Migrant Integration through cooperation between Portugal and Cabo Verde	Researcher	BRU-Iscte (M&M) - Leader, CIES-Iscte, IT-Iscte	2021 - 2024
DIGI-SOC - Digital skills and cross-domain entrepreneurship for societal challenges, KA220-HED - Cooperation partnerships in higher education | ERASMUS+ 2021-2023	Researcher	IT-Iscte, BRU-Iscte, Unibo (IT) - (Italy), INRAE - (France), UAB - (Spain), UNIL - (Switzerland), TUKE - (Slovakia), MIUN - (Sweden), CZI - Leader (Poland), EUBA - (Slovakia), TAMK - (Finland)	2021 - 2023
Innovation for Social Entrepreneurship	Researcher	BRU-Iscte (M&M), IT-Iscte, DINAMIA'CET-Iscte, Association Culturelle des Jeunes Turcs de Bar le Duc - Leader (France)	2021 - 2023
Siza ATLAS: filling the gaps for World Heritage	Researcher	ISTAR-Iscte (DLS) - Leader, IT-Iscte, DINAMIA'CET-Iscte, FAUP - (Portugal), ESG - (Portugal)	2021 - 2023
Soluções inteligentes para uma agricultura sustentável, preditiva e autónoma	Local Coordinator	IT-Iscte, IT-Iscte, TOMIX - Leader (Portugal), Adega Cooperativa São Mamede da Ventosa, CRL - (Portugal), Centro Operativo e Tecnológico Hortofrutícola Nacional - (Portugal), FCUL - (Portugal), Associação para a Valorização Agraria - (Portugal), Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa - (Portugal), FLOWAKE - (Portugal), IMPACTWAVE - (Portugal), INESC TEC - (Portugal), Instituto Nacional de Investigação Agrária e Veterinária, I.P. - (Portugal), IPL - (Portugal), Laboratório Colaborativo para a Inovação Digital na Agricultura - (Portugal), Luis Vicente - (Portugal), OPTIMIZEPLANET - (Portugal)	2020 - 2023
A Bridge Between Emotinal Learning and Technology	Researcher	CIS-Iscte (CED), IT-Iscte, Budapest III. Kerületi Dr. Szent-Györgyi Albert Általános Iskola - (Hungary), DIMOTIKO SHOLEIO AGROKIPIOU - (Greece), Agrupamento de Escolas Alto do Lumiar - Leader (Portugal), Associação Jardim Escola João de Deus - (Portugal), SOCIEDAD COOPERATIVA LA ALCAYNA - (Spain)	2019 - 2022

New RAN TEchniques for 5G UltrA-dense Mobile networks	Local Coordinator	IT-Iscte	2019 - 2022
Otimização Conjunta de Transmissão Hertziana e Óptica Privilegiando o Utilizador e Seu Ambiente	Local Coordinator	IT-Iscte	2018 - 2020
Carrier Aggregation between Licensed Exclusive and Licensed Shared Access Frequency Bands in Heterogeneous Networks with Small Cells	Local Coordinator	IT-Iscte	2018 - 2019
Technology and innovation management master	Researcher	IT-Iscte, BRU-Iscte (OB&HR), CIS-Iscte (CED), UAB - (Spain), Unibo (IT) - (Italy), AMU (FR) - (France), PUCP (PE) - (Peru), UPCH (PE) - (Peru), FUSP (BR) - (Brazil), UnMdP (AR) - (Argentina), UFRN (BR) - (Brazil), UnLu (Argentina) - Leader (Argentina)	2017 - 2020
Orquestracao Automatica Energeticamente Eficiente de Redes Moveis Optimizando a Qualidade de Experiencia	Researcher	IT-Iscte	2017 - 2019
Remote Piloted Semi-Autonomous Aerial Surveillance System Using Terrestrial Wireless Networks	Researcher	IT-Iscte	2012 - 2014
LTE-Advanced Enhancements using Femtocells	Researcher	IT-Iscte	2012 - 2014
Satellite Ground Station for Study and Development of Radio Communications	Researcher	IT-Iscte	2018
Mobile IP for Broadband Wireless Metropolitan Area Networks	Local Coordinator	IT-Iscte	2005 - 2007
Broadcasting and Multicasting Over Enhanced UMTS Mobile Broadband Networks	Researcher	IT-Iscte, PTIN - Leader (Portugal)	2004 - 2006

Academic Management Positions

Coordenador do 2º Ano (2025 - 2026)
Unit/Area: Bachelor Degree in Digital Technologies and Automation

Membro (Docente) (2025 - 2028)
Unit/Area: Comissão Científica

Membro (Docente) (2022 - 2024)
Unit/Area: Comissão Científica

Membro (Docente) (2016 - 2019)
Unit/Area: Comissão Científica

Membro (Docente) (2016 - 2019)
Unit/Area: Plenário da Comissão Científica

Coordenador (2011 - 2012)
Unit/Area: Department of Information Science and Technology

Awards

Prémio Científico 2018 (2018)

Prémio Pedagógico 2017 (2017)

Prémio Pedagógico 2015 (2015)

Prémio Inovação Jovem Engenheiro 1998 (1998)

Premio Nacional de Manutenção Industrial (1991)