Jing Wang

List of Publications by Year
in descending order

59 papers	2,934 citations	257101 24 h-index	168136 53 g-index
59 all docs	59 docs citations	59 times ranked	2053 citing authors

#	Article	IF	Citations
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, 1272-1283.	5.4	425
2	Penalized weighted least-squares image reconstruction for dual energy X-ray transmission tomography. IEEE Transactions on Medical Imaging, 2000, 19, 1075-1081.	5.4	331
3	Compressed sensing based cone‐beam computed tomography reconstruction with a first‐order	1.6	212
4	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.	1.6	170
5	Iterative image reconstruction for CBCT using edge‐preserving prior. Medical Physics, 2009, 36, 252-260.	1.6	162
6	Scatter correction for cone‐beam CT in radiation therapy. Medical Physics, 2009, 36, 2258-2268.	1.6	161
7	An experimental study on the noise properties of x-ray CT sinogram data in Radon space. Physics in Medicine and Biology, 2008, 53, 3327-3341.	1.6	132
8	Synthetic CT generation from CBCT images via deep learning. Medical Physics, 2020, 47, 1115-1125.	1.6	109
9	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, 3567-3587.	1.6	96
10	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone‐beam CT. Medical Physics, 2013, 40, 101912.	1.6	82
11	Dose reduction for kilovotage cone-beam computed tomography in radiation therapy. Physics in Medicine and Biology, 2008, 53, 2897-2909.	1.6	81
12	Applications of nonlocal means algorithm in low‐dose X‐ray <scp>CT</scp> image processing and reconstruction: A review. Medical Physics, 2017, 44, 1168-1185.	1.6	79
13	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.	1.6	74
14	High-quality four-dimensional cone-beam CT by deforming prior images. Physics in Medicine and Biology, 2013, 58, 231-246.	1.6	72
15	Statistical image reconstruction for low-dose CT using nonlocal means-based regularization. Computerized Medical Imaging and Graphics, 2014, 38, 423-435.	3.5	64
16	Predicting lung nodule malignancies by combining deep convolutional neural network and handcrafted features. Physics in Medicine and Biology, 2019, 64, 175012.	1.6	51
17	Multi-objective radiomics model for predicting distant failure in lung SBRT. Physics in Medicine and Biology, 2017, 62, 4460-4478.	1.6	46
18	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.	1.7	45

#	ARTICLE	IF	CITATIONS
19	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.	1.6	43
20	Effects of the penalty on the penalized weighted least-squares image reconstruction for low-dose CBCT. Physics in Medicine and Biology, 2011, 56, 5535-5552.	1.6	37
21	Iterative CBCT reconstruction using Hessian penalty. Physics in Medicine and Biology, 2015, 60, 1965-1987.	1.6	37
22	Statistical Iterative CBCT Reconstruction Based on Neural Network. IEEE Transactions on Medical Imaging, 2018, 37, 1511-1521.	5.4	33
23	Inverse determination of the penalty parameter in penalized weighted least–squares algorithm for noise reduction of low–dose CBCT. Medical Physics, 2011, 38, 4066-4072.	1.6	28
24	A Biomechanical Modeling Guided CBCT Estimation Technique. IEEE Transactions on Medical Imaging, 2017, 36, 641-652.	5.4	26
25	Synthetic CT generation from CBCT images via unsupervised deep learning. Physics in Medicine and Biology, 2021, 66, 115019.	1.6	26
26	Multi-Objective-Based Radiomic Feature Selection for Lesion Malignancy Classification. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 194-204.	3.9	24
27	Recent Development of Low-dose X-ray Cone-beam Computed Tomography. Current Medical Imaging, 2010, 6, 72-81.	0.4	20
28	Hybrid Automatic Lung Segmentation on Chest CT Scans. IEEE Access, 2020, 8, 73293-73306.	2.6	20
29	Optimization of the geometry and speed of a moving blocker system for cone–beam computed tomography scatter correction. Medical Physics, 2017, 44, e215-e229.	1.6	17
30	4D liver tumor localization using cone-beam projections and a biomechanical model. Radiotherapy and Oncology, 2019, 133, 183-192.	0.3	16
31	Multifaceted radiomics for distant metastasis prediction in head & neck cancer. Physics in Medicine and Biology, 2020, 65, 155009.	1.6	16
32	Respiratory motion correction in 4D-PET by simultaneous motion estimation and image reconstruction (SMEIR). Physics in Medicine and Biology, 2016, 61, 5639-5661.	1.6	15
33	Low-Dose CBCT Reconstruction Using Hessian Schatten Penalties. IEEE Transactions on Medical Imaging, 2017, 36, 2588-2599.	5.4	15
34	H-SegNet: hybrid segmentation network for lung segmentation in chest radiographs using mask region-based convolutional neural network and adaptive closed polyline searching method. Physics in Medicine and Biology, 2022, 67, 075006.	1.6	14
35	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.	1.6	13
36	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.	1.6	12

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37	Real-time liver tumor localization via a single x-ray projection using deep graph neural network-assisted biomechanical modeling. Physics in Medicine and Biology, 2022, 67, 115009.	1.6	12
38	A Patient Set-up Protocol Based on Partially Blocked Cone-beam CT. Technology in Cancer Research and Treatment, 2010, 9, 191-198.	0.8	9
39	Total image constrained diffusion tensor for spectral computed tomography reconstruction. Applied Mathematical Modelling, 2019, 68, 487-508.	2.2	9
40	Automatic liver tumor localization using deep learning-based liver boundary motion estimation and biomechanical modeling (DL-Bio). Medical Physics, 2021, 48, 7790-7805.	1.6	9
41	Structure-adaptive CBCT reconstruction using weighted total variation and Hessian penalties. Biomedical Optics Express, 2016, 7, 3299.	1.5	8
42	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.	1.1	8
43	Iterative reconstruction for low-dose cerebral perfusion computed tomography using prior image induced diffusion tensor. Physics in Medicine and Biology, 2021, 66, .	1.6	8
44	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.	1.6	7
45	Interpretable Mathematical Model-guided Ultrasound Prostate Contour Extraction Using Data Mining Techniques. , 2021, , .		7
46	Real-time MRI motion estimation through an unsupervised k-space-driven deformable registration network (KS-RegNet). Physics in Medicine and Biology, 2022, 67, 135012.	1.6	6
47	Nonlocal means-based regularizations for statistical CT reconstruction. Proceedings of SPIE, 2014, , .	0.8	5
48	Attenuation correction in 4D-<scp>PET</scp> using a single-phase attenuation map and rigidity-adaptive deformable registration. Medical Physics, 2017, 44, 522-532.	1.6	5
49	Modified simultaneous motion estimation and image reconstruction (m-SMEIR) for 4D-CBCT. , 2018, , .		5
50	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.	1.6	5
51	Quantitative 4D-PET Reconstruction for Small Animal Using SMEIR-Reconstructed 4D-CBCT. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 300-306.	2.7	4
52	A collection input based support tensor machine for lesion malignancy classification in digital breast tomosynthesis. Physics in Medicine and Biology, 2019, 64, 235007.	1.6	4
53	General simultaneous motion estimation and image reconstruction (G-SMEIR). Biomedical Physics and Engineering Express, 2021, 7, .	0.6	4
54	Lung contour detection in Chest X-ray images using Mask Region-based Convolutional Neural Network and Adaptive Closed Polyline Searching Method. , 2021, 2021, 2839-2842.		4

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55	Locoregional recurrence prediction in head & neck cancer based on multi-modality and multi-view feature expansion. Physics in Medicine and Biology, 0, , .	1.6	4
56	Phase II Trial of Sipuleucel-T and Stereotactic Ablative Body Radiation for Patients with Metastatic Castrate-Resistant Prostate Cancer. Biomedicines, 2022, 10, 1419.	1.4	3
57	Structure tensor total variation for CBCT reconstruction. Journal of X-Ray Science and Technology, 2019, 27, 257-272.	0.7	2
58	Improving cone-beam CT quality using a cycle-residual connection with a dilated convolution-consistent generative adversarial network. Physics in Medicine and Biology, 0, , .	1.6	2
59	On the value of a multistage optimization approach for intensity-modulated radiation therapy planning. Physics in Medicine and Biology, 0, , .	1.6	0