

Liyuan Chen

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

726
citations

758635

12
h-index

794141

19
g-index

20
all docs

20
docs citations

20
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.6	170
2	Synthetic CT generation from CBCT images via deep learning. <i>Medical Physics</i> , 2020, 47, 1115-1125.	1.6	109
3	Intelligent Parameter Tuning in Optimization-Based Iterative CT Reconstruction via Deep Reinforcement Learning. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1430-1439.	5.4	73
4	Intelligent inverse treatment planning via deep reinforcement learning, a proof-of-principle study in high dose-rate brachytherapy for cervical cancer. <i>Physics in Medicine and Biology</i> , 2019, 64, 115013.	1.6	70
5	Operating a treatment planning system using a deep reinforcement learning-based virtual treatment planner for prostate cancer intensity modulated radiation therapy treatment planning. <i>Medical Physics</i> , 2020, 47, 2329-2336.	1.6	52
6	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.	1.7	45
7	Automatic PET cervical tumor segmentation by combining deep learning and anatomic prior. <i>Physics in Medicine and Biology</i> , 2019, 64, 085019.	1.6	37
8	Synthetic CT generation from CBCT images via unsupervised deep learning. <i>Physics in Medicine and Biology</i> , 2021, 66, 115019.	1.6	26
9	Technical Note: Deriving ventilation imaging from 4DCT by deep convolutional neural network. <i>Medical Physics</i> , 2019, 46, 2323-2329.	1.6	23
10	A multi-objective radiomics model for the prediction of locoregional recurrence in head and neck squamous cell cancer. <i>Medical Physics</i> , 2020, 47, 5392-5400.	1.6	20
11	Material elemental decomposition in dual and multi-energy CT via a sparsity dictionary approach for proton stopping power ratio calculation. <i>Medical Physics</i> , 2018, 45, 1491-1503.	1.6	15
12	U-net-based deformation vector field estimation for motion-compensated 4D CBCT reconstruction. <i>Medical Physics</i> , 2020, 47, 3000-3012.	1.6	15
13	Improving efficiency of training a virtual treatment planner network via knowledge-guided deep reinforcement learning for intelligent automatic treatment planning of radiotherapy. <i>Medical Physics</i> , 2021, 48, 1909-1920.	1.6	14
14	A hierarchical deep reinforcement learning framework for intelligent automatic treatment planning of prostate cancer intensity modulated radiation therapy. <i>Physics in Medicine and Biology</i> , 2021, 66, 134002.	1.6	13
15	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.	1.6	12
16	Attention Guided Lymph Node Malignancy Prediction in Head and Neck Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1171-1179.	0.4	10
17	Variational Image Restoration and Segmentation with Rician Noise. <i>Journal of Scientific Computing</i> , 2019, 78, 1329-1352.	1.1	8
18	Accurate segmenting of cervical tumors in PET imaging based on similarity between adjacent slices. <i>Computers in Biology and Medicine</i> , 2018, 97, 30-36.	3.9	7

#	ARTICLE	IF	CITATIONS
19	Quality-guided deep reinforcement learning for parameter tuning in iterative CT reconstruction. , 2019, , .		4
20	Comparison of three undersampling approaches in computed tomography reconstruction. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1229-1241.	1.1	3