

Zhen Tian

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

987
citations

516710

16
h-index

434195

31
g-index

34
all docs

34
docs citations

34
times ranked

1177
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-dose CT reconstruction via edge-preserving total variation regularization. <i>Physics in Medicine and Biology</i> , 2011, 56, 5949-5967.	3.0	305
2	A DVH-guided IMRT optimization algorithm for automatic treatment planning and adaptive radiotherapy replanning. <i>Medical Physics</i> , 2014, 41, 061711.	3.0	89
3	CT prostate segmentation based on synthetic MRI-aided deep attention fully convolution network. <i>Medical Physics</i> , 2020, 47, 530-540.	3.0	66
4	Low-dose 4DCT reconstruction via temporal nonlocal means. <i>Medical Physics</i> , 2011, 38, 1359-1365.	3.0	62
5	Four-dimensional cone beam CT reconstruction and enhancement using a temporal nonlocal means method. <i>Medical Physics</i> , 2012, 39, 5592-5602.	3.0	62
6	4D Computed Tomography Reconstruction from Few-Projection Data via Temporal Non-local Regularization. <i>Lecture Notes in Computer Science</i> , 2010, 13, 143-150.	1.3	35
7	Automatic treatment plan re-optimization for adaptive radiotherapy guided with the initial plan DVHs. <i>Physics in Medicine and Biology</i> , 2013, 58, 8725-8738.	3.0	35
8	Multi-Needle Detection in 3D Ultrasound Images Using Unsupervised Order-Graph Regularized Sparse Dictionary Learning. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2302-2315.	8.9	31
9	Dosimetric benefit of adaptive re-planning in pancreatic cancer stereotactic body radiotherapy. <i>Medical Dosimetry</i> , 2015, 40, 318-324.	0.9	30
10	A GPU OpenCL based cross-platform Monte Carlo dose calculation engine (goMC). <i>Physics in Medicine and Biology</i> , 2015, 60, 7419-7435.	3.0	26
11	A new scheme for real-time high-contrast imaging in lung cancer radiotherapy: a proof-of-concept study. <i>Physics in Medicine and Biology</i> , 2016, 61, 2372-2388.	3.0	24
12	Deep learning-based image quality improvement for low-dose computed tomography simulation in radiation therapy. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	1.5	23
13	Deep learning-based real-time volumetric imaging for lung stereotactic body radiation therapy: a proof of concept study. <i>Physics in Medicine and Biology</i> , 2020, 65, 235003.	3.0	21
14	A machine-learning-based prediction model of fistula formation after interstitial brachytherapy for locally advanced gynecological malignancies. <i>Brachytherapy</i> , 2019, 18, 530-538.	0.5	19
15	A new open-source GPU-based microscopic Monte Carlo simulation tool for the calculations of DNA damages caused by ionizing radiation - Part I: Core algorithm and validation. <i>Medical Physics</i> , 2020, 47, 1958-1970.	3.0	19
16	Automatic multi-needle localization in ultrasound images using large margin mask RCNN for ultrasound-guided prostate brachytherapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 205003.	3.0	18
17	Accelerated Monte Carlo simulation on the chemical stage in water radiolysis using GPU. <i>Physics in Medicine and Biology</i> , 2017, 62, 3081-3096.	3.0	14
18	A new open-source GPU-based microscopic Monte Carlo simulation tool for the calculations of DNA damages caused by ionizing radiation - Part II: sensitivity and uncertainty analysis. <i>Medical Physics</i> , 2020, 47, 1971-1982.	3.0	14

#	ARTICLE	IF	CITATIONS
19	A preliminary study on a multiresolution-level inverse planning approach for Gamma Knife radiosurgery. <i>Medical Physics</i> , 2020, 47, 1523-1532.	3.0	13
20	Multi-GPU implementation of a VMAT treatment plan optimization algorithm. <i>Medical Physics</i> , 2015, 42, 2841-2852.	3.0	12
21	An analytic linear accelerator source model for GPU-based Monte Carlo dose calculations. <i>Physics in Medicine and Biology</i> , 2015, 60, 7941-7967.	3.0	10
22	Full Monte Carlo-Based Biologic Treatment Plan Optimization System for Intensity Modulated Carbon Ion Therapy on Graphics Processing Unit. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 235-243.	0.8	10
23	Automatic commissioning of a GPU-based Monte Carlo radiation dose calculation code for photon radiotherapy. <i>Physics in Medicine and Biology</i> , 2014, 59, 6467-6486.	3.0	8
24	High through-plane resolution CT imaging with self-supervised deep learning. <i>Physics in Medicine and Biology</i> , 2021, 66, 145013.	3.0	8
25	Risk factors for fistula formation after interstitial brachytherapy for locally advanced gynecological cancers involving vagina. <i>Journal of Contemporary Brachytherapy</i> , 2018, 10, 510-515.	0.9	7
26	Lung tumor segmentation in 4D CT images using motion convolutional neural networks. <i>Medical Physics</i> , 2021, 48, 7141-7153.	3.0	7
27	New concept on an integrated interior magnetic resonance imaging and medical linear accelerator system for radiation therapy. <i>Journal of Medical Imaging</i> , 2017, 4, 015004.	1.5	5
28	Reconstructing cone-beam CT with spatially varying qualities for adaptive radiotherapy: a proof-of-principle study. <i>Physics in Medicine and Biology</i> , 2014, 59, 6251-6266.	3.0	4
29	Moving GPU-OpenCL-based Monte Carlo dose calculation toward clinical use: Automatic beam commissioning and source sampling for treatment plan dose calculation. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 69-84.	1.9	3
30	A prediction model for dosimetric-based lung adaptive radiotherapy. <i>Medical Physics</i> , 2022, 49, 6319-6333.	3.0	3
31	Mask R-CNN-based tumor localization and segmentation in 4D Lung CT. , 2021, , .		2
32	Automatic inverse treatment planning of Gamma Knife radiosurgery via deep reinforcement learning. <i>Medical Physics</i> , 2022, 49, 2877-2889.	3.0	2
33	A 4D CT sorting algorithm based on image boundary discontinuity. , 2010, , .		0