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Research Interests

Microelectronics
Analog CT filter design
Magnetic recording
NIALM - Non-Intrusive Appliance Load Monitoring
Machine Learning

Academic Qualifications

University/Institution	Type	Degree	Period
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Iscte-IUL	PhD	Ciências e Tecnologias da Informação	2015
Instituto Superior Técnico - UTL	Licenciante	Engenharia Electrotécnica e de Computadores	1994

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2025/2026	2º	Operating Systems	Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering;	No
2020/2021	2º	Introduction to Programming	Bachelor Degree in Computer Science and Business Management;	Yes
2020/2021	1º	Fundamentals of Computer Architecture	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering;	No
2019/2020	2º	Circuits for Communications		Yes
2012/2013	2º	Electronic Circuits and Systems		No
2011/2012	2º	Circuit Theory		No
2011/2012	1º	Computer Architecture		No
2009/2010	1º	Mechanics and Electricity		Yes

Supervisions

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Ricardo Miranda	Semi-Automated Code Migration of Legacy Systems Using Large Language Models	English	Developing	Iscte
2	Fareeha Sarwar	Impact of Dimension Reduction on Medical Data Analysis Using Machine Learning Classifiers	English	Developing	Iscte
3	Fareeha Sarwar	An Application of Deep Learning to Healthcare	English	Developing	Iscte

• M.Sc. Dissertations

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Samuel António Beecher Martins	Port request classification automation through NLP	English	Iscte	2024
2	Tiago Filipe Martinho Soares	Automatic Question Generation about Introductory Programming Code	English	Iscte	2021
3	Francisco Miguel da Anunciação Alfredo	Pedagogical Code Quality Checker	English	Iscte	2020
4	Bruno Miguel Filipe da Costa Coitos	An Intelligent System for Interactive Visits in Smart Places	English	Iscte	2019
5	João Filipe Machado de Matos Fernandes	System for Detection of Parking Zones for Smart Cities	Portuguese	Iscte	2018
6	José Joaquim Nunes Monteiro	--	--	Iscte	2011

Total Citations

Web of Science®	13
Scopus	43

Publications

• Scientific Journals

- Scientific journal paper

1	Coitos, B., Serrão, C. & Garrido, N. (2019). An interactive location system for smart places. INTSYS 2019: 3rd EAI International Conference on Intelligent Transport Systems.
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• Books and Book Chapters

- Book chapter

1	Garrido, N., Serrão, C. & Coitos, B. (2021). An interactive visiting system using BLE devices. In Fausto Pedro García Márquez, Benjamin Lev (Ed.), Internet of things: cases and studies. (pp. 135-153): Springer.
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• Conferences/Workshops and Talks

- Publication in conference proceedings

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. In 2025 47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). (pp. 1-6). Copenhagen, Denmark: IEEE.
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2	<p>Martins, S., Garrido, N. & Sebastião, P. (2024). Port request classification automation through NLP. In Maria Manuela Cruz-Cunha, Dulce Domingos, Emanuel Peres, Rui Rijo (Ed.), <i>Procedia Computer Science</i>. (pp. 1927-1934). Porto: Elsevier.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Google Scholar: 3</p>
3	<p>Martins, S., Garrido, N. & Sebastião, P. (2023). Port request classification automation through NLP. In <i>Procedia Computer Science</i>. (pp. 1-8): Elsevier.</p>
4	<p>Sarwar, F., Garrido, N., Sebastião, P. & Rehan, A. (2023). Examination of unremitting kidney illness by utilizing machine learning classifiers. In Kommers, P., Macedo, M., Peng, G. C., and Abraham, A. (Ed.), <i>International Conferences on ICT, Society and Human Beings 2023, e-Health 2023, Connected Smart Cities 2023, and Big Data Analytics, Data Mining and Computational Intelligence 2023: Part of the Multi Conference on Computer Science and Information Systems 2023</i>. (pp. 191-198). Porto, Portugal: IADIS Press.</p> <p>- Times Cited Google Scholar: 1</p>
5	<p>Alfredo, F., Santos, A. L. & Garrido, N. (2022). <i>Sprinter: A didactic linter for structured programming</i>. In Simões, A., and Silva, J. C. (Ed.), <i>OpenAccess Series in Informatics</i>. Barcelos: Schloss Dagstuhl- Leibniz-Zentrum fur Informatik GmbH, Dagstuhl Publishing.</p> <p>- Times Cited Scopus: 3 - Times Cited Google Scholar: 9</p>
6	<p>Santos, A. L., Soares, T., Garrido, N. & Lehtinen, T. (2022). Jask: Generation of questions about learners' code in Java. In Brett A. Becker, Keith Quille, Mikko-Jussi Laakso, (Ed.), <i>ITiCSE '22: Proceedings of the 27th ACM Conference on on Innovation and Technology in Computer Science Education</i>. (pp. 117-123). Dublin: Association for Computing Machinery.</p> <p>- Times Cited Web of Science®: 5 - Times Cited Scopus: 8 - Times Cited Google Scholar: 16</p>
7	<p>Coitos, B., Serrão, C. & Garrido, N. (2019). MOG - A smart mobile system for interactive museum visits. In Kommers, P., and Peng, G. C. (Ed.), <i>Multi Conference on Computer Science and Information Systems, MCCSIS 2019 - Proceedings of the International Conferences on ICT, Society and Human Beings 2019, Connected Smart Cities 2019 and Web Based Communities</i>. (pp. 191-198). Porto: IADIS Press.</p>
8	<p>Fernandes, J., Serrão, C. & Garrido, N. (2018). Development of a low-cost smart parking solution for smart cities. In <i>4th International Conference on Connected Smart Cities 2018</i>. (pp. 146-153). Madrid: IADIS.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 1</p>
9	<p>Serrão, C. & Garrido, N. (2018). A low-cost smart parking solution for smart cities based on open software and hardware. In Monteiro, V., Ferreira, J. C., and Martins, A. L. (Ed.), <i>Intelligent Transport Systems, From Research and Development to the Market Uptake. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i>. (pp. 15-25). Guimarães: Springer.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Scopus: 4 - Times Cited Google Scholar: 8</p>
10	<p>Fernandes, J., Serrão, C. & Garrido, N. (2018). A low-cost smart parking solution for smart cities based on open software and hardware. In Springer (Ed.), <i>INTSYS 2018 - 2nd EAI International Conference on Intelligent Transport Systems</i>. (pp. 15-25). Guimarães: Springer.</p>
11	<p>Garrido, N. & Cercas, F. (2014). Equalization in hard disk drive read channels. In IEEE (Ed.), <i>21 st International Conference on Telecommunications (ICT)</i>. Lisboa: IEEE.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Google Scholar: 1</p>

12	<p>Monteiro, J., Garrido, N. & Fonseca, R. (2011). Efficient supercapacitor energy usage in mobile phones. In IEEE International Conference on Consumer Electronics -Berlin (ICCE-Berlin). (pp. 318-321). Berlin: IEEE.</p> <p>- Times Cited Scopus: 16</p> <p>- Times Cited Google Scholar: 22</p>
13	<p>Monteiro, J., Garrido, N. & Fonseca, R. A. (2011). An experimental study of an efficient supercapacitor stacking scheme to power mobile phones. In IEEE 33rd International Telecommunications Energy Conference (INTELEC). Amsterdam: IEEE.</p> <p>- Times Cited Scopus: 3</p> <p>- Times Cited Google Scholar: 5</p>
14	<p>Monteiro, J., Garrido, N. & Fonseca, R. A. (2011). An experimental study of an efficient supercapacitor stacking scheme to power mobile phones. In INTELEC 2011 - 2011 33rd International Telecommunications Energy Conference.</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Google Scholar: 5</p>
15	<p>Garrido, N. & Franca, J. (1998). An auto-biased 0.5um CMOS transconductor for very high frequency applications. In IEEE (Ed.), IEEE International Symposium on Circuits and Systems. (pp. 325-328). Monterey: IEEE.</p> <p>- Times Cited Web of Science®: 1</p> <p>- Times Cited Scopus: 2</p> <p>- Times Cited Google Scholar: 3</p>
16	<p>Garrido, N., Franca, J., Garrido, N. & Franca, J. (1998). A continuous-time area detector servo demodulator for hard disk drives. In IEEE (Ed.), Proc. of the IEEE International Conference on Electronics, Circuits, and Systems (ICECS) . (pp. 127-130): IEEE.</p> <p>- Times Cited Scopus: 1</p> <p>- Times Cited Google Scholar: 2</p>
17	<p>Garrido, N., Franca, J. & Kenney, J. (1997). Comparative study of two adaptive continuous-time filters for decision feedback equalization read channels. In Proceedings - IEEE International Symposium on Circuits and Systems. (pp. 89-92). Hong Kong: IEEE.</p> <p>- Times Cited Web of Science®: 3</p> <p>- Times Cited Scopus: 5</p> <p>- Times Cited Google Scholar: 14</p>

- Talk

1	<p>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.</p>
2	<p>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.</p>
3	<p>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.</p>
4	<p>Coitos, B., Serrão, C. & Garrido, N. (2019). MOG - a smartmobile system for interactive museum visits. International Conference on Connected Smart Cities.</p>

5	Fernandes, J., Serrão, C. & Garrido, N. (2018). Development of a Low-Cost Smart Parking Solution For Smart Cities . International Conference Connected Smart Cities 2018 (CSC 2018).
6	Garrido, N. & Franca, J. (1998). A continuous-time area detector servo demodulator for hard disk drives. IEEE International Conference on Electronics, Circuits, and Systems (ICECS) .
7	Garrido, N. (1998). Auto-biased 0.5 μm CMOS transconductor for very high frequency applications. Proceedings - IEEE International Symposium on Circuits and Systems.

• Other Publications

- Other publications

1	Garrido, N. (2013). Available Techniques for Magnetic Hard Disk Drive Read Channel Equalization. Research Gate. - Times Cited Google Scholar: 8
2	Garrido, N. (1997). BG004 Bandgap Voltage Reference. Tech. Report. - Times Cited Google Scholar: 2
3	Garrido, N. (1997). Design of Analog Cells for AT78C1000. Tech. Report. - Times Cited Google Scholar: 2

- Doctoral Thesis

1	Garrido, N. (2015). Design of adaptive analog filters for magnetic front-end read channels.
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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), Adegas Cooperativas 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

Academic Management Positions

Coordenador do 1º Ano (2025 - 2028)
Unit/Area: Bachelor Degree in Computer Engineering

Coordenador do 1º Ano (2025 - 2028)
Unit/Area: Bachelor Degree in Computer Engineering (PL)

Membro (Docente) (2025 - 2027)
Unit/Area: Comissão Pedagógica

Coordenador do 1º Ano (2023 - 2025)
Unit/Area: Bachelor Degree in Computer Engineering

Coordenador do 1º Ano (2023 - 2025)
Unit/Area: Bachelor Degree in Computer Engineering (PL)