**Warning:** [2025-12-06 04:20] this document is a print-out of the Ciência-iul web portal and was automatically generated at the labeled date. The document has a mere informational purpose and represents the information contained on Ciência_Iscte at that date.

# António Raimundo

**Professor Auxiliar**
Department of Digital Technologies (SINTRA)

**Integrated Researcher**
ISTAR-Iscte - Information Sciences, Technologies and Architecture Research Centre (ISTA) [Information Systems]

## Contacts

| | |
|---|---|
| **E-mail** | Lima_Raimundo@iscte-iul.pt |
| **Office** | D6.10 |

## Curriculum

António Raimundo, who holds a PhD in Information Science and Technology from Iscte - University Institute of Lisbon, Portugal, is an Assistant Professor at the School of Applied Digital Technologies at Iscte Sintra, where he also coordinates the Bachelor's degree in Digital Technologies and Artificial Intelligence. Currently, he is an Integrated Researcher at ISTAR-IUL, focusing his research on areas such as Machine Learning / Deep Learning, Large Language Models, Computer Vision, and Data Science. With several years of teaching experience, he has had the opportunity to be a trainer in short courses, postgraduate programs, and a speaker at various business events.

## Research Interests

- Artificial Intelligence
- Image Analysis and Processing
- UAVs, Drones
- Data Science
- Web Development

## Academic Qualifications

| University/Institution | Type | Degree | Period |
|---|---|---|---|
| ISCTE-Instituto Universitário de Lisboa | PhD | Ciências e Tecnologias da Informação | 2023 |
| ISCTE-Instituto Universitário de Lisboa | M.Sc. | Engenharia Informática | 2016 |
| ISCTE - Instituto Universitário de Lisboa | Licenciate | Engenharia Informática | 2015 |

## Teaching Activities

| Teaching Year | Sem. | Course Name | Degree(s) | Coord. |
|---|---|---|---|---|
| 2025/2026 | 2º | Unsupervised Machine Learning | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2025/2026 | 2º | Supervised Machine Learning | Bachelor Degree in Mathematics Applied and Digital Technologies; | Yes |
| 2025/2026 | 2º | Big Data | | Yes |
| 2025/2026 | 2º | Artificial Intelligence | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2025/2026 | 2º | Text Mining | | Yes |
| 2025/2026 | 2º | Applied Project in Artificial Intelligence II | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2025/2026 | 2º | Intelligent Models Engineering | Post Graduation Program in Applied Machine Learning; | No |
| 2025/2026 | 1º | Supervised Machine Learning | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2025/2026 | 1º | Big Data | | Yes |
| 2025/2026 | 1º | Artificial Intelligence | Bachelor Degree in Mathematics Applied and Digital Technologies; | Yes |
| 2025/2026 | 1º | Text Mining | | Yes |
| 2025/2026 | 1º | Applied Project in Artificial Intelligence I | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2025/2026 | 1º | Artificial Intelligence for Business | Bachelor Degree in Digital Technologies and Management; | Yes |
| 2025/2026 | 1º | High Performance Graphical Computing | Post Graduation Program in Applied Machine Learning; | Yes |

| | | | | |
|---|---|---|---|---|
| 2024/2025 | 2º | Advanced Search Algorithms | | Yes |
| 2024/2025 | 2º | Unsupervised Machine Learning | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2024/2025 | 2º | Supervised Machine Learning | | Yes |
| 2024/2025 | 2º | Big Data | | Yes |
| 2024/2025 | 2º | Artificial Intelligence | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2024/2025 | 2º | Text Mining | | Yes |
| 2024/2025 | 2º | Applied Project in Artificial Intelligence II | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2024/2025 | 2º | Digital Technologies Applied to Society | Training Course in Digital Technologies Applied to Society; | Yes |
| 2024/2025 | 1º | Unsupervised Machine Learning | | Yes |
| 2024/2025 | 1º | Supervised Machine Learning | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2024/2025 | 1º | Big Data | | Yes |
| 2024/2025 | 1º | Artificial Intelligence | Bachelor Degree in Mathematics Applied and Digital Technologies; | Yes |
| 2024/2025 | 1º | Text Mining | | Yes |
| 2024/2025 | 1º | Applied Project in Artificial Intelligence I | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2024/2025 | 1º | Web Application Technologies | Module in Web Application Technologies; | Yes |
| 2023/2024 | 2º | Unsupervised Machine Learning | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2023/2024 | 2º | Supervised Machine Learning | Bachelor Degree in Mathematics Applied and Digital Technologies; | Yes |
| 2023/2024 | 2º | Managing Digital Transformation | | No |
| 2023/2024 | 2º | Artificial Intelligence | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |
| 2023/2024 | 1º | Data Science Fundamentals | | No |
| 2023/2024 | 1º | Supervised Machine Learning | Bachelor Degree in Digital Technologies and Artificial Intelligence; | Yes |

| | | | | |
|---|---|---|---|---|
| 2023/2024 | 1º | Programming Fundamentals | Bachelor Degree in Politics, Economics and Society; | No |
| 2023/2024 | 1º | Artificial Intelligence | Bachelor Degree in Mathematics Applied and Digital Technologies; | Yes |
| 2022/2023 | 2º | Development for Internet and Mobile Apps | Bachelor Degree in Computer Science and Business Management (PL); | No |
| 2022/2023 | 2º | Artificial Intelligence | Bachelor Degree in Digital Technologies and Artificial Intelligence; | No |
| 2022/2023 | 2º | Project in Digital Technologies I | | No |
| 2022/2023 | 2º | Project in Digital Technologies I | | No |
| 2022/2023 | 2º | Project in Digital Technologies I | | No |
| 2022/2023 | 2º | Project in Digital Technologies I | | No |
| 2022/2023 | 2º | - | | Yes |
| 2022/2023 | 1º | Data Science Fundamentals | Institutional Degree in Escola de Tecnologias e Arquitetura; | No |
| 2022/2023 | 1º | Programming Fundamentals | | No |
| 2022/2023 | 1º | Introduction to Cybersecurity | | No |
| 2021/2022 | 2º | Development for Internet and Mobile Apps | Bachelor Degree in Computer Engineering (PL); | No |
| 2021/2022 | 1º | Data Science Fundamentals | | No |
| 2020/2021 | 1º | Data Science Fundamentals | | No |
| 2018/2019 | 1º | Mathematics | | No |
| 2018/2019 | 1º | Mathematics | | No |

## Supervisions

### • M.Sc. Dissertations

**- Ongoing**

| | Student Name | Title/Topic | Language | Status | Institution |
|---|---|---|---|---|---|
| 1 | Filipe de Oliveira Faustino Arsénio | Anticipating Financial Risk: Machine Learning for Debt Management in Telecommunications | English | Delivered | Iscte |

| | | | | | |
|---|---|---|---|---|---|
| 2 | Andreia Mariana Ferreira Carreira | Digital stain for Cytology Slides Using Visual Computing | English | Developing | Iscte |
| 3 | Luís Manuel Maceiro Cantante | Optimization of C-UAS Systems through Computer Vision and Artificial Intelligence | -- | Developing | Iscte |
| 4 | Diogo Alves Juncal | Impact of Internal LLMs on Process Productivity within Companies and Implementation in the FinTech Area. | -- | Developing | Iscte |
| 5 | Diogo Rodrigues Gomes da Silva | Forecast of CO Emissions in the Portuguese Energy Sector through Machine Learning Techniques. | -- | Developing | Iscte |

**- Concluded**

| | Student Name | Title/Topic | Language | Institution | Concluding Year |
|---|---|---|---|---|---|
| 1 | Myslane Kalyne de Farias | Flight Arrival Delay Prediction in European Airports: A Machine Learning Approach Structured By CRISP-DM | English | Iscte | 2025 |
| 2 | Francisco Manuel da Silva Luz | Enhancing Virtual Physiotherapy Through Computer Vision and Pose Estimation | English | Iscte | 2024 |
| 3 | João Francisco Diogo Almeida Lopes Martins | Water stress analysis system for vineyard applications supported by uavs | Portuguese | Iscte | 2020 |
| 4 | Carlos Miguel Domingues Saraiva | AUTONOMUS ENVIROMENTAL PROTECTION DRONE | English | Iscte | 2019 |

## Total Citations

| | |
|---|---|
| **Web of Science®** | 96 |
| **Scopus** | 130 |

## Publications

### • Scientific Journals

**- Scientific journal paper**

| | |
|---|---|
| 1 | Monge, J., Raimundo, A., Ribeiro, G., Postolache, O. & Santos, J. (2023). AI-based smart sensing and AR for gait rehabilitation assessment. Information. 14 (7)<br>- Times Cited Web of Science®: 9<br>- Times Cited Scopus: 17<br>- Times Cited Google Scholar: 24 |

| | |
|---|---|
| 2 | Pereira, F., Costa, J. M., Ramos, R. F. & Raimundo, A. (2023). The impact of the COVID-19 pandemic on airlines' passenger satisfaction. Journal of Air Transport Management. 112<br>- Times Cited Web of Science®: 23<br>- Times Cited Scopus: 20<br>- Times Cited Google Scholar: 36 |
| 3 | Raimundo, A., Pavia, J. P., Sebastião, P. & Postolache, O. (2023). YOLOX-Ray: An efficient attention-based single-staged object detector tailored for industrial inspections. Sensors. 23 (10)<br>- Times Cited Web of Science®: 9<br>- Times Cited Scopus: 11<br>- Times Cited Google Scholar: 16 |
| 4 | Cordeiro, J., Raimundo, A., Postolache, O. & Sebastião, P. (2021). Neural architecture search for 1D CNNs - Different approaches tests and measurements. Sensors. 21 (23), 7990<br>- Times Cited Web of Science®: 42<br>- Times Cited Scopus: 50<br>- Times Cited Google Scholar: 68 |
| 5 | Fernandes, D., Raimundo, A., Cercas, F., Sebastião, P., Dinis, R. & Ferreira, L. S. (2020). Comparison of artificial intelligence and semi-empirical methodologies for estimation of coverage in mobile networks. IEEE Access. 8, 139803-139812<br>- Times Cited Web of Science®: 12<br>- Times Cited Scopus: 19<br>- Times Cited Google Scholar: 26 |

## • Conferences/Workshops and Talks

**- Publication in conference proceedings**

| | |
|---|---|
| 1 | Silvério, A., Raimundo, A. & Sebastião, P. (2019). Mobile communication systems to control UAVs: Measurements of QoS parameters. In 2019 International Conference on Sensing and Instrumentation in IoT Era (ISSI). Lisbon, Portugal: IEEE.<br>- Times Cited Scopus: 2<br>- Times Cited Google Scholar: 2 |
| 2 | Raimundo, A., Fernandes, D., Gomes, D., Postolache, O., Sebastião, P. & Cercas, F. (2018). UAV GNSS position corrections based on IoT communication protocol. In 2018 International Symposium in Sensing and Instrumentation in IoT Era (ISSI). Shanghai: IEEE.<br>- Times Cited Scopus: 6<br>- Times Cited Google Scholar: 6 |
| 3 | Raimundo, A., Peres, D., Santos, N., Sebastião, P. & Souto, N. (2017). Using distance sensors to perform collision avoidance maneuvres on UAV applications. In International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives. (pp. 303-309). Bonn: Copernicus Publications.<br>- Times Cited Web of Science®: 1<br>- Times Cited Scopus: 2<br>- Times Cited Google Scholar: 11 |
| 4 | Santos, N., Raimundo, A., Peres, D., Sebastião, P. & Souto, N. (2017). Development of a software platform to control squads of unmanned vehicles in real-time. In 2017 International Conference on Unmanned Aircraft Systems (ICUAS). Miami: IEEE.<br>- Times Cited Scopus: 3<br>- Times Cited Google Scholar: 9 |

## • Other Publications

**- Other publications**

| | |
|---|---|
| 1 | Raimundo, A. & Sebastião, P. (2019). Exploring New Ways to Perform Inspection Plans using UAVs and Artificial Intelligence. ConfTele. |

**- Master's Dissertation**

| | |
|---|---|
| 1 | Raimundo, A. (2016). Autonomous Obstacle Collision Avoidance System for UAVs in rescue operations.<br>- Times Cited Google Scholar: 12 |

**- Doctoral Thesis**

| | |
|---|---|
| 1 | Raimundo, A. (2023). A New Way of Performing Inspection Plans using Computer Vision and Deep Learning Algorithms. 1-148 |

## Research Projects

| Project Title | Role in Project | Partners | Period |
|---|---|---|---|
| Crossing the Atlantic for Scientific and Teaching-Learning Cooperation | Researcher | ISTAR-Iscte (DLS) - Leader, BSU - (United States of America) | 2024 - 2025 |
| Models and Instruments for Transforming Higher Education Systems through Transnational Multi-Sector Links | Researcher | CIES-Iscte, BRU-Iscte, ISTAR-Iscte, DINAMIA'CET-Iscte, UNWE - Leader (Bulgaria), UBB - (Romania), METU - (Turkey), ESPAP - (Portugal), AZ - (Bulgaria), RM - (Bulgaria), C.School - (Romania), Novarge - (Turkey), Associação 101010 Portugal (Escola 42) - (Portugal) | 2024 - 2027 |
| Artificial Intelligence and Data Science for Public Administration Portugal Innovation Hub | Researcher | ISTAR-Iscte (DLS) - Leader, AMA - (Portugal), AIP – CCI - (Portugal), ANPME - (Portugal), AUDAX - (Portugal), CMS - (Portugal), CMV - (Portugal), CCDR Algarve - (Portugal), CoLABOR - - (Portugal), DGEEC - (Portugal), Esri Portugal - (Portugal), GEP/MTSSS - (Portugal), INDEG - (Portugal), IPPS - (Portugal), Mentortec - (Portugal), MORE CoLAB - (Portugal), NOVA IMS - (Portugal), Oeste CIM - (Portugal), UNINOVA – - (Portugal), UNU-EGOV - (Portugal) | 2023 - 2025 |

## Academic Management Positions

Director (2025 - 2028)
Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence

Coordenador do 3º Ano (2025 - 2026)
Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence

Membro (Docente) (2025 - 2028)
Unit/Area: Comissão Científica

Director (2025 - 2027)
Unit/Area: Post Graduation Program in Applied Machine Learning

Director (2024 - 2026)
Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence

Coordenador do 3º Ano (2024 - 2025)
Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence

Coordenador do 1º Ano (2023 - 2024)
Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence

Membro (Docente) (2022 - 2024)
Unit/Area: Comissão Pedagógica

Coordenador do 1º Ano (2022 - 2023)
Unit/Area: Bachelor Degree in Digital Technologies and Artificial Intelligence

## Awards

ISTA Top Talent - Masters Degree (2016)

## Organization/Coordination of Events

| Type of Organization/Coordination | Event Title | Organizer | Year |
|---|---|---|---|
| Member of scientific event's organizing committee | WPMC 2019 - 22nd International Symposium on Wireless Personal Multimedia Communications | ISCTE-IUL | 2019 |
| Member of scientific event's organizing committee | ISSI 2019 - International Symposium on Sensors and Instrumentation in IoT Era | ISCTE-IUL | 2019 |
| Member of scientific event's organizing committee | Visions for Future Communications Summit 2017 | ISCTE-IUL | 2018 |
| Coordination of non-scientific event | FISTA'17 - Forum of ISCTE-IUL School of Technology and Architecture | ISCTE-IUL | 2017 |
| Member of non-scientific event's organizing committee | FISTA'16 - Forum of ISCTE-IUL School of Technology and Architecture | ISCTE-IUL | 2016 |
| Member of non-scientific event's organizing committee | FISTA'15 - Forum of ISCTE-IUL School of Technology and Architecture | ISCTE-IUL | 2015 |
| Member of non-scientific event's organizing committee | FISTA'14 - Forum of ISCTE-IUL School of Technology and Architecture | ISCTE-IUL | 2014 |