João Monge

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Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2026/2027	2º	Algorithms and Data Structures	Bachelor Degree in Mathematics Applied and Digital Technologies; Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Digital Technologies and Health; Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2026/2027	2º	Entrepreneurship and Innovation II	Bachelor Degree in Digital Technology and Sustainable Built Environment;	No
2026/2027	2º	Operating Systems and Virtualization	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development;	No

2026/2027	1º	Computer Architecture	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development;	No
2025/2026	2º	Algorithms and Data Structures	Bachelor Degree in Software and Applications Development; Bachelor Degree in Digital Technologies and Artificial Intelligence;	No
2025/2026	2º	Introduction to Data Science	Training Course in Data Science & Business Analytics;	No
2025/2026	1º	Computer Architecture	Bachelor Degree in Digital Technologies and Information Security;	No
2024/2025	2º	Algorithms and Data Structures	Bachelor Degree in Mathematics Applied and Digital Technologies; Bachelor Degree in Digital Technologies and Information Security;	No
2024/2025	1º	Quality Control and Artificial Vision	Bachelor Degree in Digital Technologies and Automation;	Yes
2024/2025	1º	Programming Fundamentals	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Software and Applications Development;	No
2023/2024	2º	Algorithms and Data Structures	Bachelor Degree in Mathematics Applied and Digital Technologies; Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Digital Technologies and Health;	No
2023/2024	1º	Programming Fundamentals	Bachelor Degree in Digital Technologies and Information Security; Bachelor Degree in Digital Technologies and Health;	No
2022/2023	2º	Algorithms and Data Structures		No
2022/2023	2º	Programming Fundamentals		No
2019/2020	1º	Programmable Electronics and Digital Signal Processing	Bachelor Degree in Telecommunications and Computer Engineering;	No

Supervisions

- **M.Sc. Dissertations**

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Alexandre Rosa Feijó	MIX-Phys: Mixed Reality for Physical Rehabilitation	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Miguel Gil Ferreira Vaz Gaspar	Serious Game in Augmented Reality 3D for Physical Rehabilitation	English	Iscte	2023
2	João Pedro da Silva Neves	M-R-I-o-T: MR and IoT for Physical Rehabilitation	Portuguese	Iscte	2022

Total Citations

Web of Science®	60
Scopus	135

Publications

• Scientific Journals

- Scientific journal paper

1	Pereira, J. D., Monge, J. & Postolache, O. (2024). Measurement and applications: Electrochemical sensors and instruments: Main characteristics and applications. IEEE Instrumentation and Measurement Magazine. 27 (1), 18-25 - Times Cited Web of Science®: 7 - Times Cited Scopus: 12 - Times Cited Google Scholar: 14
2	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. Sensors. 24 (13) - Times Cited Web of Science®: 7 - Times Cited Scopus: 8 - Times Cited Google Scholar: 12
3	Monge, J., Raimundo, A., Ribeiro, G., Postolache, O. & Santos, J. (2023). AI-based smart sensing and AR for gait rehabilitation assessment. Information. 14 (7) - Times Cited Web of Science®: 13 - Times Cited Scopus: 21 - Times Cited Google Scholar: 33

• Books and Book Chapters

- Book chapter

1	Postolache, O., Monge, J., Alexandre, R., Oana Geman, Yu Jin & Postolache, G. (). Virtual Reality and Augmented Reality Technologies for Smart Physical Rehabilitation. In (pp. 155-180). - Times Cited Scopus: 18 - Times Cited Google Scholar: 28

• Conferences/Workshops and Talks

- Publication in conference proceedings

1	Monge, J., Pereira, J. M. C. D. & Postolache, O. (2025). Multi-channel Mobile Potentiostat for Real-Time Multi-Analyte Detection. In IEEE Advanced Topics in Electrical Engineering - ATEE.
2	Gaspar, M., Postolache, O., Monge, J. & Mendes, J. (2023). Augmented reality serious games for smart physical rehabilitation. In 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE). (pp. 1-6). Bucharest, Romania: IEEE. - Times Cited Scopus: 5 - Times Cited Google Scholar: 6
3	Neves, J., Postolache, O., Monge, J. & Pereira, J. (2022). Mixed reality and IoT for physical rehabilitation. In Grigore, T. (Ed.), 2022 10th E-Health and Bioengineering Conference, EHB 2022. Iasi, Romania: IEEE. - Times Cited Scopus: 5 - Times Cited Google Scholar: 7
4	Paredes, T., Postolache, O., Monge, J. & Girão, P. (2021). Gait rehabilitation system based on mixed reality. In 2021 Telecoms Conference (ConfTELE). (pp. 1-6). Leiria, Portugal: IEEE. - Times Cited Scopus: 6 - Times Cited Google Scholar: 11
5	Monge, J., Postolache, O., Alexandre, R., Domingues, M. F., Antunes, P. & Viegas, V. (2020). Fiber bragg gratings solution for gait assessement. In 2020 IEEE International Instrumentation and Measurement Technology Conference (I2MTC). Dubrovnik, Croatia: IEEE. - Times Cited Scopus: 7 - Times Cited Google Scholar: 10
6	Monge, J., Postolache, O., Trandabat, A. & Macovei, S. (2020). Multi-node potentiostat device and multiplatform mobile application for on-field measurements. In Gavrilas M., Neagu B.-C. (Ed.), EPE 2020 - Proceedings of the 2020 11th International Conference and Exposition on Electrical And Power Engineering. (pp. 695-698). Iasi: IEEE. - Times Cited Scopus: 6 - Times Cited Google Scholar: 5
7	Monge, J., Postolache, O., Plopa, O., Trandabat. A., Schreiner, O. & Schreiner, T. (2019). Glucose detection in sweat using biosensors. In 2019 E-Health and Bioengineering Conference (EHB). Iasi, Romania: IEEE. - Times Cited Web of Science®: 7 - Times Cited Scopus: 7 - Times Cited Google Scholar: 10
8	Monge, J., Postolache, O., Trandabat, A., Macovei, S. & Burlacu, R. (2019). Mobile potentiostat IoT compatible. In 2019 International Conference on Sensing and Instrumentation in IoT Era (ISSI). Lisbon, Portugal: IEEE. - Times Cited Scopus: 4 - Times Cited Google Scholar: 4
9	Jin, Y., Monge, J., Postolache, O. & Niu, W. (2019). Augmented reality with application in physical rehabilitation. In 2019 International Conference on Sensing and Instrumentation in IoT Era (ISSI). Lisbon, Portugal: IEEE. - Times Cited Scopus: 7 - Times Cited Google Scholar: 13

10	Monge, J. & Postolache, O. (2018). Augmented reality and smart sensors for physical rehabilitation. In International Conference and Exposition on Electrical And Power Engineering, EPE 2018. (pp. 1010-1014). Iasi: IEEE. - Times Cited Web of Science®: 26 - Times Cited Scopus: 29 - Times Cited Google Scholar: 47