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Research Interests

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

Academic Qualifications

University/Institution	Type	Degree	Period

Iscte-IUL	PhD	Ciências e Tecnologias da Informação	2015
Instituto Superior Técnico - UTL	Licenciate	Engenharia Electrotécnica e de Computadores	1994

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2024/2025	2º	Operating Systems	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 (PL); Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2024/2025	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 Telecommunications and Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering; Master Degree in Social and Organizational Modeling;	Yes
2023/2024	2º	Operating Systems	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 (PL); Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No
2023/2024	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 Telecommunications and Computer Engineering (PL); Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering; Master Degree in Social and Organizational Modeling;	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 (PL); Bachelor Degree in Computer Science and Business Management; Bachelor Degree in Telecommunications and Computer Engineering;	No

2019/2020	2º	Circuits for Communications		Yes
2012/2013	2º	Electronic Circuits and Systems		Yes
2011/2012	2º	Circuit Theory	Bachelor Degree in Telecommunications and Computer Engineering (PL); Bachelor Degree in Telecommunications and Computer Engineering;	No
2011/2012	1º	Computer Architecture		No
2009/2010	1º	Mechanics and Electricity	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering (PL);	Yes

Supervisions

• Ph.D. Thesis
- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Fareeha Sarwar	Impact of Dimension Reduction on Medical Data Analysis Using Machine Learning Classifiers	English	Developing	ISCTE-IUL

• M.Sc. Dissertations
- Concluded

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

Total Citations

Web of Science®	7

Scopus	37

Publications

• 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.

• Conferences/Workshops and Talks
- Publication in conference proceedings

1	Martins, S., Garrido, N. & Sebastião, P. (2023). Port request classification automation through NLP. In Procedia Computer Science. (pp. 1-8).: Elsevier.
2	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.
3	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 Scopus: 1 - Times Cited Google Scholar: 2
4	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®: 3 - Times Cited Scopus: 5 - Times Cited Google Scholar: 7
5	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.
6	Coitos, B., Serrão, C. & Garrido, N. (2019). An interactive location system for smart places. In Springer (Ed.), INTSYS 2019: 3rd EAI International Conference on Intelligent Transport Systems. Braga: Springer.
7	Fernandes, J., Serrão, C. & 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. - Times Cited Scopus: 1 - Times Cited Google Scholar: 1

8	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.), 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. - Times Cited Web of Science®: 1 - Times Cited Scopus: 4 - Times Cited Google Scholar: 6
9	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.), INTSYS 2018 - 2nd EAI International Conference on Intelligent Transport Systems. (pp. 15-25). Guimarães: Springer.
10	Garrido, N. & Cercas, F. (2014). Equalization in hard disk drive read channels. In IEEE (Ed.), 21 st International Conference on Telecommunications (ICT). Lisboa: IEEE. - Times Cited Google Scholar: 1
11	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. - Times Cited Scopus: 15 - Times Cited Google Scholar: 20
12	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. - Times Cited Scopus: 3 - Times Cited Google Scholar: 5
13	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. - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
14	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. - Times Cited Scopus: 1 - Times Cited Google Scholar: 3
15	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®: 2 - Times Cited Scopus: 5 - Times Cited Google Scholar: 15

- Talk

1	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.
2	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.

3	Coitos, B., Serrão, C. & Garrido, N. (2019). MOG - a smartmobile system for interactive museum visits. International Conference on Connected Smart Cities.
4	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).
5	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) .
6	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	Monteiro, J., Garrido, N. & Fonseca, R. A. (2011). An experimental study of an efficient supercapacitor stacking scheme to power mobile phones. INTELEC 2011 - 2011 33rd International Telecommunications Energy Conference. - Times Cited Web of Science®: 1
3	Garrido, N. (1997). BG004 Bandgap Voltage Reference. Tech. Report. - Times Cited Google Scholar: 3
4	Garrido, N. (1997). Design of Analog Cells for AT78C1000. Tech. Report. - Times Cited Google Scholar: 3

- Doctoral Thesis

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

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 Agraria - (Portugal), Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa - (Portugal), FLOWAKE - (Portugal), IMPACTWAVE - (Portugal), INESC TEC - (Portugal), Instituto Nacional de Investigação Agrária e Veterinária, I.P. - (Portugal), IPL - (Portugal), Laboratório Colaborativo para a Inovação Digital na Agricultura - (Portugal), Luis Vicente - (Portugal), OPTIMIZEPLANET - (Portugal)	2020 - 2023

Academic Management Positions

Coordenador do 1º Ano (2023 - 2024)
Unit/Area: [9119] Computer Engineering

Coordenador do 1º Ano (2023 - 2024)
Unit/Area: [9885] Computer Engineering (PL)