

Xuejun Gu

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,516

citations

19

h-index

38

g-index

74

ext. papers

1,943

ext. citations

3.5

avg, IF

4.61

L-index

#	Paper	IF	Citations
66	Implementation and evaluation of various demons deformable image registration algorithms on a GPU. <i>Physics in Medicine and Biology</i> , 2010 , 55, 207-19	3.8	182
65	Three-dimensional bioluminescence tomography with model-based reconstruction. <i>Optics Express</i> , 2004 , 12, 3996-4000	3.3	109
64	A feasibility study for predicting optimal radiation therapy dose distributions of prostate cancer patients from patient anatomy using deep learning. <i>Scientific Reports</i> , 2019 , 9, 1076	4.9	97
63	GPU-based fast Monte Carlo simulation for radiotherapy dose calculation. <i>Physics in Medicine and Biology</i> , 2011 , 56, 7017-31	3.8	97
62	Real-time volumetric image reconstruction and 3D tumor localization based on a single x-ray projection image for lung cancer radiotherapy. <i>Medical Physics</i> , 2010 , 37, 2822-6	4.4	83
61	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	3.8	71
60	A deep convolutional neural network-based automatic delineation strategy for multiple brain metastases stereotactic radiosurgery. <i>PLoS ONE</i> , 2017 , 12, e0185844	3.7	71
59	GPU-based ultra-fast dose calculation using a finite size pencil beam model. <i>Physics in Medicine and Biology</i> , 2009 , 54, 6287-97	3.8	65
58	Differentiation of cysts from solid tumors in the breast with diffuse optical tomography. <i>Academic Radiology</i> , 2004 , 11, 53-60	4.3	63
57	High-quality four-dimensional cone-beam CT by deforming prior images. <i>Physics in Medicine and Biology</i> , 2013 , 58, 231-46	3.8	60
56	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone-beam CT. <i>Medical Physics</i> , 2013 , 40, 101912	4.4	57
55	3D tumor localization through real-time volumetric x-ray imaging for lung cancer radiotherapy. <i>Medical Physics</i> , 2011 , 38, 2783-94	4.4	44
54	GPU-based fast gamma index calculation. <i>Physics in Medicine and Biology</i> , 2011 , 56, 1431-41	3.8	37
53	GPU-based fast low-dose cone beam CT reconstruction via total variation. <i>Journal of X-Ray Science and Technology</i> , 2011 , 19, 139-54	2.1	33
52	Mesh-based enhancement schemes in diffuse optical tomography. <i>Medical Physics</i> , 2003 , 30, 861-9	4.4	30
51	A contour-guided deformable image registration algorithm for adaptive radiotherapy. <i>Physics in Medicine and Biology</i> , 2013 , 58, 1889-901	3.8	29
50	A GPU-based finite-size pencil beam algorithm with 3D-density correction for radiotherapy dose calculation. <i>Physics in Medicine and Biology</i> , 2011 , 56, 3337-50	3.8	26

49	Comprehensive evaluation of ten deformable image registration algorithms for contour propagation between CT and cone-beam CT images in adaptive head & neck radiotherapy. <i>PLoS ONE</i> , 2017 , 12, e0175906	3.7	23
48	An anthropomorphic abdominal phantom for deformable image registration accuracy validation in adaptive radiation therapy. <i>Medical Physics</i> , 2017 , 44, 2369-2378	4.4	20
47	Feasibility study of a multi-criteria decision-making based hierarchical model for multi-modality feature and multi-classifier fusion: Applications in medical prognosis prediction. <i>Information Fusion</i> , 2020 , 55, 207-219	16.7	19
46	Three-dimensional printer-aided casting of soft, custom silicone boluses (SCSBs) for head and neck radiation therapy. <i>Practical Radiation Oncology</i> , 2018 , 8, e167-e174	2.8	18
45	Deep inspiration breathhold for left-sided breast cancer patients with unfavorable cardiac anatomy requiring internal mammary nodal irradiation. <i>Practical Radiation Oncology</i> , 2017 , 7, e361-e367	2.8	18
44	A segmentation and point-matching enhanced efficient deformable image registration method for dose accumulation between HDR CT images. <i>Physics in Medicine and Biology</i> , 2015 , 60, 2981-3002	3.8	17
43	BIRADS features-oriented semi-supervised deep learning for breast ultrasound computer-aided diagnosis. <i>Physics in Medicine and Biology</i> , 2020 , 65, 125005	3.8	17
42	Dosimetric comparison of Acuros XB with collapsed cone convolution/superposition and anisotropic analytic algorithm for stereotactic ablative radiotherapy of thoracic spinal metastases. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 181-192	2.3	17
41	A compact, parallel-detection diffuse optical mammography system. <i>Review of Scientific Instruments</i> , 2003 , 74, 2836-2842	1.7	16
40	Automated landmark-guided deformable image registration. <i>Physics in Medicine and Biology</i> , 2015 , 60, 101-16	3.8	15
39	Investigating rectal toxicity associated dosimetric features with deformable accumulated rectal surface dose maps for cervical cancer radiotherapy. <i>Radiation Oncology</i> , 2018 , 13, 125	4.2	14
38	Volumetric modulated arc therapy based total body irradiation: Workflow and clinical experience with an indexed rotational immobilization system. <i>Physics and Imaging in Radiation Oncology</i> , 2017 , 4, 22-25	3.1	14
37	A recursive ensemble organ segmentation (REOS) framework: application in brain radiotherapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 025015	3.8	14
36	Automatic metastatic brain tumor segmentation for stereotactic radiosurgery applications. <i>Physics in Medicine and Biology</i> , 2016 , 61, 8440-8461	3.8	12
35	SPARSE: Seed Point Auto-Generation for Random Walks Segmentation Enhancement in medical inhomogeneous targets delineation of morphological MR and CT images. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 5324	2.3	10
34	Robustness study of noisy annotation in deep learning based medical image segmentation. <i>Physics in Medicine and Biology</i> , 2020 , 65, 175007	3.8	10
33	Inversed-Planned Respiratory Phase Gating in Lung Conformal Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 317-324	4	8
32	Flattening filter free in intensity-modulated radiotherapy (IMRT) - Theoretical modeling with delivery efficiency analysis. <i>Medical Physics</i> , 2019 , 46, 34-44	4.4	8

31	Improved swarm intelligence solution in large scale radiation therapy inverse planning 2015 ,		7
30	Comprehensive target geometric errors and margin assessment in stereotactic partial breast irradiation. <i>Radiation Oncology</i> , 2017 , 12, 151	4.2	7
29	Predicting severe hematologic toxicity from extended-field chemoradiation of para-aortic nodal metastases from cervical cancer. <i>Practical Radiation Oncology</i> , 2018 , 8, 13-19	2.8	7
28	A non-rigid point matching method with local topology preservation for accurate bladder dose summation in high dose rate cervical brachytherapy. <i>Physics in Medicine and Biology</i> , 2016 , 61, 1217-37	3.8	7
27	Deep learning based medical image segmentation with limited labels. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	6
26	Benchmarking techniques for stereotactic body radiotherapy for early-stage glottic laryngeal cancer: LINAC-based non-coplanar VMAT vs. Cyberknife planning. <i>Radiation Oncology</i> , 2019 , 14, 193	4.2	5
25	Modeling Elekta VersaHD using the Varian Eclipse treatment planning system for photon beams: A single-institution experience. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 33-42	2.3	5
24	Deformation vector fields (DVF)-driven image reconstruction for 4D-CBCT. <i>Journal of X-Ray Science and Technology</i> , 2015 , 23, 11-23	2.1	4
23	Internal Motion Estimation by Internal-external Motion Modeling for Lung Cancer Radiotherapy. <i>Scientific Reports</i> , 2018 , 8, 3677	4.9	4
22	A hierarchical fusion framework to integrate homogeneous and heterogeneous classifiers for medical decision-making. <i>Knowledge-Based Systems</i> , 2021 , 212, 106517	7.3	4
21	A web-based brain metastases segmentation and labeling platform for stereotactic radiosurgery. <i>Medical Physics</i> , 2020 , 47, 3263-3276	4.4	3
20	Electron modulated arc therapy (EMAT) using photon MLC for postmastectomy chest wall treatment I: Monte Carlo-based dosimetric characterizations. <i>Physica Medica</i> , 2019 , 67, 1-8	2.7	3
19	A real-time, soft robotic patient positioning system for maskless head-and-neck cancer radiotherapy: An initial investigation 2015 ,		3
18	Deep learning-based inverse mapping for fluence map prediction. <i>Physics in Medicine and Biology</i> , 2020 ,	3.8	3
17	Online dosimetric evaluation of larynx SBRT: A pilot study to assess the necessity of adaptive replanning. <i>Journal of Applied Clinical Medical Physics</i> , 2017 , 18, 157-163	2.3	3
16	Prototype volumetric ultrasound tomography image guidance system for prone stereotactic partial breast irradiation: proof-of-concept. <i>Physics in Medicine and Biology</i> , 2018 , 63, 055004	3.8	2
15	Cardiac dosimetric evaluation of deep inspiration breath-hold level variances using computed tomography scans generated from deformable image registration displacement vectors. <i>Medical Dosimetry</i> , 2016 , 41, 22-7	1.3	2
14	A Deformable Image Registration Method for Dose Accumulation between HDR CT Images. <i>Brachytherapy</i> , 2014 , 13, S15-S16	2.4	2

13	Volumetric Modulated Arc Therapy Enabled Total Body Irradiation (VMAT-TBI): Six-year Clinical Experience and Treatment Outcomes. <i>Transplantation and Cellular Therapy</i> , 2021 , 28, 113.e1-113.e1		2
12	Risk Factors for Fat Necrosis After Stereotactic Partial Breast Irradiation for Early-Stage Breast Cancer in a Phase 1 Clinical Trial. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 108, 697-706	4	2
11	Radiation Therapy for Pediatric Brain Tumors using Robotic Radiation Delivery System and Intensity Modulated Proton Therapy. <i>Practical Radiation Oncology</i> , 2020 , 10, e173-e182	2.8	2
10	Surface guided motion management in glottic larynx stereotactic body radiation therapy. <i>Radiotherapy and Oncology</i> , 2020 , 153, 236-242	5.3	2
9	Cosmetic Outcomes of a Phase 1 Dose Escalation Study of 5-Fraction Stereotactic Partial Breast Irradiation for Early Stage Breast Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 772-782	4	2
8	POD-DOSI: A dedicated dosimetry system for GammaPod commissioning and quality assurance. <i>Medical Physics</i> , 2020 , 47, 3647-3657	4.4	1
7	Vision-based control of a soft robot for maskless head and neck cancer radiotherapy 2016 ,		1
6	Soft-NeuroAdapt: A 3-DOF neuro-adaptive patient pose correction system for frameless and maskless cancer radiotherapy 2017 ,		1
5	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone-beam CT 2013 ,		1
4	Model-based ultrasound tomography: tissue phantom experiments. <i>Medical Physics</i> , 2005 , 32, 2659-64	4.4	1
3	Deep-learning based surface region selection for deep inspiration breath hold (DIBH) monitoring in left breast cancer radiotherapy. <i>Physics in Medicine and Biology</i> , 2018 , 63, 245013	3.8	0
2	A general algorithm for distributed treatments of multiple brain metastases. <i>Medical Physics</i> , 2021 , 48, 1832-1838	4.4	
1	In Reply to Hannoun-Levi et al.. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022 , 113, 475-477	4	