Jing Wang

List of Publications by Year in Descending Order

50 papers	1,946 citations	22 h-index	44 g-index
59 ext. papers	2,463 ext. citations	4.3 avg, IF	4.94 L-index

#	Paper	IF	Citations
50	Lung contour detection in Chest X-ray images using Mask Region-based Convolutional Neural Network and Adaptive Closed Polyline Searching Method. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2021**, 2021, 2839-2842	0.9	0
49	Automatic liver tumor localization using deep learning-based liver boundary motion estimation and biomechanical modeling (DL-Bio). *Medical Physics*, **2021**, 48, 7790	4.4	0
48	Synthetic CT generation from CBCT images via unsupervised deep learning. *Physics in Medicine and Biology*, **2021**, 66,	3.8	1
47	General simultaneous motion estimation and image reconstruction (G-SMEIR). *Biomedical Physics and Engineering Express*, **2021**, 7,	1.5	1
46	. *IEEE Access*, **2020**, 8, 73293-73306	3.5	4
45	Predicting lymph node metastasis in patients with oropharyngeal cancer by using a convolutional neural network with associated epistemic and aleatoric uncertainty. *Physics in Medicine and Biology*, **2020**, 65, 225002	3.8	3
44	On the robustness of deep learning-based lung-nodule classification for CT images with respect to image noise. *Physics in Medicine and Biology*, **2020**, 65, 245037	3.8	4
43	Synthetic CT generation from CBCT images via deep learning. *Medical Physics*, **2020**, 47, 1115-1125	4.4	34
42	A manifold learning regularization approach to enhance 3D CT image-based lung nodule classification. *International Journal of Computer Assisted Radiology and Surgery*, **2020**, 15, 287-295	3.9	21
41	Multi-Objective-Based Radiomic Feature Selection for Lesion Malignancy Classification. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 194-204	7.2	20
40	Multifaceted radiomics for distant metastasis prediction in head & neck cancer. *Physics in Medicine and Biology*, **2020**, 65, 155009	3.8	5
39	Enhancing liver tumor localization accuracy by prior-knowledge-guided motion modeling and a biomechanical model. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 1337-1349	3.6	5
38	Generating synthesized computed tomography (CT) from cone-beam computed tomography (CBCT) using CycleGAN for adaptive radiation therapy. *Physics in Medicine and Biology*, **2019**, 64, 125002	3.8	71
37	Structure tensor total variation for CBCT reconstruction. *Journal of X-Ray Science and Technology*, **2019**, 27, 257-272	2.1	2
36	Predicting lung nodule malignancies by combining deep convolutional neural network and handcrafted features. *Physics in Medicine and Biology*, **2019**, 64, 175012	3.8	25
35	Dosimetric evaluation of 4D-CBCT reconstructed by Simultaneous Motion Estimation and Image Reconstruction (SMEIR) for carbon ion therapy of lung cancer. *Medical Physics*, **2019**, 46, 4087-4094	4.4	2
34	A collection input based support tensor machine for lesion malignancy classification in digital breast tomosynthesis. *Physics in Medicine and Biology*, **2019**, 64, 235007	3.8	2

33	Combining many-objective radiomics and 3D convolutional neural network through evidential reasoning to predict lymph node metastasis in head and neck cancer. *Physics in Medicine and Biology*, **2019**, 64, 075011	3.8	37
32	4D liver tumor localization using cone-beam projections and a biomechanical model. *Radiotherapy and Oncology*, **2019**, 133, 183-192	5.3	8
31	Total image constrained diffusion tensor for spectral computed tomography reconstruction. *Applied Mathematical Modelling*, **2019**, 68, 487-508	4.5	6
30	Quantitative 4D-PET reconstruction for small animal using SMEIR-reconstructed 4D-CBCT. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2018**, 2, 300-306	4.2	3
29	4D cone-beam computed tomography (CBCT) using a moving blocker for simultaneous radiation dose reduction and scatter correction. *Physics in Medicine and Biology*, **2018**, 63, 115007	3.8	6
28	Modified simultaneous motion estimation and image reconstruction (m-SMEIR) for 4D-CBCT **2018**,		2
27	Statistical Iterative CBCT Reconstruction Based on Neural Network. *IEEE Transactions on Medical Imaging*, **2018**, 37, 1511-1521	11.7	22
26	Applications of nonlocal means algorithm in low-dose X-ray CT image processing and reconstruction: A review. *Medical Physics*, **2017**, 44, 1168-1185	4.4	50
25	Multi-objective radiomics model for predicting distant failure in lung SBRT. *Physics in Medicine and Biology*, **2017**, 62, 4460-4478	3.8	30
24	Attenuation correction in 4D-PET using a single-phase attenuation map and rigidity-adaptive deformable registration. *Medical Physics*, **2017**, 44, 522-532	4.4	4
23	Optimization of the geometry and speed of a moving blocker system for cone-beam computed tomography scatter correction. *Medical Physics*, **2017**, 44, e215-e229	4.4	13
22	A Biomechanical Modeling Guided CBCT Estimation Technique. *IEEE Transactions on Medical Imaging*, **2017**, 36, 641-652	11.7	21
21	Low-Dose CBCT Reconstruction Using Hessian Schatten Penalties. *IEEE Transactions on Medical Imaging*, **2017**, 36, 2588-2599	11.7	11
20	Structure-adaptive CBCT reconstruction using weighted total variation and Hessian penalties. *Biomedical Optics Express*, **2016**, 7, 3299-3322	3.5	7
19	Respiratory motion correction in 4D-PET by simultaneous motion estimation and image reconstruction (SMEIR). *Physics in Medicine and Biology*, **2016**, 61, 5639-61	3.8	14
18	A practical cone-beam CT scatter correction method with optimized Monte Carlo simulations for image-guided radiation therapy. *Physics in Medicine and Biology*, **2015**, 60, 3567-87	3.8	68
17	Iterative CBCT reconstruction using Hessian penalty. *Physics in Medicine and Biology*, **2015**, 60, 1965-87	3.8	28
16	Deriving adaptive MRF coefficients from previous normal-dose CT scan for low-dose image reconstruction via penalized weighted least-squares minimization. *Medical Physics*, **2014**, 41, 041916	4.4	33

15	Nonlocal means-based regularizations for statistical CT reconstruction **2014**,		4
14	Statistical image reconstruction for low-dose CT using nonlocal means-based regularization. *Computerized Medical Imaging and Graphics*, **2014**, 38, 423-35	7.6	51
13	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone-beam CT. *Medical Physics*, **2013**, 40, 101912	4.4	57
12	High-quality four-dimensional cone-beam CT by deforming prior images. *Physics in Medicine and Biology*, **2013**, 58, 231-46	3.8	60
11	Inverse determination of the penalty parameter in penalized weighted least-squares algorithm for noise reduction of low-dose CBCT. *Medical Physics*, **2011**, 38, 4066-72	4.4	23
10	Effects of the penalty on the penalized weighted least-squares image reconstruction for low-dose CBCT. *Physics in Medicine and Biology*, **2011**, 56, 5535-52	3.8	30
9	A patient set-up protocol based on partially blocked cone-beam CT. *Technology in Cancer Research and Treatment*, **2010**, 9, 191-8	2.7	8
8	Compressed sensing based cone-beam computed tomography reconstruction with a first-order method. *Medical Physics*, **2010**, 37, 5113-25	4.4	179
7	Recent Development of Low-dose X-ray Cone-beam Computed Tomography. *Current Medical Imaging*, **2010**, 6, 72-81	1.2	13
6	Scatter correction for cone-beam CT in radiation therapy. *Medical Physics*, **2009**, 36, 2258-68	4.4	125
5	Iterative image reconstruction for CBCT using edge-preserving prior. *Medical Physics*, **2009**, 36, 252-60	4.4	119
4	Dose reduction for kilovotage cone-beam computed tomography in radiation therapy. *Physics in Medicine and Biology*, **2008**, 53, 2897-909	3.8	62
3	An experimental study on the noise properties of x-ray CT sinogram data in Radon space. *Physics in Medicine and Biology*, **2008**, 53, 3327-41	3.8	102
2	Penalized weighted least-squares approach to sinogram noise reduction and image reconstruction for low-dose X-ray computed tomography. *IEEE Transactions on Medical Imaging*, **2006**, 25, 1272-1283	11.7	316
1	Penalized weighted least-squares approach to sinogram noise reduction and image reconstruction for low-dose X-ray computed tomography. *IEEE Transactions on Medical Imaging*, **2006**, 25, 1272-83	11.7	230