

## CURRICULUM VITAE OF RAQUEL CRUZ DA CONCEIÇÃO

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### • SUMMARY

Award winning researcher and professor with a significant record of peer-reviewed publications and funded European grants. First doctorate researcher in Portugal in the area of microwave medical imaging, who was the youngest COST Action chair in this area of research: COST Action TD1301 (Development of a European-based Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging). I currently am a tenure-track Assistant Professor at the University of Lisbon, Portugal, developing microwave imaging techniques to detect and classify breast cancer. I have other research interests which cover machine learning modelling techniques and more general biomedical engineering and applied electronic engineering topics. I am the author of 29 journal papers, 52 conference proceedings and editor/author of 3 books.

### • EDUCATION

- 2017 Post Graduate degree in Data Science [30 ECTS] – Faculdade de Ciências, Universidade de Lisboa, FCUL (Faculty of Science, University of Lisbon), Portugal
- 2011 PhD in Electrical & Electronic Engineering – Electrical & Electronic Engineering, College of Engineering and Informatics, National University of Ireland – Galway (NUIG), Ireland
- 2007 BSc+MSc in Biomedical Engineering – Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, FCTUNL (Faculty of Science and Technology, New University of Lisbon), Portugal

### • CURRENT POSITIONS

- 2016 – Assistant Professor (tenure track) – Faculdade de Ciências, Universidade de Lisboa, FCUL (Faculty of Science, University of Lisbon), Portugal: lecturer, and MSc and PhD students' supervisor, coordinator of MSc degree in Biomedical Engineering and Biophysics since 2019  
(Taught the following courses: Bioelectricity and Electrophysiology, Electrical Circuits and Digital Systems, Internship, Introduction to Biomedical Engineering, Journal Club, Advanced Laboratory in Signal and Image Processing, Biomedical Engineering and Medical Physics Laboratory, Modelling and Simulation in Medicine, Plan of Dissertation, Bibliographic Review, Thermodynamics and Kinetic Theory A)

### • PREVIOUS POSITIONS

- 2013 – 2016 Invited Assistant Professor – FCUL, Portugal: lecturer, and MSc and PhD students' supervisor
- 2016 Post-Doctoral Computer Scientist/Biomedical Engineer – Department of Oncology, University of Oxford, UK
- 2014 – 2016 Post-Doctoral Researcher – Institute of Biomedical Engineering, University of Oxford, UK
- 2012 – 2015 Post-Doctoral Researcher/Investigator – Instituto de Biofísica e Engenharia Biomédica, IBEB (Institute of Biophysics and Biomedical Engineering), FCUL, Portugal
- 2011 Automation and Control Engineer in the automotive industry – IASYS, Portugal
- 2007 – 2010 Teaching Assistant – Electrical & Electronic Engineering, Engineering and Informatics, NUIG, Ireland
- 2006 – 2007 Teaching Assistant – Research Technician – Department of Physics, FCTUNL, Portugal
- 2005 – 2006 Lecturer – Department of Electronic Engineering, FCTUNL, Portugal

### • FELLOWSHIPS & GRANTS

- 2018 – 2022 Innovative Training Network, Marie Skłodowska-Curie Action H2020 (Beneficiary), 764479, FCUL, Portugal
- 2013 – 2015 Intra-European Fellowship, Marie Curie 7<sup>th</sup> FP, 301269, FCUL, Portugal
- 2013 – 2017 Chair of COST Action, “Development of a Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging” (TD1301)
- 2012 Post-doctoral scholarship, funded by Fundação para a Ciência e a Tecnologia (Foundation for Science and Technology), SFRH/BPD/79735/2011, FCUL, Portugal

2007 – 2010 PhD scholarship, Science Foundation Ireland, “The Development of Ultra Wide Band (UWB) Scanning Techniques for Early Detection of Cancer”, 07/RFP/ENE420, NUIG, Ireland

2005 – 2006 Erasmus scholarship, Universidade Nova de Lisboa (New University of Lisbon), Portugal

• **PRIZES AND AWARDS**

2019 Prize ANACOM - URSI Portugal for the 2<sup>nd</sup> best student paper (senior co-author of paper), presented at the 13<sup>th</sup> Congress of the URSI Portuguese Committee, Lisbon, Portugal

2018 Prize ANACOM - URSI Portugal for the 3<sup>rd</sup> best student paper (senior co-author of paper), presented at the 12<sup>th</sup> Congress of the URSI Portuguese Committee, Lisbon, Portugal

2018 Young Scientist Award 2018, awarded at the 2<sup>nd</sup> URSI Atlantic Radio Science Meeting (AT-RASC), Gran Canaria, Spain

2017 Prize ANACOM-URSI Portugal for the best scientific work (co-author) in the area of radioelectricity, Portugal

2017 Young Scientist Award 2017, awarded at the 32<sup>nd</sup> URSI General Assembly and Scientific Symposium (GASS), Montreal, Canada

2015 Students, Young Researchers and Innovators - ICT 2015 award to attend the ICT 2015 Innovate, Connect, Transform event, Lisbon, Portugal

2014 Young Scientist Award 2014, awarded at the 31<sup>st</sup> URSI General Assembly and Scientific Symposium (GASS), Beijing, China

2014 Marie Curie Alumni Association (MCAA) Micro Travel Grant 2014 to attend the 8<sup>th</sup> European Conference on Antennas and Propagation (EuCAP), The Hague, The Netherlands, April 2014

2013 Prize ANACOM-URSI Portugal for the best scientific work in the area of radioelectricity, Portugal

2013 NSS/MIC/RTSD 2013 Trainee Award for IEEE Medical Imaging Conference, South Korea

2013 Best paper award at the 8<sup>th</sup> International Conference on Systems (ICONS), Spain

2012 NSS/MIC/RTSD 2012 Trainee Award for IEEE Medical Imaging Conference, USA

2010 Best presentation with Economical Potential at Research Day for College of Engineering, NUIG, Ireland

2008 2<sup>nd</sup> best poster at Research Day for College of Engineering, NUIG, Ireland

• **COMMISSIONS OF TRUST**

2020 – Topic Editor for the journal Sensors

2021 Topic Editor for the journal Processes

2019-2021 Evaluator for H2020-FET-OPEN

2019 Evaluator for H2020-MSCA-IF

2018 & 2019 FCT National Evaluation Panel for PhDs in the Scientific Panel: Bioengineering and Biotechnology

2018 Foreign Expert for Czech Technical University Prague, accreditation of Biomedical Engineering programme

2017 & 2019 Evaluator for progress and final review of H2020-RIA (Research and Innovation Action) project DESIREE

2017 European Commission project reviewer for Curam, Ireland

2013 – Associate Editor for the journal Medical Physics

2013 – Scientific Evaluator for: COST Actions

2012 – Co-responsible for the research area “Multimodal Imaging Techniques” at IBEB, FCUL, Portugal

2009 – Reviewer for several journal and peer-reviewed conferences

• **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2017 – URSI Individual Member (MURSI), member M1730515688 (appointment for life)

2016 – The European Association on Antennas and Propagation (EurAAP) Member, member 2016/2324

2013 – Marie Curie Alumni Association (MCAA)

• **LANGUAGES**

Portuguese – Mother tongue; English – Proficiency (C2); Spanish – Proficiency (C1); French – Independent (B2)

• **HARD SKILLS**

Very good knowledge: Machine Learning, Data Mining, Data Science, programming languages for Matlab, Python, Windows Operating Systems, Microsoft Office tools such as Word, Excel, PowerPoint and Visio

Good knowledge: GATE (Geant4 Application of Tomographic Emission) for Monte Carlo simulation, HTML, C/C++, Fortran, Assembly, Visual Basic and language for LaTeX, Linux Operating System

Basic knowledge: IDL, PostgreSQL, image processing, Image Pro-Plus 6, DicomWorks and ISeg

• **SOFT SKILLS**

Teamwork skills gained through writing/applying for multidisciplinary grants with several international researchers, and group research (collaborated/co-authored with up to 43 international researchers)

Good communication and organisational skills gained through my experience as lecturer, expert speaker, project management experience, outreach activities, as well as writing and reviewing for grants, peer-reviewed journal and conference papers, and applying for several individual and group research grants

Self-focused, goal-oriented and very rigorous researcher, which is reflected on the fact that my Ph.D. duration was only 3 years and also on the record of publications and awarded funding schemes

Good ability to adapt to multicultural environments gained through several academic experiences abroad, number of foreign languages spoken, volunteering abroad and travelling

• **PUBLICATION SUMMARY**

Total publications	Publications as first author	h-Index	Number of citations	Source of citation data	
		15	826	Google Scholar	
80	27	11	448	Scopus	
Research Articles	Reviews	Books	Conference Publications	Years since PhD	Years since first Academic Employment
28	1	3	51	11	10

Journal publications:

1. "Initial Study Using Electrocardiogram for Authentication and Identification", 22(6), 2202, 2022, DOI: 10.3390/s22062202.
2. "Experimental Evaluation of an Axillary Microwave Imaging System to Aid Breast Cancer Staging", IEEE JERM, 6(1), 68-76, 2022, DOI: 10.1109/JERM.2021.3097877.
3. "Development of 3D MRI-based anatomically realistic numerical models of breast tissues and tumours for Microwave Imaging diagnosis", 21(24), 8265, 2021, DOI: 10.3390/s21248265
4. "Application of Machine Learning to Predict Dielectric Properties of In Vivo Biological Tissue", 21(20), 6935, 2021, DOI: 10.3390/s21206935.
5. "Development of MRI-based Axillary Numerical Models and Estimation of Axillary Lymph Nodes Dielectric Properties for Microwave Imaging", MedPhys, 48, 10, 5974-5990, 2021, DOI: 10.1002/MP.15143.
6. "Study of Freezing and Defrosting Effects on Complex Permittivity of Biological Tissues", IEEE AWPL, 20(12), 2210-2214, 2021, DOI: 10.1109/LAWP.2021.3102842.
7. "Evaluation of Refraction Effects in Dry Medical Microwave Imaging Setups", IEEE AWPL, 20(4), 617-621, 2021. DOI: 10.1109/LAWP.2021.3059162.
8. "Development of an Anthropomorphic Phantom of the Axillary Region for Microwave Imaging Assessment", Sensors, 20(17), 4968, 2020. DOI: 10.3390/s20174968.
9. "Characterisation of Ex Vivo Liver Thermal Properties for Electromagnetic-Based Hyperthermic Therapies", Sensors, 20(10), 3004, 2020. DOI: 10.3390/s20103004.
10. "Development of a 3D Anthropomorphic Phantom Generator for Microwave Imaging Applications of the Head and Neck Region", Sensors, 20(7), 2029, 2020. DOI: 10.3390/s20072029.
11. "Classification of breast tumor models with a prototype microwave imaging system", MedPhys, 47(4), 1860-1870, 2020. DOI: 10.1002/mp.14064.
12. "Gamma Distribution Model in the Evaluation of Breast Cancer through Diffusion Weighted MRI: a Preliminary Study", JMRI, vol. 50(1), 230-238, 2019. DOI: 10.1002/jmri.26599.
13. "Optimal b-values for Diffusion Kurtosis Imaging in Invasive Ductal Carcinoma versus Ductal Carcinoma In Situ Breast Lesions", Australasian Physical & Engineering Sciences in Medicine, 1-15, 2019. DOI: 10.1007/s13246-019-00773-2.

14. "Diagnosing Breast Cancer with Microwave Technology: remaining challenges and potential solutions with machine learning", *Diagnostics*, vol. 8(2), 36, 1-22, 2018. DOI: 10.3390/diagnostics8020036.
15. "Development of Clinically-Informed 3D Tumor Models for Microwave Imaging Applications", *IEEE AWPL*, 99, 2015. DOI: 10.1109/LAWP.2015.2456051.
16. "Other applications of medical microwaves – Breast tumour classification", *New Horizons in Translational Medicine*, 2, 2, 62-63, 2015. DOI: 10.1016/j.nhtm.2014.11.028.
17. "Compressive-Sampling for Time Critical Microwave Imaging Applications", *IET HTL*, 1, 1, 6-12, 2014. DOI: 10.1049/htl.2013.0043.
18. "Optimization of Convergent Collimators for Pixelated SPECT Systems", *MedPhys*, 40, 6, 062501, 2013. DOI: 10.1118/1.4804053.
19. "Numerical Modelling for Ultra Wideband Radar Breast Cancer Detection and Classification", *PIERB*, 34, 145-171, 2011. DOI: 10.2528/PIERB11072705. DOI: 10.2528/PIERB11072705.
20. "Evolving Spiking Neural Network Topologies for Breast Cancer Classification in a Dielectrically Heterogeneous Breast", *PIERL*, 25, 153-162, 2011. DOI: 10.2528/PIERL11050605.
21. "The Effects of Compression on Ultra Wideband Radar Signals", *PIER*, 117, 51-65, 2011. DOI: 10.2528/PIER11032805.
22. "Spiking Neural Networks for Breast Cancer Classification in a Dielectrically Heterogeneous Breast", *PIER*, 113, 413-428, 2011. DOI: 10.2528/PIER10122203.
23. "Effects of Dielectric Heterogeneity in the Performance of Breast Tumour Classifiers", *PIERM*, 17, 73-86, 2011. DOI: 10.2528/PIERM10122402.
24. "Evaluation of Features and Classifiers for Classification of Early-Stage Breast Cancer", *JEMWA*, 25, 1-14, 2011. DOI: 10.1163/156939311793898350.
25. "Spiking Neural Networks for Breast Cancer Classification Using Radar Target Signatures", *PIER C*, 17, 79-94, 2010. DOI: 10.2528/PIERC10100202.
26. "Support Vector Machines for the Classification of Early-Stage Breast Cancer Based on Radar Target Signatures", *PIER B*, 23, 311-327, 2010. DOI: 10.2528/PIERB10062407.
27. "Investigation of Classifiers for Early-Stage Breast Cancer Based on Radar Target Signatures", *PIER*, 105, 295-311, 2010. DOI: 10.2528/PIER10051904.
28. "Comparison of Planar and Circular Antenna Configurations for Breast Cancer Detection Using Microwave Imaging", *PIER*, 99, 1-20, 2009. DOI: 10.2528/PIER09100204.
29. "FDTD Modeling of the Breast: A Review", *PIER B*, 18, 1-24, 2009. DOI: 10.2528/PIERB09080505.

#### Conference publications:

1. "Initial remarks regarding the measurement of dielectric properties of human teeth", 3<sup>rd</sup> URSI AT-AP-RASC, Gran Canaria, Spain, 2022 (accepted).
2. "Preliminary Development of Anatomically Realistic Breast Tumor Models for Microwave Imaging", 16<sup>th</sup> EuCAP, Madrid, Spain, 2022.
3. "Evaluation of Spatial Resolution in Microwave Imaging of the Axillary Region Target Selection in Multistatic Microwave Breast Imaging Setup Using Dielectric Lens", 16<sup>th</sup> EuCAP, Madrid, Spain, 2022.
4. "Integrating suitable Prior Information in Axillary 2D Microwave Tomography Effect of Varying Prior Information in Axillary 2D Microwave Tomography", 16<sup>th</sup> EuCAP, Madrid, Spain, 2022.
5. "Estimating dielectric properties of the axillary region from magnetic resonance imaging", 13<sup>th</sup> International Congress of Hyperthermic Oncology (ICHO), Rotterdam, The Netherlands, 2021.
6. "Differentiation of brain stroke type by using microwave-based machine learning classification", ICEAA-IEEE, APWC, Honolulu, Hawaii, USA, 2021. DOI: 10.1109/ICEAA52647.2021.9539740
7. "Prostate Index-Lesion Segmentation Using U-NET: Impact of T2w and ADC", ISMRM & SMRT, Vancouver, Canada, 2021.
8. "Optimizing T2 Mapping of Knee Cartilage with Dictionary-based Methods", ISMRM Iberian Chapter Annual Meeting, 2021.
9. "Comparison of T1-maps and Late Gadolinium Enhancement in the Detection of Myocardial Fibrosis in Hypertrophic Cardiomyopathy", ISMRM Iberian Chapter Annual Meeting, 2021.
10. "Optimization of Artefact Removal Algorithms for Microwave Imaging of the Axillary Region using Experimental Prototype Signals", EuCAP, Düsseldorf, Germany, 2021. DOI: 10.23919/EuCAP51087.2021.9411134
11. "Numerical Assessment of Microwave Imaging for Axillary Lymph Nodes Screening Using Anthropomorphic Phantom", EuCAP, 2021. DOI: 10.23919/EuCAP51087.2021.9410925
12. "Study of the Refraction Effects in Microwave Breast Imaging using a Dry Setup", IEEE EMBC, Montreal, Canada, 2020. DOI: 10.1109/EMBC44109.2020.9176439.

13. "Extracting Dielectric Properties for MRI-based Phantoms for Axillary Microwave Imaging Device", EuCAP, Copenhagen, Denmark, 2020. DOI: 10.23919/EuCAP48036.2020.9135980.
14. "Head and Neck Numerical Phantom Development for Cervical Lymph Node Microwave Imaging", EuCAP, Copenhagen, Denmark, 2020. DOI: 10.23919/EuCAP48036.2020.9135898.
15. "Development of a Transmission-Based Open-Ended Coaxial-Probe Suitable for Axillary Lymph Node Dielectric Measurements", EuCAP, 2020. DOI: 10.23919/EuCAP48036.2020.9135778.
16. "Thermal properties of ex vivo biological tissue at room and body temperature", EuCAP, Copenhagen, Denmark, 2020. DOI: 10.23919/EuCAP48036.2020.9135854.
17. "Feasibility study of focal lens for multistatic microwave breast imaging", ICECOM, Dubrovnik, Croatia, 2019.
18. "Development of Axillary Region Models based on MRI Segmented Data to Aid Breast Cancer Staging", 1st EMF-Med World Conference on Biomedical Applications of Electromagnetic Fields, Split, Croatia, 2018.
19. "Webcam-based Distance and Surface Estimation System for Microwave Imaging", 2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, Boston, USA, 2018.
20. "Extracting Features from Multistatic Signals in a Radar Microwave Imaging System for Breast Cancer Detection", 2nd URSI Atlantic Radio Science Meeting – AT-RASC 2018, Gran Canaria, Spain, 2018.
21. "Support Vector Machines to Aid Breast Cancer Diagnosis Using a Microwave Radar Prototype", 32nd URSI GASS, Montreal, Canada, 2017. DOI: 10.23919/URSIGASS.2017.8105088.
22. "Deep learning for tumour classification in homogeneous breast tissue in medical microwave imaging", IEEE EUROCON, Ohrid, North Macedonia, 2017. DOI: 10.1109/EUROCON.2017.8011175.
23. "Digital Analysis of Tumour Microarchitecture as an Independent Prognostic Tool in Breast Cancer", United States & Canadian Academy of Pathology (USCAP) Meeting, San Antonio, Texas, USA, 2017.
24. "Overview of Microwave Medical Applications in Europe Since the Beginning of the COST Action TD1301 – MiMed", EuCAP, Paris, France, 2017. DOI: 10.23919/EuCAP.2017.7928067.
25. "Diffusion Kurtosis Breast Imaging model – Which should be the higher b-value?", International Society for Magnetic Resonance in Medicine (ISMRM), Singapore, 2016.
26. "Initial Study for the Investigation of Breast Tumour Response with Classification Algorithms Using a Microwave Radar Prototype", EuCAP, Davos, Switzerland, 2016. DOI: 10.1109/EuCAP.2016.7481464.
27. "Quantification Models for Breast Tumors ROC Curve Analysis", 32nd Annual ESMRMB Meeting, Edinburgh, United Kingdom, 2015.
28. "Microwave Imaging of the Breast: Investigating Tumour Response with Classification", PIERS, Prague, Czech Republic, 2015.
29. "Combined Breast Microwave Imaging and Diagnosis System", PIERS, Prague, Czech Republic, 2015.
30. "Spectral Filtering in Phase Delay Beamforming for Multistatic UWB Breast Cancer Imaging", EuCAP, Lisbon, Portugal, 2015.
31. "Initial Study for Detection of Multiple Lymph Nodes in the Axillary Region Using Microwave Imaging", EuCAP, Lisbon, Portugal, 2015.
32. "Contribution of diffusion models in Diffusion-Weighted Magnetic Resonance Imaging (DWI) for improved breast tumor characterization", ASPIC, Lisbon, Portugal, 2014.
33. "SVM-based Classification of Breast Tumour Phantoms Using a UWB Radar Prototype System", 31st URSI GASS, Beijing, China, 2014. DOI: 10.1109/URSIGASS.2014.6930131.
34. "Initial Study with Microwave Imaging of the Axilla to Aid Breast Cancer Diagnosis", IEEE APS-URSI, Memphis, TN, USA, 2014. DOI: 10.1109/USNC-URSI.2014.6955689.
35. "Avoiding Unnecessary Breast Biopsies: Clinically-Informed 3D Breast Tumour Models for Microwave Imaging Applications", IEEE APS-URSI, Memphis, TN, USA, 2014. DOI: 10.1109/APS.2014.6904898.
36. "Development of Anatomically and Dielectrically Accurate Breast Phantoms for Microwave Imaging Applications", SPIE DSS 2014, Baltimore, MD, USA, 2014. DOI: 10.1117/12.2049853.
37. "Development of Axilla Phantoms to Aid Breast Cancer Staging via Sentinel Lymph Node Detection", EuCAP, The Hague, Netherlands, 2014. DOI: 10.1109/EuCAP.2014.6901808.
38. "Image Processing Methods for PET/MR Multi-Modality Imaging: Initial Study Regarding Binding of MR images", IEEE NSS-MIC, Seoul, South Korea, 2013. DOI: 10.1109/NSSMIC.2013.6829139.
39. "Initial classification of breast tumour phantoms using a UWB radar prototype", ICEAA, Turin, Italy, 2013. DOI: 10.1109/ICEAA.2013.6632339.
40. "Imaging and classification of breast cancer with multimodal PEM-UWB techniques", ICEAA, Turin, Italy, 2013. DOI: 10.1109/ICEAA.2013.6632271.
41. "Bladder-State Monitoring Using Ultra Wideband Radar", EuCAP, Gothenburg, Sweden, 2013.
42. "Novel Multimodal PEM-UWB Approach for Breast Cancer Detection: Initial Study for Tumour Detection and Consequent Classification", EuCAP, Gothenburg, Sweden, 2013.

43. "Classification and Monitoring of Early Stage Breast Cancer Using Ultra Wideband Radar", ICONS-IARIA, Seville, Spain, 2013 (recipient of best paper award).
44. "A comparison of MapReduce and Parallel Database Management Systems", ICONS-IARIA, Seville, Spain, 2013.
45. "Breast Tumor Differentiation Through Diffusional Kurtosis Imaging (DKI) in Magnetic Resonance Imaging", A One Day Symposium with Carlos Caldas sponsored by EACR, Porto, Portugal, 2012.
46. "Development of Breast and Tumour Models for Simulation of Novel Multimodal PEM-UWB Technique for Detection and Classification of Breast Tumours", IEEE NSS-MIC, Anaheim, CA, USA, 2012. DOI: 10.1109/NSSMIC.2012.6551631.
47. "Initial Analysis of Novel Multimodal PEM-UWB Technique for Breast Cancer Detection: Localization of Cancer in Homogeneous Model of the Breast", 1st International Symposium in Applied Bioimaging Bridging Development and Application, Porto, Portugal, 2012.
48. "Tumor Classification Using Radar Target Signatures", PIERS, Cambridge, MA, USA, 346-349, 2010.
49. "Antenna Configurations for Ultra Wide Band Radar Detection of Breast Cancer", SPIE BIOS West, San José, CA, USA, vol. 7169, No. 9, [7169IM, 12], 2009. DOI: 10.1117/12.808253.
50. "Classification of Suspicious Regions within Ultrawideband Radar Images of the Breast", 16th IET ISSC, Galway, Ireland, vol. 1, 60-65, 2008. DOI: 10.1049/cp:20080639.
51. "Statistical Analysis of the Motility of Nano-Objects Propelled by Molecular Motors", SPIE BIOS West, San José, CA, USA, vol. 6865, 686506.1-12, 2008. DOI:10.1117/12.759116.

Books:

1. "Electromagnetic Technologies for Medical Diagnostics: Fundamental Issues, Clinical Applications and Perspectives", editors: L. Crocco and P. Kosmas; authors: S. Ahsa, L. Anishchenko, B. Bazrafshan, J. Bernard, J. Cano, M. Cavagnaro, R.C. Conceição, C. Conessa, L. Crocco, B. Duchene, L. Duchesne, A. Fasoula, A. Fhager, R. Foster, S. Geimer, M. Glavin, D. Godinho, Y. Hao, F. Hubner, N. Joachimowicz, E. Jones, M. Jones, P. Kosmas, V. Krozer, A. La Gioia, P. Lawrence, V. Lopresto, P. Meaney, I. Merunka, O. Meyer, Z. Miao, J. Moll, M. O'Halloran, B. Oliveira, M. Persson, R. Pinto, E. Porter, G. Robin, T. Rydholm, K. Saito, S. Salahuddin, R. Scapatucci, A. Shahzad, M. Sugiyama, T. Vogl, D. Wortge, T. Yilmaz; MDPI, Diagnostics, 2019. ISBN 978-3-03897-676-9 (Pbk), ISBN 978-3-03897-677-6 (PDF).
2. "Emerging Electromagnetic Technologies for Brain Diseases Diagnostics and Monitoring", editors: L. Crocco, I. Karanasiou, M.L. James, R.C. Conceição, Springer book, 2018. ISBN 978-3-319-75007-1.
3. "An Introduction to Microwave Imaging for Breast Cancer Detection", editors: R.C. Conceição, M. O'Halloran, J. Mohr; authors: D. Byrne, Y. Chen, E. Elahi, R.C. Conceição, M. Glavin, E. Jones, M. Jones, P. Kosmas, J. Mohr, M. O'Halloran, T. Rubæk; Author of chapters "Anatomy and Dielectric Properties of the Breast and Breast Cancer", "Confocal Microwave Imaging" and "Tumour Classification". Springer book series in Biological and Medical Physics, Biomedical Engineering, 2016. ISBN 978-3-319-27866-7.