Xuejun Gu

List of Publications by Year
in descending order

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74	2,313	257101	223531
papers	citations	24	46
		h-index	g-index

74	74	74	2371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Implementation and evaluation of various demons deformable image registration algorithms on a GPU. Physics in Medicine and Biology, 2010, 55, 207-219.	1.6	219
2	A feasibility study for predicting optimal radiation therapy dose distributions of prostate cancer patients from patient anatomy using deep learning. Scientific Reports, 2019, 9, 1076.	1.6	181
3	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
4	GPU-based fast Monte Carlo simulation for radiotherapy dose calculation. Physics in Medicine and Biology, 2011, 56, 7017-7031.	1.6	145
5	Three-dimensional bioluminescence tomography with model-based reconstruction. Optics Express, 2004, 12, 3996.	1.7	128
6	A deep convolutional neural network-based automatic delineation strategy for multiple brain metastases stereotactic radiosurgery. PLoS ONE, 2017, 12, e0185844.	1.1	109
7	Realâ€time volumetric image reconstruction and 3D tumor localization based on a single xâ€ray projection image for lung cancer radiotherapy. Medical Physics, 2010, 37, 2822-2826.	1.6	105
8	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D coneâ€beam CT. Medical Physics, 2013, 40, 101912.	1.6	82
9	GPU-based ultra-fast dose calculation using a finite pencil beam model. Physics in Medicine and Biology, 2009, 54, 6287-6297.	1.6	78
10	Differentiation of cysts from solid tumors in the breast with diffuse optical tomography1. Academic Radiology, 2004, 11, 53-60.	1.3	73
11	High-quality four-dimensional cone-beam CT by deforming prior images. Physics in Medicine and Biology, 2013, 58, 231-246.	1.6	72
12	3D tumor localization through real-time volumetric x-ray imaging for lung cancer radiotherapy. Medical Physics, 2011, 38, 2783-2794.	1.6	61
13	GPU-based fast low-dose cone beam CT reconstruction via total variation. Journal of X-Ray Science and Technology, 2011, 19, 139-154.	0.7	46
14	GPU-based fast gamma index calculation. Physics in Medicine and Biology, 2011, 56, 1431-1441.	1.6	44
15	Feasibility study of a multi-criteria decision-making based hierarchical model for multi-modality feature and multi-classifier fusion: Applications in medical prognosis prediction. Information Fusion, 2020, 55, 207-219.	11.7	41
16	Mesh-based enhancement schemes in diffuse optical tomography. Medical Physics, 2003, 30, 861-869.	1.6	39
17	A contour-guided deformable image registration algorithm for adaptive radiotherapy. Physics in Medicine and Biology, 2013, 58, 1889-1901.	1.6	38
18	BIRADS features-oriented semi-supervised deep learning for breast ultrasound computer-aided diagnosis. Physics in Medicine and Biology, 2020, 65, 125005.	1.6	38

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19	A GPU-based finite-size pencil beam algorithm with 3D-density correction for radiotherapy dose calculation. Physics in Medicine and Biology, 2011, 56, 3337-3350.	1.6	32
20	Comprehensive evaluation of ten deformable image registration algorithms for contour propagation between CT and cone-beam CT images in adaptive head & neck radiotherapy. PLoS ONE, 2017, 12, e0175906.	1.1	30
21	Investigating rectal toxicity associated dosimetric features with deformable accumulated rectal surface dose maps for cervical cancer radiotherapy. Radiation Oncology, 2018, 13, 125.	1.2	29
22	An anthropomorphic abdominal phantom for deformable image registration accuracy validation in adaptive radiation therapy. Medical Physics, 2017, 44, 2369-2378.	1.6	28
23	Volumetric modulated arc therapy based total body irradiation: Workflow and clinical experience with an indexed rotational immobilization system. Physics and Imaging in Radiation Oncology, 2017, 4, 22-25.	1.2	27
24	Robustness study of noisy annotation in deep learning based medical image segmentation. Physics in Medicine and Biology, 2020, 65, 175007.	1.6	27
25	Dosimetric comparison of Acuros XB with collapsed cone convolution/superposition and anisotropic analytic algorithm for stereotactic ablative radiotherapy of thoracic spinal metastases. Journal of Applied Clinical Medical Physics, 2015, 16, 181-192.	0.8	26
26	A compact, parallel-detection diffuse optical mammography system. Review of Scientific Instruments, 2003, 74, 2836-2842.	0.6	25
27	Deep inspiration breathhold for left-sided breast cancer patients with unfavorable cardiac anatomy requiring internal mammary nodal irradiation. Practical Radiation Oncology, 2017, 7, e361-e367.	1.1	25
28	Three-dimensional printer-aided casting of soft, custom silicone boluses (SCSBs) for head and neck radiation therapy. Practical Radiation Oncology, 2018, 8, e167-e174.	1.1	25
29	A recursive ensemble organ segmentation (REOS) framework: application in brain radiotherapy. Physics in Medicine and Biology, 2019, 64, 025015.	1.6	25
30	Deep learning-based medical image segmentation with limited labels. Physics in Medicine and Biology, 2020, 65, 235001.	1.6	24
31	A segmentation and point-matching enhanced efficient deformable image registration method for dose accumulation between HDR CT images. Physics in Medicine and Biology, 2015, 60, 2981-3002.	1.6	22
32	Automated landmark-guided deformable image registration. Physics in Medicine and Biology, 2015, 60, 101-116.	1.6	18
33	Automatic metastatic brain tumor segmentation for stereotactic radiosurgery applications. Physics in Medicine and Biology, 2016, 61, 8440-8461.	1.6	18
34	A hierarchical fusion framework to integrate homogeneous and heterogeneous classifiers for medical decision-making. Knowledge-Based Systems, 2021, 212, 106517.	4.0	18
35	Deep learning-based inverse mapping for fluence map prediction. Physics in Medicine and Biology, 2020, 65, 235035.	1.6	17
36	Volumetric Modulated Arc Therapy Enabled Total Body Irradiation (VMAT-TBI): Six-year Clinical Experience and Treatment Outcomes. Transplantation and Cellular Therapy, 2022, 28, 113.e1-113.e8.	0.6	15

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37	Surface guided motion management in glottic larynx stereotactic body radiation therapy. Radiotherapy and Oncology, 2020, 153, 236-242.	0.3	14
38	Predicting severe hematologic toxicity from extended-field chemoradiation of para-aortic nodal metastases from cervical cancer. Practical Radiation Oncology, 2018, 8, 13-19.	1.1	12
39	A webâ€based brain metastases segmentation and labeling platform for stereotactic radiosurgery. Medical Physics, 2020, 47, 3263-3276.	1.6	12
40	Cosmetic Outcomes of a Phase 1 Dose Escalation Study of 5-Fraction Stereotactic Partial Breast Irradiation for Early Stage Breast Cancer. International Journal of Radiation Oncology Biology Physics, 2021, 110, 772-782.	0.4	12
41	Inversed-Planned Respiratory Phase Gating inÂLung Conformal Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2017, 99, 317-324.	0.4	11
42	Flattening filter free in intensityâ€modulated radiotherapy (IMRT) â€“ Theoretical modeling with delivery efficiency analysis. Medical Physics, 2019, 46, 34-44.	1.6	11
43	SPARSE: Seed Point Autoâ€Generation for Random Walks Segmentation Enhancement in medical inhomogeneous targets delineation of morphological MR and CT images. Journal of Applied Clinical Medical Physics, 2015, 16, 387-402.	0.8	10
44	Comprehensive target geometric errors and margin assessment in stereotactic partial breast irradiation. Radiation Oncology, 2017, 12, 151.	1.2	10
45	Internal Motion Estimation by Internal-external Motion Modeling for Lung Cancer Radiotherapy. Scientific Reports, 2018, 8, 3677.	1.6	10
46	A non-rigid point matching method with local topology preservation for accurate bladder dose summation in high dose rate cervical brachytherapy. Physics in Medicine and Biology, 2016, 61, 1217-1237.	1.6	9
47	Benchmarking techniques for stereotactic body radiotherapy for early-stage glottic laryngeal cancer: LINAC-based non-coplanar VMAT vs. Cyberknife planning. Radiation Oncology, 2019, 14, 193.	1.2	9
48	Risk Factors for Fat Necrosis After Stereotactic Partial Breast Irradiation for Early-Stage Breast Cancer in a Phase 1 Clinical Trial. International Journal of Radiation Oncology Biology Physics, 2020, 108, 697-706.	0.4	9
49	Improved swarm intelligence solution in large scale radiation therapy inverse planning. , 2015, , .		8
50	Modeling Elekta VersaHD using the Varian Eclipse treatment planning system for photon beams: A singleâ€institution experience. Journal of Applied Clinical Medical Physics, 2019, 20, 33-42.	0.8	8
51	Deep-learning and radiomics ensemble classifier for false positive reduction in brain metastases segmentation. Physics in Medicine and Biology, 2022, 67, 025004.	1.6	8
52	Deformation vector fields (DVF)-driven image reconstruction for 4D-CBCT. Journal of X-Ray Science and Technology, 2015, 23, 11-23.	0.7	7
53	Online dosimetric evaluation of larynx SBRT: A pilot study to assess the necessity of adaptive replanning. Journal of Applied Clinical Medical Physics, 2017, 18, 157-163.	0.8	7
54	Electron modulated arc therapy (EMAT) using photon MLC for postmastectomy chest wall treatment I: Monte Carlo-based dosimetric characterizations. Physica Medica, 2019, 67, 1-8.	0.4	6

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55	Deep-learning based surface region selection for deep inspiration breath hold (DIBH) monitoring in left breast cancer radiotherapy. Physics in Medicine and Biology, 2018, 63, 245013.	1.6	5
56	Radiation Therapy for Pediatric Brain Tumors using Robotic Radiation Delivery System and Intensity Modulated Proton Therapy. Practical Radiation Oncology, 2020, 10, e173-e182.	1.1	5
57	Saliency-guided deep learning network for automatic tumor bed volume delineation in post-operative breast irradiation. Physics in Medicine and Biology, 2021, 66, 175019.	1.6	5
58	Cardiac dosimetric evaluation of deep inspiration breath-hold level variances using computed tomography scans generated from deformable image registration displacement vectors. Medical Dosimetry, 2016, 41, 22-27.	0.4	4
59	A real-time, soft robotic patient positioning system for maskless head-and-neck cancer radiotherapy: An initial investigation. , 2015, , .		3
60	Prototype volumetric ultrasound tomography image guidance system for prone stereotactic partial breast irradiation: proof-of-concept. Physics in Medicine and Biology, 2018, 63, 055004.	1.6	3
61	A Deformable Image Registration Method for Dose Accumulation between HDR CT Images. Brachytherapy, 2014, 13, S15-S16.	0.2	2
62	Soft-NeuroAdapt: A 3-DOF neuro-adaptive patient pose correction system for frameless and maskless cancer radiotherapy. , 2017, , .		2
63	PODâ€DOSI: A dedicated dosimetry system for GammaPod commissioning and quality assurance. Medical Physics, 2020, 47, 3647-3657.	1.6	2
64	A general algorithm for distributed treatments of multiple brain metastases. Medical Physics, 2021, 48, 1832-1838.	1.6	2
65	Registrationâ€guided deep learning image segmentation for cone beam CTâ€“based online adaptive radiotherapy. Medical Physics, 2022, 49, 5304-5316.	1.6	2
66	Model-based ultrasound tomography: Tissue phantom experiments. Medical Physics, 2005, 32, 2659-2664.	1.6	1
67	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone-beam CT. , 2013, , .		1
68	Vision-based control of a soft robot for maskless head and neck cancer radiotherapy. , 2016, , .		1
69	A How-To Compendium for GammaPod Treatments, Clinical Workflow, and Clinical Program at an Early Adopting Institution. Practical Radiation Oncology, 2022, 12, e177-e182.	1.1	1
70	Dose kernel decomposition for spotâ€based radiotherapy treatment planning. Medical Physics, 2022, 49, 1196-1208.	1.6	1
71	Towards Accurate OAR Dose Accumulation in Cervix Brachytherapy: Applying a Non-Rigid Point Matching Method for Bladder Deformation. Brachytherapy, 2014, 13, S26-S27.	0.2	0
72	TU-C-214-03: Markerless Tumor Tracking via Clustering on Low-Rank Fluoroscopic Images for Image-Guided Lung Cancer Radiotherapy. Medical Physics, 2011, 38, 3756-3756.	1.6	0

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73	Volumetric dose extension for isodose tuning. Medical Physics, 2022, , .	1.6	0
74	In Reply to Hannoun-Levi et al.. International Journal of Radiation Oncology Biology Physics, 2022, 113, 475-477.	0.4	0