

Jing Wang

List of Publications by Year in descending order

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59
papers

2,934
citations

257450

24
h-index

168389

53
g-index

59
all docs

59
docs citations

59
times ranked

2053
citing authors

#	ARTICLE	IF	CITATIONS
1	H-SegNet: hybrid segmentation network for lung segmentation in chest radiographs using mask region-based convolutional neural network and adaptive closed polyline searching method. <i>Physics in Medicine and Biology</i> , 2022, 67, 075006.	3.0	14
2	Real-time liver tumor localization via a single x-ray projection using deep graph neural network-assisted biomechanical modeling. <i>Physics in Medicine and Biology</i> , 2022, 67, 115009.	3.0	12
3	Phase II Trial of Sipuleucel-T and Stereotactic Ablative Body Radiation for Patients with Metastatic Castrate-Resistant Prostate Cancer. <i>Biomedicines</i> , 2022, 10, 1419.	3.2	3
4	Real-time MRI motion estimation through an unsupervised k-space-driven deformable registration network (KS-RegNet). <i>Physics in Medicine and Biology</i> , 2022, 67, 135012.	3.0	6
5	Synthetic CT generation from CBCT images via unsupervised deep learning. <i>Physics in Medicine and Biology</i> , 2021, 66, 115019.	3.0	26
6	Iterative reconstruction for low-dose cerebral perfusion computed tomography using prior image induced diffusion tensor. <i>Physics in Medicine and Biology</i> , 2021, 66, .	3.0	8
7	General simultaneous motion estimation and image reconstruction (G-SMEIR). <i>Biomedical Physics and Engineering Express</i> , 2021, 7, .	1.2	4
8	Automatic liver tumor localization using deep learning-based liver boundary motion estimation and biomechanical modeling (DL- ϵ Bio). <i>Medical Physics</i> , 2021, 48, 7790-7805.	3.0	9
9	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
10	Interpretable Mathematical Model-guided Ultrasound Prostate Contour Extraction Using Data Mining Techniques. , 2021, , .		7
11	Multi-Objective-Based Radiomic Feature Selection for Lesion Malignancy Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 194-204.	6.3	24
12	Synthetic CT generation from CBCT images via deep learning. <i>Medical Physics</i> , 2020, 47, 1115-1125.	3.0	109
13	A manifold learning regularization approach to enhance 3D CT image-based lung nodule classification. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 287-295.	2.8	45
14	Hybrid Automatic Lung Segmentation on Chest CT Scans. <i>IEEE Access</i> , 2020, 8, 73293-73306.	4.2	20
15	Multifaceted radiomics for distant metastasis prediction in head & neck cancer. <i>Physics in Medicine and Biology</i> , 2020, 65, 155009.	3.0	16
16	On the robustness of deep learning-based lung-nodule classification for CT images with respect to image noise. <i>Physics in Medicine and Biology</i> , 2020, 65, 245037.	3.0	13
17	Predicting lymph node metastasis in patients with oropharyngeal cancer by using a convolutional neural network with associated epistemic and aleatoric uncertainty. <i>Physics in Medicine and Biology</i> , 2020, 65, 225002.	3.0	12
18	Predicting lung nodule malignancies by combining deep convolutional neural network and handcrafted features. <i>Physics in Medicine and Biology</i> , 2019, 64, 175012.	3.0	51

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19	Dosimetric evaluation of 4D-CBCT reconstructed by Simultaneous Motion Estimation and Image Reconstruction (SMEIR) for carbon ion therapy of lung cancer. <i>Medical Physics</i> , 2019, 46, 4087-4094.	3.0	5
20	A collection input based support tensor machine for lesion malignancy classification in digital breast tomosynthesis. <i>Physics in Medicine and Biology</i> , 2019, 64, 235007.	3.0	4
21	Enhancing liver tumor localization accuracy by prior-knowledge-guided motion modeling and a biomechanical model. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 1337-1349.	2.0	8
22	Generating synthesized computed tomography (CT) from cone-beam computed tomography (CBCT) using CycleGAN for adaptive radiation therapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 125002.	3.0	170
23	Structure tensor total variation for CBCT reconstruction. <i>Journal of X-Ray Science and Technology</i> , 2019, 27, 257-272.	1.0	2
24	Combining many-objective radiomics and 3D convolutional neural network through evidential reasoning to predict lymph node metastasis in head and neck cancer. <i>Physics in Medicine and Biology</i> , 2019, 64, 075011.	3.0	74
25	4D liver tumor localization using cone-beam projections and a biomechanical model. <i>Radiotherapy and Oncology</i> , 2019, 133, 183-192.	0.6	16
26	Total image constrained diffusion tensor for spectral computed tomography reconstruction. <i>Applied Mathematical Modelling</i> , 2019, 68, 487-508.	4.2	9
27	Quantitative 4D-PET Reconstruction for Small Animal Using SMEIR-Reconstructed 4D-CBCT. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2018, 2, 300-306.	3.7	4
28	4D cone-beam computed tomography (CBCT) using a moving blocker for simultaneous radiation dose reduction and scatter correction. <i>Physics in Medicine and Biology</i> , 2018, 63, 115007.	3.0	7
29	Modified simultaneous motion estimation and image reconstruction (m-SMEIR) for 4D-CBCT. , 2018, , .		5
30	Statistical Iterative CBCT Reconstruction Based on Neural Network. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1511-1521.	8.9	33
31	Applications of nonlocal means algorithm in low-dose X-ray CT image processing and reconstruction: A review. <i>Medical Physics</i> , 2017, 44, 1168-1185.	3.0	79
32	Multi-objective radiomics model for predicting distant failure in lung SBRT. <i>Physics in Medicine and Biology</i> , 2017, 62, 4460-4478.	3.0	46
33	Attenuation correction in 4D-PET using a single-phase attenuation map and rigidity-adaptive deformable registration. <i>Medical Physics</i> , 2017, 44, 522-532.	3.0	5
34	Optimization of the geometry and speed of a moving blocker system for cone-beam computed tomography scatter correction. <i>Medical Physics</i> , 2017, 44, e215-e229.	3.0	17
35	A Biomechanical Modeling Guided CBCT Estimation Technique. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 641-652.	8.9	26
36	Low-Dose CBCT Reconstruction Using Hessian Schatten Penalties. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2588-2599.	8.9	15

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37	Respiratory motion correction in 4D-PET by simultaneous motion estimation and image reconstruction (SMEIR). <i>Physics in Medicine and Biology</i> , 2016, 61, 5639-5661.	3.0	15
38	Structure-adaptive CBCT reconstruction using weighted total variation and Hessian penalties. <i>Biomedical Optics Express</i> , 2016, 7, 3299.	2.9	8
39	A practical cone-beam CT scatter correction method with optimized Monte Carlo simulations for image-guided radiation therapy. <i>Physics in Medicine and Biology</i> , 2015, 60, 3567-3587.	3.0	96
40	Iterative CBCT reconstruction using Hessian penalty. <i>Physics in Medicine and Biology</i> , 2015, 60, 1965-1987.	3.0	37
41	Deriving adaptive MRF coefficients from previous normal-dose CT scan for low-dose image reconstruction via penalized weighted least-squares minimization. <i>Medical Physics</i> , 2014, 41, 041916.	3.0	43
42	Nonlocal means-based regularizations for statistical CT reconstruction. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5
43	Statistical image reconstruction for low-dose CT using nonlocal means-based regularization. <i>Computerized Medical Imaging and Graphics</i> , 2014, 38, 423-435.	5.8	64
44	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone-beam CT. <i>Medical Physics</i> , 2013, 40, 101912.	3.0	82
45	High-quality four-dimensional cone-beam CT by deforming prior images. <i>Physics in Medicine and Biology</i> , 2013, 58, 231-246.	3.0	72
46	Effects of the penalty on the penalized weighted least-squares image reconstruction for low-dose CBCT. <i>Physics in Medicine and Biology</i> , 2011, 56, 5535-5552.	3.0	37
47	Inverse determination of the penalty parameter in penalized weighted least-squares algorithm for noise reduction of low-dose CBCT. <i>Medical Physics</i> , 2011, 38, 4066-4072.	3.0	28
48	Recent Development of Low-dose X-ray Cone-beam Computed Tomography. <i>Current Medical Imaging</i> , 2010, 6, 72-81.	0.8	20
49	A Patient Set-up Protocol Based on Partially Blocked Cone-beam CT. <i>Technology in Cancer Research and Treatment</i> , 2010, 9, 191-198.	1.9	9
50	Compressed sensing based cone-beam computed tomography reconstruction with a first-order	3.0	212
51	Iterative image reconstruction for CBCT using edge-preserving prior. <i>Medical Physics</i> , 2009, 36, 252-260.	3.0	162
52	Scatter correction for cone-beam CT in radiation therapy. <i>Medical Physics</i> , 2009, 36, 2258-2268.	3.0	161
53	Dose reduction for kilovoltage cone-beam computed tomography in radiation therapy. <i>Physics in Medicine and Biology</i> , 2008, 53, 2897-2909.	3.0	81
54	An experimental study on the noise properties of x-ray CT sinogram data in Radon space. <i>Physics in Medicine and Biology</i> , 2008, 53, 3327-3341.	3.0	132

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55	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.	8.9	425
56	Penalized weighted least-squares image reconstruction for dual energy X-ray transmission tomography. IEEE Transactions on Medical Imaging, 2000, 19, 1075-1081.	8.9	331
57	Locoregional recurrence prediction in head & neck cancer based on multi-modality and multi-view feature expansion. Physics in Medicine and Biology, 0, , .	3.0	4
58	On the value of a multistage optimization approach for intensity-modulated radiation therapy planning. Physics in Medicine and Biology, 0, , .	3.0	0
59	Improving cone-beam CT quality using a cycle-residual connection with a dilated convolution-consistent generative adversarial network. Physics in Medicine and Biology, 0, , .	3.0	2