Xuejun Gu

List of Publications by Year in Descending Order

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	In Reply to Hannoun-Levi et al.. *International Journal of Radiation Oncology Biology Physics*, **2022**, 113, 475-477	4	
65	Volumetric Modulated Arc Therapy Enabled Total Body Irradiation (VMAT-TBI): Six-year Clinical Experience and Treatment Outcomes. *Transplantation and Cellular Therapy*, **2021**, 28, 113.e1-113.e1		2
64	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	4	2
63	A hierarchical fusion framework to integrate homogeneous and heterogeneous classifiers for medical decision-making. *Knowledge-Based Systems*, **2021**, 212, 106517	7.3	4
62	A general algorithm for distributed treatments of multiple brain metastases. *Medical Physics*, **2021**, 48, 1832-1838	4.4	
61	A web-based brain metastases segmentation and labeling platform for stereotactic radiosurgery. *Medical Physics*, **2020**, 47, 3263-3276	4.4	3
60	POD-DOSI: A dedicated dosimetry system for GammaPod commissioning and quality assurance. *Medical Physics*, **2020**, 47, 3647-3657	4.4	1
59	BIRADS features-oriented semi-supervised deep learning for breast ultrasound computer-aided diagnosis. *Physics in Medicine and Biology*, **2020**, 65, 125005	3.8	17
58	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	4	2
57	Deep learning-based inverse mapping for fluence map prediction. *Physics in Medicine and Biology*, **2020**,	3.8	3
56	Deep learning based medical image segmentation with limited labels. *Physics in Medicine and Biology*, **2020**,	3.8	6
55	Radiation Therapy for Pediatric Brain Tumors using Robotic Radiation Delivery System and Intensity Modulated Proton Therapy. *Practical Radiation Oncology*, **2020**, 10, e173-e182	2.8	2
54	Robustness study of noisy annotation in deep learning based medical image segmentation. *Physics in Medicine and Biology*, **2020**, 65, 175007	3.8	10
53	Surface guided motion management in glottic larynx stereotactic body radiation therapy. *Radiotherapy and Oncology*, **2020**, 153, 236-242	5.3	2
52	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	16.7	19
51	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	4.9	97
50	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	3.8	71

49	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	2.7	3
48	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	4.2	5
47	Modeling Elekta VersaHD using the Varian Eclipse treatment planning system for photon beams: A single-institution experience. *Journal of Applied Clinical Medical Physics*, **2019**, 20, 33-42	2.3	5
46	A recursive ensemble organ segmentation (REOS) framework: application in brain radiotherapy. *Physics in Medicine and Biology*, **2019**, 64, 025015	3.8	14
45	Flattening filter free in intensity-modulated radiotherapy (IMRT) - Theoretical modeling with delivery efficiency analysis. *Medical Physics*, **2019**, 46, 34-44	4.4	8
44	Prototype volumetric ultrasound tomography image guidance system for prone stereotactic partial breast irradiation: proof-of-concept. *Physics in Medicine and Biology*, **2018**, 63, 055004	3.8	2
43	Internal Motion Estimation by Internal-external Motion Modeling for Lung Cancer Radiotherapy. *Scientific Reports*, **2018**, 8, 3677	4.9	4
42	Three-dimensional printer-aided casting of soft, custom silicone boluses (SCSBs) for head and neck radiation therapy. *Practical Radiation Oncology*, **2018**, 8, e167-e174	2.8	18
41	Predicting severe hematologic toxicity from extended-field chemoradiation of para-aortic nodal metastases from cervical cancer. *Practical Radiation Oncology*, **2018**, 8, 13-19	2.8	7
40	Investigating rectal toxicity associated dosimetric features with deformable accumulated rectal surface dose maps for cervical cancer radiotherapy. *Radiation Oncology*, **2018**, 13, 125	4.2	14
39	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	3.8	0
38	An anthropomorphic abdominal phantom for deformable image registration accuracy validation in adaptive radiation therapy. *Medical Physics*, **2017**, 44, 2369-2378	4.4	20
37	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	3.7	23
36	Comprehensive target geometric errors and margin assessment in stereotactic partial breast irradiation. *Radiation Oncology*, **2017**, 12, 151	4.2	7
35	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	2.8	18
34	Inversed-Planned Respiratory Phase Gating in Lung Conformal Radiation Therapy. *International Journal of Radiation Oncology Biology Physics*, **2017**, 99, 317-324	4	8
33	Soft-NeuroAdapt: A 3-DOF neuro-adaptive patient pose correction system for frameless and maskless cancer radiotherapy **2017**,		1
32	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	3.1	14

31	A deep convolutional neural network-based automatic delineation strategy for multiple brain metastases stereotactic radiosurgery. *PLoS ONE*, **2017**, 12, e0185844	3.7	71
30	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	2.3	3
29	Vision-based control of a soft robot for maskless head and neck cancer radiotherapy **2016**,		1
28	Automatic metastatic brain tumor segmentation for stereotactic radiosurgery applications. *Physics in Medicine and Biology*, **2016**, 61, 8440-8461	3.8	12
27	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, 1217-37	3.8	7
26	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, 22-7	1.3	2
25	Deformation vector fields (DVF)-driven image reconstruction for 4D-CBCT. *Journal of X-Ray Science and Technology*, **2015**, 23, 11-23	2.1	4
24	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	3.8	17
23	Improved swarm intelligence solution in large scale radiation therapy inverse planning **2015**,		7
22	Automated landmark-guided deformable image registration. *Physics in Medicine and Biology*, **2015**, 60, 101-16	3.8	15
21	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	2.3	17
20	SPARSE: Seed Point Auto-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, 5324	2.3	10
19	A real-time, soft robotic patient positioning system for maskless head-and-neck cancer radiotherapy: An initial investigation **2015**,		3
18	A Deformable Image Registration Method for Dose Accumulation between HDR CT Images. *Brachytherapy*, **2014**, 13, S15-S16	2.4	2
17	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone-beam CT. *Medical Physics*, **2013**, 40, 101912	4.4	57
16	High-quality four-dimensional cone-beam CT by deforming prior images. *Physics in Medicine and Biology*, **2013**, 58, 231-46	3.8	60
15	Simultaneous motion estimation and image reconstruction (SMEIR) for 4D cone-beam CT **2013**,		1
14	A contour-guided deformable image registration algorithm for adaptive radiotherapy. *Physics in Medicine and Biology*, **2013**, 58, 1889-901	3.8	29

13	GPU-based fast gamma index calculation. *Physics in Medicine and Biology*, **2011**, 56, 1431-41	3.8	37
12	GPU-based fast low-dose cone beam CT reconstruction via total variation. *Journal of X-Ray Science and Technology*, **2011**, 19, 139-54	2.1	33
11	3D tumor localization through real-time volumetric x-ray imaging for lung cancer radiotherapy. *Medical Physics*, **2011**, 38, 2783-94	4.4	44
10	GPU-based fast Monte Carlo simulation for radiotherapy dose calculation. *Physics in Medicine and Biology*, **2011**, 56, 7017-31	3.8	97
9	A GPU-based finite-size pencil beam algorithm with 3D-density correction for radiotherapy dose calculation. *Physics in Medicine and Biology*, **2011**, 56, 3337-50	3.8	26
8	Implementation and evaluation of various demons deformable image registration algorithms on a GPU. *Physics in Medicine and Biology*, **2010**, 55, 207-19	3.8	182
7	Real-time volumetric image reconstruction and 3D tumor localization based on a single x-ray projection image for lung cancer radiotherapy. *Medical Physics*, **2010**, 37, 2822-6	4.4	83
6	GPU-based ultra-fast dose calculation using a finite size pencil beam model. *Physics in Medicine and Biology*, **2009**, 54, 6287-97	3.8	65
5	Model-based ultrasound tomography: tissue phantom experiments. *Medical Physics*, **2005**, 32, 2659-64	4.4	1
4	Differentiation of cysts from solid tumors in the breast with diffuse optical tomography. *Academic Radiology*, **2004**, 11, 53-60	4.3	63
3	Three-dimensional bioluminescence tomography with model-based reconstruction. *Optics Express*, **2004**, 12, 3996-4000	3.3	109
2	A compact, parallel-detection diffuse optical mammography system. *Review of Scientific Instruments*, **2003**, 74, 2836-2842	1.7	16
1	Mesh-based enhancement schemes in diffuse optical tomography. *Medical Physics*, **2003**, 30, 861-9	4.4	30