Sachin R Jambawalikar

List of Publications by Year
in descending order

59 papers	1,862 citations	304368 22 h-index	276539 41 g-index
62 all docs	62 docs citations	62 times ranked	3031 citing authors

#	Article	IF	Citations
1	COVID-19 neuropathology at Columbia University Irving Medical Center/New York Presbyterian Hospital. Brain, 2021, 144, 2696-2708.	3.7	254
2	Quantitative imaging biomarkers alliance (QIBA) recommendations for improved precision of DWI and DCEâ€MRI derived biomarkers in multicenter oncology trials. Journal of Magnetic Resonance Imaging, 2019, 49, e101-e121.	1.9	241
3	Cardiac-Specific Conversion Factors to Estimate Radiation Effective Dose From Dose-Length Product in Computed Tomography. JACC: Cardiovascular Imaging, 2018, 11, 64-74.	2.3	111
4	Prior to Initiation of Chemotherapy, Can We Predict Breast Tumor Response? Deep Learning Convolutional Neural Networks Approach Using a Breast MRI Tumor Dataset. Journal of Digital Imaging, 2019, 32, 693-701.	1.6	93
5	Predicting Breast Cancer Molecular Subtype with MRI Dataset Utilizing Convolutional Neural Network Algorithm. Journal of Digital Imaging, 2019, 32, 276-282.	1.6	73
6	Investigating the mechanical function of the cervix during pregnancy using finite element models derived from high-resolution 3D MRI. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 404-417.	0.9	69
7	Radiomics of MRI for pretreatment prediction of pathologic complete response, tumor regression grade, and neoadjuvant rectal score in patients with locally advanced rectal cancer undergoing neoadjuvant chemoradiation: an international multicenter study. European Radiology, 2020, 30, 6263-6273.	2.3	69
8	Convolutional Neural Networks for the Detection and Measurement of Cerebral Aneurysms on Magnetic Resonance Angiography. Journal of Digital Imaging, 2019, 32, 808-815.	1.6	68
9	Diffusion tensor imaging of peripheral nerves. Skeletal Radiology, 2010, 39, 1073-1079.	1.2	67
10	Axillary Lymph Node Evaluation Utilizing Convolutional Neural Networks Using MRI Dataset. Journal of Digital Imaging, 2018, 31, 851-856.	1.6	56
11	The role of initial chest X-ray in triaging patients with suspected COVID-19 during the pandemic. Emergency Radiology, 2020, 27, 617-621.	1.0	49
12	Convolutional Neural Network Using a Breast MRI Tumor Dataset Can Predict Oncotype Dx Recurrence Score. Journal of Magnetic Resonance Imaging, 2019, 49, 518-524.	1.9	46
13	The International Workshop on Osteoarthritis Imaging Knee MRI Segmentation Challenge: A Multi-Institute Evaluation and Analysis Framework on a Standardized Dataset. Radiology: Artificial Intelligence, 2021, 3, e200078.	3.0	46
14	Dynamic infrared imaging for the detection of malignancy. Physics in Medicine and Biology, 2004, 49, 3105-3116.	1.6	42
15	Convolutional Neural Network Based Breast Cancer Risk Stratification Using a Mammographic Dataset. Academic Radiology, 2019, 26, 544-549.	1.3	42
16	Convolutional Neural Network Detection of Axillary Lymph Node Metastasis Using Standard Clinical Breast MRI. Clinical Breast Cancer, 2020, 20, e301-e308.	1.1	38
17	Eye Tracking for Deep Learning Segmentation Using Convolutional Neural Networks. Journal of Digital Imaging, 2019, 32, 597-604.	1.6	37
18	Fully Automated Convolutional Neural Network Method for Quantification of Breast MRI Fibroglandular Tissue and Background Parenchymal Enhancement. Journal of Digital Imaging, 2019, 32, 141-147.	1.6	30

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19	A novel CNN algorithm for pathological complete response prediction using an I-SPY TRIAL breast MRI database. Magnetic Resonance Imaging, 2020, 73, 148-151.	1.0	28
20	Pharmacokinetic analysis and drug delivery efficiency of the focused ultrasound-induced blood-brain barrier opening in non-human primates. Magnetic Resonance Imaging, 2017, 37, 273-281.	1.0	26
21	Predicting Post Neoadjuvant Axillary Response Using a Novel Convolutional Neural Network Algorithm. Annals of Surgical Oncology, 2018, 25, 3037-3043.	0.7	26
22	Can diffusionâ€weighted imaging serve as a biomarker of fibrosis in pancreatic adenocarcinoma?. Journal of Magnetic Resonance Imaging, 2017, 46, 393-402.	1.9	24
23	3D Printing and Heart Failure. JACC: Heart Failure, 2019, 7, 132-142.	1.9	24
24	Deep Learning of Computed Tomography Virtual Wedge Resection for Prediction of Histologic Usual Interstitial Pneumonitis. Annals of the American Thoracic Society, 2021, 18, 51-59.	1.5	22
25	Segmentation of Brain Tumors Using DeepLabv3+. Lecture Notes in Computer Science, 2019, , 154-167.	1.0	21
26	Estimating Effective Dose of Radiation From Pediatric Cardiac CT Angiography Using a 64-MDCT Scanner: New Conversion Factors Relating Dose-Length Product to Effective Dose. American Journal of Roentgenology, 2017, 208, 585-594.	1.0	20
27	Multi-site, multi-platform comparison of MRI T1 measurement using the system phantom. PLoS ONE, 2021, 16, e0252966.	1.1	20
28	Repeatability of Quantitative Diffusion-Weighted Imaging Metrics in Phantoms, Head-and-Neck and Thyroid Cancers: Preliminary Findings. Tomography, 2019, 5, 15-25.	0.8	20
29	Accuracy of Distinguishing Atypical Ductal Hyperplasia From Ductal Carcinoma In Situ With Convolutional Neural Networkâ€“Based Machine Learning Approach Using Mammographic Image Data. American Journal of Roentgenology, 2019, 212, 1166-1171.	1.0	17
30	Deep learning prediction of axillary lymph node status using ultrasound images. Computers in Biology and Medicine, 2022, 143, 105250.	3.9	17
31	Deep semantic lung segmentation for tracking potential pulmonary perfusion biomarkers in chronic obstructive pulmonary disease (COPD): The multiâ€ethnic study of atherosclerosis COPD study. Journal of Magnetic Resonance Imaging, 2020, 51, 571-579.	1.9	15
32	Multicenter Repeatability Study of a Novel Quantitative Diffusion Kurtosis Imaging Phantom. Tomography, 2019, 5, 36-43.	0.8	13
33	Weakly Supervised Deep Learning Approach to Breast MRI Assessment. Academic Radiology, 2021, , .	1.3	12
34	Cross-Modality Knowledge Transfer for Prostate Segmentation from CT Scans. Lecture Notes in Computer Science, 2019, , 63-71.	1.0	12
35	Fusion of aerial lidar and images for road segmentation with deep CNN. , 2018, , .		11
36	Channel width optimized neural networks for liver and vessel segmentation in liver iron quantification. Computers in Biology and Medicine, 2020, 122, 103798.	3.9	11

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37	A Note on Approximate Minimum Volume Enclosing Ellipsoid of Ellipsoids. , 2008, , .		10
38	Integrating Eye Tracking and Speech Recognition Accurately Annotates MR Brain Images for Deep Learning: Proof of Principle. Radiology: Artificial Intelligence, 2021, 3, e200047.	3.0	10
39	Semi-Supervised Deep Learning for Multi-Tissue Segmentation from Multi-Contrast MRI. Journal of Signal Processing Systems, 2022, 94, 497-510.	1.4	9
40	Advanced MR Imaging of the Temporal Bone. Neuroimaging Clinics of North America, 2019, 29, 197-202.	0.5	7
41	Dosimetric assessment of patient dose calculation on a deep learningâ€based synthesized computed tomography image for adaptive radiotherapy. Journal of Applied Clinical Medical Physics, 2022, 23, e13595.	0.8	7
42	Quantitative imaging biomarkers alliance (QIBA) recommendations for improved precision of DWI and DCEâ€MRI derived biomarkers in multicenter oncology trials. Journal of Magnetic Resonance Imaging, 2019, 49, i.	1.9	5
43	Potential Role of Convolutional Neural Network Based Algorithm in Patient Selection for DCIS Observation Trials Using a Mammogram Dataset. Academic Radiology, 2020, 27, 774-779.	1.3	5
44	3D Isotropic Super-resolution Prostate MRI Using Generative Adversarial Networks and Unpaired Multiplane Slices. Journal of Digital Imaging, 2021, 34, 1199-1208.	1.6	5
45	Calibration and error analysis of metalâ€oxideâ€semiconductor fieldâ€effect transistor dosimeters for computed tomography radiation dosimetry. Medical Physics, 2017, 44, 6589-6602.	1.6	4
46	Insulin Hexamerâ€Caged Gadolinium Ion as MRI Contrastâ€oâ€phore. Chemistry - A European Journal, 2018, 24, 10646-10652.	1.7	4
47	Surface Point Cloud Ultrasound with Transcranial Doppler: Coregistration of Surface Point Cloud Ultrasound with Magnetic Resonance Angiography for Improved Reproducibility, Visualization, and Navigation in Transcranial Doppler Ultrasound. Journal of Digital Imaging, 2020, 33, 930-936.	1.6	4
48	Feasibility of ultrashort echo time (UTE) T2* cartilage mapping in the hip: a pilot study. Acta Radiologica, 2022, 63, 760-766.	0.5	4
49	Contrast-Free Detection of Focused Ultrasound-Induced Blood-Brain Barrier Opening Using Diffusion Tensor Imaging. IEEE Transactions on Biomedical Engineering, 2021, 68, 2499-2508.	2.5	4
50	Deep Learning for Functional Brain Connectivity: Are We There Yet?. Advances in Computer Vision and Pattern Recognition, 2019, , 347-365.	0.9	3
51	SU-E-I-04: Texture Feature Based CAD for Breast Cancer Detection. Medical Physics, 2011, 38, 3396-3396.	1.6	2
52	TU-G-103-09: Measurement of Planar Average Equilibrium Dose of CT. Medical Physics, 2013, 40, 460-460.	1.6	2
53	A threshold-based method to predict thyroid nodules on scintigraphy scans. Biomedical Physics and Engineering Express, 2020, 6, 015019.	0.6	1
54	Highâ€resolution simulation of B₀ field conditions in the human heart from segmented computed tomography images. NMR in Biomedicine, 2022, 35, e4739.	1.6	1

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55	Frontispiece: Insulin Hexamer-Caged Gadolinium Ion as MRI Contrast-o-phore. Chemistry - A European Journal, 2018, 24, .	1.7	0
56	SU-E-I-13: A Model for CT Contrast Agent Evaluation. Medical Physics, 2011, 38, 3398-3398.	1.6	0
57	SU-E-I-124: Diffusion Tensor Imaging of the Sciatic Nerve at 3T. Medical Physics, 2011, 38, 3424-3424.	1.6	0
58	SU-E-I-110: Minimized Pediatric Dose in Direct Radiography (DR). Medical Physics, 2012, 39, 3650-3650.	1.6	0
59	SUâ€Eâ€Iâ€71: Susceptibility Weighted Imaging (SWI) Software for Postâ€Processing of SWI Data. Medical Physics, 2012, 39, 3641-3641.	1.6	0