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List of Publications by Year in Descending Order

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	Data preparation for artificial intelligence in medical imaging: A comprehensive guide to open-access platforms and tools. *Physica Medica*, **2021**, 83, 25-37	2.7	19
49	Expanding the medical physicist curricular and professional programme to include Artificial Intelligence. *Physica Medica*, **2021**, 83, 174-183	2.7	11
48	Are artificial intelligence systems useful in breast cancer screening programs?. *Radiologia*, **2021**, 63, 236-244	2.64	1
47	Artificial intelligence in the medical physics community: An international survey. *Physica Medica*, **2021**, 81, 141-146	2.7	9
46	A semi-empirical model for scatter field reduction in digital mammography. *Physics in Medicine and Biology*, **2021**, 66, 045001	3.8	
45	Fibroglandular tissue distribution in the breast during mammography and tomosynthesis based on breast CT data: A patient-based characterization of the breast parenchyma. *Medical Physics*, **2021**, 48, 1436-1447	4.4	4
44	Deep learning reconstruction of digital breast tomosynthesis images for accurate breast density and patient-specific radiation dose estimation. *Medical Image Analysis*, **2021**, 71, 102061	15.4	7
43	CoLe-CNN+: Context learning - Convolutional neural network for COVID-19-Ground-Glass-Opacities detection and segmentation. *Computers in Biology and Medicine*, **2021**, 136, 104689	7	3
42	Deep learning for mass detection in Full Field Digital Mammograms. *Computers in Biology and Medicine*, **2020**, 121, 103774	7	37
41	DCGANs for realistic breast mass augmentation in x-ray mammography **2020**,		2
40	Quality analysis of DCGAN-generated mammography lesions **2020**,		2
39	Realistic compressed breast phantoms for medical physics applications **2020**,		3
38	Monte Carlo dose evaluation of different fibroglandular tissue distribution in breast imaging **2020**,		2
37	Breast MRI and X-ray mammography registration using gradient values. *Medical Image Analysis*, **2019**, 54, 76-87	15.4	13
36	Simple method for computing scattered radiation in breast tomosynthesis. *Medical Physics*, **2019**, 46, 4826-4836	4.4	2
35	Automatic mass detection in mammograms using deep convolutional neural networks. *Journal of Medical Imaging*, **2019**, 6, 1	2.6	63
34	Can breast models be simplified to estimate scattered radiation in breast tomosythesis? **2019**,		1

33	Validation of modelling tools for simulating wide-angle DBT systems **2019**,		1
32	Comparison of three breast imaging techniques using 4-AFC human observation study **2018**,		1
31	Mass detection in mammograms using pre-trained deep learning models **2018**,		2
30	A deep learning framework for micro-calcification detection in 2D mammography and C-view **2018**,		5
29	Monte Carlo study on optimal breast voxel resolution for dosimetry estimates in digital breast tomosynthesis. *Physics in Medicine and Biology*, **2018**, 64, 015003	3.8	2
28	Multimodal Breast Parenchymal Patterns Correlation Using a Patient-Specific Biomechanical Model. *IEEE Transactions on Medical Imaging*, **2018**, 37, 712-723	11.7	4
27	Lesion Segmentation in Automated 3D Breast Ultrasound: Volumetric Analysis. *Ultrasonic Imaging*, **2018**, 40, 97-112	1.9	11
26	A step-by-step review on patient-specific biomechanical finite element models for breast MRI to x-ray mammography registration. *Medical Physics*, **2018**, 45, e6-e31	4.4	16
25	Scatter reduction for grid-less mammography using the convolution-based image post-processing technique **2017**,		2
24	Scattered radiation in DBT geometries with flexible breast compression paddles: a Monte Carlo simulation study **2017**,		2
23	Mapping 3D breast lesions from full-field digital mammograms using subject-specific finite element models **2017**,		1
22	Local breast density assessment using reacquired mammographic images. *European Journal of Radiology*, **2017**, 93, 121-127	4.7	6
21	Similarity Metrics for Intensity-Based Registration Using Breast Density Maps. *Lecture Notes in Computer Science*, **2017**, 217-225	0.9	1
20	Feasibility of Depth Sensors to Study Breast Deformation During Mammography Procedures. *Lecture Notes in Computer Science*, **2016**, 446-453	0.9	
19	Detailed Analysis of Scatter Contribution from Different Simulated Geometries of X-ray Detectors. *Lecture Notes in Computer Science*, **2016**, 203-210	0.9	3
18	Comparison of Four Breast Tissue Segmentation Algorithms for Multi-modal MRI to X-ray Mammography Registration. *Lecture Notes in Computer Science*, **2016**, 493-500	0.9	1
17	Fouling analysis of a tertiary submerged membrane bioreactor operated in dead-end mode at high-fluxes. *Journal of Membrane Science*, **2015**, 493, 8-18	9.6	18
16	Image simulation and a model of noise power spectra across a range of mammographic beam qualities. *Medical Physics*, **2014**, 41, 121901	4.4	35

15	Development and validation of a modelling framework for simulating 2D-mammography and breast tomosynthesis images. *Physics in Medicine and Biology*, **2014**, 59, 4275-93	3.8	38
14	Estimation of scattered radiation in digital breast tomosynthesis. *Physics in Medicine and Biology*, **2014**, 59, 4375-90	3.8	23
13	Phantoms for quality control procedures in digital breast tomosynthesis: dose assessment. *Physics in Medicine and Biology*, **2013**, 58, 4423-38	3.8	10
12	Simulation and assessment of realistic breast lesions using fractal growth models. *Physics in Medicine and Biology*, **2013**, 58, 5613-27	3.8	34
11	Simulation of 3D DLA masses in digital breast tomosynthesis **2013**,		5
10	Radiation hardness of a large area CMOS active pixel sensor for bio-medical applications **2012**,		10
9	Modeling realistic breast lesions using diffusion limited aggregation **2012**,		1
8	Realistic simulation of breast mass appearance using random walk **2012**,		2
7	A fast scatter field estimator for digital breast tomosynthesis **2012**,		7
6	A Modelling Framework for Evaluation of 2D-Mammography and Breast Tomosynthesis Systems. *Lecture Notes in Computer Science*, **2012**, 338-345	0.9	1
5	Phantoms for Quality Control Procedures of Digital Breast Tomosynthesis. *Lecture Notes in Computer Science*, **2012**, 322-329	0.9	
4	Converting One Set of Mammograms to Simulate a Range of Detector Imaging Characteristics for Observer Studies. *Lecture Notes in Computer Science*, **2012**, 394-401	0.9	
3	Partial volume effects in dynamic contrast magnetic resonance renal studies. *European Journal of Radiology*, **2010**, 75, 221-9	4.7	10
2	Monte Carlo Simulation of Scatter Field for Calculation of Contrast of Discs in Synthetic CDMAM Images. *Lecture Notes in Computer Science*, **2010**, 628-635	0.9	4
1	MR-based renography as a replacement for radionuclide diagnostic studies **2007**,		1