Xiaofeng Yang

List of Publications by Year
in descending order

297 papers	5,914 citations	101543 36 h-index	123424 61 g-index
297 all docs	297 docs citations	297 times ranked	4889 citing authors

#	Article	IF	Citations
1	Artificial Intelligence in Radiation Therapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 158-181.	3.7	4
2	Dosimetric Uncertainties in Dominant Intraprostatic Lesion Simultaneous Boost Using Intensity Modulated Proton Therapy. Advances in Radiation Oncology, 2022, 7, 100826.	1.2	5
3	Learning-based synthetic dual energy CT imaging from single energy CT for stopping power ratio calculation in proton radiation therapy. British Journal of Radiology, 2022, 95, 20210644.	2.2	9
4	Multi-organ auto-delineation in head-and-neck MRI for radiation therapy using regional convolutional neural network. Physics in Medicine and Biology, 2022, 67, 025006.	3.0	11
5	Synthesizing high‐resolution magnetic resonance imaging using parallel cycle‐consistent generative adversarial networks for fast magnetic resonance imaging. Medical Physics, 2022, 49, 357-369.	3.0	5
6	Machine learning for tracking planned versus delivered dose in pancreas SBRT.. Journal of Clinical Oncology, 2022, 40, 561-561.	1.6	0
7	Onboard cone‐beam CT‐based replan evaluation for head and neck proton therapy. Journal of Applied Clinical Medical Physics, 2022, 23, e13550.	1.9	9
8	Artificial intelligence in imaging of coronary artery disease: current applications and future perspective. Chinese Journal of Academic Radiology, 2022, 5, 10-19.	0.6	0
9	Cascaded mutual enhancing networks for brain tumor subregion segmentation in multiparametric MRI. Physics in Medicine and Biology, 2022, 67, 085015.	3.0	5
10	Review of Machine Learning in Lung Ultrasound in COVID-19 Pandemic. Journal of Imaging, 2022, 8, 65.	3.0	29
11	Magnetic resonance imaging contrast enhancement synthesis using cascade networks with local supervision. Medical Physics, 2022, 49, 3278-3287.	3.0	13
12	Automatic inverse treatment planning of Gamma Knife radiosurgery via deep reinforcement learning. Medical Physics, 2022, 49, 2877-2889.	3.0	2
13	Longitudinal Changes in U.S. Parameters of Neurovascular Bundles Suggest Mechanism for Radiation-Induced Erectile Dysfunction. Advances in Radiation Oncology, 2022, 7, 100946.	1.2	4
14	Brain multi-parametric MRI tumor subregion segmentation via hierarchical substructural activation network. , 2022, , .		0
15	Deep-learning-based modulated radiotherapy dose plan prediction with integration of non-modulated dose distribution. , 2022, , .		0
16	Automatic breast ultrasound tumor segmentation via one-stage hierarchical target activation network. , 2022, , .		1
17	Longitudinal deformable MRI registration via dual-feasible deep learning-based framework. , 2022, , .		0
18	Automated CT segmentation for rapid assessment of anatomical variations in head-and-neck radiation therapy. , 2022, , .		2

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19	Deep-learning-based markerless tumor localization using 2D KV/MV image. , 2022, , .		0
20	Male pelvic multi-organ segmentation using V-transformer network. , 2022, , .		1
21	Neurovascular bundles segmentation on MRI via hierarchical object activation network. , 2022, , .		0
22	CVT-Vnet: convolutional-transformer model for head and neck multi-organ segmentation. , 2022, , .		5
23	Deep-learning-based extraprostatic nodal lesion segmentation on 18F-fluciclovine PET. , 2022, , .		1
24	Fast 3D imaging via deep learning for deep inspiration breath-hold lung radiotherapy. , 2022, , .		0
25	A deep learning approach to transform two orthogonal X-ray images to volumetric images for image-guided proton therapy. , 2022, , .		0
26	Deformable histopathology-MRI image registration using deep learning. , 2022, , .		0
27	Deep learning-based contrast-enhanced MRI using cascade networks with local supervision. , 2022, , .		0
28	Using a neural network to enhance dual-energy computed tomography parametric mapping for proton therapy. , 2022, , .		1
29	Echocardiographic image segmentation using mutual boosting network. , 2022, , .		0
30	CT-based volumetric strain imaging via a deep learning registration framework. , 2022, , .		0
31	Liver motion tracking in ultrasound images using attention guided mask R-CNN with long-short-term-memory network. , 2022, , .		3
32	An unsupervised patient-specific metal artifact reduction framework for proton therapy. , 2022, , .		3
33	Deep learning based volume-to-slice MRI registration via intentional overfitting. , 2022, , .		0
34	Using orthogonal 2D kV images for target localization via central matching networks. , 2022, , .		0
35	CBCT lung multi-OAR segmentation via hierarchical network. , 2022, , .		0
36	High-resolution MR imaging using self-supervised parallel network. , 2022, , .		0

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37	Deep learning-based longitudinal CT registration for anatomy variation assessment during radiotherapy. , 2022, , .		0
38	Mutual enhancing learning-based automatic segmentation of CT cardiac substructure. Physics in Medicine and Biology, 2022, 67, 105008.	3.0	9
39	Cross-domain unsupervised pedestrian re-identification based on multi-view decomposition. Multimedia Tools and Applications, 2022, 81, 39387-39408.	3.9	1
40	MRIâ€•based prostate and dominant lesion segmentation using cascaded scoring convolutional neural network. Medical Physics, 2022, 49, 5216-5224.	3.0	7
41	Dual-energy CT based mass density and relative stopping power estimation for proton therapy using physics-informed deep learning. Physics in Medicine and Biology, 2022, 67, 115010.	3.0	14
42	Generative adversarial networks for medical image synthesis. , 2022, , 105-128.		3
43	The viscoelastic characteristics of in-vitro carotid plaque by Kelvin-Voigt fractional derivative modeling. Journal of Biomechanics, 2022, 141, 111210.	2.1	2
44	Negative Resistance Converter Traction Power System for Reducing Rail Potential and Stray Current in the Urban Rail Transit. IEEE Transactions on Transportation Electrification, 2021, 7, 225-239.	7.8	31
45	Biomechanically constrained non-rigid MR-TRUS prostate registration using deep learning based 3D point cloud matching. Medical Image Analysis, 2021, 67, 101845.	11.6	33
46	Deformable MRâ€•CBCT prostate registration using biomechanically constrained deep learning networks. Medical Physics, 2021, 48, 253-263.	3.0	27
47	Dynamic Changes of Brain Networks during Working Memory Tasks in Schizophrenia. Neuroscience, 2021, 453, 187-205.	2.3	7
48	A review on medical imaging synthesis using deep learning and its clinical applications. Journal of Applied Clinical Medical Physics, 2021, 22, 11-36.	1.9	139
49	Automatic quantification of myocardium and pericardial fat from coronary computed tomography angiography: a multicenter study. European Radiology, 2021, 31, 3826-3836.	4.5	6
50	Breast tumor segmentation in 3D automatic breast ultrasound using Mask scoring Râ€•CNN. Medical Physics, 2021, 48, 204-214.	3.0	68
51	Principal Component Analysis in Projection and Image Domainsâ€"Another Form of Spectral Imaging in Photon-Counting CT. IEEE Transactions on Biomedical Engineering, 2021, 68, 1074-1083.	4.2	9
52	MRI classification using semantic random forest with auto-context model. Quantitative Imaging in Medicine and Surgery, 2021, 11, 4753-4766.	2.0	1
53	Learning-Based Stopping Power Mapping on Dual-Energy CT for Proton Radiation Therapy. International Journal of Particle Therapy, 2021, 7, 46-60.	1.8	5
54	Radiation dose prediction for pancreatic stereotactic body radiotherapy via convention neural networks. , 2021, , .		1

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55	Mask R-CNN-based tumor localization and segmentation in 4D Lung CT. , 2021, , .		2
56	Thyroid gland delineation in noncontrast-enhanced CTs using deep convolutional neural networks. Physics in Medicine and Biology, 2021, 66, 055007.	3.0	3
57	Head-and-neck organs-at-risk auto-delineation using dual pyramid networks for CBCT-guided adaptive radiotherapy. Physics in Medicine and Biology, 2021, 66, 045021.	3.0	29
58	A novel proton counting detector and method for the validation of tissue and implant material maps for Monte Carlo dose calculation. Physics in Medicine and Biology, 2021, 66, 045003.	3.0	13
59	Prostate and tumor segmentation on PET/CT using Dual Mask R-CNN. , 2021, , .		3
60	Multi-organ segmentation of male pelvic CT using dual attention networks. , 2021, , .		1
61	Synthetic dual-energy CT for MRI-only based proton therapy treatment planning using label-GAN. Physics in Medicine and Biology, 2021, 66, 065014.	3.0	18
62	Male pelvic CT multi-organ segmentation using synthetic MRI-aided dual pyramid networks. Physics in Medicine and Biology, 2021, 66, 085007.	3.0	9
63	Echocardiographic image multiâ€structure segmentation using Cardiacâ€SegNet. Medical Physics, 2021, 48, 2426-2437.	3.0	9
64	Automatic delineation of cardiac substructures using a regionâ€based fully convolutional network. Medical Physics, 2021, 48, 2867-2876.	3.0	20
65	High-frequencyÂultrasound inÂclinicalÂdermatology: a review. Ultrasound Journal, 2021, 13, 24.	3.3	41
66	Male pelvic multiâ€organ segmentation on transrectal ultrasound using anchorâ€free mask CNN. Medical Physics, 2021, 48, 3055-3064.	3.0	11
67	A review of deep learning based methods for medical image multi-organ segmentation. Physica Medica, 2021, 85, 107-122.	0.7	103
68	Head and neck multi-organ segmentation on dual-energy CT using dual pyramid convolutional neural networks. Physics in Medicine and Biology, 2021, 66, 115008.	3.0	9
69	Artificial intelligence in tumor subregion analysis based on medical imaging: A review. Journal of Applied Clinical Medical Physics, 2021, 22, 10-26.	1.9	15
70	Selfâ€supervised learning for accelerated 3D highâ€resolution ultrasound imaging. Medical Physics, 2021, 48, 3916-3926.	3.0	7
71	Learning-based dose prediction for pancreatic stereotactic body radiation therapy using dual pyramid adversarial network. Physics in Medicine and Biology, 2021, 66, 125019.	3.0	12
72	Knowledgeâ€based radiation treatment planning: A dataâ€driven method survey. Journal of Applied Clinical Medical Physics, 2021, 22, 16-44.	1.9	43

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73	Fully automated segmentation of brain tumor from multiparametric MRI using 3D context deep supervised U‑Net. Medical Physics, 2021, 48, 4365-4374.	3.0	27
74	High through-plane resolution CT imaging with self-supervised deep learning. Physics in Medicine and Biology, 2021, 66, 145013.	3.0	8
75	RAHC_GAN: A Data Augmentation Method for Tomato Leaf Disease Recognition. Symmetry, 2021, 13, 1597.	2.2	5
76	Artificial Intelligence in Quantitative Ultrasound Imaging. Journal of Ultrasound in Medicine, 2021, , .	1.7	2
77	Automated delineation of head and neck organs at risk using synthetic MRI‑aided mask scoring regional convolutional neural network. Medical Physics, 2021, 48, 5862-5873.	3.0	21
78	On the Conditioning of Spectral Channelization (Energy Binning) and Its Impact on Multi-Material Decomposition Based Spectral Imaging in Photon-Counting CT. IEEE Transactions on Biomedical Engineering, 2021, 68, 2678-2688.	4.2	11
79	Lung tumor segmentation in 4D CT images using motion convolutional neural networks. Medical Physics, 2021, 48, 7141-7153.	3.0	7
80	Catheter position prediction using deep‑learning‑based multi‑atlas registration for high‑dose rate prostate brachytherapy. Medical Physics, 2021, 48, 7261-7270.	3.0	3
81	Implementation of a Knowledge-Based Treatment Planning Model for Cardiac-Sparing Lung Radiation Therapy. Advances in Radiation Oncology, 2021, 6, 100745.	1.2	4
82	Numerical analysis of the aerothermodynamic behavior of a Hyperloop in choked flow. Energy, 2021, 237, 121427.	8.8	14
83	Deep learning-based thoracic CBCT correction with histogram matching. Biomedical Physics and Engineering Express, 2021, 7, 065040.	1.2	9
84	Synthetic CT‑aided multiorgan segmentation for CBCT‑guided adaptive pancreatic radiotherapy. Medical Physics, 2021, 48, 7063-7073.	3.0	8
85	Deep learning‑based motion tracking using ultrasound images. Medical Physics, 2021, 48, 7747-7756.	3.0	12
86	Prostate and dominant intraprostatic lesion segmentation on PET/CT using cascaded regional-net. Physics in Medicine and Biology, 2021, 66, 245006.	3.0	10
87	A learning-based automatic segmentation and quantification method on left ventricle in gated myocardial perfusion SPECT imaging: A feasibility study. Journal of Nuclear Cardiology, 2020, 27, 976-987.	2.1	72
88	Strain elastography as an early predictor of long-term prognosis in patients with locally advanced cervical cancers treated with concurrent chemoradiotherapy. European Radiology, 2020, 30, 471-481.	4.5	6
89	Radiomics analysis using contrast-enhanced CT for preoperative prediction of occult peritoneal metastasis in advanced gastric cancer. European Radiology, 2020, 30, 239-246.	4.5	59
90	A planning study of focal dose escalations to multiparametric MRI-defined dominant intraprostatic lesions in prostate proton radiation therapy. British Journal of Radiology, 2020, 93, 20190845.	2.2	15

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91	Deep learning-based attenuation correction in the absence of structural information for whole-body positron emission tomography imaging. Physics in Medicine and Biology, 2020, 65, 055011.	3.0	97
92	Male pelvic multi-organ segmentation aided by CBCT-based synthetic MRI. Physics in Medicine and Biology, 2020, 65, 035013.	3.0	58
93	Impact of Regional Nodal Irradiation and Hypofractionated Whole-Breast Radiation on Long-Term Breast Retraction and Poor Cosmetic Outcome in Breast Cancer Survivors. Clinical Breast Cancer, 2020, 20, e75-e81.	2.4	7
94	Recognizing Image Semantic Information Through Multi-Feature Fusion and SSAE-Based Deep Network. Journal of Medical Systems, 2020, 44, 46.	3.6	5
95	CT prostate segmentation based on synthetic MRI–aided deep attention fully convolution network. Medical Physics, 2020, 47, 530-540.	3.0	66
96	Multimodal MRI synthesis using unified generative adversarial networks. Medical Physics, 2020, 47, 6343-6354.	3.0	37
97	Ultrasound Elastography for Lung Disease Assessment. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2249-2257.	3.0	23
98	A Passive Soft-Switching Snubber With Energy Active Recovery Circuit for PWM Inverters. IEEE Access, 2020, 8, 100031-100043.	4.2	9
99	Statistical and Texture Descriptors of Symptomatic Plantar Fasciitis Using Ultrasound Shear Wave Elastography. IEEE Access, 2020, 8, 120146-120159.	4.2	1
100	Brain tumor segmentation using 3D Mask R-CNN for dynamic susceptibility contrast enhanced perfusion imaging. Physics in Medicine and Biology, 2020, 65, 185009.	3.0	33
101	Automated left ventricular myocardium segmentation using 3D deeply supervised attention U–net for coronary computed tomography angiography; CT myocardium segmentation. Medical Physics, 2020, 47, 1775-1785.	3.0	23
102	Head and neck multi–organ auto–segmentation on CT images aided by synthetic MRI. Medical Physics, 2020, 47, 4294-4302.	3.0	31
103	CT–based multi–organ segmentation using a 3D self–attention U–net network for pancreatic radiotherapy. Medical Physics, 2020, 47, 4316-4324.	3.0	35
104	Machine learning in quantitative PET: A review of attenuation correction and low-count image reconstruction methods. Physica Medica, 2020, 76, 294-306.	0.7	67
105	Improved Phase Shift Control for SiC-MOSFET Based Resonant Switched-Capacitor Converter with Parasitics Consideration. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	11
106	Automatic multi–catheter detection using deeply supervised convolutional neural network in MRI–guided HDR prostate brachytherapy. Medical Physics, 2020, 47, 4115-4124.	3.0	24
107	Solutions to ramp-hold dynamic oscillation indentation tests for assessing the viscoelasticity of hydrogel by Kelvin-Voigt fractional derivative modeling. Mechanics of Materials, 2020, 148, 103431.	3.2	2
108	Analytical Low-Dose CBCT Reconstruction Using Non-local Total Variation Regularization for Image Guided Radiation Therapy. Frontiers in Oncology, 2020, 10, 242.	2.8	3

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109	Automatic segmentation and quantification of epicardial adipose tissue from coronary computed tomography angiography. Physics in Medicine and Biology, 2020, 65, 095012.	3.0	23
110	Multi–needle Localization with Attention U–Net in US–guided HDR Prostate Brachytherapy. Medical Physics, 2020, 47, 2735-2745.	3.0	30
111	CBCT–based synthetic CT generation using deep–attention cycleGAN for pancreatic adaptive radiotherapy. Medical Physics, 2020, 47, 2472-2483.	3.0	113
112	DC Autotransformer-Based Traction Power Supply for Urban Transit Rail Potential and Stray Current Mitigation. IEEE Transactions on Transportation Electrification, 2020, 6, 762-773.	7.8	37
113	Deep learning in medical image registration: a review. Physics in Medicine and Biology, 2020, 65, 20TR01.	3.0	330
114	Cone–beam CT–derived relative stopping power map generation via deep learning for proton radiotherapy. Medical Physics, 2020, 47, 4416-4427.	3.0	21
115	4D-CT deformable image registration using multiscale unsupervised deep learning. Physics in Medicine and Biology, 2020, 65, 085003.	3.0	51
116	Multi-Needle Detection in 3D Ultrasound Images Using Unsupervised Order-Graph Regularized Sparse Dictionary Learning. IEEE Transactions on Medical Imaging, 2020, 39, 2302-2315.	8.9	31
117	LungRegNet: An unsupervised deformable image registration method for 4D–CT lung. Medical Physics, 2020, 47, 1763-1774.	3.0	66
118	A preliminary study on a multiresolution–level inverse planning approach for Gamma Knife radiosurgery. Medical Physics, 2020, 47, 1523-1532.	3.0	13
119	Label-driven magnetic resonance imaging (MRI)-transrectal ultrasound (TRUS) registration using weakly supervised learning for MRI-guided prostate radiotherapy. Physics in Medicine and Biology, 2020, 65, 135002.	3.0	34
120	Pelvic multi–organ segmentation on cone–beam CT for prostate adaptive radiotherapy. Medical Physics, 2020, 47, 3415-3422.	3.0	37
121	Performance Evaluations of DCAT Position for the Floating DCAT System in DC Railways. Lecture Notes in Electrical Engineering, 2020, , 557-567.	0.4	1
122	Automatic multi-needle localization in ultrasound images using large margin mask RCNN for ultrasound-guided prostate brachytherapy. Physics in Medicine and Biology, 2020, 65, 205003.	3.0	18
123	Intensity non-uniformity correction in MR imaging using residual cycle generative adversarial network. Physics in Medicine and Biology, 2020, 65, 215025.	3.0	27
124	Deep learning-based real-time volumetric imaging for lung stereotactic body radiation therapy: a proof of concept study. Physics in Medicine and Biology, 2020, 65, 235003.	3.0	21
125	High quality proton portal imaging using deep learning for proton radiation therapy: a phantom study. Biomedical Physics and Engineering Express, 2020, 6, 035029.	1.2	5
126	PET attenuation correction (AC) using non-AC PET-based synthetic CT. , 2020, , .		3

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127	Synthetic CT-aided MRI-CT image registration for head and neck radiotherapy. , 2020, , .		11
128	Deep learning-based breast tumor detection and segmentation in 3D ultrasound image. , 2020, , .		5
129	Low dose PET imaging with CT-aided cycle-consistent adversarial networks. , 2020, , .		2
130	Deep attentional GAN-based high-resolution ultrasound imaging. , 2020, , .		7
131	Optimization of basis material selection and energy binning in three material decomposition for spectral imaging without contrast agents in photon-counting CT. , 2020, , .		6
132	Organ-at-Risk (OAR) segmentation in head and neck CT using U-RCNN. , 2020, , .		5
133	3D thyroid segmentation in CT using self-attention convolutional neural network. , 2020, , .		1
134	Multi-modality MRI arbitrary transformation using unified generative adversarial networks. , 2020, , .		2
135	Automatic detection of brain metastases using 3D mask R-CNN for stereotactic radiosurgery. , 2020, , .		3
136	Mask R-CNN based coronary artery segmentation in coronary computed tomography angiography. , 2020, , .		3
137	Weekly supervised convolutional long short-term memory neural networks for MR-TRUS registration. , 2020, , .		2
138	Breast cancer patient reported outcomes, depression, and objective measures of breast cosmesis.. Journal of Clinical Oncology, 2020, 38, 569-569.	1.6	1
139	Face Recognition Algorithm Based on Weighted Intensity PCNN. , 2020, , .		1
140	Negative Impedance Converter for Reducing Rail Potential in Urban Rail Transit. Lecture Notes in Electrical Engineering, 2020, , 569-577.	0.4	0
141	Multiparametric MRI-guided high-dose-rate prostate brachytherapy with focal dose boost to dominant intraprostatic lesions. , 2020, , .		2
142	Classification of lesion specific myocardial ischemia using cardiac computed tomography radiomics. , 2020, , .		1
143	Deep learning-based relative stopping power mapping generation with cone-beam CT in proton radiation therapy. , 2020, , .		0
144	CT-based pancreatic multi-organ segmentation by a 3D deep attention U-net network. , 2020, , .		0

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145	Stopping power map estimation from dual-energy CT using deep convolutional neural network. , 2020, , .		0
146	Attenuation correction for PET/MRI using MRI-based pseudo CT. , 2020, , .		1
147	Automatic brain arteriovenous malformations segmentation on contrast CT images using combined region proposal network and V-Net. , 2020, , .		0
148	Deep learning-based low dose CT imaging. , 2020, , .		1
149	Multi-organ segmentation in head and neck MRI using U-Faster-RCNN. , 2020, , .		3
150	Automated coronary artery segmentation in Coronary Computed Tomography Angiography (CCTA) using deep learning neural networks. , 2020, , .		8
151	Benign and malignant thyroid classification using computed tomography radiomics. , 2020, , .		1
152	Multi-needle detection in 3D ultrasound images with sparse dictionary learning. , 2020, , .		2
153	Weakly supervised multi-needle detection in 3D ultrasound images with bidirectional convolutional sparse coding. , 2020, , .		3
154	Wavelet-based protoacoustic signal denoising for proton range verification. , 2020, , .		3
155	MRI-based treatment planning for brain stereotactic radiosurgery: Dosimetric validation of a learning-based pseudo-CT generation method. Medical Dosimetry, 2019, 44, 199-204.	0.9	51
156	Virtual Impedance Sliding Mode Control-Based MMC Circulating Current Suppressing Strategy. IEEE Access, 2019, 7, 26229-26240.	4.2	16
157	MRI-based treatment planning for liver stereotactic body radiotherapy: validation of a deep learning-based synthetic CT generation method. British Journal of Radiology, 2019, 92, 20190067.	2.2	52
158	Machine-learning based classification of glioblastoma using delta-radiomic features derived from dynamic susceptibility contrast enhanced magnetic resonance images. Quantitative Imaging in Medicine and Surgery, 2019, 9, 1201-1213.	2.0	38
159	Deep morphology aided diagnosis network for segmentation of carotid artery vessel wall and diagnosis of carotid atherosclerosis on black‑blood vessel wall MRI. Medical Physics, 2019, 46, 5544-5561.	3.0	31
160	Machine Learning Assisted MRI Characterization for Diagnosis of Neonatal Acute Bilirubin Encephalopathy. Frontiers in Neurology, 2019, 10, 1018.	2.4	22
161	Whole-body PET estimation from low count statistics using cycle-consistent generative adversarial networks. Physics in Medicine and Biology, 2019, 64, 215017.	3.0	64
162	Full axillary lymph node dissection and increased breast epidermal thickness 1 year after radiation therapy for breast cancer. Journal of Surgical Oncology, 2019, 120, 1397-1403.	1.7	3

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163	Synthetic MRI-aided multi-organ segmentation on male pelvic CT using cycle consistent deep attention network. Radiotherapy and Oncology, 2019, 141, 192-199.	0.6	97
164	Evaluation of a deep learning-based pelvic synthetic CT generation technique for MRI-based prostate proton treatment planning. Physics in Medicine and Biology, 2019, 64, 205022.	3.0	45
165	Synthetic CT generation from non-attenuation corrected PET images for whole-body PET imaging. Physics in Medicine and Biology, 2019, 64, 215016.	3.0	81
166	Optimal virtual monoenergetic image in â€œTwinBeamâ€•dualâ€energy <scp>CT</scp> for organsâ€atâ€risk delineation based on contrastâ€noiseâ€ratio in headâ€andâ€neck radiotherapy. Journal of Applied Clinical Medical Physics, 2019, 20, 121-128.	1.9	21
167	MRIâ€only based synthetic CT generation using dense cycle consistent generative adversarial networks. Medical Physics, 2019, 46, 3565-3581.	3.0	181
168	Paired cycleâ€GANâ€based image correction for quantitative coneâ€beam computed tomography. Medical Physics, 2019, 46, 3998-4009.	3.0	164
169	Revealing hemodynamic heterogeneity of gliomas based on signal profile features of dynamic susceptibility contrast-enhanced MRI. NeuroImage: Clinical, 2019, 23, 101864.	2.7	8
170	MRI-based treatment planning for proton radiotherapy: dosimetric validation of a deep learning-based liver synthetic CT generation method. Physics in Medicine and Biology, 2019, 64, 145015.	3.0	53
171	Learningâ€based automatic segmentation of arteriovenous malformations on contrast CT images in brain stereotactic radiosurgery. Medical Physics, 2019, 46, 3133-3141.	3.0	39
172	Ultrasound prostate segmentation based on multidirectional deeply supervised Vâ€Net. Medical Physics, 2019, 46, 3194-3206.	3.0	96
173	Dosimetric study on learning-based cone-beam CT correction in adaptive radiation therapy. Medical Dosimetry, 2019, 44, e71-e79.	0.9	20
174	Dose evaluation of MRI-based synthetic CT generated using a machine learning method for prostate cancer radiotherapy. Medical Dosimetry, 2019, 44, e64-e70.	0.9	30
175	MRI-based synthetic CT generation using semantic random forest with iterative refinement. Physics in Medicine and Biology, 2019, 64, 085001.	3.0	31
176	Multiparametric MRI-guided dose boost to dominant intraprostatic lesions in CT-based High-dose-rate prostate brachytherapy. British Journal of Radiology, 2019, 92, 20190089.	2.2	20
177	Deeply supervised 3D fully convolutional networks with group dilated convolution for automatic <scp>MRI</scp> prostate segmentation. Medical Physics, 2019, 46, 1707-1718.	3.0	151
178	Automatic multiorgan segmentation in thorax <scp>CT</scp> images using Uâ€netâ€<scp>GAN</scp>. Medical Physics, 2019, 46, 2157-2168.	3.0	200
179	Analysis and Control of Improved MMC With Symmetrical Super Capacitor Energy Storage System in EER Application. , 2019, , .		4
180	Operation and Control of a Seven-Level V-Clamp Multilevel Converter. Energies, 2019, 12, 4761.	3.1	4

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181	Backflow Power Optimization of DAB with Gradient Descent Algorithm Based Extended-Phase-Shift Control in EER Application. , 2019, , .		7
182	Improved Modular Multilevel Converter with Symmetrical Integrated Super Capacitor Energy Storage System for Electrical Energy Router Application. , 2019, , .		5
183	Analysis of Hybrid SiC IGBT Based Resonant Switched Capacitor Converter with Circuit Parasitics Consideration. , 2019, , .		1
184	A Multi-feature Fusion and SSAE-Based Deep Network for Image Semantic Recognition. , 2019, , .		1
185	Learningâ€based <scp>CBCT</scp> correction using alternating random forest based on autoâ€context model. Medical Physics, 2019, 46, 601-618.	3.0	36
186	MRI-based attenuation correction for brain PET/MRI based on anatomic signature and machine learning. Physics in Medicine and Biology, 2019, 64, 025001.	3.0	40
187	CBCT-Based Synthetic MRI Generation for CBCT-Guided Adaptive Radiotherapy. Lecture Notes in Computer Science, 2019, , 154-161.	1.3	7
188	4D-CT Deformable Image Registration Using an Unsupervised Deep Convolutional Neural Network. Lecture Notes in Computer Science, 2019, , 26-33.	1.3	9
189	Deep learning-based image quality improvement for low-dose computed tomography simulation in radiation therapy. Journal of Medical Imaging, 2019, 6, 1.	1.5	23
190	Image quality improvement in cone-beam CT using deep learning. , 2019, , .		6
191	Automated prostate segmentation of volumetric CT images using 3D deeply supervised dilated FCN. , 2019, , .		12
192	MRI-based synthetic CT generation using deep convolutional neural network. , 2019, , .		8
193	Automatic MRI prostate segmentation using 3D deeply supervised FCN with concatenated atrous convolution. , 2019, , .		7
194	Learning-based automatic segmentation on arteriovenous malformations from contract-enhanced CT images. , 2019, , .		1
195	Ultrasound prostate segmentation based on 3D V-Net with deep supervision. , 2019, , .		5
196	Machine-learning-based classification of Glioblastoma using MRI-based radiomic features. , 2019, , .		1
197	MRI-Based Proton Treatment Planning for Base of Skull Tumors. International Journal of Particle Therapy, 2019, 6, 12-25.	1.8	24
198	MRI-based pseudo CT generation using classification and regression random forest. , 2019, , .		0

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199	Brain MRI classification based on machine learning framework with auto-context model. , 2019, , .		0
200	Spot decomposition in a novel pencil beam scanning proton computed tomography. , 2019, , .		0
201	A learning-based automatic segmentation method on left ventricle in SPECT imaging. , 2019, , .		0
202	Machine-learning based classification of glioblastoma using dynamic susceptibility enhanced MR image. , 2019, , .		2
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