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## Octavian Adrian Postolache

### Professor Catedrático

Instituto de Telecomunicações - IUL  
Department of Information Science and Technology (ISTA)



### Contacts

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### Curriculum

Dr. Octavian Adrian Postolache is graduated in Electrical Engineering at the Gh. Asachi Technical University of Iasi, Romania, in 1992 and he received the PhD degree in 1999 from the same university, and university habilitation in 2016 from Instituto Superior Tecnico, Universidade de Lisboa, Portugal. In 2000 he became principal researcher of Instituto de Telecomunicações where he is now Senior Researcher. He joined Instituto Universitario de Lisboa/ ISCTE-IUL Lisbon where he is currently Associate Professor. His fields of interests are smart sensors for biomedical, smart ports and environmental applications, pervasive computing, wireless sensor networks, signal processing for biomedical applications and computational intelligence, IoT and data science. He is active member of national and international research teams involved in Portuguese and EU and International projects. Dr. Postolache is author and co-author of 10 patents, 10 books, 18 book chapters, 82 papers in international journals with peer review, more than 270 papers in proceedings of international conferences. He is IEEE Senior Member & M Society, Distinguished Lecturer of IEEE IMS, chair of IEEE I&MSTC-13 Wireless and Telecommunications in Measurements and chair of IEEE IMS Portugal Chapter. He is Associate Editor of IEEE Sensors Journal, Sensors MDPI. He was general chair of IEEE MeMeA 2014, IEEE ISSI 2018 and TPC chair of ICST 2014, Liverpool and ICST 2017 in Sydney, ICST2018 in Limerick. He received IEEE best reviewer and the best associate editor in 2011, 2013 and 2017, and other awards related to his research activity in the field of smart sensing and IoT.

## Research Interests

Smart Sensors for IoT
Distributed Systems of Instrumentation
Wireless Sensor Networks
Remote Sensing
Smart Sensors for Biomedical Applications
Applied Computation Intelligence for Sensors and Instrumentation
Virtual Reality and Augmented Reality for Physical Therapy Serious Games
Smart Equipments for Physiotherapy
Applied Thermography
Embedded AI

## Academic Qualifications

University/Institution	Type	Degree	Period
Instituto Superior Tecnico/Universidade de Lisboa	Aggregation	Habilitation in Electrical and Computer Engineering	2016
Universidade Tecnica Iasi, Romania	PhD	Electrotecnică e Computadores - Metrologia e Instrumentação	1999
Universidade Tecnica de Iasi, Romania	Integrated M.Sc.	Electrotecnică e Computadores	1992

## Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2025/2026	2º	Innovation in Healthcare Technologies	Master Degree in Health Services Management;	Yes
2025/2026	2º	Electronic Circuits and Systems	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2025/2026	2º	Fundamentals of Automation		Yes
2025/2026	2º	Manufacturing Management and Information Systems		Yes
2025/2026	2º	Instrumentation and Industrial Control	Bachelor Degree in Digital Technologies and Automation;	Yes

2025/2026	2°	Applied Project in Automation II		Yes
2025/2026	2°	E-Health and Telemedicine	Master Degree in Managing Digital Transformation in the Health Sector;	Yes
2025/2026	2°	Sensors for Medical Instrumentation and Signal Processing	Master Degree in Managing Digital Transformation in the Health Sector;	Yes
2025/2026	1°	Distributed Smart Sensor Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2025/2026	1°	Quality Control and Artificial Vision	Bachelor Degree in Digital Technologies and Automation;	Yes
2025/2026	1°	Human-Machine Interfaces		Yes
2025/2026	1°	Robotics and Advanced Automation	Bachelor Degree in Digital Technologies and Automation;	Yes
2025/2026	1°	Applied Project in Automation I		Yes
2025/2026	1°	Applied Project in Automation II		Yes
2025/2026	1°	Topics in Intelligent Robotics		Yes
2025/2026	1°	Digital Rehabilitation and Home - Care Technologies	Other programme in Advanced Programa in Digital Health;	Yes
2025/2026	1°	Programmable Electronics and Digital Signal Processing	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2024/2025	2°	Innovation in Healthcare Technologies	Master Degree in Health Services Management;	Yes
2024/2025	2°	Electronic Circuits and Systems	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2024/2025	2°	Power Electronics		Yes
2024/2025	2°	Manufacturing Management and Information Systems		Yes
2024/2025	2°	Instrumentation and Industrial Control		Yes
2024/2025	2°	Robotics and Advanced Automation		Yes
2024/2025	2°	E-Health and Telemedicine	Master Degree in Managing Digital Transformation in the Health Sector;	No
2024/2025	2°	Sensors for Medical Instrumentation and Signal Processing	Master Degree in Managing Digital Transformation in the Health Sector;	Yes
2024/2025	2°	Smart Systems for Ambient Assisted Living - Healthcare e Environment	Specialization Seminar in Smart Systems for Ambient Assisted Living - Healthcare e Environment;	Yes

2024/2025	2°	Digital Rehabilitation and Home - Care Technologies	Other programme in Advanced Programa in Digital Health;	Yes
2024/2025	1°	Distributed Smart Sensor Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2024/2025	1°	Fundamentals of Automation		Yes
2024/2025	1°	Programmable Electronics and Digital Signal Processing	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2023/2024	2°	Research Project in Information Sciences and Technologies I		Yes
2023/2024	2°	Research Project in Information Sciences and Technologies III		Yes
2023/2024	2°	Innovation in Healthcare Technologies	Master Degree in Health Services Management;	Yes
2023/2024	2°	Electronic Circuits and Systems	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2023/2024	2°	Smart Systems for Ambient Assisted Living - Aal Everywhere		Yes
2023/2024	2°	Digital Rehabilitation and Home - Care Technologies	Other programme in Advanced Programa in Digital Health;	Yes
2023/2024	1°	Research Project in Information Sciences and Technologies II		Yes
2023/2024	1°	Research Project in Information Sciences and Technologies IV		Yes
2023/2024	1°	Distributed Smart Sensor Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2023/2024	1°	Phd Thesis in Information Science and Technologies		Yes
2023/2024	1°	Electronic Circuit Analysis		Yes
2023/2024	1°	Programmable Electronics and Digital Signal Processing	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2022/2023	2°	Research Methods in Information Sciences and Technologies I		Yes
2022/2023	2°	Research Methods in Information Sciences and Technologies II		Yes

2022/2023	2°	Research and Communication Seminars in Information Sciences and Technologies I		Yes
2022/2023	2°	Research and Communication Seminars in Information Sciences and Technologies II		Yes
2022/2023	2°	Research Project in Information Sciences and Technologies I		Yes
2022/2023	2°	Research Project in Information Sciences and Technologies III		Yes
2022/2023	2°	Phd Thesis in Information Science and Technologies		Yes
2022/2023	2°	Phd Thesis in Information Science and Technologies 0		Yes
2022/2023	2°	Phd Thesis in Information Science and Technologies II		Yes
2022/2023	2°	Innovation in Healthcare Technologies	Master Degree in Health Services Management;	Yes
2022/2023	2°	Electronic Circuits and Systems	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2022/2023	2°	Phd Research Seminar in Sciences and Information Technologies		Yes
2022/2023	2°	Phd Thesis in Information Science and Technologies		Yes
2022/2023	2°	Phd Thesis in Information Science and Technologies		Yes
2022/2023	1°	Research Project in Information Sciences and Technologies II		Yes
2022/2023	1°	Research Project in Information Sciences and Technologies IV		Yes
2022/2023	1°	Phd Thesis in Information Science and Technologies		Yes
2022/2023	1°	Phd Thesis in Information Science and Technologies I		Yes
2022/2023	1°	Distributed Smart Sensor Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes

2022/2023	1°	Follow Up Seminar on the Phd Project in Science and Information Technologies	Doctorate Degree (PhD) in Information Science and Technology;	Yes
2022/2023	1°	Phd Thesis in Information Science and Technologies		Yes
2022/2023	1°	Phd Thesis in Information Science and Technologies		Yes
2022/2023	1°	Digital Rehabilitation and Home - Care Technologies	Other programme in Advanced Programa in Digital Health;	Yes
2022/2023	1°	Programmable Electronics and Digital Signal Processing	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2021/2022	2°	Research Methods in Information Sciences and Technologies II		Yes
2021/2022	2°	Research and Communication Seminars in Information Sciences and Technologies I		Yes
2021/2022	2°	Research and Communication Seminars in Information Sciences and Technologies II		Yes
2021/2022	2°	Research Project in Information Sciences and Technologies I		Yes
2021/2022	2°	Research Project in Information Sciences and Technologies III		Yes
2021/2022	2°	Phd Thesis in Information Science and Technologies		Yes
2021/2022	2°	Phd Thesis in Information Science and Technologies 0		Yes
2021/2022	2°	Phd Thesis in Information Science and Technologies II		Yes
2021/2022	2°	Innovation in Healthcare Technologies	Master Degree in Health Services Management;	Yes
2021/2022	2°	Electronic Circuits and Systems	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2021/2022	2°	Phd Research Seminar in Sciences and Information Technologies		Yes

2021/2022	2°	Follow Up Seminar on the Phd Project in Science and Information Technologies		Yes
2021/2022	2°	Phd Thesis in Information Science and Technologies		Yes
2021/2022	2°	Smart Systems for Ambient Assisted Living - Aal Everywhere		Yes
2021/2022	1°	Research Project in Information Sciences and Technologies II		Yes
2021/2022	1°	Research Project in Information Sciences and Technologies IV		Yes
2021/2022	1°	Phd Thesis in Information Science and Technologies		Yes
2021/2022	1°	Phd Thesis in Information Science and Technologies I		Yes
2021/2022	1°	Distributed Smart Sensor Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2021/2022	1°	Phd Research Seminar in Sciences and Information Technologies		Yes
2021/2022	1°	Follow Up Seminar on the Phd Project in Science and Information Technologies	Doctorate Degree (PhD) in Information Science and Technology;	Yes
2021/2022	1°	Phd Thesis in Information Science and Technologies		Yes
2021/2022	1°	Phd Thesis in Information Science and Technologies		Yes
2021/2022	1°	Programmable Electronics and Digital Signal Processing	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2020/2021	2°	Research Methods in Information Sciences and Technologies II		Yes
2020/2021	2°	Research and Communication Seminars in Information Sciences and Technologies I		Yes
2020/2021	2°	Research and Communication Seminars in Information Sciences and Technologies II		Yes

2020/2021	2°	Research Project in Information Sciences and Technologies I		Yes
2020/2021	2°	Research Project in Information Sciences and Technologies III		Yes
2020/2021	2°	Phd Thesis in Information Science and Technologies		Yes
2020/2021	2°	Innovation in Healthcare Technologies	Master Degree in Health Services Management;	Yes
2020/2021	2°	Electronic Circuits and Systems	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2020/2021	2°	Phd Research Seminar in Sciences and Information Technologies		Yes
2020/2021	2°	Follow Up Seminar on the Phd Project in Science and Information Technologies		Yes
2020/2021	2°	Phd Thesis in Information Science and Technologies		Yes
2020/2021	2°	Phd Thesis in Information Science and Technologies	Doctorate Degree (PhD) in Information Science and Technology;	Yes
2020/2021	2°	Smart Systems for Ambient Assisted Living		Yes
2020/2021	2°	Digital Rehabilitation and Home - Care Technologies	Other programme in Advanced Programa in Digital Health;	Yes
2020/2021	2°	Programmable Electronics and Digital Signal Processing	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2020/2021	1°	Research Project in Information Sciences and Technologies II		Yes
2020/2021	1°	Research Project in Information Sciences and Technologies IV		Yes
2020/2021	1°	Distributed Smart Sensor Systems	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2020/2021	1°	Phd Research Seminar in Sciences and Information Technologies		Yes
2020/2021	1°	Follow Up Seminar on the Phd Project in Science and Information Technologies		Yes

2020/2021	1°	Phd Thesis in Information Science and Technologies		Yes
2020/2021	1°	Phd Thesis in Information Science and Technologies	Doctorate Degree (PhD) in Information Science and Technology;	Yes
2019/2020	2°	Research Methods in Information Sciences and Technologies II		Yes
2019/2020	2°	Research and Communication Seminars in Information Sciences and Technologies I		Yes
2019/2020	2°	Research and Communication Seminars in Information Sciences and Technologies II		Yes
2019/2020	2°	Research Project in Information Sciences and Technologies III		Yes
2019/2020	2°	Phd Thesis in Information Science and Technologies		Yes
2019/2020	2°	Phd Thesis in Information Science and Technologies 0		Yes
2019/2020	2°	Phd Thesis in Information Science and Technologies II		Yes
2019/2020	2°	Phd Thesis in Information Science and Technologies IV		Yes
2019/2020	2°	Smart Sensors for Iot		Yes
2019/2020	2°	Innovation in Healthcare Technologies		Yes
2019/2020	2°	Fundamentals of Electronics		Yes
2019/2020	1°	Research Project in Information Sciences and Technologies II		Yes
2019/2020	1°	Research Project in Information Sciences and Technologies IV		Yes
2019/2020	1°	Phd Thesis in Information Science and Technologies		Yes
2019/2020	1°	Models for Value From Is/IT Investments		Yes

2019/2020	1°	Phd Thesis in Information Science and Technologies I		Yes
2019/2020	1°	Phd Thesis in Information Science and Technologies III		Yes
2019/2020	1°	Distributed Smart Sensor Systems		Yes
2019/2020	1°	Programmable Electronics and Digital Signal Processing	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2018/2019	2°	Fundamentals of Electronics		Yes

## Supervisions

### • Ph.D. Thesis - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	João Monge	--	English	Developing	Iscte
2	João Filipe Rala Cordeiro.	--	English	Developing	Iscte
3	Valber Cesar Cavalcanti Roza	--	English	Developing	Iscte
4	Gonçalo Tomé Ribeiro	Research and contribution on smart systems and AI modeling for chronic diseases	English	Developing	Iscte
5	Laura Acácio	Implementação de serviços telemáticos: caso da sinalética digital	English	Developing	Iscte
6	Bárbara Nogueira da Costa	Embedded Artificial Intelligence applied to cardiac healthcare	English	Developing	Iscte
7	Paulo Abel de Almeida João	Healthcare outlier detection with hierarchical self organizing maps	English	Developing	Iscte
8	João Pedro Duarte Monge	Smart sensing and virtual environments for physical rehabilitation assessment	English	Delivered	Iscte
9	Ricardo António Santos Almeida	Cooperação entre veículos de condução autónoma nas operações de transporte terrestre de mercadorias em portos marítimos inteligentes	Portuguese	Developing	Iscte
10	Behnam Seyedi	Securing communication between Things against cyber-attacks on the internet of Things using the deep learning algorithm	English	Developing	Iscte

11	Nelson José Chapungo	Internet das coisas para agricultura de precisão - os desafios da sua implementação em zonas com comunicação deficiente (Nampula - Moçambique)	Portuguese	Developing	Iscte
12	Luís Miguel Rodrigues Bento	Dados em Saúde: Qualidade, interoperabilidade e segurança	Portuguese	Developing	Iscte
13	Md Razu Miah	Design and Development of a Non-Invasive Cardiovascular Monitoring Device supported by IoT and AI	English	Developing	Iscte
14	Yujie Zhang	Research on Visual Measurement and Pose Estimation of Underactuated Operation Targets for Large-Scale Port Equipment	English	Developing	Iscte
15	Ammad Aslam	Securing IoT Sensors using Sharding-based Blockchain Networks Technology Integration	English	Developing	Iscte
16	Miguel Gil Ferreira Vaz Gaspar	Contributions on Adaptive Augmented Reality Serious Game for Physical Rehabilitation and Game Data Science	English	Developing	Iscte
17	Muhammad Awais	Electronic Circuits Design And Automation with Graph Neural Network	English	Developing	Iscte

#### - Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Válber César Cavalcanti Roza	Emotion Recognition and - Band Analysis based on Simulated Flights	Portuguese	Iscte	2024
2	Mariana Catela Jacob Rodrigues	Healthcare Status and Behavior Monitoring based on Smart Tailored Environments	English	Iscte	2024
3	João Filipe Rala Cordeiro	Applied Data Science on Children Health & Well-being	English	Iscte	2023
4	António Sérgio Lima Raimundo	A new way to perform inspection plans using Computer Vision and Deep Learning	English	Iscte	2023
5	Bruno Miguel Nunes da Silva	Ubiquitous Data Mining with Artificial Neural Networks	English	Iscte	2016

6	Eduardo Pinheiro	- Supervisor of the PhD work named "Vital Signals Monitoring" that is developed by the PhD student Eduardo Pinheiro on the IT/IST, Lisboa, The thesis was concluded in December 2013	English	Iscte	2013
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## • M.Sc. Dissertations

### - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Vasco Mendes Baleia	Automação Inteligente de Remediação de Conformidade em Implementações Guidewire Cloud	--	Developing	Iscte
2	Ermelinda de Barros Furtado	AAL-IoT- Ambient Assisted Living based on IoT : Sistemas de Assistência à Autonomia no Domicílio baseado em IoT.	--	Developing	Iscte
3	Tiago Filipe Gomes Pissarra Gonçalves	AIR- Q InOut - Indoor outdoor Air quality Monitoring System	--	Developing	Iscte
4	João Miguel Mira Pacheco Palma	Digital Twins for Greenhouse	--	Developing	Iscte
5	Afonso da Silva Taveira	Digital Twins for Assessment of Plants	--	Developing	Iscte
6	Tomás Leal Pereira	Digital platform to support farmers with artificial intelligence intervention	--	Developing	Iscte
7	José Miguel de Amorim Barros Carriço	IoT and Digital Twins for Ambient Assisted Living	--	Developing	Iscte
8	Pedro Menezes Sobral	IOT-SmartIS - IoT Smart Irrigation Systems	--	Developing	Iscte
9	Luís Nuno de Magalhães Fleming Pessoa Gaspar	IoT for outdoor Air Quality Monitoring	--	Developing	Iscte
10	Daniel Morgado Dias	AGRO POT -IoT Potentiostats Network for Precision Agriculture	--	Developing	Iscte
11	Emanuel Duarte Dias	Integrating Digital Tools into Rehabilitation: A Behavioral Science Approach to Improving Adherence and Continuity of Care	--	Developing	Iscte
12	Gonçalo Prazeres Torres	Indoor Air quality Monitoring System	--	Developing	Iscte
13	Ana Catarina Dinis Marques	Design and acceptance evaluation of a digital cardiorespiratory monitoring system in the context of physical exercise: The end-user perspective.	--	Developing	Iscte

14	Catarina Alexandre do Carmo Loureiro	IOT-ASOIL - IoT Systems for Air and Soil Characteristics Monitoring	--	Developing	Iscte
15	João Afonso Clemente Rodrigues	IOT-NSOIL	--	Developing	Iscte
16	Ana Rafaela Chaves Cañete	'Applying Digital Health Technologies in Dance Medicine: Data Collection and Analysis for Injury Prediction in Dancers'	--	Developing	Iscte
17	Vasco Mendes Baleia	Remote Sensing and AI for Precision Agriculture	--	Developing	Iscte
18	Renato Manuel Bernardino dos Reis	Barriers, facilitators, and opportunities of healthcare care professionals' accept and use digital health tools	English	Developing	Iscte
19	Guilherme Leitão Maia de Matos Aleixo	Mobile Emotional Assessment System	--	Developing	Iscte
20	Miguel Góis	Mobile APP and smart sensors for Physical Rehabilitation	--	Developing	Iscte
21	Gonçalo Filipe Romeiro Cavalheiro	GAITVR- Gait rehabilitation in virtual reality scenarios	--	Developing	Iscte
22	Ricardo Daniel Lourenço Paixão	IoUT - Internet of Underground Things for Precision Agriculture	--	Developing	Iscte
23	Rui André Da Cruz Jesus	Extended Reality Motor Rehabilitation	--	Developing	Iscte
24	Alexandre Rosa Feijó	MIX-Phys: Mixed Reality for Physical Rehabilitation	--	Developing	Iscte
25	Renato Luís Ferreira Monteiro	A wearable-based system for indoor elderly monitoring	--	Developing	Iscte

#### - Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Tiago Miguel Martins Felício	Multispectral Imaging Applied to Precision Agriculture	English	Iscte	2025
2	Sérgio Luís Mira Vieira	Digital Plant Factories Crop Production in Controlled Environments	English	Iscte	2025
3	Pedro Mathieu de Almeida Fernandes	Serious Games for Memory Training in Ageing Era	English	Iscte	2025
4	Lídia Mariana Lourenço Marques	Remote Sensing for Catastrophic Scenarios - LiDAR Data from Project Agile	English	Iscte	2025
5	André Simões Novo	Thermal image analysis for precision agriculture	English	Iscte	2025

6	Afonso Emanuel Ferreira Candeias	PlayVRRehab – Serious Games for Physical Rehabilitation in VR Scenarios	English	Iscte	2025
7	Henrique Vieira De Sousa	AirQual-IoT – Air Quality Monitoring and Data Analysis for Indoor Environments	English	Iscte	2025
8	Rafael André Martins dos Santos Silva	Portable Real-Time System for Disease and Pest Detection in Grapevines using EdgeComputing	English	Iscte	2025
9	Bruno Filipe Santos Saraiva	Data Analysis for Precision Agriculture	English	Iscte	2024
10	Deldo Pedro Santana	Mobile APP for Physical Rehabilitation.	Portuguese	Iscte	2024
11	Gustavo Laginha Santos Ferreira	A Deep Learning Toolkit for Water Stress Detection in Viticulture	English	Iscte	2024
12	Francisco Manuel da Silva Luz	Enhancing Virtual Physiotherapy Through Computer Vision and Pose Estimation	English	Iscte	2024
13	Roberto Filipe Cardoso Miguel	SOLAR-IOT – IoT for Precision Agriculture – SoilAir monitoring	English	Iscte	2024
14	Oleksandr Kobelyuk	SoilIoT - Smart Sensing and IoT for Precision Agriculture - Soil Characteristics Monitoring	English	Iscte	2024
15	Teresa Maria Garrido Felício	RemSAGRO - Remote Sensing for Agriculture	English	Iscte	2023
16	Gonçalo Franco Morgado	CityIOT - Air Quality in the city supported by IoT ecosystem	English	Iscte	2023
17	Diogo Filipe Guedes Soares	SoilIoT - IoT for Precision Agriculture - Soil characteristics monitoring	English	Iscte	2023
18	Miguel Gil Ferreira Vaz Gaspar	Serious Game in Augmented Reality 3D for Physical Rehabilitation	English	Iscte	2023
19	Beatriz dos Santos Gonçalves	Gait-VR - Gait Rehabilitation in VR interactive scenarios	English	Iscte	2023
20	Pedro Miguel Assis Batoca	PhysioEnabler - Intelligent sensor system to aid motor rehabilitation with a web application	English	Iscte	2022
21	Rafael da Silva Cardoso	Remote Health Monitoring System for the Elderly based on Mobile Computing and IoT	English	Iscte	2022
22	André Raposo de Medeiros de Sousa Baptista	AMELIA - Mobile Memory Training Interface for Older People	English	Iscte	2022
23	João Pedro da Silva Neves	M-R-I-o-T: MR and IoT for Physical Rehabilitation	Portuguese	Iscte	2022

24	Joel Vieira Santos	AAL-IoT - Ambient Assisted Living using Non-Intrusive Smart Sensing and IoT for Gait Rehabilitation	English	Iscte	2022
25	Ana Catarina Rodrigues Glão Santos	Rowing training assessment using smart sensors	English	Iscte	2021
26	David Emanuel Magalhães Lourenço	EldyIoT - IoT Assistive System for Elderly	English	Iscte	2021
27	Ana Catarina das Dores Ribeiro	Thermo Sense - Remote Sensing System based on Thermography	English	Iscte	2021
28	Gonçalo Tomé Ribeiro	Smart System and Mobile Interface for Healthcare: Stress and Diabetes	English	Iscte	2021
29	Yibin Hu	Payload's Sway Angle Measurement for Container in the Crane system based on Remote Sensing	English	Iscte	2020
30	Yuankang Gao	UWB System and Algorithms for Indoor Positioning	English	Iscte	2020
31	Chen Ye	Underwater Wireless Charging System for Electric Boats	English	Iscte	2020
32	Bárbara Nogueira da Costa	VAR-AS - Sustained Attention Detection System in the Learning Environment	English	Iscte	2020
33	Sara Cristina Martins Ferreira	Real time Portuguese Sign Language Translation System	Portuguese	Iscte	2019
34	Peiyao Tang	Reefer Container monitoring system based on WSN and Cloud technology	English	Iscte	2019
35	Zeyu Ma	SLAM research for port AGV based on 2D LIDAR	English	Iscte	2019
36	Yongshuang Wang	Synchronous Control for Double Containers Overhead Crane	English	Iscte	2019
37	Lin Ma	AGV-RAD: AGV Positioning System for Ports using Microwave Doppler Radar	English	Iscte	2019
38	Mariana Catela Jacob Rodrigues	SAGA - Smart Gateway for Adaptive Environments	English	Iscte	2019
39	Yu Jin	Augmented Reality System with application in Physical Rehabilitation	English	Iscte	2019
40	Dongchen Ni	Research on Port AGV Composite Positioning Based on UWB/RFID	English	Iscte	2019
41	Pedro Martim Valente de Lima Frango	Smart Object for Physical Rehabilitation Assessment	Portuguese	Iscte	2018
42	Regina de Souza	Palsy Thera Sense - Sensorized Rehabilitation System for Children with Cerebral Palsy	Portuguese	Iscte	2018

43	João Pedro Duarte Monge	PhysioAR - Smart Sensing and Augmented Reality for Physical Rehabilitation	Portuguese	Iscte	2018
44	Paulo Nuno Dias de Almeida Barreto Leite	Gait Rehabilitation Monitor	Portuguese	Iscte	2018
45	Ricardo José Farinha Alexandre	Aplicação Tecnológica da Internet das Coisas e Vestuário para Reabilitação Física	Portuguese	Iscte	2018
46	Carlos Miguel Alpedrinha Ramos de Almeida Nave	IoPhyR - Physical Rehabilitation IoT System	Portuguese	Iscte	2018
47	Ana Catarina Duque Dias	Cyclist performance assessment based on WSN and Cloud technologies	Portuguese	Iscte	2018
48	Rui Madeira	Model-driven Personalisation of Human-Computer Interaction across Ubiquitous Computing Applications	English	Universidade Nova de Lisboa	2017
49	Nuno Gonçalo Matos Pardal	Sistema de Monitorização Biométrica e de Assistência Médica 4G	Portuguese	Iscte	2017
50	Diogo Veiga Ferreira	Physical Rehabilitation based on Kinect Serious Games-ThG Therapy Game	English	Iscte	2017
51	Filipe da Costa Pereira Lourenço	LeaPhysio - Games Enhanced Physical Rehabilitation	English	Iscte	2017
52	Bruno Miguel Nunes da Silva	Exploratory Cluster Analysis from Ubiquitous Data Streams using Self-Organizing Maps	English	Universidade Nova de Lisboa	2016
53	Tiago Miguel Nunes Ribeiro	Performance Assessment for Mountain Bike based on WSN and Cloud Technologies	English	Iscte	2016
54	João Ricardo Baptista de Matos	IoT Enabled Aquatic Drone for Environment Monitoring	English	Iscte	2016
55	Fábio Miguel Mariano Silva	Football Game Analysis.	English	Iscte	2015
56	Eduardo Silva Reis	Medo ou Humor em Campanhas Antitabágicas? Efeitos na Perceção da sua Eficácia, Políticas Antitabágicas, Desejo e Suscetibilidade em Fumar	Portuguese	Iscte	2015
57	José Miguel Lopes Barreiro	Smart Mountain Bike	English	Iscte	2014
58	Nuno Miguel Santos Duarte	KSGphysio - Kinect Game for Physiotherapy	English	Iscte	2014
59	Rúben Tiago Lopes Costa	m-health - Dispositivos inteligentes e computação móvel com aplicação na fisioterapia	Portuguese	Iscte	2014

60	Ana Filipa Teixeira Martins	Sistema de Informação Distribuídos para Monitorização da Qualidade do Ar	Portuguese	Iscte	2013
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## • M.Sc. Final Projects

### - Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Paulo João	Outlier Detection in Healthcare with Hierarchical Self Organizing Maps Mixed Data	English	Developing	Iscte

### - Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Cátia Malisa Chen	LearnS Business Plan	Portuguese	Iscte	2021

## Total Citations

Web of Science®	3155
Scopus	4068

## Publications

### • Scientific Journals

#### - Scientific journal paper

1	Shen, Y., Gao, Z., Wang, J., Zhang, Z., Zhang, Y., Postolache, O....Mi, C. (2025). Point cloud surface registration for cargo hold material matching via sparse line-based sensing method. IEEE Sensors Journal. 25 (23), 43305-43318 - Times Cited Google Scholar: 1
2	Yang, Y., Sun, S., Wu, Y., Feng, J., Lu, W., Wu, L....Postolache, O. (2025). Integrating multi-equipment scheduling with accurate AGV path planning for U-shaped automated container terminals. Computers and Industrial Engineering. 209 - Times Cited Web of Science®: 4 - Times Cited Scopus: 3 - Times Cited Google Scholar: 5
3	Tasmurzayev, N., Amangeldy, B., Imankulov, T., Imanbek, B., Postolache, O. A. & Konysbekova, A. (2025). A wearable IoT-based measurement system for real-time cardiovascular risk prediction using heart rate variability. Eng. 6 (10) - Times Cited Web of Science®: 1 - Times Cited Google Scholar: 1

4	Vanitha, V., Kumar, V. D., Geman, O., Postolache, O., Bellam, S. K. & Todorean, R. (2025). Modeling and classifying Parkinsonian tremors with nonlinear dynamics and Kalman optimization. <i>IEEE Access</i> . 13, 156930-156948
5	Postolache, S., Sebastião, P., Viegas, V. & Postolache, O. (2025). Digital twin for horticulture farm: Data source and data domain architecture. <i>IEEE Instrumentation and Measurement Magazine</i> . 28 (4), 22-30 - Times Cited Scopus: 1
6	Pereira, J. M. C. D., Ribeiro, G. & Postolache, O. (2025). A flexible, low-cost and algorithm-independent calibrator for automated blood pressure measuring devices. <i>Applied Sciences</i> . 15 (6)
7	Guo, L., Postolache, O., Ma, L. & Shi, Y. (2025). Reconstructing the 3-D methane plume Image using portable shipborne sonar. <i>IEEE Sensors Journal</i> . 25 (11), 20445-20454
8	Wang, J., He, M., Zhang, Y., Zhang, Z., Postolache, O. & Mi, C. (2025). High-precision pose measurement of containers on the transfer platform of the dual-trolley quayside container crane based on machine vision. <i>Sensors</i> . 25 (9) - Times Cited Web of Science®: 1 - Times Cited Scopus: 2 - Times Cited Google Scholar: 6
9	Postolache, S., Sebastião, P., Viegas, V. & Postolache, O. (2025). Digital twin for horticulture farm: Concept and requirements. <i>IEEE Instrumentation and Measurement Magazine</i> . 28 (1), 14-22 - Times Cited Web of Science®: 6 - Times Cited Scopus: 5 - Times Cited Google Scholar: 1
10	Chen, X., Chen, C., Wu, H., Postolache, O. & Wu, Y. (2025). An improved artificial potential field method for multi-AGV path planning in ports. <i>Intelligence and Robotics</i> . 5 (1), 19-33 - Times Cited Web of Science®: 8 - Times Cited Scopus: 9 - Times Cited Google Scholar: 13
11	Wang, Y., Chen, X., Wu, Y., Zhao, J., Postolache, O. & Liu, S. (2024). Visual navigation systems for maritime smart ships: A survey. <i>Journal of Marine Science and Engineering</i> . 12 (10) - Times Cited Web of Science®: 7 - Times Cited Scopus: 9 - Times Cited Google Scholar: 15
12	Ribeiro, G., Monge, J., Postolache, O. & Pereira, J. M. D. (2024). A novel AI approach for assessing stress levels in patients with type 2 diabetes mellitus based on the acquisition of physiological parameters acquired during daily life. <i>Sensors</i> . 24 (13) - Times Cited Web of Science®: 7 - Times Cited Scopus: 7 - Times Cited Google Scholar: 12
13	Ribeiro, G., Postolache, O. & Martin, F. F. (2024). A new intelligent approach for automatic stress level assessment based on multiple physiological parameters monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> . 73, 1-14 - Times Cited Web of Science®: 11 - Times Cited Scopus: 13 - Times Cited Google Scholar: 26

14	<p>Pereira, J. D., Monge, J. &amp; Postolache, O. (2024). Measurement and applications: Electrochemical sensors and instruments: Main characteristics and applications. <i>IEEE Instrumentation and Measurement Magazine</i>. 27 (1), 18-25</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 6</li> <li>- Times Cited Scopus: 10</li> <li>- Times Cited Google Scholar: 12</li> </ul>
15	<p>Yao, H., Xiao, C., Yang, Y. &amp; Postolache, O. (2024). Directional mobile charger scheduling strategy based on adaptive dual-threshold. <i>IEEE Sensors Journal</i>. 24 (11), 18467-18478</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 2</li> <li>- Times Cited Google Scholar: 2</li> </ul>
16	<p>Zhang, Y., Song, Y., Zheng, L., Postolache, O., Mi, C. &amp; Shen, Y. (2024). Improved YOLOv5 network for high-precision three-dimensional positioning and attitude measurement of container spreaders in automated quayside cranes. <i>Sensors</i>. 24 (17)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 2</li> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 5</li> </ul>
17	<p>Cordeiro, J., Mosca, S., Correia-Costa, A., Ferreira, C., Pimenta, J., Correia-Costa, L....Postolache, O. (2023). The association between childhood obesity and cardiovascular changes in 10 years using special data science analysis. <i>Children</i>. 10 (10)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 2</li> <li>- Times Cited Scopus: 2</li> <li>- Times Cited Google Scholar: 4</li> </ul>
18	<p>Postolache, S., Sebastião, P., Viegas, V., Dias Pereira, J. M &amp; Postolache, O. (2023). Empathizing with plants in tropical botanical garden through IoT instrumentation for air and soil characteristics monitoring. <i>IEEE Instrumentation and Measurement Magazine</i>. 26 (7), 41-52</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 1</li> </ul>
19	<p>Jacob Rodrigues, M., Postolache, O. &amp; Cercas, F. (2023). The influence of stress noise and music stimulation on the autonomous nervous system. <i>IEEE Transactions on Instrumentation and Measurement</i>. 72, 18</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 7</li> <li>- Times Cited Scopus: 7</li> <li>- Times Cited Google Scholar: 8</li> </ul>
20	<p>Monge, J., Raimundo, A., Ribeiro, G., Postolache, O. &amp; Santos, J. (2023). AI-based smart sensing and AR for gait rehabilitation assessment. <i>Information</i>. 14 (7)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 11</li> <li>- Times Cited Scopus: 18</li> <li>- Times Cited Google Scholar: 29</li> </ul>
21	<p>Raimundo, A., Pavia, J. P., Sebastião, P. &amp; Postolache, O. (2023). YOLOX-Ray: An efficient attention-based single-staged object detector tailored for industrial inspections. <i>Sensors</i>. 23 (10)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 9</li> <li>- Times Cited Scopus: 12</li> <li>- Times Cited Google Scholar: 18</li> </ul>
22	<p>Mi, C., Chen, J., Zhang, Z., Huang, S. &amp; Postolache, O. (2022). Visual sensor network task scheduling algorithm at automated container terminal. <i>IEEE Sensors Journal</i>. 22 (6), 6042-6051</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 29</li> <li>- Times Cited Scopus: 29</li> <li>- Times Cited Google Scholar: 36</li> </ul>

23	<p>Mi, C., Huang, S., Zhang, Y., Zhang, Z. &amp; Postolache, O. (2022). Design and implementation of 3-D measurement method for container handling target. <i>Journal of Marine Science and Engineering</i>. 10 (12)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 44</li> <li>- Times Cited Scopus: 46</li> <li>- Times Cited Google Scholar: 49</li> </ul>
24	<p>Zholdas, N., Mansurova, M., Postolache, O., Kalimoldayev, M. &amp; Sarsembayeva, T. (2022). A personalized mHealth monitoring system for children and adolescents with T1 diabetes by utilizing IoT sensors and assessing physical activities. <i>INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS &amp; CONTROL</i>. 17 (3)</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 8</li> <li>- Times Cited Google Scholar: 11</li> </ul>
25	<p>Guo, L., Postolache, O., Ma, L. &amp; Shi, Y. (2022). Acoustic observation, identification, and scattering intensity measurement of cold seep based on bubble resonance. <i>IEEE Transactions on Instrumentation and Measurement</i>. 71</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 5</li> <li>- Times Cited Scopus: 3</li> <li>- Times Cited Google Scholar: 5</li> </ul>
26	<p>Viegas, V., Dias Pereira, J. M, Girao, P. M. B. &amp; Postolache, O. (2022). Remembering old practices to validate measurement data. <i>IEEE Instrumentation and Measurement Magazine</i>. 25 (7), 7-13</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 2</li> </ul>
27	<p>Chen, X., Wu, X., Prasad, D. K., Wu, B., Postolache, O. &amp; Yang, Y. (2022). Pixel-wise ship identification from maritime images via a semantic segmentation model. <i>IEEE Sensors Journal</i>. 22 (18), 18180-18191</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 26</li> <li>- Times Cited Scopus: 24</li> <li>- Times Cited Google Scholar: 30</li> </ul>
28	<p>Jacob Rodrigues, M., Postolache, O. &amp; Cercas, F. (2022). Unobtrusive cardio-respiratory assessment for different indoor environmental conditions. <i>IEEE Sensors Journal</i>. 22 (23), 23243-23257</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 5</li> <li>- Times Cited Scopus: 7</li> <li>- Times Cited Google Scholar: 9</li> </ul>
29	<p>Postolache, S., Sebastião, P., Viegas, V., Postolache, O. &amp; Cercas, F. (2022). IoT-based systems for soil nutrients assessment in horticulture. <i>Sensors</i>. 23 (1)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 40</li> <li>- Times Cited Scopus: 52</li> <li>- Times Cited Google Scholar: 87</li> </ul>
30	<p>Xu, B., Liu, X., Yang, Y., Li, J. &amp; Postolache, O. (2021). Optimization for a multi-constraint truck appointment system considering morning and evening peak congestion. <i>Sustainability</i>. 13 (3)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 21</li> <li>- Times Cited Scopus: 23</li> <li>- Times Cited Google Scholar: 30</li> </ul>
31	<p>Cordeiro, J., Raimundo, A., Postolache, O. &amp; Sebastião, P. (2021). Neural architecture search for 1D CNNs - Different approaches tests and measurements. <i>Sensors</i>. 21 (23), 7990</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 46</li> <li>- Times Cited Scopus: 57</li> <li>- Times Cited Google Scholar: 77</li> </ul>

32	<p>Postolache, O., Alexandre, R., Geman, O., Hemanth, D. J., Gupta, D. &amp; Khanna, A. (2021). Remote monitoring of physical rehabilitation of stroke patients using IoT and Virtual Reality. <i>IEEE Journal on Selected Areas in Communications</i>. 39 (2), 562-573</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 106</li> <li>- Times Cited Scopus: 128</li> <li>- Times Cited Google Scholar: 185</li> </ul>
33	<p>Fu, X., Li, W., Yang, Y. &amp; Postolache, O. (2021). Cascading failures analysis of wireless sensor networks with varying routing schemes. <i>IEEE Sensors Journal</i>. 21 (8), 10193-10203</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 39</li> <li>- Times Cited Scopus: 43</li> <li>- Times Cited Google Scholar: 43</li> </ul>
34	<p>Viegas, V., Dias Pereira, J. M, Girão, P. M. &amp; Postolache, O. (2021). Study of latencies in ThingSpeak. <i>Advances in Science, Technology and Engineering Systems Journal</i>. 6 (1), 342-348</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 5</li> <li>- Times Cited Scopus: 9</li> <li>- Times Cited Google Scholar: 16</li> </ul>
35	<p>Mi, C., Huang, Y., Fu, C., Zhang, Z. &amp; Postolache, O. (2021). Vision-based measurement: Actualities and developing trends in automated container terminals. <i>IEEE Instrumentation and Measurement Magazine</i>. 24 (4), 65-76</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 61</li> <li>- Times Cited Scopus: 65</li> <li>- Times Cited Google Scholar: 78</li> </ul>
36	<p>Roza, V. &amp; Postolache, O. (2021). <math>\gamma</math>-band analysis from simulated flight experiments. <i>Aerospace</i>. 8 (5)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> </ul>
37	<p>Fu, X., Yang, Y. &amp; Postolache, O. (2021). Sustainable multipath routing protocol for multi-sink wireless sensor networks in harsh environments. <i>IEEE Transactions on Sustainable Computing</i>. 6 (1), 168-181</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 38</li> <li>- Times Cited Scopus: 68</li> <li>- Times Cited Google Scholar: 81</li> </ul>
38	<p>Xu, B., Li, J., Yang, Y., Wu, H., Dai, W. &amp; Postolache, O. (2021). Exploring the resilience of uncertain nonlinear handling chain systems in container ports with a novel sliding mode control. <i>IEEE Access</i>. 9, 35888-35899</p> <ul style="list-style-type: none"> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 1</li> </ul>
39	<p>Arriaga, P., Alexandre, J., Postolache, O., Fonseca, M. J., Langlois, T. &amp; Chambel, T. (2020). Why do we watch? The role of emotion gratifications and individual differences in predicting rewatchability and movie recommendation. <i>Behavioral Sciences</i> . 10 (8), 1-11</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 14</li> <li>- Times Cited Scopus: 16</li> <li>- Times Cited Google Scholar: 28</li> </ul>
40	<p>Jacob Rodrigues, M., Postolache, O. &amp; Cercas, F. (2020). Physiological and behavior monitoring systems for smart healthcare environments: a review. <i>Sensors</i>. 20 (8)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 81</li> <li>- Times Cited Scopus: 97</li> <li>- Times Cited Google Scholar: 162</li> </ul>

41	<p>Zhong, M., Yang, Y., Sun, S., Zhou, Y, Postolache, O. &amp; Ge, Y.- E. (2020). Priority-based speed control strategy for automated guided vehicle path planning in automated container terminals. <i>Transactions of the Institute of Measurement and Control</i>. 42 (16), 3079-3090</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 44</li> <li>- Times Cited Scopus: 48</li> <li>- Times Cited Google Scholar: 60</li> </ul>
42	<p>Reis, E., Arriaga, P., Lima, M. L., Teixeira, L., Postolache, O. &amp; Postolache, G. (2020). Tailoring virtual environments of an exergame for physiotherapy: the role of positive distractions and sensation-seeking. <i>PsyEcology</i>. 11 (1), 49-63</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 1</li> <li>- Times Cited Scopus: 1</li> <li>- Times Cited Google Scholar: 1</li> </ul>
43	<p>Zhong, M., Yang, Y., Zhou, Y. &amp; Postolache, O. (2020). Application of hybrid GA-PSO based on intelligent control fuzzy system in the integrated scheduling in automated container terminal. <i>Journal of Intelligent and Fuzzy Systems</i>. 39 (2), 1525-1538</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 24</li> <li>- Times Cited Scopus: 21</li> <li>- Times Cited Google Scholar: 25</li> </ul>
44	<p>Andrusca, M., Adam, M., Dragomir, A., Lunca, E., Seeram, R. &amp; Postolache, O. (2020). Condition monitoring system and faults detection for impedance bonds from railway infrastructure. <i>Applied Sciences</i>. 10 (18)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 10</li> <li>- Times Cited Scopus: 15</li> <li>- Times Cited Google Scholar: 22</li> </ul>
45	<p>López, A., Ferrero, F., Villar, J. R. &amp; Postolache, O. (2020). High-performance analog front-end (AFE) for EOG systems. <i>Electronics</i>. 9 (6)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 26</li> <li>- Times Cited Scopus: 28</li> <li>- Times Cited Google Scholar: 48</li> </ul>
46	<p>Geman, O., Postolache, O., Chiuchisan, I., Prelipceanu, M., Ritambhara, B. &amp; Hemanth, D. J. (2019). An intelligent assistive tool using exergaming and response surface methodology for patients with brain disorders. <i>IEEE Access</i>. 7, 21502-21513</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 11</li> <li>- Times Cited Scopus: 15</li> <li>- Times Cited Google Scholar: 20</li> </ul>
47	<p>López, A., Ferrero, F. &amp; Postolache, O. (2019). An affordable method for evaluation of ataxic disorders based on electrooculography. <i>Sensors</i>. 19 (17)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 19</li> <li>- Times Cited Scopus: 19</li> <li>- Times Cited Google Scholar: 43</li> </ul>
48	<p>Roza, V. &amp; Postolache, O. (2019). Multimodal approach for emotion recognition based on simulated flight experiments. <i>Sensors</i>. 19 (24)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 28</li> <li>- Times Cited Google Scholar: 38</li> </ul>
49	<p>Viegas, V., Postolache, O. &amp; Dias Pereira, J. M.M (2019). Transducer electronic data sheets: anywhere, anytime, anyway. <i>Electronics</i>. 8 (11)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 6</li> <li>- Times Cited Scopus: 6</li> <li>- Times Cited Google Scholar: 12</li> </ul>

50	Zhong, M., Yang, Y., Yao, H., Fu, F., Dobre, O. A. & Postolache, O. (2019). 5G and IoT: towards a new era of communications and measurements. <i>IEEE Instrumentation and Measurement Magazine</i> . 22 (6), 18-26 - Times Cited Web of Science®: 42 - Times Cited Scopus: 53 - Times Cited Google Scholar: 76
51	Cordeiro, J., Postolache, O. & Ferreira, J. (2019). Child's target height prediction evolution. <i>Applied Sciences</i> . 9 (24) - Times Cited Web of Science®: 6 - Times Cited Scopus: 7 - Times Cited Google Scholar: 9
52	Zhong, M., Yang, Y., Zhou, Y. & Postolache, O. (2019). Adaptive autotuning mathematical approaches for integrated optimization of automated container terminal. <i>Mathematical Problems in Engineering</i> . 2019, 1-14 - Times Cited Web of Science®: 23 - Times Cited Scopus: 25 - Times Cited Google Scholar: 28
53	Reis, E., Postolache, G., Teixeira, L., Arriaga, P., Lima, M. L. & Postolache, O. (2019). Exergames for motor rehabilitation in older adults: an umbrella review. <i>Physical Therapy Reviews</i> . 24 (3-4), 84-99 - Times Cited Web of Science®: 29 - Times Cited Scopus: 44 - Times Cited Google Scholar: 57
54	Fu, X., Yang, Y. & Postolache, O. (2019). Invulnerability of clustering wireless sensor networks against cascading failures. <i>IEEE Systems Journal</i> . 13 (2), 1431-1442 - Times Cited Web of Science®: 53 - Times Cited Scopus: 57 - Times Cited Google Scholar: 66
55	Reis, E. S., Arriaga, P. & Postolache, O. A. (2019). Fear or humour in anti-smoking campaigns? Impact on perceived effectiveness and support for tobacco control policies. <i>Ciência e Saúde Coletiva</i> . 24 (12), 4727-4738 - Times Cited Web of Science®: 10 - Times Cited Scopus: 10 - Times Cited Google Scholar: 15
56	Viegas, V., Pereira, J. M. D., Postolache, O. & Girão, P. S. (2018). Monitoring walker assistive devices: a novel approach based on load cells and optical distance measurements. <i>Sensors</i> . 18 (2) - Times Cited Web of Science®: 5 - Times Cited Scopus: 8 - Times Cited Google Scholar: 8
57	Xu, B., Li, J., Yang, Y., Postolache, O. & Wu, H. (2018). Robust modeling and planning of radio-frequency identification network in logistics under uncertainties. <i>International Journal of Distributed Sensor Networks</i> . 14 (4), 1-11 - Times Cited Web of Science®: 5 - Times Cited Scopus: 8 - Times Cited Google Scholar: 10
58	Yang, Y., Zhong, M., Dessouky, Y. & Postolache, O. (2018). An integrated scheduling method for AGV routing in automated container terminals. <i>Computers and Industrial Engineering</i> . 126, 482-493 - Times Cited Web of Science®: 212 - Times Cited Scopus: 217 - Times Cited Google Scholar: 254

59	<p>Yao, H., Fu, X., Yang, Y. &amp; Postolache, O. (2018). An incremental local outlier detection method in the Data Stream. <i>Applied Sciences</i>. 8 (8)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 20</li> <li>- Times Cited Scopus: 18</li> <li>- Times Cited Google Scholar: 29</li> </ul>
60	<p>Li, J.-j., Xu, B.-w., Postolache, O., Yang, Y.-s. &amp; Wu, H.-f. (2018). Impact analysis of travel time uncertainty on AGV catch-up conflict and the associated dynamic adjustment. <i>Mathematical Problems in Engineering</i>. 2018</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 4</li> <li>- Times Cited Scopus: 16</li> <li>- Times Cited Google Scholar: 18</li> </ul>
61	<p>López, A., Fernández, M., Rodríguez, H., Ferrero, F. &amp; Postolache, O. (2018). Development of an EOG-based system to control a serious game. <i>Measurement</i>. 127, 481-488</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 30</li> <li>- Times Cited Scopus: 30</li> <li>- Times Cited Google Scholar: 52</li> </ul>
62	<p>López, A., Ferrero, F., Yangüela, D., Álvarez, C. &amp; Postolache, O. (2017). Development of a computer writing system based on EOG. <i>Sensors</i>. 17 (7)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 26</li> <li>- Times Cited Scopus: 32</li> <li>- Times Cited Google Scholar: 51</li> </ul>
63	<p>Domingues, M. F., Tavares, C., Leitão, C., Frizera-Neto, A., Alberto, N., Marques, C....Antunes, P. (2017). Insole optical fiber Bragg grating sensors network for dynamic vertical force monitoring. <i>Journal of Biomedical Optics</i>. 22 (9)</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 71</li> <li>- Times Cited Scopus: 71</li> <li>- Times Cited Google Scholar: 102</li> </ul>
64	<p>Postolache, O., Postolache, G. &amp; Postolache, G. (2017). Development and Selection of Balance Sensing Devices. <i>IEEE Instrumentation and Measurement Magazine</i>. 20 (1), 38-48</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 12</li> <li>- Times Cited Scopus: 11</li> <li>- Times Cited Google Scholar: 19</li> </ul>
65	<p>Viegas, V., Postolache, O. A., Girão, P. M. B. S. &amp; Pereira, J. M. D. (2016). Quimera: the easy way to simulate Foundation Fieldbus applications. <i>Computer Applications in Engineering Education</i>. 24 (6), 914-925</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 3</li> <li>- Times Cited Scopus: 4</li> <li>- Times Cited Google Scholar: 4</li> </ul>
66	<p>Postolache, O., Dias Pereira, J. M., Viegas, V., Pedro, L., Girão, P. M., Oliveira, R....Postolache, G. (2015). Smart walker solutions for physical rehabilitation. <i>IEEE Instrumentation and Measurement Magazine</i>. 18 (5), 21-30</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 24</li> <li>- Times Cited Scopus: 26</li> <li>- Times Cited Google Scholar: 33</li> </ul>
67	<p>Pereira, M. D., Postolache, O. &amp; Girão, P. M. (2014). Using neural network techniques in environmental sensing and measurement systems to compensate for the effects of influence quantities. <i>IEEE Instrumentation and Measurement Magazine</i>. 17 (6), 26-56</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 3</li> <li>- Times Cited Scopus: 3</li> <li>- Times Cited Google Scholar: 6</li> </ul>

68	<p>Solanas, A., Patsakis, C., Ramos, V., Falcone, F., Postolache, O., Perez-Martinez, P. A....Martinez-Balleste, A. (2014). Smart health: a context-aware health paradigm within smart cities. <i>IEEE Communications Magazine</i>. 52 (8), 74 -81</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 425</li> <li>- Times Cited Scopus: 542</li> <li>- Times Cited Google Scholar: 821</li> </ul>
69	<p>de Vito, L., Postolache, O. &amp; Rapuano, S. (2014). Measurements and sensors for motion tracking in motor rehabilitation. <i>IEEE Instrumentation and Measurement Magazine</i>. 17 (3), 30-38</p> <ul style="list-style-type: none"> <li>- Times Cited Web of Science®: 32</li> <li>- Times Cited Scopus: 40</li> <li>- Times Cited Google Scholar: 57</li> </ul>
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### • Books and Book Chapters

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1	Postolache, O. (2013). Springer.
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**- Book editor**

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3	Postolache, O., Sazonov E. & Mukhopadhyay S. (2019). Sensors in the Age of the Internet of Things: Technologies and applications. London. Institution of Engineering and Technology (IET). - Times Cited Google Scholar: 11
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## • Conferences/Workshops and Talks

### - Publication in conference proceedings

1	Andre Simoes Novo, Postolache, O. & Joaquim Gabriel Magalhães Mendes (2025). Thermal Image Analysis for Precision Agriculture. In 2025 Third International Conference on Industry 4.0 Technology (I4Tech). (pp. 1-7). Pune, India: IEEE.
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99	<p>Postolache, G., Postolache, O. &amp; Girão, P.M (2014). Applying Smartphone Apps to Drive Greater Patient Engagement in Personalized Physiotherapy . In IEEE (Ed.), IEEE International Symposium on Medical Measurements and Applications. (pp. 1-6). Lisbon, Portugal: IEEE.</p> <p>- Times Cited Web of Science®: 3</p> <p>- Times Cited Google Scholar: 23</p>
100	<p>T. Pereira, H. Carvalho &amp; Postolache, O. (2013). Wearable biopotential measurement using the TI ADS1198 analog front-end and textile electrodes. In Medical Measurements and Applications Proceedings (MeMeA), 2013 IEEE International Symposium on . (pp. 1-5). Gatineau</p> <p>- Times Cited Google Scholar: 24</p>
101	<p>J. Freire, Postolache, O. &amp; Girão, P.M (2013). Smart Sensors Architecture for Health Status Assessment of Wheelchair Users. In Instituto de Telecomunicações (Ed.), Conference on Telecommunications, Conftele 2013. (pp. 1-5). Castelo Branco: Instituto de Telecomunicações.</p>
102	<p>Postolache, O., Girão, P.M &amp; Postolache, G. (2013). Multi-channel architecture for evaluation of automated oscillometric blood pressure devices. In IEEE (Ed.), Proc IEEE International Symp. on Medical Measurements and Applications - MeMeA. (pp. 1-6). Gatineau, Canada: IEEE.</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Scopus: 1</p> <p>- Times Cited Google Scholar: 3</p>
103	<p>Postolache, O., Mario R Ribeiro, Girão, P.M &amp; Postolache, G. (2013). Smart sensors and pervasive computing for healthcare . In Hariton Costin (Ed.), IEEE E-Health and Bioengineering Conference (EHB), 2013 . (pp. 1-6): IEEE.</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Scopus: 2</p> <p>- Times Cited Google Scholar: 4</p>
104	<p>Postolache, O., Girão, P. M., P.S. Girao, Ijaz, H., J. Freire &amp; Freire, J. (2012). IEEE 1451.4 embedded smart sensors architecture for wheelchair user monitoring. In IEEE Instrumentation and Measurement Society (Ed.), MeMeA 2012 - 2012 IEEE Symposium on Medical Measurements and Applications, Proceedings. (pp. 15-19). Budapest: IEEE.</p> <p>- Times Cited Scopus: 10</p> <p>- Times Cited Google Scholar: 14</p>
105	<p>Pinheiro, E. C., Postolache, O. &amp; Girão, P. M. (2010). Online heart rate estimation in unstable ballistocardiographic records. In 2010 32nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'10. (pp. 939-942). Buenos Aires: IEEE.</p> <p>- Times Cited Web of Science®: 4</p> <p>- Times Cited Scopus: 8</p> <p>- Times Cited Google Scholar: 14</p>
106	<p>Postolache, O., Postolache, G. &amp; Girão, P. S. (2010). Non-invasive mobile homeostasis instrument. In IEEE International Workshop on Medical Measurement and Applications, MeMeA 2006. (pp. 94-97). Benevento: IEEE.</p> <p>- Times Cited Web of Science®: 8</p> <p>- Times Cited Scopus: 14</p> <p>- Times Cited Google Scholar: 15</p>

107	Postolache, O., Girao, P. S., Lunca, E., Bicleaknu, P. & Andrusca, M. (2009). Unobtrusive cardio-respiratory monitoring based on microwave Doppler radar. In EPE 2012 - Proceedings of the 2012 International Conference and Exposition on Electrical and Power Engineering. (pp. 591-600). Iasi: IEEE. - Times Cited Scopus: 9 - Times Cited Google Scholar: 10
108	Postolache, O., Girão, P. M. , Dias Pereira, J. M., Ferraria, G., Barroso, N. & Postolache, G. (2009). Indoor monitoring of respiratory distress triggering factors using a wireless sensing network and a smart phone. In 2009 IEEE Instrumentation and Measurement Technology Conference, I2MTC 2009. (pp. 451-456). Singapore: IEEE. - Times Cited Scopus: 20 - Times Cited Google Scholar: 31

### - Talk

1	Postolache, O. (2025). Smart Sensors and AI for Precision Agriculture. International Conference on Sustainable Technology in Energy and Power Systems.
2	Postolache, O. (2024). Smart Sensing Systems and AI for Precision Agriculture - Tutorial. International Instrumentation and Measurement Technical Conference I2MTC 2024.
3	Postolache, O. (2024). Smart Sensing Systems and AI for Precision Agriculture in Climate Changes Era. International Symposium on Instrumentation Systems, Circuits, and Transducers – INSCIT.
4	Postolache, O. (2023). Smart Sensing Systems and AI for Precision Agriculture in Climate Changes Era. International Conference on Sensing Technology.
5	Postolache, S., Sebastião, P., Viegas, V. & Postolache, O. (2023). IoT Smart Sensor System for Soil Characteristics Monitoring in a Vineyard. International Scientific Conference .
6	Postolache, O. (2023). Smart Sensing Systems and AI for Precision Agriculture in Climate Changes Era. International Conference PuneCON.
7	Postolache, O. (2023). AAL and Beyond: From Sensors and Instrumentation to AI. International Workshop Smart Systems for AAL.
8	Postolache, O. (2023). Smart Systems and AI for Precision Agriculture. International Conference on Sensing Technology.
9	Postolache, O. (2023). Smart City Air Quality Monitoring supported IoT ecosystem. International Conference on Sensing Technology. - Times Cited Google Scholar: 1
10	Batista, André, Postolache, O., Mendes, D. A., Reis, E. & undefined (2022). Memory Training Interface for Elderly based on Mobile APP. 2022 International Conference and Exposition on Electrical And Power Engineering (EPE).
11	Postolache, O. (2022). Physical Therapy Gait Assessment based on Smart Sensing and Cloud Services. International Symposium on Sensing and Instrumentation in 5G and IoT Eras.
12	Postolache, O. (2022). IoT Smart Sensor System for Soil Characteristics Monitoring in a Vineyard. International Scientific Conference "Sustainable Agriculture and Rural Development III.

13	Postolache, O. (2021). Length of Stay Analysis at Neonatal Care Units with Data Science - Preliminary Results. 2021 IEEE International Symposium on Medical Measurements and Applications (MeMeA).
14	Postolache, O. (2020). Smart Sensors for Physical Therapy in IoT Era. Al Farabi Kazach National Univesrity Seminar.
15	Postolache, O. (2020). Smart Sensors and Tailored Environments for Neuro-Motor Rehabilitation Monitoring in IoT Era. IEEE IMS Virtual DL Webinar Series.
16	Postolache, O. (2020). Smart Sensors and Tailored Environments for Physical Therapy in IoT Era. International School on IoT Boosting Education of IoT for Modernization and Employability.
17	Postolache, O. (2020). Smart Sensors and Tailored Environments for Neuro-Motor Rehabilitation Monitoring in IoT Era. Trinity College Dublin Seminar.
18	Postolache, O. (2020). Smart Sensing for Physical Therapy in IoT Era: AR, VR and Thermography Applications. IEEE 2020 IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI .
19	Arriaga, P., Alexandre, J., Postolache, O., Fonseca, M.J., Langlois, T. & Chambel, T. (2019). Why do we watch? The role of emotional, cognitive and social gratifications in predicting movie recommendation, rewatchability and genre preferences. 16th European Congress of Psychology.
20	Postolache, O. (2019). Smart Tailored Environments for Neuro-Motor Rehabilitation Monitoring in IoT Era. IEEE IMS Seminar Auckland New Zealand.
21	Reis, E., Postolache, G., Teixeira, L., Arriaga, P., Lima, M. L. & Postolache, O. (2018). Exergames for motor rehabilitation in older adults: An umbrella review. 12º Congresso Nacional de Psicologia da Saúde.
22	Reis, E., Arriaga, P., Lima, M. L., Teixeira, L., Postolache, G. & Postolache, O. (2018). Tailored virtual environments for physiotherapy: Using an exergame to increase motivation for exercise. 12º Congresso Nacional de Psicologia da Saúde.
23	Postolache, O. (2018). Electrospinning Application on Fabrication of PMMA Nanofibers Membranes for Electrochemical Sensors. EPE 2018, Iasi.
24	Postolache, O. (2018). Smart Object for Physical Rehabilitation Assessment. EPE 2018. - Times Cited Web of Science®: 2 - Times Cited Scopus: 2
25	Reis, E., Postolache, O., Arriaga, P., Lima, M. L., Postolache, G., Postolache, G....Teixeira, L. (2017). Personalized physiotherapy environments: a project using a tailored approach, serious games and smart sensors for motor-rehab. XIV Congresso de Psicologia Ambiental – PSICAMB.
26	Ferreira, D., Oliveira, R. & Postolache, O. (2017). Physical Rehabilitation based on Kinect Serious Games. International Conference on Sensing Technology. - Times Cited Web of Science®: 1
27	Postolache, O. (2016). Unobtrusive Sensing and Pervasive Computing for Healthcare. SSD 2016.
28	Arriaga, P., Reis, E. & Postolache, O. (2016). Persuadir com Medo ou Humor? Fluxo Emocional e Eficácia Percebida de Campanhas Antibabágicas. 11º Congresso Nacional de Psicologia da Saúde, Tema: . - Times Cited Google Scholar: 1

29	Arriaga, P., Reis, E. & Postolache, O. (2016). Fear or humor in anti-smoking campaigns? Effects on emotions, perceived effectiveness, and anti-smoking policies. 30th Conference of the EHPS/DHP "Behaviour change: Making an impact on health and health services". - Times Cited Google Scholar: 1
30	Postolache, O. (2015). Modeling and Optimization of Unobtrusive Smart Sensing and Pervasive Computing for Healthcare. Advanced Topics on Electrical Engineering.
31	Postolache, O., F. Cary, N. Duarte & Girão, P.M (2015). Physiotherapy Assessment based on Kinect and Mobile APPs ,. International Conference on Information Intelligence and Applications. 1, 1-6
32	Reis, E., Arriaga, P. & Postolache, O. (2015). Effect of fearful and humorous anti-smoking campaigns on perceived effectiveness in preventing and reducing tobacco consumption. XI PhD Meeting in Social and Organizational Psychology, ISCTE-IUL.
33	Postolache, G., Pedro, L., Oliveira, R. & Postolache, O. (2015). Older adults: are they ready to adopt ICT for physical therapy? . People Inc Asia -Oceania Congress For Neurorehabilitation AOCNR.
34	Postolache, O. (2015). Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physical Rehabilitation Monitoring. Workshop Massey University.
35	Reis, E., Arriaga, P. & Postolache, O. (2015). Emotional Flow Monitoring for Health using FLOWSENSE: An experimental study to test the impact of Antismoking Campaigns. IEEE International Conference on e-Health and Bioengineering, IEEE-EHB 2015.
36	Postolache, O. (2015). Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physiotherapy Monitoring. International Conference on Sensor Technology.
37	Reis, E., Arriaga, P. & Postolache, O. (2015). Effect of Fearful and Humorous Anti-smoking Campaigns on the Perception of their Effectiveness in Preventing and Reducing Tobacco Consumption. XI PhD Meeting in Social and Organizational Psychology.
38	Postolache, O., Girão, P. M., Dias Pereira, J. M & Postolache, G. (2015). Wearable System for Gait Assessment during Physical Rehabilitation Process. International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING. ATEE 2015. 1, 1-6
39	Postolache, O. (2015). Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physiotherapy Monitoring. 7th Seminar on Electronics and Advanced Design.
40	Postolache, O. (2015). Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physical Rehabilitation Monitoring. Trend in Instrumentation and Measurements Workshop Portugal - Brasil.
41	Oliveira, R., Postolache, G., Moreira, I., Mariano, J., Pedro, L., Vicente, S....Postolache, O. (2015). Perspectivas dos fisioterapeutas sobre o registo de saúde electrónico em fisioterapia. 9º Congresso Nacional de Fisioterapeutas.
42	Postolache, O. (2015). Unobtrusive Smart Sensing and Pervasive Computing for Healthcare: Cardiorespiratory and Physiotherapy Monitoring. Workshop Universidade Santa Catarina, Florianopolis.
43	F. Cary & Postolache, O. (2014). Kinect Based System and Serious Game Motivating Approach for Physiotherapy Assessment and Remote Session Monitoring. International Conference on Sensing Technology. 1, 1-6

44	V. Viegas, M. Dias Pereira, Postolache, O. & Girão, P.M (2014). Viegas, V.V.; Dias Pereira, J. M.; Postolache, O.; Girão, P.M. Proc International Conf. and Exposition on Electrical and Power Engineering - EPE, Iasi, Romania. 1, 1-5
45	L. Costa, R. Madeira & Postolache, O. (2014). PhysioMate - Pervasive Physical Rehabilitation based on NUI and Gamification. International Workshop on Electromagnetic Compatibility and Engineering in Medicine and Biology - EPE-W. 1, 1-6
46	Postolache, O., V, Girão, P.M, M. Dias Pereira & G. Postolache (2014). Toward developing a smart wheelchair for user physiological stress and physical activity monitoring. IEEE International Symposium on Medical Measurements and Applications (MeMeA), 2014. 1, 1-6
47	Postolache, G., Postolache, O. & Girão, P.M (2014). Applying Smartphone Apps to Drive Greater Patient Engagement in Personalized Physiotherapy . IEEE International Symposium on Medical Measurements and Applications. 1, 1-6

## • Other Publications

### - Working Papers

1	Carvalho, J., Postolache, G., Postolache, G., Arriaga, P., Teixeira, L., Lima, M. L....Postolache, O. (2018). Exergames for motor rehabilitation in older adults: an umbrella review of systematic reviews and meta-analysis.
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### - Non-peer-reviewed papers

1	Dias Pereira, J. M, Viegas, V., V, Postolache, O., Girão, P. M. & P.S. Girao (2019). A Dual Measurement and Stimulating System to Monitor and Promote NNS. Journal of Physics: Conference Series (JPCS).
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### - Other publications

1	Reis, E., Teixeira, L., Postolache, G., Arriaga, P., Lima, M. L. & Postolache, O. (2017). Exergames for motor rehabilitation in older adults: an umbrella review of systematic reviews and meta-analysis. International prospective register of systematic reviews (PROSPERO) .
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Research Projects			
Project Title	Role in Project	Partners	Period
Soluções inteligentes para uma agricultura sustentável, preditiva e autónoma	Researcher	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 Agrária - (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

Evaluation of agro-ecological development potential through transnational cooperation and entrepreneurial innovation	Local Coordinator	IT-Iscte, UNIVERSITATEA DIN BUCURESTI - Leader (Romania), UNIVERSITA DEGLI STUDI DI CATANIA - (Italy), Institute of Agricultural Economics - (Serbia), ACADEMIA DE STUDII ECONOMICE DIN BUCURESTI - (Romania)	2019 - 2022
AWESOME! Awareness While Experiencing and Surfing On Movies through Emotions	Researcher	CIS-Iscte (BEC), IT-Iscte, IT-IUL - (Portugal), FCUL - Leader (Portugal)	2018 - 2021
WeHope - Wearable e-health optical fiber monitoring system	Local Coordinator	IT-Iscte	2016 - 2018
Smart Sensors and Tailored Environments for Physiotherap	Local Coordinator	IT-Iscte	2016 - 2019
Remaining Life Evaluation of Catalytic Furnace Tubes	Local Coordinator	IT-Iscte	2014 - 2016
Electronic Health Records: Needs, Requirements, and Barriers of Adoption in Physiotherapy	Local Coordinator	IT-Iscte	2013 - 2015
INTEROPERABLE MONITORING, DIAGNOSIS AND MAINTENANCE STRATEGIES FOR AXLE BEARINGS	Local Coordinator	IT-Iscte	2011 - 2015
Kernel Method Applied to Non Destructive Evaluation	Local Coordinator	IT-Iscte	2011 - 2013
Optical Measurement of Guided Acoustic Waves in Solid Media	Local Coordinator	IT-Iscte	2011 - 2013
Spectrum Monitorization and Control. Integration of Infrastructures	Local Coordinator	IT-Iscte	2010 - 2020
Electronic Health Records for Wheelchairs Users	Local Coordinator	IT-Iscte	2010 - 2012
HomeTelecare	Local Coordinator	IT-Iscte	2020
Water Quality Assessment in Sado Estuary	Local Coordinator	IT-Iscte	2010 - 2012

Intelligence in Laboratories	Local Coordinator	IT-Iscte	2010 - 2012
Detection, Classification and Estimation of Defects in Metallic Plates Subject to Manual Inspection	Local Coordinator	IT-Iscte	2008 - 2010
Flaw Imaging in Metals by Contactless Conductivity	Local Coordinator	IT-Iscte	2007 - 2011
Listening Dolphins and Measuring the Water Quality where they Live	Local Coordinator	IT-Iscte	2006 - 2008
Smart System for Monitoring of Wild Dolphin - Antropogenic Factors Interactions	Local Coordinator	IT-Iscte	2005 - 2008
Dolphins and Water	Local Coordinator	IT-Iscte	2005 - 2007
Instrumentation Distributed System for Environmental Monitoring	Local Coordinator	IT-Iscte	2002 - 2004
Update and Extension of the Measuring Capabilities of the Instrumentation and Measurement Group of the Institute of Telecommunications - Lisbon	Local Coordinator	IT-Iscte	2002 - 2006
Global Monitoring Based on Smart Sensors for Environment Quality	Local Coordinator	IT-Iscte	2001 - 2005

## Academic Management Positions

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

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

Membro (Docente) (2025 - 2027)  
Unit/Area: Plenário do Conselho Científico

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

Coordenador do 1º Ano (2024 - 2025)  
Unit/Area: Bachelor Degree in Digital Technologies and Automation

<p>Coordenador do 1º Ano (2023 - 2024) Unit/Area: Bachelor Degree in Digital Technologies and Automation</p>
<p>Director (2023 - 2025) Unit/Area: Bachelor Degree in Digital Technologies and Automation</p>
<p>Director (2023) Unit/Area: Bachelor Degree in Digital Technologies and Automation</p>
<p>Director (2023) Unit/Area: [0405] Smart Systems for Ambient Assisted Living - AAL Everywhere</p>
<p>Director (2022 - 2023) Unit/Area: Doctorate Degree (PhD) in Information Science and Technology</p>
<p>Director (2022) Unit/Area: [0405] Smart Systems for Ambient Assisted Living - AAL Everywhere</p>
<p>Director (2022 - 2023) Unit/Area: Bachelor Degree in Digital Technologies and Automation</p>
<p>Director (2021) Unit/Area: [0372] Smart Systems for Ambient Assisted Living</p>
<p>Membro (Docente) (2021 - 2023) Unit/Area: Plenário do Conselho Científico</p>
<p>Director (2020 - 2022) Unit/Area: Doctorate Degree (PhD) in Information Science and Technology</p>
<p>Presidente (2020 - 2023) Unit/Area: Comissão Científica</p>
<p>Membro (Docente) (2020 - 2023) Unit/Area: Comissão Científica</p>
<p>Membro (Docente) (2020 - 2023) Unit/Area: Plenário da Comissão Científica</p>
<p>Director (2020 - 2023) Unit/Area: Institute of Telecommunications-IUL</p>
<p>Membro (Docente) (2019 - 2021) Unit/Area: Plenário do Conselho Científico</p>
<p>Director (2018 - 2020) Unit/Area: Doctorate Degree (PhD) in Information Science and Technology</p>
<p>Membro (Docente) (2017 - 2020) Unit/Area: Comissão Científica</p>
<p>Director (2017 - 2020) Unit/Area: Institute of Telecommunications-IUL</p>
<p>Membro (Docente) (2017 - 2019) Unit/Area: Plenário do Conselho Científico</p>
<p>Presidente (2017 - 2020) Unit/Area: Comissão Científica</p>
<p>Director (2016 - 2018) Unit/Area: Doctorate Degree (PhD) in Information Science and Technology</p>
<p>Sub-diretor (2014 - 2017) Unit/Area: Institute of Telecommunications-IUL</p>

Membro (2014 - 2017)  
Unit/Area: Comissão Científica

## Awards

Best Performing Associate Editor for 2013, IEEE Sensors Journal (2013)

## Professional Associations

IEEE Intelligent Transportation Society (2018 - 2020)

IEEE Engineering in Medicine & Biology Society (2009 - 2020)

IEEE Instrumentation and Measurement Society (1999 - 2020)

## Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Coordination of scientific event (with scientific committee) at ISCTE-IUL	IEEE International Conference on Sensing Technology, ICST 2024, Sydney Australia	IEEE, Macquarie University of Sydney	2024
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	IEEE International Symposium on Sensing and Instrumentation in IoT and 5G Era	IEEE, IT, ISCTE, SMU	2024
Coordination of scientific event (with scientific committee) at ISCTE-IUL	BIP Erasmus + Smart Systems for AAL	IEEE, IT, ISCTE	2024
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	International Symposium on Sensing and Instrumentation in 5G and IoT Era	IEEE, IT, SMU, ISCTE	2022
Coordination of scientific event (with scientific committee) at ISCTE-IUL	International Symposium on Sensing and Instrumentation in IoT Era - ISSI 2019	Octavian Adrian Postolache	2019
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	INSTICC SensorNets 2013 Barcelona	Octavian Postolache	2013

## Scientific Editing/Reviewing Activities

Type of Activity	Journal Title	ISSN/Quartile	Period	Language
Member of scientific journal editing staff	IEEE Sensors Journal	1530-437X / Q1 (T10)	2024	English
Member of scientific journal editing staff	IEEE Transaction on Instrumentation and Measurement	1557-9662 / Q1 (T5)	2024	English

Member of scientific journal editing staff	Internet of Things	2542-6605 / Q1 (T5)	2024	English
Scientific journal editor	IEEE Sensors Journal	1530-437X / Q1 (T10)	2023 - 2024	English
Scientific journal editor	Sensors MDPI	1424-8220 / Q1 (T10)	2022 - 2023	English
Scientific journal editor	IEEE Sensors Journal	1530-437X / Q1 (T10)	2022 - 2023	English
Scientific journal editor	IEEE Transaction on Instrumentation and Measurement	1557-9662 / Q1 (T5)	2022 - 2023	English
Scientific journal editor	Sensors MDPI open Journal	--	Since 2018	English
Member of scientific journal editing staff	IEEE Transaction on Instrumentation and Measurement	--	2016 - 2017	English
Member of scientific journal editing staff	IEEE Sensors Journal	--	Since 2012	English