Weiguo L

List of Publications by Citations

29 papers	780 citations	12 h-index	27 g-index
36 ext. papers	1,055 ext. citations	3.6 avg, IF	4.17 L-index

#	Paper	IF	Citations
29	Fast free-form deformable registration via calculus of variations. *Physics in Medicine and Biology*, **2004**, 49, 3067-87	3.8	210
28	Automatic re-contouring in 4D radiotherapy. *Physics in Medicine and Biology*, **2006**, 51, 1077-99	3.8	116
27	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
26	A deep convolutional neural network-based automatic delineation strategy for multiple brain metastases stereotactic radiosurgery. *PLoS ONE*, **2017**, 12, e0185844	3.7	71
25	Three-dimensional dose prediction for lung IMRT patients with deep neural networks: robust learning from heterogeneous beam configurations. *Medical Physics*, **2019**, 46, 3679-3691	4.4	63
24	A non-voxel-based broad-beam (NVBB) framework for IMRT treatment planning. *Physics in Medicine and Biology*, **2010**, 55, 7175-210	3.8	37
23	Ultrafast convolution/superposition using tabulated and exponential kernels on GPU. *Medical Physics*, **2011**, 38, 1150-61	4.4	30
22	Accurate real time localization tracking in a clinical environment using Bluetooth Low Energy and deep learning. *PLoS ONE*, **2018**, 13, e0205392	3.7	29
21	Fluence-convolution broad-beam (FCBB) dose calculation. *Physics in Medicine and Biology*, **2010**, 55, 7211-29	3.8	18
20	BIRADS features-oriented semi-supervised deep learning for breast ultrasound computer-aided diagnosis. *Physics in Medicine and Biology*, **2020**, 65, 125005	3.8	17
19	Technical Note: A feasibility study on deep learning-based radiotherapy dose calculation. *Medical Physics*, **2020**, 47, 753-758	4.4	15
18	A recursive ensemble organ segmentation (REOS) framework: application in brain radiotherapy. *Physics in Medicine and Biology*, **2019**, 64, 025015	3.8	14
17	Robustness study of noisy annotation in deep learning based medical image segmentation. *Physics in Medicine and Biology*, **2020**, 65, 175007	3.8	10
16	Flattening filter free in intensity-modulated radiotherapy (IMRT) - Theoretical modeling with delivery efficiency analysis. *Medical Physics*, **2019**, 46, 34-44	4.4	8
15	Deep learning based medical image segmentation with limited labels. *Physics in Medicine and Biology*, **2020**,	3.8	6
14	Continuous leaf optimization for IMRT leaf sequencing. *Medical Physics*, **2016**, 43, 5403	4.4	6
13	Boosting radiotherapy dose calculation accuracy with deep learning. *Journal of Applied Clinical Medical Physics*, **2020**, 21, 149-159	2.3	4

List of Publications

12	Individualized 3D Dose Distribution Prediction Using Deep Learning. *Lecture Notes in Computer Science*, **2019**, 110-118	0.9	4
11	Mid-range probing-towards range-guided particle therapy. *Physics in Medicine and Biology*, **2018**, 63, 13NT01	3.8	4
10	A web-based brain metastases segmentation and labeling platform for stereotactic radiosurgery. *Medical Physics*, **2020**, 47, 3263-3276	4.4	3
9	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
8	Deep learning-based inverse mapping for fluence map prediction. *Physics in Medicine and Biology*, **2020**,	3.8	3
7	Novel On-line PET Imaging for Intra-Beam Range Verification and Delivery Optimization: A Simulation Feasibility Study. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2020**, 4, 212-217	4.2	3
6	A Novel Markerless Lung Tumor-Tracking Method Using Treatment MV Beam Imaging. *Applied Sciences (Switzerland)*, **2018**, 8, 2525	2.6	3
5	A feasibility study on deep learning-based individualized 3D dose distribution prediction. *Medical Physics*, **2021**, 48, 4438-4447	4.4	3
4	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
3	Convolution-based modified Clarkson integration (CMCI) for electron cutout factor calculation. *Journal of Applied Clinical Medical Physics*, **2018**, 19, 128-136	2.3	1
2	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
1	A general algorithm for distributed treatments of multiple brain metastases. *Medical Physics*, **2021**, 48, 1832-1838	4.4	