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João Carlos Marques Silva

Professor Auxiliar

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Curriculum

Aerospace Engineer, specialized in avionics. PhD in Telecommunications. MBA and Master of Management Technology and management expert with interests in strategy and finance.

Research Interests

Telecommunications, physical layer
Artificial Intelligence
Computer Networks
Project management
Business case studies of corporate management
Finance

Academic Qualifications

University/Institution	Type	Degree	Period
ISEG	M.Sc.	Mestrado em Gestão	2016
ISEG	Post-graduation	MBA	2015
ISEG	Post-graduation	CEDE - Competitividade das Empresas e Clusters	2015
Instituto Superior Técnico - UTL	PhD	Engenharia Informática e de Computadores	2006
Instituto Superior Técnico - UTL	Licenciante	Engenharia Aeroespacial	2000
Universidade de Lisboa Instituto Superior Técnico	Integrated M.Sc.	Engenharia Aeroespacial	2000

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2026/2027	2º	Cybersecurity in Software Development	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2026/2027	1º	Network Architectures	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
2025/2026	2º	Cybersecurity in Software Development	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	Yes
2025/2026	1º	Network Architectures	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
2024/2025	2º	Fundamentals of Computer Networks	Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering;	No
2024/2025	2º	Network Security and Management	Bachelor Degree in Telecommunications and Computer Engineering;	Yes

2024/2025	2°	Academic Work with Artificial Intelligence	Institutional Degree in Softskills;	Yes
2024/2025	1°	Network Architectures	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
2024/2025	1°	Academic Work with Artificial Intelligence		Yes
2024/2025	1°	Computer Networks and Security		Yes
2023/2024	2°	Fundamentals of Computer Networks	Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering;	No
2023/2024	2°	Network Security and Management	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2023/2024	2°	Academic Work with Artificial Intelligence		Yes
2023/2024	1°	Network Architectures	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
2023/2024	1°	Academic Work with Artificial Intelligence		Yes
2022/2023	2°	Fundamentals of Computer Networks	Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering;	No
2022/2023	2°	Network Security and Management	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2022/2023	1°	Network Architectures	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
2021/2022	2°	Fundamentals of Computer Networks	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No

2021/2022	2°	Network Security and Management	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2021/2022	1°	Network Architectures	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	2°	Operating Systems	Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management;	No
2020/2021	1°	Network Architectures	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
2019/2020	2°	Digital Networks III - Security, Multimedia and Management		No
2019/2020	1°	Digital Networks II - Systems, Applications and Services		No

Supervisions

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Pedro Ricardo Freitas Coelho	Applied Machine Learning Techniques for 6G Systems	English	Developing	Iscte
2	Diogo Roque Mendes	Design and Development of RIS-aided XL-MIMO Transmission and Reception Schemes	English	Developing	Iscte

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Pedro Miguel Figueiredo Alexandre	Streamlining IoT Public Network Dimensioning: A VBA Automated Template	English	Developing	Iscte

2	Vasco Moreira Pais Tavares	Multi Access Network Dimensioning for public commercial services	--	Developing	Iscte
3	Ricardo Miguel Farinha Gouveia	Utilização de Redes Neurónais para seleção de Beams em redes 5G/6G	--	Developing	Iscte
4	João David dos Anjos Carrusca	Android-based Motorcycle Infotainment with Enhanced Techniques	--	Developing	Iscte
5	Cândido Miguel Dias Calafate Lopes	"Montado 3.0" Technology-Driven Sustainability: The potential of digital transformation in Montado Ecosystems to Tackle Climate Change	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Duarte Miguel Leite Casaleiro	Molecular Communication Schemes for Extreme Environments in Future Wireless Networks	English	Iscte	2024
2	Ricardo Alexandre Cajado Gaspar	Use of neural networks for channel estimation in future 6G networks	Portuguese	Iscte	2023
3	Rodrigo Pinto Valente	Inference Engine applied to the detection of security incidents in an Organization's cyberspace	Portuguese	Iscte	2022
4	Mário João Amaro da Costa	Acquisition and Modelation of Threat Intelligence to Develop a Reputation System	Portuguese	Iscte	2022
5	Alfredo Tiago Fânzeres Nunes Martins	Case study analysis of the relationship between capabilities, practices, challenges, and benefits when employing DevOps	English	Iscte	2022
6	João Nuno Melo Teixeira	VHF coverage supported by an IP network for VoIP application	Portuguese	Iscte	2019
7	André dos Santos Domingos	Quality Function Deployment - Ferramenta de apoio à decisão	Portuguese	Iscte	2016
8	Rui Maciel Casanova Pinto	Negociação Automatizada em Forex	Portuguese	Iscte	2012

• M.Sc. Final Projects

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Antero Henrique de Menezes Correia	--	--	Iscte	2011

Total Citations

Web of Science®	284
Scopus	515

Publications

• Scientific Journals

- Scientific journal paper

1	Mendes, D., Souto, N., Pavia, J. P. & Silva, J. (2026). Optimizing the achievable sum-rate in OFDM-based Multi-User MIMO systems assisted by multiple Beyond-Diagonal RISs. IEEE Open Journal of the Communications Society. 7, 1843-1860
2	Mendes, D., Pavia, J. P., Souto, N., Silva, J. & Correia, A. (2026). Beamforming optimization and system level assessment in RIS-aided MIMO systems comprising hybrid precoding architectures. IEEE Access. 14, 29333-29348
3	Casaleiro, D., Souto, N. M. B. & Silva, J. C. (2024). Synchronization and detection in molecular communication using a deep-learning-based approach. IEEE Access. 12, 192539-192553 - Times Cited Scopus: 1 - Times Cited Google Scholar: 4
4	Souto, N. & Silva, J. (2023). Joint beamforming algorithm for multi-stream MIMO systems assisted by multiple reconfigurable intelligent surfaces. IEEE Open Journal of the Communications Society. 4, 1317-1333 - Times Cited Web of Science®: 12 - Times Cited Scopus: 12 - Times Cited Google Scholar: 14
5	Brito, R, Silva, J. & Dias, P. (2023). From Perception to Action: The Adoption and use of Digital Technologies by Pre-School and Primary School. International Journal of Innovation and Research in Educational Sciences. 10, 99-105
6	Silva, J. & Pereira, J. (2022). NOESIS: Surfing the technological wave from Portugal. Journal of Information Technology Teaching Cases. 12 (2), 170-182
7	Pavia, J. P., Velez, V., Branco Ferreira, R., Souto, N., Ribeiro, M., Silva, J....Dinis, R. (2021). Low complexity hybrid precoding designs for multiuser mmWave/THz ultra massive MIMO Systems. Sensors. 21 (18) - Times Cited Web of Science®: 16 - Times Cited Scopus: 18 - Times Cited Google Scholar: 20
8	Silva, J., Souto, N. & Pereira, J. (2021). Closed form solution for the valuation of deferred tax assets. Journal of Accounting and Taxation. 13 (1), 1-15 - Times Cited Web of Science®: 1 - Times Cited Google Scholar: 5

9	Silva, J., Ponte, J., Lopes, J. P. & Souto, N. (2020). Flow management with differentiated classes of service and quality of experience. <i>Journal of Computer Networks and Communications</i> . 2020, 1-8
10	Silva, J. C. M. & Pereira, J. (2020). Novo Banco – what good out of a bad bank?. <i>The CASE Journal</i> . 16 (5), 551-584 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
11	Souto, N., Silva, J., Pavia, J. P. & Ribeiro, M. (2019). An alternating direction algorithm for hybrid precoding and combining in millimeter wave MIMO systems. <i>Physical Communication</i> . 34, 165-173 - Times Cited Web of Science®: 19 - Times Cited Scopus: 20 - Times Cited Google Scholar: 21
12	Silva, J. & Pereira, J. (2019). Subsidizing a wealthy company. <i>The CASE Journal</i> . 15 (6)
13	Teixeira, J., Silva, J. & Soares, S. (2019). Preparing radar service VHF coverage for the introduction of VoIP technologies. <i>Air Traffic Services Safety Technology</i> .
14	Teixeira, J., Silva, J. & Cabral, E. (2019). VoIP implementation and validation in radar service A/G communications. <i>Air Traffic Services Safety Technology</i> .
15	Silva, J. C. M. & Pereira, J. A. (2019). EDP – Portugal’s main energy producer that everyone loved to hate. <i>The CASE Journal</i> . 15 (6), 545-574 - Times Cited Web of Science®: 3 - Times Cited Scopus: 3 - Times Cited Google Scholar: 4
16	Silva, J., Souto, N. & Pereira, J. (2019). Valuation of compounded deferred tax assets for the banking sector, using the binomial CRR algorithm. <i>Cogent Business and Management</i> . 6 (1) - Times Cited Google Scholar: 2
17	Silva, J. M. & Pereira, J. A. (2017). Over-valuation: avoid double counting when retaining dividends in the FCFE valuation. <i>International Journal of Financial Research</i> . 8 (4), 107-114 - Times Cited Web of Science®: 1 - Times Cited Google Scholar: 6
18	R. Dinis, R. Dinis, Dinis, R., Dinis, R., Ribeiro, F., Ribeiro, F...Silva, J. (2017). Multiuser detection for the uplink of clustered 5G systems with universal frequency reuse. <i>Physical Communication</i> . 23, 29-36 - Times Cited Web of Science®: 4 - Times Cited Scopus: 3 - Times Cited Google Scholar: 4
19	Domingos, A. S., Silva, J. C. M. & Pereira, J. A. (2017). On the use of the quality function deployment matrix for flexible and quantitative prioritization. <i>Journal of Advanced Management Science</i> . 5 (5), 401-408 - Times Cited Web of Science®: 1 - Times Cited Google Scholar: 5
20	Silva, J. M. & Pereira, J. A. (2017). Finite state machine modelling of the macro-economy. <i>Journal of Advanced Management Science</i> . 5 (5), 333-337 - Times Cited Google Scholar: 2
21	Silva, J. M. & Pereira, J. A. (2017). Adjustments to cash build-up when retaining dividends in the FCFE valuation. <i>Journal of Advanced Management Science</i> . 5 (5), 327-332 - Times Cited Google Scholar: 3

22	<p>Souto, N., Dinis, R. & Silva, J. (2014). Impact of channel estimation errors on SC-FDE systems. <i>IEEE Transactions on Communications</i>. 62 (5), 1530-1540</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 30 - Times Cited Scopus: 28 - Times Cited Google Scholar: 41
23	<p>Silva, J., Marinheiro, R., Moura, J. & Almeida, J. (2013). Differentiated classes of service and flow management using an hybrid broker. <i>ACEEE International Journal on Communication</i>. 4 (2), 13-22</p> <ul style="list-style-type: none"> - Times Cited Google Scholar: 4
24	<p>J. Silva, Souto, N., Dinis, R. & Montezuma, P (2012). Single-carrier frequency domain equalisation with hierarchical constellations: an efficient transmission technique for broadcast and multicast systems. <i>IET Communications</i>. 6 (13), 2065-2073</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 18 - Times Cited Scopus: 24 - Times Cited Google Scholar: 27
25	<p>Souto, N., Dinis, R. & Silva, J. C. (2012). Performance bound for generalised multilevelquadrature amplitude modulations constellations in multipath Rayleigh fading channels with imperfect channel estimation. <i>IET Communications</i>. 6 (11), 1537-1543</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 2
26	<p>Souto, N., Dinis, R., Silva, J. & Carvalho, P. (2010). Iterative multipacket detection for high throughput transmissions in OFDM systems. <i>IEEE Transactions on Communications</i>. 58 (2), 429-432</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 8 - Times Cited Scopus: 8 - Times Cited Google Scholar: 10
27	<p>Souto, N., R. Dinis, Dinis, R., Dinis, R., R. Dinis & Silva, J. (2010). Analytical Matched Filter Bound for M-QAM Hierarchical Constellations with Diversity Reception in Multipath Rayleigh Fading Channels. <i>IEEE Transactions on Communications</i>. 58, 737-741</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 13 - Times Cited Scopus: 13 - Times Cited Google Scholar: 13
28	<p>Correia, A., Souto, N., Soares, A., Dinis, R. & Silva, J. (2009). Multiresolution with hierarchical modulations for Long Term Evolution of UMTS. <i>EURASIP Journal on Wireless Communications and Networking</i>.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 8 - Times Cited Scopus: 7 - Times Cited Google Scholar: 14
29	<p>Souto, N., Dinis, R., Cercas, F., Silva, J. & Correia, A. (2008). Transmitter/Receiver method for supporting hierarchical modulations in MBMS transmissions. <i>Wireless Personal Communications</i>. 45 (1), 45-65</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 6 - Times Cited Scopus: 5 - Times Cited Google Scholar: 10
30	<p>Souto, N. M. B., Cercas, F. A. B., Dinis, R. & Silva, J. C. M. (2007). On the BER performance of hierarchical M-QAM constellations with diversity and imperfect channel estimation. <i>IEEE Transactions on Communications</i>. 55 (10), 1852-1856</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 17 - Times Cited Scopus: 19 - Times Cited Google Scholar: 30

31	Souto, N., Silva, J. C., Cercas, F., Correia, A. & Rodrigues, A. (2007). Low rate convolutional and turbo codes based on non-linear cyclic codes. <i>Wireless Communications and Mobile Computing</i> . 7 (1), 23-34 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
32	Silva, J. C., Souto, N., Cercas, F., Dinis, R., Rodrigues, A. & Correia, A. (2007). Equalization based receivers for wideband MIMO/BLAST systems. <i>Wireless Personal Communications</i> . 40 (3), 291-304 - Times Cited Scopus: 1 - Times Cited Google Scholar: 7
33	Soares, A., Silva, J. C., Souto, N., Leitão, F. & Correia, A. (2007). MIMO based radio resource management for UMTS multicast broadcast multimedia services. <i>Wireless Personal Communications</i> . 42 (2), 225-246 - Times Cited Web of Science®: 1 - Times Cited Scopus: 3 - Times Cited Google Scholar: 6
34	Correia, A. M. C., Silva, J. C. M., Souto, N. M. B., Silva, L. A. C., Boal, A. B. & Soares, A. B. (2007). Multi-resolution broadcast/multicast systems for MBMS. <i>IEEE Transactions on Broadcasting</i> . 53 (1), 224-233 - Times Cited Web of Science®: 65 - Times Cited Scopus: 70 - Times Cited Google Scholar: 97
35	Soares, A., Souto, N., Silva, J. C., Eusébio, P. & Correia, A. (2007). Effective radio resource management for MBMS in UMTS networks. <i>Wireless Personal Communications</i> . 42 (2), 185-211 - Times Cited Web of Science®: 3 - Times Cited Scopus: 5 - Times Cited Google Scholar: 12
36	Souto, N., Soares, A., Eusébio, P., Correia, A. & Silva, J. C. (2006). Effective radio resource management for multimedia broadcast/multicast services in UMTS networks. <i>EURASIP Journal on Wireless Communications and Networking</i> . - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 6

• Books and Book Chapters

- Book author

1	Silva, J. & Pereira, J. (2022). <i>Killing off the Economy to save Lives</i> . LAP Lambert Academic Publishing GmbH & Co.KG.
2	Silva, J. & Pereira, J. (2022). <i>Turmoil in the Lion's Den</i> . LAP Lambert Academic Publishing GmbH & Co.KG.
3	Silva, J. & Pereira, J. (2022). <i>Lisbon's Go-Around: Increasing Portugal's airborne tourism capacity</i> . LAP Lambert Academic Publishing GmbH & Co.KG.
4	Silva, J. & Pereira, J. (2022). <i>TAP – Air Portugal: Crash landing amidst the SARS-CoV2 pandemic</i> . LAP Lambert Academic Publishing GmbH & Co.KG.
5	Brito, R, Barqueira, A & Silva, J. (2021). <i>A utilização de tecnologias digitais por educadores de infância e crianças que frequentam a educação pré-escolar, em Portugal</i> . - Times Cited Google Scholar: 4

6	Silva, J., Souto, N. & Pereira, J. (2021). Improved Methods for the Valuation of Deferred Tax Assets. LAP Lambert Academic Publishing GmbH & Co.KG.
7	Silva, J. & Song Y (2020). Business Portuguese: Advanced. Macau. Economic Science Press (China).
8	Song & Silva, J. (2019). Business Portuguese: Intermediate. Macao. Economic Science Press .
9	Silva, J., Santis, Costa, Ribeiro & Fonseca (2019). O ABC D 1 MBA.
10	M. M. Silva, Correia, A., R. Dinis, Souto, N. & Silva, J. (2013). Transmission Techniques for 4G Systems. CRC Press. - Times Cited Google Scholar: 32
11	Mário M. Silva, Correia, A., R. Dinis, Souto, N. & Silva, J. (2010). Transmission Techniques for Emergent Multicast and Broadcast Systems. CRC-Taylor & Francis Group . - Times Cited Google Scholar: 25

- Book chapter

1	Coelho, P., Silva, J. & Souto, N. (2025). The the role of artificial intelligence as a key enabler for 6G wireless communication systems. In Patrícia Dias, José Gabriel Andrade, Fernando Ilharco (Ed.), Comunicação e inteligência artificial: perspetivas multidisciplinares. (pp. 276-283). Lisboa: UCP Editora.
2	Silva, J., Brito, R. & Sousa (2024). Assessing Childhood ADHD: Analysis From Portugal. In AI Healthcare Applications and Security, Ethical, and Legal Considerations . (pp. 190-210):. IGI Global.
3	Silva, J., Brito, R. & Sousa (2024). Logistic Regression for Assessing Childhood ADHD: Based on Analysis of Portuguese Children. In Using Strategy Analytics for Business Value Creation and Competitive Advantage . (pp. 444-467):. IGI Global.
4	Silva, J., Moura, J. & Souto, N. (2024). SDN-based network resource management. In Sandeep Kautish, Prasenjit Chatterjee, Dragan Pamucar, N. Pradeep, Deepmala Singh (Ed.), Computational intelligence for modern business systems: Emerging applications and strategies. (pp. 137-156):. Springer.
5	Moura, J., Marinheiro, R. N. & Silva, J. (2022). Game theory for cooperation in multi-access edge computing. In Research anthology on edge computing protocols, applications, and integration. (pp. 229-279):. IGI Global. - Times Cited Google Scholar: 4
6	Silva, J. & Souto, N. (2022). A secured 5G network slices auction broker. In Kevin Daimi, Abeer Alsadoon, Cathryn Peoples, Nour El Madhoun (Ed.), Emerging trends in cybersecurity applications. (pp. 123-136):. Springer.
7	Silva, J., Souto, N. & Pereira, J. (2021). Valuation of deferred tax assets using a closed form solution. In Sandeep Kautish (Ed.), Using strategy analytics to measure corporate performance and business value creation. (pp. 151-175):. IGI Global. - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
8	Silva, J., Souto, N. & Pereira, J. (2021). Simple valuation of compounded deferred tax assets using a binomial algorithm. In Sandeep Kautish (Ed.), Using strategy analytics to measure corporate performance and business value creation.: IGI Global. - Times Cited Google Scholar: 1

9	Moura, J., Marinheiro, R. N. & Silva, J. C. (2018). Game theory for cooperation in multi-access edge computing. In Ramona Trestian, Gabriel-Miro Muntean (Ed.), Paving the way for 5G through the convergence of wireless systems. (pp. 100-149): IGI Global.
10	R. Dinis, Silva, J. & Souto, N. (2016). MIMO optimized for single-carrier frequency-domain equalization. In (pp. 211-247).
11	Silva, J., Souto, N. & R. Dinis (2016). MIMO optimized for W-CDMA. In (pp. 249-339).
12	Moura, J., Marinheiro, R. N. & Silva, J. (2016). Game Theory for Collaboration in Future Networks. In Information Resources Management Association; (Ed.), Mobile Computing and Wireless Networks. (pp. 2061-2091): IGI Global. - Times Cited Scopus: 1 - Times Cited Google Scholar: 5
13	Moura, J., Marinheiro, R. & Silva, J. (2014). Game theory for collaboration in future networks. In Ramona Trestian, Gabriel-Miro Muntean (Ed.), Convergence of broadband, broadcast, and cellular network technologies. (pp. 94-123): IGI Gobal. - Times Cited Scopus: 3 - Times Cited Google Scholar: 5
14	R. Dinis, Silva, J. & Souto, N. (2014). MIMO optimized for Single Carrier Frequency Domain Equalization. In MIMO Processing for 4G and Beyond: Fundamentals and Evolution.: CRC Press / Taylor and Francis Group.
15	Silva, J., Souto, N. & R. Dinis (2014). MIMO optimized for WCDMA. In MIMO Processing for 4G and Beyond: Fundamentals and Evolution.: CRC Press.
16	Correia, A., R. Dinis, Souto, N. & Silva, J. (2010). LTE E-MBMS capacity and inter-site gains. In L. Song and J. Shen (Ed.), Evolved Cellular Network planning and Optimization for UMTS and LTE. (pp. 587-609): CRC-Taylor & Francis Group.
17	Correia, A., Souto, N., Silva, J. & Soares, A. (2008). Air interface enhancements for multimedia broadcast/multicast service. In (pp. 443-479). - Times Cited Web of Science®: 20
18	Correia, A., Souto, N. & Silva, J. (2008). Air Interface Enhancements for Multimedia Broadcast/Multicast Service. In Borko Furht and Syed Ahson (Ed.), Handbook of Mobile Brodcasting. (pp. 443-479): CRC-Taylor & Francis Group.
19	Silva, J., Souto, N., Cercas, F. & Dinis, R. (2007). Wireless Communication Systems and Networks. In J. Filipe, H. Coelhas e M. Saramago (Ed.), E-business and telecommunication networks. (pp. 177-186): Springer.
20	Silva, J. & Souto, N. (2007). Iterative MMSE detection for MIMO/BLAST DS-CDMA systems in frequency selective fading channels - Achieving high performance in fully loaded systems. In E-Business and Telecommunication Networks.

• **Conferences/Workshops and Talks**
- **Publication in conference proceedings**

1	Brito, R, Dias, P, Barqueira, A & Silva, J. (2022). Qualitative research with children 0-8: Ethical strategies with children. In 1st International Conference on Child Studies.
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2	<p>Pavia, J.P., Souto, N., Ribeiro, M., Silva, J. & Dinis, R. (2020). Hybrid precoding and combining algorithm for reduced complexity and power consumption architectures in mmWave communications. In IEEE (Ed.), The 2020 IEEE 91st Vehicular Technology Conference: VTC2020-Spring. (pp. 1-5). Antwerp: IEEE.</p> <p>- Times Cited Scopus: 3 - Times Cited Google Scholar: 4</p>
3	<p>Souto, N., R. Dinis & Silva, J. (2013). Impact of Imperfect Channel Estimation on SC-FDE. In IEEE Vehicular Technology Conf. - VTC-Spring.</p> <p>- Times Cited Google Scholar: 1</p>
4	<p>Souto, N., R. Dinis & Silva, J. (2013). Reliability of an IB-DFE in the Presence of Channel Estimation Errors. In IEEE Vehicular Technology Conf. - VTC-Spring. Dresden</p> <p>- Times Cited Scopus: 2 - Times Cited Google Scholar: 5</p>
5	<p>Silva, J., R. Dinis, Souto, N. & M. M. Silva (2013). MIMO SC-FDE transmission techniques with channel estimation and high-order modulations. In Progress in Electromagnetics Research Symposium. taipei</p> <p>- Times Cited Scopus: 2 - Times Cited Google Scholar: 6</p>
6	<p>Almeida, J., Marinheiro, R., Silva, J. & Moura, J. (2013). A framework for QoE measurements of real-time scalable video coding streaming using conventional servers and clients. In Dr. Deshmukh Ratnadeep and Dr. Vinu V Das (Ed.), Third International Conference on Advances in Information Technology and Mobile Communication - AIM. (pp. 85-90). Bangalore: ACEE and Elsevier.</p>
7	<p>Silva, J., Moura, J., Marinheiro, R. N. & Almeida, J. (2013). Optimizing 4G networks with flow management using an hybrid broker. In Third International Conference on Advances in Information Technology and Mobile Communication, AIM.: ACEE and Elsevier.</p> <p>- Times Cited Google Scholar: 5</p>
8	<p>Pinto, R. M. C. & Silva, J. C. M. (2012). Strategic methods for automated trading in Forex. In 2012 12th International Conference on Intelligent Systems Design and Applications (ISDA). (pp. 34-39). Kochi, India: IEEE.</p> <p>- Times Cited Web of Science®: 3 - Times Cited Scopus: 6 - Times Cited Google Scholar: 16</p>
9	<p>Rendeiro, J. M. A., Marinheiro, R. N., Moura, J. A. & Silva, J. C. (2012). An adaptive management proposal for optimizing the performance of a virtualized computing environment. In 2nd Mosharaka International Conference on Communications and Signal Processing. Barcelona: Mosharaka for Research and Studies.</p>
10	<p>Moura, J., Silva, J. & Marinheiro, R. N. (2012). A brokerage system for enhancing wireless access. In 2nd Mosharaka International Conference on Communications and Signal Processing. Barcelona: Mosharaka for Research and Studies.</p> <p>- Times Cited Google Scholar: 3</p>
11	<p>Coucelo, J. P., Marinheiro, R. N., Silva, J. C. & Moura, J. A. (2012). WLAN-UMTS integration to optimize MBMS provision. In 2nd Mosharaka International Conference on Communications and Signal Processing. (pp. 19-23). Barcelona: Mosharaka for Research and Studies.</p>
12	<p>Silva, J., R. Dinis & Souto, N. (2011). Joint Detection & Enhanced Channel Estimation for MIMO SC-FDE. In International Conference on Communications, Networking and Information Technology. (pp. 0-0). Dubai</p>

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47	<p>F. Brower, I. De Bruin, Silva, J., Souto, N., Cercas, F. & Correia, A. (2004). Usage of link-level performance indicators for HSDPA network-level simulations in E-UMTS. In IEEE International Symposium on Spread Spectrum Techniques and Applications.</p> <p>- Times Cited Scopus: 72</p> <p>- Times Cited Google Scholar: 117</p>
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49	<p>Souto, N., Silva, J., Correia, A., Cercas, F. & António J. Rodrigues (2004). Transmit diversity schemes for high speed downlink packet access in 3.5G cellular systems. In Eighth IEEE International Symposium on Spread Spectrum Techniques and Applications. (pp. 623-627). Sydney, NSW, Australia: IEEE.</p> <p>- Times Cited Google Scholar: 2</p>
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51	<p>Souto, N., Silva, J., Correia, A., Cercas, F., M. M. Silva, M. Marques da Silva...Ribeiro, M. (2004). Multi-user detector schemes for the UMTS uplink transmission. In Eighth IEEE International Symposium on Spread Spectrum Techniques and Applications. (pp. 364-368). Sydney, NSW, Australia: IEEE.</p> <p>- Times Cited Scopus: 4</p>
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- Talk

1	Sousa, I., Pais, R. J. & Silva, J. (2018). A multimodal behavioral model system for psychopharmacology. 17th European Drosophila Neurobiology Conference - Neurofly 2018.
2	Sousa, Pais & Silva, J. (2018). A multimodal behavioral model system for psychopharmacology. Neurofly 2018.
3	Silva, J. & Pereira, J. (2017). Finite State Machine Modelling of the Macro-Economy. ICAMS 2017.
4	Silva, J., Pereira, J. & Domingos, A. (2017). On the use of the Quality Function Deployment Matrix for Flexible and Quantitative Prioritization. ICAMS 2017.
5	Silva, J. & Pereira, J. (2017). Adjustments to Cash Build-up when Retaining Dividends in the FCFE Valuation. ICAMS 2017.
6	Silva, J. Dinis, R., Souto, N. (2011). Joint Detection & Enhanced Channel Estimation for MIMO SC-FDE. Mosharaka International Conf. on Communications, Networking and Information Technology .

• Other Publications

- Non-peer-reviewed papers

1	Silva, J. & Pereira, J. (2022). Taking the highway out: exiting the stock market to maximize results. CASE Journal.
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Research Projects			
Project Title	Role in Project	Partners	Period
Enhanced Underwater Acoustic Receiver Design for MIMO Communications	Local Coordinator	IT-Iscte	2014 - 2015
Remote Piloted Semi-Autonomous Aerial Surveillance System Using Terrestrial Wireless Networks	Researcher	IT-Iscte	2012 - 2014

LTE-Advanced Enhancements using Femtocells	Researcher	IT-Iscte	2012 - 2014
Comparison of WiMAX and LTE on a Personal Cell Scenario for the Provision of Multimedia Broadcast/Multicast Services	Researcher	IT-Iscte	2008 - 2010
Advanced MBMS for the Future Mobile World	Researcher	IT-Iscte	2006 - 2008
Satellite Ground Station for Study and Development of Radio Communications	Researcher	IT-Iscte	2018
Broadcasting and Multicasting Over Enhanced UMTS Mobile Broadband Networks	Researcher	IT-Iscte, PTIN - Leader (Portugal)	2004 - 2006
SEACORN	Researcher	IT-Iscte	2002 - 2004

Academic Management Positions

Membro (Docente) (2022 - 2026)
Unit/Area: Comissão Científica

Coordenador do 3º Ano (2016 - 2019)
Unit/Area: Bachelor Degree in Computer Engineering

Coordenador do 3º Ano (2016 - 2019)
Unit/Area: Bachelor Degree in Computer Engineering (PL)

Coordenador do 3º Ano (2014 - 2016)
Unit/Area: Bachelor Degree in Computer Engineering

Coordenador do 3º Ano (2014 - 2016)
Unit/Area: Bachelor Degree in Computer Engineering (PL)

Coordenador de ECTS (2011 - 2014)
Unit/Area: Department of Information Science and Technology

Coordenador do 3º Ano (2011 - 2014)
Unit/Area: Bachelor Degree in Computer Engineering

Awards

EDP/FAE business case writing contest (2019)

International award of European Case Center – best business case 2018. (2018)
EDP/FAE business case writing contest (2017)
Best Masters Student Management at ISEG (2016)
EDP/FAE business case writing contest (2016)
Best post-graduation student CEDE 2016 - ISEG (2016)
Best Student MBA ISEG (2015)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Coordination of non-scientific event	• Good digital practices	ISEC	Since 2021
Coordination of non-scientific event	• Safe use of digital technologies by children 3-9 years	ISEC	Since 2019
Coordination of non-scientific event	Brisa case workshop	ISEG	Since 2018

Diffusion Activities

Activity Type	Event Title	Activity Description	Year
Publication in general diffusion news outlet	Point SJ	Opinion Article in Public Magazine	2023
Talk/Conference in public diffusion event	Class for ISEC students and other interested parties - introduction to computer networks	Class for ISEC students and other interested parties - introduction to computer networks	2019

Products

Product Type	Product Title	Detailed Description	Year
Digital Materials or Audiovisual Resources	TAP – Air Portugal: Crash landing amidst the SARS-CoV2 pandemic	book with a business case scenario & teaching note	2022
Digital Materials or Audiovisual Resources	Lisbon's Go-Around: Increasing Portugal's airborne tourism capacity	book with a business case scenario & teaching note	2022
Digital Materials or Audiovisual Resources	Killing off the Economy to save Lives	Book with a business case scenario & teaching note - ISBN: 978-620-4-74941-9	2022

Digital Materials or Audiovisual Resources	Sporting Lisbon: Turmoil in the Lion's Den	Business Case published in the Case Centre	2020
Digital Materials or Audiovisual Resources	EDP: Portugal's Main Energy Producer that Everyone Loved to Hate	Business Case published in the Case Centre	2019
Digital Materials or Audiovisual Resources	Noesis - Surfing the Technological Wave from Portugal	Business Case published in the Case Centre	2019
Digital Materials or Audiovisual Resources	Novo Banco – What Good out of a bad bank?	Business Case published in the Case Centre	2018
Digital Materials or Audiovisual Resources	Strategic Actions in Challenging Times – José de Mello's predicament on its stake in Brisa	Business Case published in the Case Centre	2017