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Jorge Rodrigues da Costa

Vice-Reitor

Professor Catedrático
Department of Information Science and Technology (ISTA)

Coordinator
Instituto de Telecomunicações - IUL (ISTA)
[Antennas and Propagation Group]

Integrated Researcher
Instituto de Telecomunicações - IUL (ISTA)
[Antennas and Propagation Group]

Contacts

E-mail	jorge.costa@iscte-iul.pt
Office	2S21
Telephone	217650585 (Ext: 220634)
Post Box	269

Curriculum

Jorge R. Costa was born in Lisbon, Portugal, in 1974. He received the Licenciado and Ph.D. degrees in electrical and computer engineering from the Instituto Superior Técnico (IST), Technical University of Lisbon, Lisbon, Portugal, in 1997 and 2002, respectively.
He is currently a Senior Researcher at the Instituto de Telecomunicações, Lisbon, Portugal. He is also a Full Professor at the Departamento de Ciências e Tecnologias da Informação, Instituto Universitário de Lisboa (ISCTE-IUL). His present research interests include dielectric lenses, transmit-arrays, and biomedical antennas. He is the co-author of four patent applications and more than 200 contributions to peer-reviewed journals and international conference proceedings. More than fifty of these papers have appeared in IEEE Journals.
Prof. Costa served as an Associate Editor for the IEEE Transactions on Antennas and Propagation from 2010 to 2016 and he was a Guest Editor of the Special Issue on “Antennas and Propagation at mm- and Sub mm-Waves”, from the IEEE

Transactions on Antennas and Propagation, April 2013. He is currently an Associate Editor of the IEEE Open Journal of Antennas and Propagation. He was the Co-Chair of the Technical Program Committee of the European Conference on Antennas and Propagation (EuCAP 2015) in Lisbon and General Vice-Chair of EuCAP 2017 in Paris, EuCAP 2021 online and EuCAP 2022 in Madrid. He is a senior member of IEEE.

Research Interests

Antenna design: RFID, multiband, UWB, MIMO arrays, mm-wave antennas
Biomedical Antennas
Dielectric lens antennas
Transmit-arrays

Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE - IUL	Aggregation	Especialização em Telecomunicações e Redes	2010
Instituto Superior Técnico - UTL	PhD	Engenharia Electrotécnica e de Computadores	2002
Instituto Superior Técnico - UTL	Licenciate	Engenharia Electrotécnica e de Computadores	1997

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2017/2018	2º	Propagation and Radiation of Electromagnetic Waves		No
2017/2018	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No
2016/2017	2º	Propagation and Radiation of Electromagnetic Waves		No
2016/2017	2º	Propagation and Radiation of Electromagnetic Waves		No
2016/2017	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No
2016/2017	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No

2015/2016	2º	Research Methods in Information Sciences and Technologies I		Yes
2015/2016	2º	Propagation and Radiation of Electromagnetic Waves		No
2015/2016	2º	Propagation and Radiation of Electromagnetic Waves		No
2015/2016	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No
2015/2016	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No
2014/2015	2º	Propagation and Radiation of Electromagnetic Waves		No
2014/2015	2º	Propagation and Radiation of Electromagnetic Waves		No
2014/2015	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No
2014/2015	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No
2013/2014	2º	Propagation and Radiation of Electromagnetic Waves		No
2013/2014	2º	Propagation and Radiation of Electromagnetic Waves		No
2013/2014	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No
2013/2014	1º	Electromagnetism	Bachelor Degree in Telecommunications and Computer Engineering;	No

Supervisions

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Jorge Pedro da Costa Mendes Teixeira	Low Profile Antennas for 5G and Satellite Communications	English	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Késia Cristiane dos Santos Farias	Antennas for microwave and millimter-wave medical imaging	English	Instituto Superior Técnico	2023
2	Ana Catarina Caniço Cruz	--	English	Instituto Superior Técnico	2018
3	Eduardo Brás Lima	--	English	Instituto Superior Técnico	2018
4	João Manuel de Almeida Monteiro Felício	Antennas for biomedical applications: wireless body area networks and medical microwave imaging	English	Instituto Superior Técnico	2018
5	Joana Rita Alves dos Santos Silva	--	English	Instituto Superior Técnico	2017
6	Andela Zaric	--	English	Instituto Superior Técnico	2016
7	Ana Maria Pinto Lima Vieira Brites Kankura Salazar	Avaliação da Qualidade do Serviço, Satisfação e Intenções de Comportamento dos Consumidores de Hotéis de 4 e 5 Estrelas de Cadeia em Portugal	Portuguese	Iscte	2007
8	Paulo Manuel Roque Águas	Determinação dos Segmentos de Mercado Prioritários - uma Metodologia para Destinos Turísticos	Portuguese	Iscte	2006

• M.Sc. Dissertations

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Fábio Martinho Cardoso	Design of All-Metal Antennas for 5G and Satellite Applications	English	Iscte	2021
2	Christopher Alexander Xavier Edgley	New technologies for ground terminal satellite-on-the-move antennas	English	Instituto Superior Técnico	2019
3	Catarina Alexandra Godinho Rebocho	--	English	Instituto Superior Técnico	2018
4	Tomás Alexandre Saltão Almeida	--	English	Instituto Superior Técnico	2018
5	Ana Sofia Cabral Nunes	--	English	Instituto Superior Técnico	2017
6	André Jorge Fortes Carrilho dos Reis Arraiano	--	English	Instituto Superior Técnico	2016

7	Jorge Pedro da Costa Mendes Teixeira	Desenvolvimento de lentes planares dielétricas para impressão 3D	Portuguese	Iscte	2016
8	João Manuel de Almeida Monteiro Felício	--	English	Instituto Superior Técnico	2014
9	Valter Santos Matos	--	Portuguese	Instituto Superior Técnico	2012
10	Luís Carlos Caeiro Franco Vicente de Almeida	--	Portuguese	Instituto Superior Técnico	2012
11	André Generoso Santiago	--	English	Instituto Superior Técnico	2012
12	Duarte Manuel de Sousa Fonseca	GPS Ground Base Antenna for Presision Positioning	English	Iscte	2012
13	Joana Rita Alves dos Santos Silva	Lens-Based Streerable-bean Compact antennas for KA-Band ground Terminals	English	Iscte	2012
14	António Miguel Castanheira Afonso de Almeida	--	English	Instituto Superior Técnico	2011
15	Pedro Miguel Araujo Ambrosio Alvares Serrão	--	English	Instituto Superior Técnico	2011
16	Ana Catarina Caniço da Cruz	Antenas de banda-dupla para sistemas de localização em interiores.	--	Iscte	2011
17	João de Sena Baptista Pimentel Marcos	Medição do campo próximo de antenas e outras estruturas.	--	Iscte	2011
18	Maria Cristina Câmara	Study of Transparent Antennas for RFID	English	Instituto Superior Técnico	2010
19	Ivo Rego	--	English	Instituto Superior Técnico	2009
20	António José Dionísio Varela	--	English	Instituto Superior Técnico	2008
21	Eduardo Jorge da Costa Brás Lima	--	English	Instituto Superior Técnico	2008
22	Tatiana Sofia Sá Fernandes	--	English	Instituto Superior Técnico	2008
23	Ridwan Nabi	--	English	Instituto Superior Técnico	2007
24	Carla Sofia dos Reis Medeiros	--	English	Instituto Superior Técnico	2007

Total Citations

Web of Science®	2932
Scopus	3241

Publications

- **Scientific Journals**

- Scientific journal paper

1	Cai, Y., Matos, S. A., Mei, P., Felício, J. M., Fernandes, C. A., Costa, J....Zhang, S. (2025). Design of broadband low-profile transmitarrays at Ka-band with high-permittivity 3D-printed materials. IEEE Transactions on Antennas and Propagation. 73 (11), 8972-8980
2	Costa, T. S. da., Felício, J., Vala, M., Caldeirinha, R., Matos, S., Costa, J....de Maagt, P. (2025). Identifying optimal microwave frequencies to detect floating macroplastic litter using machine learning. International Journal of Microwave and Wireless Technologies. 17 (5), 804-818
3	de Fockert, A., Eleveld, M. A., Bakker, W., Felício, J. M., Costa, T. S., Vala, M....de Maagt, P. (2024). Assessing the detection of floating plastic litter with advanced remote sensing technologies in a hydrodynamic test facility. Scientific Reports. 14 (1) - Times Cited Web of Science®: 5 - Times Cited Scopus: 7 - Times Cited Google Scholar: 11
4	Felício, J. M., Martins, R. A., Costa, J. R. & Fernandes, C. A. (2024). Microwave breast imaging for cancer diagnosis: An overview. IEEE Antennas and Propagation Magazine. 66 (4), 85-97 - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
5	Felício, J. M., Costa, T. So Da, Vala, M., Leonor, N., Costa, J. R., Marques, P....de Maagt, P. (2024). Feasibility of radar-based detection of floating macroplastics at microwave frequencies. IEEE Transactions on Antennas and Propagation. 72 (3), 2766-2779 - Times Cited Web of Science®: 8 - Times Cited Scopus: 8 - Times Cited Google Scholar: 9
6	Santos, K. C. , Fernandes, C. A. & Costa, J. R. (2023). Validation of a compact microwave imaging system for bone fracture detection. IEEE Access. 11, 63690-63700 - Times Cited Web of Science®: 9 - Times Cited Scopus: 10 - Times Cited Google Scholar: 14
7	Vaquero, Á. F., Teixeira, J., Matos, S. A., Arrebola, M., Costa, J. R., Felício, J. M....Fonseca, N. J. G. (2023). Design of low-profile transmitarray antennas with wide mechanical beam steering at millimeter waves. IEEE Transactions on Antennas and Propagation. 71 (4), 3713-3718 - Times Cited Web of Science®: 45 - Times Cited Scopus: 50 - Times Cited Google Scholar: 50

8	Matos, S., Fonseca, N. J. G., João C. Serra, João M. Felício, Costa, J. R. & Fernandes, C. A. (2023). Generalized Risley Prism for Beam-Steering Transmit Arrays With Reduced Grating Lobes. IEEE Transactions on Antennas and Propagation. 71 (11), 8420-8428 - Times Cited Web of Science®: 13 - Times Cited Scopus: 20 - Times Cited Google Scholar: 19
9	Santos, K. C. , Fernandes, C. A. & Costa, J. R. (2022). Feasibility of bone fracture detection using microwave imaging. IEEE Open Journal of Antennas and Propagation. 3, 836-847 - Times Cited Web of Science®: 27 - Times Cited Scopus: 37 - Times Cited Google Scholar: 44
10	Savazzi, M., Felício, J. M., Costa, J. R., Fernandes, C. A. & Conceição, R. (2021). Study of freezing and defrosting effects on complex permittivity of biological tissues. IEEE Antennas and Wireless Propagation Letters. 20 (12), 2210-2214 - Times Cited Web of Science®: 4 - Times Cited Scopus: 4 - Times Cited Google Scholar: 5
11	Vaquero, A. V., Rodriguez Pino, M., Arrebola, M., Matos, S., Costa, J. R. & Fernandes, C. A. (2021). Evaluation of a dielectric-only transmitarray for generating multi-focusing near-field spots using a cluster of feeds in the Ka-Band. Sensors. 21 - Times Cited Web of Science®: 6 - Times Cited Scopus: 6 - Times Cited Google Scholar: 7
12	Vaquero, A. V., Rodriguez Pino, M., Arrebola, M., Matos, S., Costa, J. R. & Fernandes, C. A. (2020). Bessel beam generation using dielectric planar lenses at millimeter frequencies. IEEE Access. 8, 216185-216196 - Times Cited Web of Science®: 10 - Times Cited Scopus: 12 - Times Cited Google Scholar: 15
13	Savazzi, M., Abedi, S., Ištuk, N., Joachimowicz, N., Roussel, H., Porter, E....Conceição, R. C. (2020). Development of an anthropomorphic phantom of the axillary region for microwave imaging assessment. Sensors. 20 (17) - Times Cited Web of Science®: 10 - Times Cited Scopus: 12 - Times Cited Google Scholar: 16
14	Felício, J. M., Bioucas-Dias, J. M., Costa, J. R. & Fernandes, C. A. (2020). Microwave breast imaging using a dry setup. IEEE Transactions on Computational Imaging. 6 (12), 167-180 - Times Cited Web of Science®: 45 - Times Cited Scopus: 54 - Times Cited Google Scholar: 65
15	Andre Barka, Matos, S., Costa, J. R., Fernandes, C. A. & Hassan Chreim (2020). Applying Massively Parallel Computing to Multiscale Ka Dual-Band Transmit-Array Analysis Using FETI-2LM. IEEE Journal on Multiscale and Multiphysics Computational Techniques. 5, 235-244 - Times Cited Web of Science®: 6 - Times Cited Scopus: 8 - Times Cited Google Scholar: 12

16	Naseri, P., Costa, J. R., Matos, S., Fernandes, C. A. & Hum, S. V. (2020). Equivalent circuit modeling to design a dual-band dual linear-to-circular polarizer surface. IEEE Transactions on Antennas and Propagation. 68 (7), 5730-5735 - Times Cited Web of Science®: 21 - Times Cited Scopus: 22 - Times Cited Google Scholar: 31
17	Matos, S., Teixeira, J., Costa, J. R., Fernandes, C. A., Nachabe, N., Luxey, C....Vizzari, J. -F. (2020). 3D-Printed transmit-array antenna for broadband backhaul 5G links at V band. IEEE Antennas and Wireless Propagation Letters. 19 (6), 977-981 - Times Cited Web of Science®: 16 - Times Cited Scopus: 17 - Times Cited Google Scholar: 20
18	João M. Felício, J. Bioucas-Dias, Costa, J. R. & Carlos A Fernandes (2019). Antenna design and near-field characterization for medical microwave imaging applications. IEEE Transactions on Antennas and Propagation. 67 (7), 4811-4824 - Times Cited Web of Science®: 51 - Times Cited Scopus: 57 - Times Cited Google Scholar: 68
19	Parinaz Naseri, Matos, S., Lima, E. B., Costa, J. R., Fernandes, C. A. & Fonseca, N. J. G. (2019). Efficient Evaluation of Gradient Transmit-Arrays Through an Equivalent Dispersive Dielectric Description. IEEE Transactions on Antennas and Propagation. 67 (9), 5997-6007 - Times Cited Web of Science®: 5 - Times Cited Scopus: 4 - Times Cited Google Scholar: 7
20	Lima, E. B., Costa, J. R. & Fernandes, C. A. (2019). Multiple-beam focal-plane dual-band fabry–pérot cavity antenna with reduced beam degradation. IEEE Transactions on Antennas and Propagation. 67 (7), 4348-4356 - Times Cited Web of Science®: 12 - Times Cited Scopus: 18 - Times Cited Google Scholar: 21
21	João M. Felício, Costa, J. R. & C. A. Fernandes (2018). Dual-band skin-adhesive repeater antenna for continuous body signals monitoring. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology. 2 (1), 25-32 - Times Cited Web of Science®: 30 - Times Cited Scopus: 41 - Times Cited Google Scholar: 48
22	Naseri, P. , Matos, S., Costa, J. R., Fernandes, C. A. & Fonseca, N. J. G. (2018). Dual-band dual linear to circular polarization converter in transmission mode-application to K/Ka-band satellite communications. IEEE Transactions on Antennas and Propagation. 66 (12), 7128-7137 - Times Cited Web of Science®: 213 - Times Cited Scopus: 235 - Times Cited Google Scholar: 270
23	Cruz, C. C., Fernandes, C. A., Matos, S. A. & Costa, J. R. (2018). Synthesis of shaped-beam radiation patterns at millimeter-waves using transmit arrays. IEEE Transactions on Antennas and Propagation. 66 (8), 4017-4024 - Times Cited Web of Science®: 23 - Times Cited Scopus: 25 - Times Cited Google Scholar: 36

24	Naseri, P., Matos, S. A., Costa, J. R. & Fernandes, C. A. (2018). Phase-delay versus phase-rotation cells for circular polarization transmit arrays - application to Satellite Ka-Band Beam steering. IEEE Transactions on Antennas and Propagation. 66 (3), 1236-1247 - Times Cited Web of Science®: 57 - Times Cited Scopus: 55 - Times Cited Google Scholar: 71
25	Bisognin, A., Arboleya, A., Luxey, C., Gianesello, F., Gloria, D., Matos, S. A....Fernandes, C. A. (2017). Three-dimensional printed ABS plastic peanut-lens with integrated ball grid array module for high-data-rate communications in F-band. IET Microwaves, Antennas and Propagation. 11 (14), 2021-2026 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
26	Lima, E. B., Costa, J. R. & Fernandes, C. A. (2017). Wideband and high-selectivity dual-band filter for Ka-Band satellite antennas. IEEE Antennas and Wireless Propagation Letters. 16, 1627-1630 - Times Cited Web of Science®: 6 - Times Cited Scopus: 9 - Times Cited Google Scholar: 8
27	Matos, S., Lima, E. B., Silva, J. S., Costa, J. R., Fernandes, C. A., Fonseca, N. J. G....Mosig, J. R. (2017). High gain dual-band beam-steering transmit array for Satcom terminals at Ka-band. IEEE Transactions on Antennas and Propagation. 65 (7), 3528-3539 - Times Cited Web of Science®: 131 - Times Cited Scopus: 134 - Times Cited Google Scholar: 166
28	Bisognin, A., Nachabe, N., Luxey, C., Gianesello, F., Gloria, D., Costa, J....Arbabian, A. (2017). Ball Grid Array Module with Integrated Shaped Lens for 5G Backhaul/Fronthaul Communications in F-Band. IEEE Transactions on Antennas and Propagation. 65 (12), 6380-6394 - Times Cited Web of Science®: 51 - Times Cited Scopus: 56 - Times Cited Google Scholar: 69
29	Prudêncio, F. R., Costa, J. R., Fernandes, C. A., Engheta, N. & Silveirinha, M. G. (2017). Experimental verification of 'waveguide' plasmonics. New Journal of Physics. 19, 1-8 - Times Cited Web of Science®: 20 - Times Cited Scopus: 22 - Times Cited Google Scholar: 22
30	Cruz, C. C., Costa, J. R., Fernandes, C. A. & Matos, S. (2017). Focal-plane multibeam dual-band dielectric lens for ka-band. IEEE Antennas and Wireless Propagation Letters. 16, 432-436 - Times Cited Web of Science®: 11 - Times Cited Scopus: 11 - Times Cited Google Scholar: 12
31	Silva, J. S., García-Vigueras, M., Debogovic, T., Costa, J. R., Fernandes, C. A. & Mosig, J. R. (2017). Stereolithography-based antennas for satellite communications in Ka-Band. Proceedings of the IEEE. 105 (4), 655-667 - Times Cited Web of Science®: 57 - Times Cited Scopus: 59 - Times Cited Google Scholar: 74

32	Felício, J. M., Fernandes, C. A. & Costa, J. R. (2016). Wideband Implantable Antenna for Body-Area High Data Rate Impulse Radio Communication. IEEE Transactions on Antennas and Propagation. 64 (5), 1932-1940 - Times Cited Web of Science®: 28 - Times Cited Scopus: 29 - Times Cited Google Scholar: 35
33	Bisognin, A., Cihangir, A., Luxey, C., Jacquemod, G., Pilard, R., Gianesello, F....Whittow, W. (2016). Ball grid array-module with integrated shaped lens for WiGig applications in eyewear devices. IEEE Transactions on Antennas and Propagation. 64 (3), 872-882 - Times Cited Web of Science®: 20 - Times Cited Scopus: 23 - Times Cited Google Scholar: 34
34	Bisognin, A., Titz, D., Ferrero, F., Jacquemod, G., Pilard, R., Gianesello, F....Luxe, C. (2015). Noncollimating MmW polyethylene lens mitigating dual-source offset from a Tx/Rx WiGig module. IEEE Transactions on Antennas and Propagation. 63 (12), 5908-5913 - Times Cited Web of Science®: 6 - Times Cited Scopus: 7 - Times Cited Google Scholar: 9
35	Silva, J. S., Lima, E. B., Costa, J. R., Fernandes, C. A. & Mosig, J. (2015). Tx-Rx lens-based satellite-on-the-move Ka-band antenna. IEEE Antennas and Wireless Propagation Letters. 14, 1408-1411 - Times Cited Web of Science®: 22 - Times Cited Scopus: 22 - Times Cited Google Scholar: 31
36	Zaric, A., Cruz, C. C., Matos, A. M., Silva, M. R., Costa, J. R. & Fernandes, C. A. (2015). RFID-based smart blood stock system. IEEE Antennas and Propagation Magazine. 57 (2), 54-65 - Times Cited Web of Science®: 16 - Times Cited Scopus: 15 - Times Cited Google Scholar: 20
37	Fernandes, C. A., Costa, J. R., Lima, E. B. & Silveirinha, M. G. (2015). Review of 20 years of research on microwave and millimeter-wave lenses at “Instituto de Telecomunicações”. IEEE Antennas and Propagation Magazine. 57 (1), 249-268 - Times Cited Web of Science®: 23 - Times Cited Scopus: 22 - Times Cited Google Scholar: 25
38	Lima, E. B., Matos, S., Costa, J. R., Fernandes, C. A. & Fonseca, N. J. G. (2015). Circular polarization wide-angle beam steering at Ka-Band by in-plane translation of a plate lens antenna. IEEE Transactions on Antennas and Propagation. 63 (12), 5443-5455 - Times Cited Web of Science®: 195 - Times Cited Scopus: 203 - Times Cited Google Scholar: 246
39	Morgado, T., Marcos, J., Costa, J. T., Costa, J. R., Fernandes, C. A. & Silveirinha, M. G. (2014). Reversed rainbow with a nonlocal metamaterial. Applied Physics Letters. 105 (26), 264101-264105 - Times Cited Web of Science®: 10 - Times Cited Scopus: 9 - Times Cited Google Scholar: 11

40	Morgado, T., Alves, J. M., Marcos, J., Maslovski, S., Costa, J. R., Fernandes, C. A...Silveirinha, M. G. (2014). Spatially Confined UHF RFID Detection With a Metamaterial Grid. IEEE Transactions on Antennas and Propagation. 62 (1), 378-384 - Times Cited Web of Science®: 11 - Times Cited Scopus: 12 - Times Cited Google Scholar: 16
41	Zaric, A., Costa, J. R. & Fernandes, C. A. (2014). Design and ranging performance of a low-profile UWB antenna for WBAN localization applications. IEEE Transactions on Antennas and Propagation. 62 (12), 6420-6427 - Times Cited Web of Science®: 17 - Times Cited Scopus: 21 - Times Cited Google Scholar: 21
42	Silveirinha, M. G., Fernandes, C. A. & Costa, J. R. (2014). A graphical aid for the complex permittivity measurement at microwave and millimeter wavelengths. IEEE Microwave and Wireless Components Letters. 24 (6), 421-423 - Times Cited Web of Science®: 8 - Times Cited Scopus: 9 - Times Cited Google Scholar: 13
43	Kiourti, A., Costa, J. R., Fernandes, C. A. & Nikita, K. (2014). A broadband implantable and a dual-band on-body repeater antenna: design and transmission performance. IEEE Transactions on Antennas and Propagation. 62 (6), 2899-2908 - Times Cited Web of Science®: 91 - Times Cited Scopus: 92 - Times Cited Google Scholar: 119
44	Zaric, A., Matos, V. S., Costa, J. R. & Fernandes, C. A. (2014). Viability of wall-embedded tag antenna for ultra-wideband real-time suitcase localisation. IET Microwaves, Antennas and Propagation. 8 (6), 423-428 - Times Cited Web of Science®: 7 - Times Cited Scopus: 6 - Times Cited Google Scholar: 11
45	Cruz, C. C., Costa, J. R. & C. A. Fernandes (2013). Hybrid UHF/UWB antenna for passive indoor identification and localization systems. IEEE Transactions on Antennas and Propagation. 61 (1), 354-361 - Times Cited Web of Science®: 69 - Times Cited Scopus: 72 - Times Cited Google Scholar: 82
46	L. Duixian, J. Hirokawa, Costa, J. R., C. A. Fernandes & R. Sauleau (2013). Guest editorial for the special issue on antennas and propagation at mm-and Sub mm-Waves. IEEE Transactions on Antennas and Propagation. 61 (4), 1502-1507 - Times Cited Web of Science®: 2 - Times Cited Scopus: 5 - Times Cited Google Scholar: 5
47	Kiourti, A., K. A. Psathas, Costa, J. R., C. A. Fernandes & Nikita, K. (2013). Dual-band implantable antennas for medical telemetry: A fast design methodology and validation for intra-cranial pressure monitoring. Progress in Electromagnetics Research. 141, 161-183 - Times Cited Web of Science®: 25 - Times Cited Scopus: 25 - Times Cited Google Scholar: 40

48	Santiago, A., Costa, J. R. & Fernandes. C. A. (2013). Broadband UHF RFID Passive Tag Antenna for Near-Body Applications. IEEE Antennas and Wireless Propagation Letters. 12, 136-139 - Times Cited Web of Science®: 39 - Times Cited Scopus: 36 - Times Cited Google Scholar: 47
49	Kiourti, A., Costa, J. R., C. A. Fernandes, Santiago, A. & Nikita, K. (2012). Miniature Implantable Antennas for Biomedical Telemetry: From Simulation to Realization. IEEE Transactions on Biomedical Engineering. 59 (11), 3140-3147 - Times Cited Web of Science®: 61 - Times Cited Scopus: 69 - Times Cited Google Scholar: 104
50	Serra, C. C., Medeiros, C. R. , Costa, J. R. & Fernandes, C. A. (2011). Mirror-Integrated Transparent Antenna for RFID Application. IEEE Antennas and Wireless Propagation Letters. 10, 776-779 - Times Cited Web of Science®: 39 - Times Cited Scopus: 37 - Times Cited Google Scholar: 49
51	Medeiros, C. R. , Costa, J. R. & Fernandes, C. A. (2011). Passive UHF RFID Tag for Airport Suitcase Tracking and Identification. IEEE Antennas and Wireless Propagation Letters. 10, 123-126 - Times Cited Web of Science®: 28 - Times Cited Scopus: 30 - Times Cited Google Scholar: 45
52	C. R. Medeiros, Costa, J. R. & C. A. Fernandes (2011). RFID Reader Antennas For Tag Detection in Self-Confined Volumes at UHF. IEEE Antennas and Propagation Magazine. 53 (2), 39-50 - Times Cited Web of Science®: 69 - Times Cited Scopus: 66 - Times Cited Google Scholar: 103
53	M G. Silveirinha, C. R. Medeiros, C. A. Fernandes & Costa, J. R. (2011). Resolving subwavelength objects with a crossed wire mesh superlens operated in backscattering mode. New Journal of Physics. 13 - Times Cited Web of Science®: 10 - Times Cited Scopus: 9 - Times Cited Google Scholar: 13
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61	Felício, J. M., Fernandes, C. A. & Costa, J. R. (2017). Link budget study and realization of time-domain measurement setup for implantable antennas. In 2017 11th European Conference on Antennas and Propagation (EUCAP). (pp. 1833-1837). Paris, France: IEEE. - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
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65	Matos, S. A., Costa, J. R., Lima, E., Fernandes, C. A. & Fonseca, N. J. G. (2016). Prototype of a compact mechanically steered Ka-band antenna for satellite on-the-move. In 2016 IEEE International Symposium on Antennas and Propagation (APSURSI). (pp. 1487-1488). Fajardo, PR, USA: IEEE. - Times Cited Web of Science®: 7 - Times Cited Scopus: 8 - Times Cited Google Scholar: 8
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67	Felício, J. M., Fernandes, C. A. & Costa, J. R. (2016). Low-profile wideband stick-on antenna for body-area communication. In 2016 10th European Conference on Antennas and Propagation (EuCAP). Davos: IEEE.
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70	Silva, J., García-Vigueras, M., Mosig, J., Esquius-Morote, M., Costa, J. R. & Fernandes, C. A. (2015). Lens-based Ka-band antenna system using planar feed. In Luis M. Correia (Ed.), 2015 9th European Conference on Antennas and Propagation (EuCAP). Lisboa: IEEE. - Times Cited Scopus: 2 - Times Cited Google Scholar: 3
71	Bisognin, A., Titz, D., Luxe, C., Jacquemod, G., Pilard, R., Gianesello, F....Devillers, F. (2015). Millimeter-wave antenna-in-package solutions for WiGig and backhaul applications. In Gareth A Conway, William G. Scanlon (Ed.), Proceedings of 2015 International Workshop on Antenna Technology (iWAT). (pp. 52-55). Seoul: IEEE. - Times Cited Web of Science®: 10 - Times Cited Scopus: 12 - Times Cited Google Scholar: 16
72	A. Bisognin, D. Titz, C. Luxey, G. Jacquemod, R. Pilard, F. Gianesello...C. A. Fernandes (2014). A 120 GHz 3D-Printed Plastic Elliptical Lens Antenna with an IPD Patch Antenna Source. In IEEE International Conf. on Ultra-Wideband - ICUWB. Paris - Times Cited Web of Science®: 39 - Times Cited Scopus: 22 - Times Cited Google Scholar: 26

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74	A. Bisognin, D. Titz, C. Luxe, G. Jacquemod, R. Pilard, F. Gianesello...C. A. Fernandes (2014). Comparizon of 3D printed Plastic and micromachined Teflon Lenses for WiGig modules. In IEEE AP-S/URSI International Symp. Memphis - Times Cited Web of Science®: 2 - Times Cited Scopus: 3 - Times Cited Google Scholar: 3
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77	Cruz, C. C., Costa, J. R. & Fernandes, C. A. (2012). Design of a passive tag for indoor localization. In Mazanek, M. (Ed.), 2012 6th European Conference on Antennas and Propagation (EUCAP). (pp. 2495-2499). Prague: IEEE. - Times Cited Scopus: 4 - Times Cited Google Scholar: 5
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- Talk

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2	Matos, S., J. Corcoles, Felício, J., Costa, J. R., Fonseca, N. J. G. & Fernandes, C. A. (2025). Dual Band Risley Prism Antenna for Satellite-On-The-Move Applications. European Conference on Antennas and Propagation - EuCap.
3	Matos, S., Fonseca, N. J. G., Felício, J., Fernandes, C. A. & Costa, J. R. (2025). Wideband power divider design based on miniaturized ridge waveguides. European Conference on Antennas and Propagation - EuCap.
4	Matos, S., Fonseca, N. J. G., João M. Felício, Fernandes, C. A. & Costa, J. R. (2025). Ultra-Compact Risley-Prism Design with a 3D-Printed Transmit-Array Fed by a Radial Line Slot Antenna. European Conference on Antennas and Propagation - EuCap.
5	Alvaro F. Vaquero, Matos, S., Arraiano A., M. Arrebola, João M. Felício, Costa, J. R....Fernandes, C. A. (2025). Evaluation of the Beam-Scanning Performance of Curved Transmitarrays,. European Conference on Antennas and Propagation - EuCap.

6	Mário Vala, Felício, J., Nuno Leonor, Costa, J. R., Paulo Marques, Matos, S....Peter de Maagt (2025). Medium-Scale Measurement Campaign for Floating Macroplastic Detection in a Realistic Environment at X-Band Frequencies. European Conference on Antennas and Propagation - EuCap.
7	Matos, S., J. Corcoles, Felício, J., Costa, J. R., Fonseca, N. J. G. & Fernandes, C. A. (2024). Mechanical Wide-angle Beam Scanning At K/ka-band With Dual-band Transmit-arrays. ESA-ESTEC ESA-ESTEC 42th ESA Antenna workshop.
8	Matos, S., Felício, J., Costa, J. R., Fernandes, C. A. & Fonseca, N. J. G. (2024). Multibeam antenna design based on transmit-arrays with low F/D operation. XXXIX Simposio Nacional de la Unión Científica Internacional de Radio Spanish URS.
9	Matos, S., Fonseca, N. J. G., Felício, J., Fernandes, C. A. & Costa, J. R. (2024). Design of Low-profile Mechanical Beam Steering Transmit-array antennas for Satcom. ESA-ESTEC ESA-ESTEC 42th ESA Antenna workshop.
10	Matos, S., Alvaro F. Vaquero, M. Arrebola, Costa, J. R., João M. Felício & Fernandes, C. A. (2023). Achieving Wide-Angle Mechanical Beam Steering in Ka-Band with Low-Profile Transmit-Array Antennas. European Conf. on Antennas & Propagation - EUCAP.
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13	Matos, S., Costa, J. R., Felício, J. & Fernandes, C. A. (2022). 3D printing as an effective tool for Transmit-array design at Ka band. Simposium Nacional de la URSI.
14	Ferreira da Silva, C., Botelho, M.C., Nunes, N., Guerreiro, MD, Sousa, M., Costa, J. R....Alexandre, I. (2022). InCITIES – Traiblazing Inclusive, Sustainable and Resilient Cities (Horizon Europe Project: coordination and support action. Creative Smart Cities - 1st Science and Industry Meet-Up 2022.
15	Matos, S., Costa, J. R., Felício, J., Fernandes, C. A. & Fonseca, N. (2021). Mechanical beam-steering using millimeter-wave transmit-array antennas . 2021 Joint European Conference on Networks and Communications & 6G Summit (EuCNC/6G Summit), Proceedings.
16	Matos, S., Costa, J. R., Parinaz Naseri, Lima, E. B., Fernandes, C. A. & Fonseca, N. J. G. (2020). Equivalent Dielectric Description of Transmit-arrays as an efficient and accurate method of analysis. 14th European Conference on Antennas and Propagation.
17	Matos, S., Costa, J. R., João M. Felício, A. Almeida, Fonseca, N. J. G., Parinaz Naseri...Fernandes, C. A. (2020). Dual Band Dual-Circulary Polarized Transmit-array Antenna for SoTM Ground Terminals at Ka-band. 2020 IEEE International Workshop on Antenna Technology (iWAT 2020).
18	Matos, S., Costa, J. R., Fernandes, C. A., Alves & Fonseca, N. J. G. (2020). Reducing Beam Aberrations of Mechanical Scanning Transmit-array Antennas . 2020 IEEE AP-S Symposium on Antennas and Propagation and CNC/USNC-URSI.

19	Matos, S., Costa, J. R., Fernandes, C. A., Nour Nachabe, Luxey, C., D. Titz...Jean-Francois Vizzari (2020). Transmit-array antenna design for broadband backhaul 5G communications at WiGiG band. 14th European Conference on Antennas and Propagation.
20	Arraiano A., Matos, S., Costa, J. R., Fernandes, C. A. & Fonseca, N. J. G. (2019). Ultra-wide beam scanning using a Conformal Transmit-array for Ka-band . 2019 13th European Conference on antennas and propagation (EUCAP).
21	Matos, S., Costa, J. R., Fernandes, C. A., João M. Felício & A. Almeida (2019). Modular Design Of A Dual-Band Dual-Circularlypolarized Antenna To Feed A Ka-Band Transmit-Array For Sotm Ground Terminals. ESA-ESTEC 40th ESA Antenna workshop. - Times Cited Google Scholar: 1
22	Matos, S., Costa, J. R., Parinaz Naseri, Lima, E. B., Fernandes, C. A. & Fonseca, N. J. G. (2019). Full-wave evaluation of a 40 dBi Transmit-array for Ka-band SoTM. URSI Spain National Conf. - URSI Spain.
23	Teixeira, J., Matos, S., Costa, J. R. & Fernandes, C. A. (2018). Efficient full-wave assessment of high gain transmit-array antennas. XII Iberian Meeting on Computational Electromagnetics EIEC.
24	Matos, S., Lima, E. B., Costa, J. R., Fernandes, C. A. & Fonseca, N. J. G. (2018). Experimental evaluation of a high gain dual-band beam steerable transmit-array. European Conf. on Antennas & Propagation - EUCAP.
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26	Matos, S., Parinaz Naseri, Teixeira, J., Costa, J. R. & Fernandes, C. A. (2018). New Concept For Multibeam Antennas Based On Two Cascaded Ka-Band Transmit-Array. 39th ESA Antenna Workshop on Innovative Antenna Systems and Technologies for Future Space Missions.
27	Costa, J. R., Matos, S., Lima, E. B., Parinaz Naseri, Fernandes, C. A. & Fonseca, N. J. G. (2018). Transmit array ground terminals for satellite communications. Loughborough Antennas and Propagation Conference.
28	Cruz, Catarina C., C. A. Fernandes, Matos, S. & Costa, J. R. (2018). Phase-only shaped beam transmit-array. 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting.
29	Felício, J., C. A. Fernandes, Conceição, R. & Costa, J. R. (2018). Webcam-based Distance and Surface Estimation System for Microwave Imaging. 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting.
30	Matos, S., Costa, J. R., E. B. Lima, Parinaz Naseri, C. A. Fernandes & Fonseca, N. J. G. (2018). Wide-angle mechanical scanning Transmit-arrays for satellite Ka-band user terminals. 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting.
31	Zaric, A., Valter S. Matos, Costa, J. R. & Fernandes, C. A. (2016). Antennas for Indoor Localization Systems. Encuentro Ibérico de Electromagnetismo Computacional - EIEC. 1, 1-1
32	Felício, J., Fernandes, C. A. & Costa, J. R. (2016). Comparing Liquid Homogeneous and Multilayer Phantoms for Human Body Implantable Antennas. IEEE AP-S/URSI International Symposium. 1, 1-2
33	Felício, J., Costa, J. R. & Fernandes, C. A. (2016). Low-Profile Wideband Stick-on Antenna for Body- Area Communication. European Conf. on Antennas & Propagation - EUCAP . 1, 1-3

34	Zaric, A., Costa, J. R. & Fernandes, C. A. (2015). Influence of Body Placement on Low Profile UWB Antenna Off-body Ranging Performance. IEEE AP-S/URSI International Symp. 1-2
35	Morgado, T., Marcos, J., J. T. Costa, Costa, J. R., C. A. Fernandes & M. G. Silveirinha (2014). Experimental Verification of Low-Loss Broadband Anomalous Material Dispersion at Microwaves. Metamorphose International Congress on Advanced Electromagnetic Materials in Microwaves and Optics - METAMATERIALS.
36	F. Janeiro, Costa, J. R., C. A. Fernandes & P. Ramos (2014). Ultra High Frequency Circuit Identification through Gene Expression Programming. IMEKO TC4 Symp.
37	A. Bisognin, D. Titz, C. Luxey, G. Jacquemod, R. Pilard, F. Gianesello...C. A. Fernandes (2014). A 120 GHz 3D-Printed Plastic Elliptical Lens Antenna with an IPD Patch Antenna Source. IEEE International Conf. on Ultra-Wideband - ICUWB.
38	Cruz, Catarina C., Matos, S., Lima, E. B., Costa, J. R. & Fernandes, C. A. (2014). Focal-plane multi-beam dual-band dielectric lens for Ka-band. IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting.
39	Zaric, A., Costa, J. R. & C. A. Fernandes (2014). Low Profile UWB Antenna for Wireless Body Area Networks. European Conf. on Antennas & Propagation - EUCAP.
40	Joana S. Silva, Eduardo B. Lima, Costa, J. R., C. A. Fernandes & J. Mosig (2014). Design and Analysis of a Ka-Band Coaxial-to-Quad-Ridged Circular Waveguide Transition. European Conf. on Antennas & Propagation - EUCAP.
41	F. Janeiro, Costa, J. R., C. A. Fernandes & P. Ramos (2014). RFID Chip Characterization through S-Parameter Measurements and Gene Expression Programming. IEEE AP-S/URSI International Symp.
42	Zaric, A., Costa, J. R. & C. A. Fernandes (2014). Design of a UWB Stacked Antenna for Body Area Network Applications. IEEE AP-S/URSI International Symp.
43	A. Bisognin, D. Titz, C. Luxe, G. Jacquemod, R. Pilard, F. Gianesello...C. A. Fernandes (2014). Comparizon of 3D printed Plastic and micromachined Teflon Lenses for WiGig modules. IEEE AP-S/URSI International Symp.
44	A. Bisognin, D. Titz, F. Ferrero, R. Pilard, C. A. Fernandes, Costa, J. R....D. Belot (2014). 3D Printed Plastic 60 GHz Lens: Enabling Innovative Millimeter Wave Antenna Solution and System. Microwave Theory and Tech. Symp. - Times Cited Scopus: 45 - Times Cited Google Scholar: 69
45	Valter S. Matos, Zaric, A., C. A. Fernandes & Costa, J. R. (2013). UWB Real Time Localization Platform For Fast System Performance Evaluation. IEEE AP-S/URSI International Symp. - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
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47	Santiago, A., C. A. Fernandes & Costa, J. R. (2012). Broadband UHF RFID passive tag antenna for near-body operation . 2012 IEEE International Conference on RFID-Technologies and Applications (RFID-TA). 271-274 - Times Cited Web of Science®: 1 - Times Cited Scopus: 4 - Times Cited Google Scholar: 11

48	Morgado, T., Alves, J., Marcos, J., Maslovski, S., Costa, J. R., C. A. Fernandes...M. Silveirinha (2012). Metamaterial Grid-based UHF RFID System with Ultraconfined Detection Region . 2012 IEEE International Symposium on Antennas and Propagation.
49	Costa, J. R., E. B. Lima & C. A. Fernandes (2011). Optimized Design of a Double-Shell Integrated Lens Antenna . ESA Worshop on Millimetre Wave Technology and Application.
50	C. R. Medeiros, C. C. Serra, C. A. Fernandes & Costa, J. R. (2011). UHF RFID Cabinet . IEEE AP-S/URSI International Symp.
51	Costa, J. R., E. B. Lima, C. R. Medeiros & C. A. Fernandes (2011). Impact of a New Wideband Slot Array on MIMO Indoor System Performance . IEEE AP-S/URSI International Symp.
52	C. C. Serra, C. R. Medeiros, Costa, J. R. & C. A. Fernandes (2011). Study of Transparent Antennas for RFID. IEEE AP-S/URSI International Symp.
53	C. A. Fernandes, E. B. Lima & Costa, J. R. (2011). Double-shell Modified Extended Hemispherical Lens Feed for Reflectors in Scannin. European Conf. on Antennas & Propagation - EUCAP. 3692-3696
54	Costa, J. R., E. B. Lima, C. R. Medeiros & C. A. Fernandes (2011). 2×2 Dual Linear Polarization Wideband Slot Array . European Conf. on Antennas & Propagation - EUCAP. 355-358
55	C. A. Fernandes, Eduardo B. Lima & Costa, J. R. (2010). Broadband integrated dielectric lens antenna with frequency constant Gaussicity. 2010 Conference Proceedings - ICECom: 20th International Conference on Applied Electromagnetics and Communications.
56	Costa, J. R., Eduardo B. Lima & C. A. Fernandes (2010). Antenna phase center determination from amplitude measurements using a focusing lens. 2010 IEEE International Symposium on Antennas and Propagation and CNC-USNC/URSI Radio Science Meeting - Leading the Wave, AP-S/URSI 2010.

• Other Publications

- Other publications

1	Matos, S., Costa, J. R. & C. A. Fernandes (2012). Designing planar lenses using transformation optics. 2nd COST VISTA Workshop.

Research Projects

Project Title	Role in Project	Partners	Period
Centro de Gestão de Dados de Investigação para as Ciências Sociais e Humanas	Global Coordinator	Iscte-CI - Leader	2025
Research Data Management Network	Local Coordinator	Iscte, UMinho - Leader (Portugal), UC - (Portugal), UNL - (Portugal), IPB - (Portugal)	2025

Inovação em Sensores e Comunicações para a Sociedade	Researcher	IT - Leader (Portugal)	2024 - 2027
Terahertz Reconfigurable Metasurfaces for ultra-high rate wireless communications	Researcher	IT-Iscte, INESC TEC - Leader (Portugal), University of Athens - (Greece), University of Hertfordshire - (Afghanistan), University of Oulu - (Afghanistan), Intracom Telecom - (Afghanistan), IT - (Portugal)	2023 - 2026
Increased Resolution Microwave Imaging using Superlens	Researcher	IT-Iscte, IT - Leader (Portugal)	2023 - 2024
Trailblazing Inclusive, Sustainable and Resilient Cities	Researcher	Iscte - Leader, TH KOLN - (Germany), LAUREA - (Finland), UNI EIFFEL - (France), UNIZA - (Slovakia)	2023 - 2025
Satellite-based microwave remote sensing for marine litter mapping	Researcher	IT-Iscte, IT - (Portugal)	2021 - 2024
European network for advancing Electromagnetic hyperthermic medical technologies	Local Coordinator	IT-Iscte	2019 - 2022
Additive Antenna Manufacturing	Global Coordinator	IT-Iscte	2018 - 2021
ElectroMagnetic imaging for a novel genERation of medicAL Devices	Local Coordinator	IT-Iscte, Polito - Leader (Italy), CNR-IREA - (Italy), NUIG - (Ireland), FCUL - (Portugal), CNRS - (France), TUIL - (Germany), Keysight - (Austria), KCL - (United Kingdom)	2018 - 2021
Microwave medical imaging	Local Coordinator	IT-Iscte	2014 - 2019
Trapping Light in Open Resonators	Local Coordinator	IT-Iscte	2014 - 2016
Compact Lens-Based Mechanically Steered Ka-Band user Terminal Antenna	Global Coordinator	IT-Iscte	2013 - 2018
Development of a European-based Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging	Local Coordinator	IT-Iscte	2013 - 2017

Millimeter Wave Antennas for Next-Generation Satellite Mass Services	Local Coordinator	IT-Iscte	2013 - 2016
Thermal Blanket with Low RF Reflectivity	Local Coordinator	IT-Iscte	2012 - 2015
COST IC1102 - Versatile, Integrated and Signal-aware Technologies for Antennas	Local Coordinator	IT-Iscte	2011 - 2015
Spatially confined RFID detection with a metamaterial grid	Local Coordinator	IT-Iscte	2011 - 2012
New Fromtiers im mm/sub-mm waves integrated dielectric focusing systems	Local Coordinator	IT-Iscte, IETR - (France)	2010 - 2015
Non-local Metamaterials and Applications	Local Coordinator	IT-Iscte	2010 - 2012
Advanced Antennas for Radio Frequency Identification and Localization	Local Coordinator	IT-Iscte	2010 - 2012
Metamaterial with extreme permittivity	Local Coordinator	IT-Iscte	2008 - 2010
Millimetre-wave wireless indoor link with automatic tracking antenna	Local Coordinator	IT-Iscte	2008 - 2010
Network of Excellence in Wireless Communications ++	Local Coordinator	IT-Iscte	2007 - 2010
RFID Smart Surfaces	Local Coordinator	IT-Iscte	2006 - 2011
Benchmarking of Integrated Lens Antenna Design and Manufacturig	Local Coordinator	IT-Iscte, IETR - Univ. Rennes, France - (France)	2006 - 2009
Reconfigurable Low-profile Antennas Using Metamaterials	Local Coordinator	IT-Iscte	2005 - 2008
Antenna Centre of Excellence	Local Coordinator	IT-Iscte	2004 - 2007

Integrated Lens Antenna Shaping	Local Coordinator	IT-Iscte	2003 - 2007
Fiber Solitons: Propagation, Amplification and Switching	Local Coordinator	IT-Iscte	2018
Microwave and optical devices for transmission and switching using linear and nonlinear medi	Local Coordinator	IT-Iscte	1997 - 2001

Academic Management Positions

Vice-Reitor (2022 - 2026)
Unit/Area: ISCTE - University Institute of Lisbon

Vice-Reitor (2018 - 2022)
Unit/Area: ISCTE - University Institute of Lisbon

Sub-diretor (2013 - 2016)
Unit/Area: School of Technology and Architecture

Membro (Docente) (2012 - 2014)
Unit/Area: Plenário do Conselho Científico

Presidente (2011 - 2014)
Unit/Area: Comissão Científica

Director (2011 - 2014)
Unit/Area: Institute of Telecommunications-IUL

Membro (Docente) (2010 - 2013)
Unit/Area: Comissão Científica

Membro (Docente) (2010 - 2013)
Unit/Area: Plenário da Comissão Científica

Membro (Docente) (2010 - 2013)
Unit/Area: Comissão Científica

Awards

Finalist (Top 5) in the contest for best communication in the category "Theory and Design Antenna" in the conference EuCAP2023 (2023)

Third place in the contest for best conference communication iWAT 2023 (2023)

First Prize in 2014 IEEE AP-S Student Design Contest, International student competition organized by IEEE Antenna and Propagation Society in which 2-5 student teams propose, design and build antennas and a communication system for a specific application scenario. (2014)

Top-10 Reviewer of the IEEE Transactions on Antennas and Propagation (2010)

CST University Publication Award 2010, The CST University Publication Award is an annual grant to university institutes and researchers for their work in the application of 3D EM field simulation. (2010)

NA (1997)

Professional Associations

Ordem dos Engenheiros - Membro Sénior, Especialista em Telecomunicações (Since 1997)

IEEE Senior Member (Since 1997)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event's organizing committee	16th European Conference on Antennas and Propagation	EurAAP	2022
Member of scientific event's organizing committee	15th European Conference on Antennas and Propagation	EurAAP	2021
Member of scientific event's organizing committee	11th European Conference on Antennas and Propagation	EurAAP	2017
Member of scientific event committee	11th International Symposium on Medical Information and Communication Technology	ISMICT	2017
Member of scientific event's organizing committee	9th European Conference on Antennas and Propagation	EurAAP	2015
Member of scientific event committee	CETC2013 - Conference on Electronics, Telecommunications and Computers	ISEL	2013
Member of scientific event committee	2012 IEEE RFID Technology and Applications	IEEE	2012

Scientific Editing/Reviewing Activities

Type of Activity	Journal Title	ISSN/Quartile	Period	Language
Scientific journal editor	IEEE Open Journal of Antennas and Propagation (OJAP)	2637-6431 / Q1	Since 2025	English
Member of scientific journal editing staff	IEEE Open Journal of Antennas and Propagation (OJAP)	2637-6431 / Q1	2019 - 2025	English
Member of scientific journal editing staff	IEEE Transactions on Antennas and Propagation (TAP)	0018-926X / Q1 (T5)	2010 - 2016	English

Products

Product Type	Product Title	Detailed Description	Year

Patent	Steerable microwave antenna and method therof	The present document discloses a steerable-beam microwave antenna, arranged for steering a beam relative to a longitudinal axis of the antenna, comprising: a discrete transmitarray comprising a plurality of sub-wavelength phase-shifting unit-cells, rotatably mounted for rotating about said longitudinal axis, having an aperture orthogonal to said longitudinal axis; a feeder for emitting and/or receiving a microwave signal to and/or from the discrete transmitarray, comprising at least one rotatable feeding part; wherein the unit-cell layout of the discrete transmitarray has a phase distribution which superimposes a phase gradient along a transversal axis orthogonal to said longitudinal axis and a rotationally-symmetric phase correction centred on said longitudinal axis. It is also disclosed a method for operating and a method of manufacturing said steerable-beam microwave antenna.	2023
Patent	Waveguide Power Divider	WAVEGUIDE POWER DIVIDER COMPRISING IN SEQUENCE: A FIRST SECTION COMPRISING A DOUBLE-CRESTED WAVEGUIDE FOR INPUTTING A SIGNAL; A SECOND SECTION COMPRISING A DOUBLE-CRESTED TAPERED PORTION FOR MATCHING THE WAVEGUIDE IMPEDANCE OF A FUNDAMENTAL MODE ALONG THE TAPER AND A SEPTUM FOR SPLITTING THE INPUT SIGNAL; A THIRD SECTION COMPRISING TWO DOUBLE-CRESTED WAVEGUIDES SEPARATED BY A SPACING FOR PROPAGATING THE SPLIT SIGNAL TO THE OUTPUT; WHEREIN THE DOUBLE-CRESTED TAPER COMPRISES A LONGITUDINALLY CONTINUOUS PROFILE BETWEEN THE FIRST SECTION AND THE THIRD SECTION. THE RESPECTIVE BEAMFORMING AND ANTENNA NETWORKS ARE ALSO DISCLOSED.	2023

Patent	Device with mirror-integrated transparent antenna for radio frequency identification system	THE PRESENT INVENTION RELATES TO A NEW CONCEPT OF TRANSPARENT ANTENNAS FOR RFID READERS, INTEGRATED IN A MIRROR FOR USE IN FITTING ROOMS, TO ENABLE THE AUTOMATIC READING OF RFID TAGS ATTACHED TO THE GARMENT BEING TRIED ON AND SIMPLE CUSTOMER INTERACTION WITH A STORE'S PRODUCT DATABASE. O INVENTION IS BASED ON A DEVICE (1) WITH AN ANTENNA PRINTED (2) ON A SUBSTRATE OF LOW SUBSTRATE (6), OPTICALLY TRANSPARENT, INTEGRATED INTO THE GLASS PART OF A MIRROR (3) AND FED BY A SLIT (4) OPEN IN THE GROUND PLANE, EXCITED BY A TRANSMISSION LINE (5) PRINTED ON THE BACK OF THE MIRROR (9). THE DEVICE (1), IN ADDITION TO ELIMINATING THE VISUAL IMPACT OF CONVENTIONAL ANTENNAS, GUARANTEES THE CONFINEMENT OF THE READING TO THE REGION IN FRONT OF THE MIRROR, WITHOUT UNWANTED READINGS FROM ADJACENT TESTERS, ELIMINATING THE NEED FOR USE OF ELECTROMAGNETIC BARRIERS. THE MANUFACTURING PROCESS, AS WELL AS THE USED ARE QUITE SIMPLE AND T	2011
Patent	Wireless Passive Voting Device and System	The present invention relates to wireless passive voting device comprising at least a carrier layer made of dielectric material over which is arranged a plurality of RFID tags, each RFID tag corresponding to a selectable vote option or answer; and at least a selected RFID tag masking layer comprising one electromagnetically opaque single film or a plurality of film strips, with said RFID tags of the carrier layer, a region for RFID visibility and RFID tag reading, and which allows detection and unambiguous identification of said RFID tag corresponding to the selected vote option or answer. The present invention further relates to a wireless passive voting system using one or more devices, as well as to a voting method.	2009

Patent	DEVICE FOR READING RADIO FREQUENCY IDENTIFYERS FOR VOLUMETRIC CONFINING OF THE DETECTION REGION	Device for reading radio frequency identifiers (RFID) ensuring volumetric confinement at UHF of the detection of RFID tags to a desired volume above a reading surface, which includes one or more metallic transmission lines (6) printed on a dielectric substrate (8), on a metallic reference ground plane (7), an RFID reader or interrogator (3) at one end and a load (10) at the other end whereby a structure (19,21,22,23), that comprises the reading surface, in which the one or more transmission lines (6), the dielectric substrate (8) and the metallic reference ground plane (7) are embedded or attached, and the electric fields (11) are contained in planes perpendicular to the one or more transmission lines (6) with one to five wavelengths that extend over all or part of the length of the reading surface, and wherein the dialectric substrate (8) has a low permittivity, less than 1,5 and the width of the transmission line (6) is comprised between 8 and 15% of the wavelength.	2008

Patent	Compact antenna with mechanical beam guidance for tracking mobile terminals in wireless communications	THIS INVENTION RELATES TO A TRACKING ANTENNA, PARTICULARLY SUITABLE FOR WIRELESS COMMUNICATIONS WHERE THERE IS A NEED FOR AUTOMATIC GUIDANCE OF THE ANTENNA'S RADIATION BEAM IN THE DIRECTION OF ANOTHER MOBILE TERMINAL. THE ORIENTATION OF THE BEAM IS OBTAINED BY A MECHANICAL PROCESS. THE ANTENNA CONSISTS OF A FIXED PRIMARY SOURCE PRIMARY SOURCE (1), WITH MODERATE GAIN, WHICH ILLUMINATES A DIELECTRIC LENS (2) WITH AXIAL SYMMETRY THAT CAN BE TILTED AND ROTATED AROUND. CAN TILT AND ROTATE AROUND TWO ORTHOGONAL AXES TO ALLOW THE RADIATION BEAM TO BE ORIENTED IN AZIMUTH (13) AND ELEVATION (11). THE LENS HAS TWO SURFACES WHOSE GEOMETRY IS DESIGNED TO COLLIMATE THE RADIATION BEAM IN THE DIRECTION OF ITS AXIS OF SYMMETRY, WHATEVER ITS OF SYMMETRY, WHATEVER THE INCLINATION OF THE LENS WITH RESPECT TO THE AXIS OF THE PRIMARY SOURCE. THIS ALLOWS FOR HIGH BEAM SCANNING ANGLES. THE ANTENNA CAN BE USED FOR BOTH TRANSMITTING AND RECEIVING, PROVIDING A SOLUTION WITH HIGH RADIATION PERFORMANCE PERFORMANC	2008