# João Carlos Marques Silva

**Professor Auxiliar**
ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre
Department of Information Science and Technology (ISTA)

## Contacts



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| **Post Box** | 329 |



## 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 | Licenciate | 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. |
|---|---|---|---|---|
| 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 | 2º | Academic Work with Artificial Intelligence | Institutional Degree in Softskills; | Yes |
| 2024/2025 | 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 | 1º | Academic Work with Artificial Intelligence | | Yes |

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|---|---|---|---|---|
| 2024/2025 | 1º | Computer Networks and Security | | Yes |
| 2023/2024 | 2º | Fundamentals of Computer Networks | Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering; | No |
| 2023/2024 | 2º | Network Security and Management | Bachelor Degree in Telecommunications and Computer Engineering; | Yes |
| 2023/2024 | 2º | Academic Work with Artificial Intelligence | | Yes |
| 2023/2024 | 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 |
| 2023/2024 | 1º | Academic Work with Artificial Intelligence | | Yes |
| 2022/2023 | 2º | Fundamentals of Computer Networks | Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering; | No |
| 2022/2023 | 2º | Network Security and Management | Bachelor Degree in Telecommunications and Computer Engineering; | Yes |
| 2022/2023 | 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 |
| 2021/2022 | 2º | 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 | 2º | Network Security and Management | Bachelor Degree in Telecommunications and Computer Engineering; | Yes |
| 2021/2022 | 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 |
| 2020/2021 | 2º | Operating Systems | Bachelor Degree in Computer Engineering; Bachelor Degree in Computer Science and Business Management; | No |

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|---|---|---|---|---|
| 2020/2021 | 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 |
| 2019/2020 | 2º | Digital Networks III - Security, Multimedia and Management | | No |
| 2019/2020 | 1º | 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 | Vasco Moreira Pais Tavares | Multi Access Network Dimensioning for public commercial services | -- | Developing | Iscte |
| 2 | Ricardo Miguel Farinha Gouveia | Utilização de Redes Neuronais para seleção de Beams em redes 5G/6G | -- | Developing | Iscte |
| 3 | João David dos Anjos Carrusca | Android-based Motorcycle Infotainment with Enhanced Techniques | -- | Developing | Iscte |
| 4 | Pedro Miguel Figueiredo Alexandre | IoT Private Network Dimensioning | -- | 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 soverage 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

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|---|---|
| **Web of Science®** | 281 |
| **Scopus** | 508 |

## Publications

### • Scientific Journals

**- Scientific journal paper**

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|---|---|
| 1 | Mendes, D., Souto, N., Pavia, J. P. & Silva, J. (2026). Optimizing the achievable sum-rate in OFDM-based Multi- |

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| | 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<br>- Times Cited Google Scholar: 2 |
| 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<br>- Times Cited Web of Science®: 11<br>- Times Cited Scopus: 12<br>- 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)<br>- Times Cited Web of Science®: 16<br>- Times Cited Scopus: 17<br>- 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<br>- Times Cited Web of Science®: 1<br>- 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. Journal of Computer Networks and Communications. 2020, 1-8 |
| 10 | Silva, J. C. M. & Pereira, J. (2020). Novo Banco – what good out of a bad bank?. The CASE Journal. 16 (5), 551-584<br>- Times Cited Scopus: 1<br>- Times Cited Google Scholar: 2 |
| 11 | Silva, J. & Pereira, J. (2019). Subsidizing a wealthy company. The CASE Journal. 15 (6) |
| 12 | Teixeira, J., Silva, J. & Soares, S. (2019). Preparing radar service VHF coverage for the introduction of VoIP technologies. Air Traffic Services Safety Technology. |
| 13 | Silva, J. C. M. & Pereira, J. A. (2019). EDP – Portugal's main energy producer that everyone loved to hate. The CASE Journal. 15 (6), 545-574<br>- Times Cited Web of Science®: 3<br>- Times Cited Scopus: 2<br>- Times Cited Google Scholar: 4 |

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| 14 | Teixeira, J., Silva, J. & Cabral, E. (2019). VoIP implementation and validation in radar service A/G communications. Air Traffic Services Safety Technology. |
| 15 | Silva, J., Souto, N. & Pereira, J. (2019). Valuation of compounded deferred tax assets for the banking sector, using the binomial CRR algorithm. Cogent Business and Management. 6 (1)<br>- Times Cited Google Scholar: 2 |
| 16 | Souto, N., Silva, J., Pavia, J. P. & Ribeiro, M. (2019). An alternating direction algorithm for hybrid precoding and combining in millimeter wave MIMO systems. Physical Communication. 34, 165-173<br>- Times Cited Web of Science®: 19<br>- Times Cited Scopus: 19<br>- Times Cited Google Scholar: 21 |
| 17 | Silva, J. M. & Pereira, J. A. (2017). Over-valuation: avoid double counting when retaining dividends in the FCFE valuation. International Journal of Financial Research. 8 (4), 107-114<br>- 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. Physical Communication. 23, 29-36<br>- Times Cited Web of Science®: 4<br>- Times Cited Scopus: 3<br>- 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. Journal of Advanced Management Science. 5 (5), 401-408<br>- Times Cited Google Scholar: 5 |
| 20 | Silva, J. M. & Pereira, J. A. (2017). Finite state machine modelling of the macro-economy. Journal of Advanced Management Science. 5 (5), 333-337<br>- 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. Journal of Advanced Management Science. 5 (5), 327-332<br>- Times Cited Google Scholar: 3 |
| 22 | Souto, N., Dinis, R. & Silva, J. (2014). Impact of channel estimation errors on SC-FDE systems. IEEE Transactions on Communications. 62 (5), 1530-1540<br>- Times Cited Web of Science®: 30<br>- Times Cited Scopus: 28<br>- Times Cited Google Scholar: 40 |
| 23 | Silva, J., Marinheiro, R., Moura, J. & Almeida, J. (2013). Differentiated classes of service and flow management using an hybrid broker. ACEEE International Journal on Communication. 4 (2), 13-22<br>- Times Cited Google Scholar: 4 |
| 24 | 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. IET Communications. 6 (13), 2065-2073<br>- Times Cited Web of Science®: 18<br>- Times Cited Scopus: 24<br>- Times Cited Google Scholar: 27 |

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| 25 | 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. IET Communications. 6 (11), 1537-1543<br>- Times Cited Web of Science®: 2<br>- Times Cited Scopus: 2<br>- Times Cited Google Scholar: 2 |
| 26 | Souto, N., Dinis, R., Silva, J. & Carvalho, P. (2010). Iterative multipacket detection for high throughput transmissions in OFDM systems. IEEE Transactions on Communications. 58 (2), 429-432<br>- Times Cited Web of Science®: 8<br>- Times Cited Scopus: 8<br>- Times Cited Google Scholar: 10 |
| 27 | 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. IEEE Transactions on Communications. 58, 737-741<br>- Times Cited Web of Science®: 13<br>- Times Cited Scopus: 13<br>- Times Cited Google Scholar: 13 |
| 28 | Correia, A., Souto, N., Soares, A., Dinis, R. & Silva, J. (2009). Multiresolution with hierarchical modulations for Long Term Evolution of UMTS. EURASIP Journal on Wireless Communications and Networking.<br>- Times Cited Web of Science®: 8<br>- Times Cited Scopus: 7<br>- Times Cited Google Scholar: 14 |
| 29 | Souto, N., Dinis, R., Cercas, F., Silva, J. & Correia, A. (2008). Transmitter/Receiver method for supporting hierarchical modulations in MBMS transmissions. Wireless Personal Communications. 45 (1), 45-65<br>- Times Cited Web of Science®: 6<br>- Times Cited Scopus: 5<br>- Times Cited Google Scholar: 10 |
| 30 | 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. IEEE Transactions on Communications. 55 (10), 1852-1856<br>- Times Cited Web of Science®: 17<br>- Times Cited Scopus: 19<br>- 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. Wireless Communications and Mobile Computing. 7 (1), 23-34<br>- Times Cited Web of Science®: 1<br>- Times Cited Scopus: 1<br>- 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. Wireless Personal Communications. 40 (3), 291-304<br>- Times Cited Scopus: 1<br>- 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. Wireless Personal Communications. 42 (2), 225-246<br>- Times Cited Web of Science®: 1<br>- Times Cited Scopus: 3<br>- Times Cited Google Scholar: 6 |

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| 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. IEEE Transactions on Broadcasting. 53 (1), 224-233<br>- Times Cited Web of Science®: 65<br>- Times Cited Scopus: 70<br>- 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. Wireless Personal Communications. 42 (2), 185-211<br>- Times Cited Web of Science®: 3<br>- Times Cited Scopus: 5<br>- 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. EURASIP Journal on Wireless Communications and Networking.<br>- Times Cited Web of Science®: 2<br>- Times Cited Scopus: 2<br>- Times Cited Google Scholar: 6 |

## • Books and Book Chapters

**- Book author**

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|---|---|
| 1 | Silva, J. & Pereira, J. (2022). Turmoil in the Lion’s Den. LAP Lambert Academic Publishing GmbH & Co.KG. |
| 2 | Silva, J. & Pereira, J. (2022). Lisbon’s Go-Around: Increasing Portugal’s airborne tourism capacity. LAP Lambert Academic Publishing GmbH & Co.KG. |
| 3 | Silva, J. & Pereira, J. (2022). TAP – Air Portugal: Crash landing amidst the SARS-CoV2 pandemic. LAP Lambert Academic Publishing GmbH & Co.KG. |
| 4 | Silva, J. & Pereira, J. (2022). Killing off the Economy to save Lives. LAP Lambert Academic Publishing GmbH & Co.KG. |
| 5 | Brito, R, Barqueira, A & Silva, J. (2021). A utilização de tecnologias digitais por educadores de infância e crianças que frequentam a educação pré-escolar, em Portugal.<br>- 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.<br>- Times Cited Google Scholar: 31 |
| 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 .<br>- Times Cited Google Scholar: 25 |

**- Book chapter**

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|---|---|
| 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.<br>- 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.<br>- Times Cited Scopus: 1<br>- 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.<br>- 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.<br>- Times Cited Scopus: 1<br>- Times Cited Google Scholar: 5 |

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| 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.<br>- Times Cited Scopus: 3<br>- 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).<br>- 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**

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|---|---|
| 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. |
| 2 | 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.<br>- Times Cited Scopus: 3<br>- Times Cited Google Scholar: 4 |
| 3 | 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<br>- Times Cited Scopus: 2<br>- Times Cited Google Scholar: 5 |
| 4 | 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<br>- Times Cited Scopus: 2<br>- Times Cited Google Scholar: 6 |

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| 5 | 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. |
| 6 | 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.<br>- Times Cited Google Scholar: 5 |
| 7 | Souto, N., R. Dinis & Silva, J. (2013). Impact of Imperfect Channel Estimation on SC-FDE. In IEEE Vehicular Technology Conf. - VTC-Spring.<br>- Times Cited Google Scholar: 1 |
| 8 | 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.<br>- Times Cited Web of Science®: 3<br>- Times Cited Scopus: 6<br>- Times Cited Google Scholar: 16 |
| 9 | 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. |
| 10 | 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.<br>- Times Cited Google Scholar: 3 |
| 11 | 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. |
| 12 | 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 |
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| 53 | M. M. Silva, M. Marques da Silva, Mário M. Silva, Correia, A., Silva, J. & Souto, N. (2004). Interference suppression consisting of pre-distortion filtering with transmit diversity. In Eighth IEEE International Symposium on Spread Spectrum Techniques and Applications. (pp. 414-418). Sydney, NSW, Australia: IEEE. |
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**- Talk**

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| 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. & Domingos, A. (2017). On the use of the Quality Function Deployment Matrix for Flexible and Quantitative Prioritization. ICAMS 2017. |
| 4 | Silva, J. & Pereira, J. (2017). Adjustments to Cash Build-up when Retaining Dividends in the FCFE Valuation. ICAMS 2017. |
| 5 | Silva, J. & Pereira, J. (2017). Finite State Machine Modelling of the Macro-Economy. 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**

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|---|---|
| 1 | Silva, J. & Pereira, J. (2022). Taking the highway out: exiting the stock market to maximize results. CASE Journal. |

## 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 |

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|---|---|---|---|
| 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 |