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## Nuno Miguel de Figueiredo Garrido

### Professor Auxiliar

Instituto de Telecomunicações - IUL

Department of Information Science and Technology (ISTA)



### Contacts

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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
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
2026/2027	2º	Operating Systems	Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering;	No
2026/2027	1º	Introduction to Programming	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
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 Montelro	--	--	Iscte	2011

## Total Citations

Web of Science®	17
Scopus	45

## 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. & Margarida Silveira (2026). Enhancing Mammogram-Based Breast Cancer Prediction From Pretrained Vision-Language Models: the Role of Soft Prompts and Bidirectional Fusion. In 2026 IEEE 23rd International Symposium on Biomedical Imaging (ISBI). (pp. 1-5). London, United Kingdom: IEEE.
2	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.
3	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.), Procedia Computer Science. (pp. 1927-1934). Porto: Elsevier. - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 5
4	Martins, S., Garrido, N. & Sebastião, P. (2023). Port request classification automation through NLP. In Procedia Computer Science. (pp. 1-8): Elsevier.
5	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.), 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. (pp. 191-198). Porto, Portugal: IADIS Press. - Times Cited Google Scholar: 1
6	Alfredo, F., Santos, A. L. & Garrido, N. (2022). Sprinter: A didactic linter for structured programming. In Simões, A., and Silva, J. C. (Ed.), OpenAccess Series in Informatics. Barcelos: Schloss Dagstuhl- Leibniz-Zentrum fur Informatik GmbH, Dagstuhl Publishing. - Times Cited Web of Science®: 1 - Times Cited Scopus: 3 - Times Cited Google Scholar: 10
7	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.), ITiCSE '22: Proceedings of the 27th ACM Conference on on Innovation and Technology in Computer Science Education. (pp. 117-123). Dublin: Association for Computing Machinery. - Times Cited Web of Science®: 8 - Times Cited Scopus: 9 - Times Cited Google Scholar: 20
8	Coitos, B., Serrão, C. & Garrido, N. (2019). MOG - A smart mobile system for interactive museum visits. In Kommers, P., and Peng, G. C. (Ed.), 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. (pp. 191-198). Porto: IADIS Press.

9	<p>Fernandes, J., Serrão, C. &amp; Garrido, N. (2018). Development of a low-cost smart parking solution for smart cities. In 4th International Conference on Connected Smart Cities 2018. (pp. 146-153). Madrid: IADIS.</p> <p>- Times Cited Scopus: 1 - Times Cited Google Scholar: 1</p>
10	<p>Serrão, C. &amp; 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.), Intelligent Transport Systems, From Research and Development to the Market Uptake. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering. (pp. 15-25). Guimarães: Springer.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Scopus: 4 - Times Cited Google Scholar: 8</p>
11	<p>Fernandes, J., Serrão, C. &amp; Garrido, N. (2018). A low-cost smart parking solution for smart cities based on open software and hardware. In Springer (Ed.), INTSYS 2018 - 2nd EAI International Conference on Intelligent Transport Systems. (pp. 15-25). Guimarães: Springer.</p>
12	<p>Garrido, N. &amp; Cercas, F. (2014). Equalization in hard disk drive read channels. In IEEE (Ed.), 21 st International Conference on Telecommunications (ICT). Lisboa: IEEE.</p> <p>- Times Cited Web of Science®: 1 - Times Cited Google Scholar: 1</p>
13	<p>Monteiro, J., Garrido, N. &amp; 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 - Times Cited Google Scholar: 22</p>
14	<p>Monteiro, J., Garrido, N. &amp; 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 - Times Cited Google Scholar: 5</p>
15	<p>Monteiro, J., Garrido, N. &amp; 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 - Times Cited Google Scholar: 5</p>
16	<p>Garrido, N. &amp; 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 - Times Cited Scopus: 2 - Times Cited Google Scholar: 3</p>
17	<p>Garrido, N., Franca, J., Garrido, N. &amp; 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 - Times Cited Google Scholar: 2</p>

18	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. - Times Cited Web of Science®: 3 - Times Cited Scopus: 5 - Times Cited Google Scholar: 14
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**- Talk**

1	Sarwar, F., Garrido, N., Sebastião, P. & Margarida Silveira (2025). Enhanced Multiple Instance Learning for Breast Cancer Detection in Mammography: Adaptive Patching, Advanced Pooling, and Deep Supervision. Annu Int Conf IEEE Eng Med Biol Soc.
2	Martins, S., Garrido, N. & Sebastião, P. (2023). Port request classification automation through NLP. CENTERIS – International Conference on ENTERprise Information Systems / ProjMAN – International Conference on Project MANagement / HCist – International Conference on Health and Social Care Information Systems and Technologies.
3	Sarwar, F., Garrido, N., Sebastião, P. & Rehan, A. (2023). Examination of unremitting kidney illness by utilizing machine learning classifiers. Multi Conference on Computer Science and Information Systems.
4	Coitos, B., Serrão, C. & Garrido, N. (2019). MOG - a smartmobile system for interactive museum visits. International Conference on Connected Smart Cities.
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 $\mu\text{m}$ 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