

Oliver Diaz Montesdeoca

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

436
citations

11
h-index

19
g-index

58
ext. papers

593
ext. citations

4
avg, IF

4.03
L-index

#	Paper	IF	Citations
50	Automatic mass detection in mammograms using deep convolutional neural networks. <i>Journal of Medical Imaging</i> , 2019 , 6, 1	2.6	63
49	Development and validation of a modelling framework for simulating 2D-mammography and breast tomosynthesis images. <i>Physics in Medicine and Biology</i> , 2014 , 59, 4275-93	3.8	38
48	Deep learning for mass detection in Full Field Digital Mammograms. <i>Computers in Biology and Medicine</i> , 2020 , 121, 103774	7	37
47	Image simulation and a model of noise power spectra across a range of mammographic beam qualities. <i>Medical Physics</i> , 2014 , 41, 121901	4.4	35
46	Simulation and assessment of realistic breast lesions using fractal growth models. <i>Physics in Medicine and Biology</i> , 2013 , 58, 5613-27	3.8	34
45	Estimation of scattered radiation in digital breast tomosynthesis. <i>Physics in Medicine and Biology</i> , 2014 , 59, 4375-90	3.8	23
44	Data preparation for artificial intelligence in medical imaging: A comprehensive guide to open-access platforms and tools. <i>Physica Medica</i> , 2021 , 83, 25-37	2.7	19
43	Fouling analysis of a tertiary submerged membrane bioreactor operated in dead-end mode at high-fluxes. <i>Journal of Membrane Science</i> , 2015 , 493, 8-18	9.6	18
42	A step-by-step review on patient-specific biomechanical finite element models for breast MRI to x-ray mammography registration. <i>Medical Physics</i> , 2018 , 45, e6-e31	4.4	16
41	Breast MRI and X-ray mammography registration using gradient values. <i>Medical Image Analysis</i> , 2019 , 54, 76-87	15.4	13
40	Expanding the medical physicist curricular and professional programme to include Artificial Intelligence. <i>Physica Medica</i> , 2021 , 83, 174-183	2.7	11
39	Lesion Segmentation in Automated 3D Breast Ultrasound: Volumetric Analysis. <i>Ultrasonic Imaging</i> , 2018 , 40, 97-112	1.9	11
38	Phantoms for quality control procedures in digital breast tomosynthesis: dose assessment. <i>Physics in Medicine and Biology</i> , 2013 , 58, 4423-38	3.8	10
37	Radiation hardness of a large area CMOS active pixel sensor for bio-medical applications 2012 ,		10
36	Partial volume effects in dynamic contrast magnetic resonance renal studies. <i>European Journal of Radiology</i> , 2010 , 75, 221-9	4.7	10
35	Artificial intelligence in the medical physics community: An international survey. <i>Physica Medica</i> , 2021 , 81, 141-146	2.7	9
34	A fast scatter field estimator for digital breast tomosynthesis 2012 ,		7

33	Deep learning reconstruction of digital breast tomosynthesis images for accurate breast density and patient-specific radiation dose estimation. <i>Medical Image Analysis</i> , 2021 , 71, 102061	15.4	7
32	Local breast density assessment using reacquired mammographic images. <i>European Journal of Radiology</i> , 2017 , 93, 121-127	4.7	6
31	Simulation of 3D DLA masses in digital breast tomosynthesis 2013 ,		5
30	A deep learning framework for micro-calcification detection in 2D mammography and C-view 2018 ,		5
29	Monte Carlo Simulation of Scatter Field for Calculation of Contrast of Discs in Synthetic CDMAM Images. <i>Lecture Notes in Computer Science</i> , 2010 , 628-635	0.9	4
28	Fibroglandular tissue distribution in the breast during mammography and tomosynthesis based on breast CT data: A patient-based characterization of the breast parenchyma. <i>Medical Physics</i> , 2021 , 48, 1436-1447	4.4	4
27	Multimodal Breast Parenchymal Patterns Correlation Using a Patient-Specific Biomechanical Model. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 712-723	11.7	4
26	Detailed Analysis of Scatter Contribution from Different Simulated Geometries of X-ray Detectors. <i>Lecture Notes in Computer Science</i> , 2016 , 203-210	0.9	3
25	Realistic compressed breast phantoms for medical physics applications 2020 ,		3
24	CoLe-CNN+: Context learning - Convolutional neural network for COVID-19-Ground-Glass-Opacities detection and segmentation. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104689	7	3
23	Scatter reduction for grid-less mammography using the convolution-based image post-processing technique 2017 ,		2
22	Scattered radiation in DBT geometries with flexible breast compression paddles: a Monte Carlo simulation study 2017 ,		2
21	Simple method for computing scattered radiation in breast tomosynthesis. <i>Medical Physics</i> , 2019 , 46, 4826-4836	4.4	2
20	Realistic simulation of breast mass appearance using random walk 2012 ,		2
19	DCGANs for realistic breast mass augmentation in x-ray mammography 2020 ,		2
18	Quality analysis of DCGAN-generated mammography lesions 2020 ,		2
17	Monte Carlo dose evaluation of different fibroglandular tissue distribution in breast imaging 2020 ,		2
16	Mass detection in mammograms using pre-trained deep learning models 2018 ,		2

15	Monte Carlo study on optimal breast voxel resolution for dosimetry estimates in digital breast tomosynthesis. <i>Physics in Medicine and Biology</i> , 2018 , 64, 015003	3.8	2
14	Mapping 3D breast lesions from full-field digital mammograms using subject-specific finite element models 2017 ,		1
13	Modeling realistic breast lesions using diffusion limited aggregation 2012 ,		1
12	MR-based renography as a replacement for radionuclide diagnostic studies 2007 ,		1
11	Comparison of three breast imaging techniques using 4-AFC human observation study 2018 ,		1
10	Can breast models be simplified to estimate scattered radiation in breast tomosynthesis? 2019 ,		1
9	Validation of modelling tools for simulating wide-angle DBT systems 2019 ,		1
8	Comparison of Four Breast Tissue Segmentation Algorithms for Multi-modal MRI to X-ray Mammography Registration. <i>Lecture Notes in Computer Science</i> , 2016 , 493-500	0.9	1
7	A Modelling Framework for Evaluation of 2D-Mammography and Breast Tomosynthesis Systems. <i>Lecture Notes in Computer Science</i> , 2012 , 338-345	0.9	1
6	Similarity Metrics for Intensity-Based Registration Using Breast Density Maps. <i>Lecture Notes in Computer Science</i> , 2017 , 217-225	0.9	1
5	Are artificial intelligence systems useful in breast cancer screening programs?. <i>Radiologia</i> , 2021 , 63, 236-244	2.4	1
4	Feasibility of Depth Sensors to Study Breast Deformation During Mammography Procedures. <i>Lecture Notes in Computer Science</i> , 2016 , 446-453	0.9	
3	Phantoms for Quality Control Procedures of Digital Breast Tomosynthesis. <i>Lecture Notes in Computer Science</i> , 2012 , 322-329	0.9	
2	Converting One Set of Mammograms to Simulate a Range of Detector Imaging Characteristics for Observer Studies. <i>Lecture Notes in Computer Science</i> , 2012 , 394-401	0.9	
1	A semi-empirical model for scatter field reduction in digital mammography. <i>Physics in Medicine and Biology</i> , 2021 , 66, 045001	3.8	