Xiaofeng Yang

List of Publications by Year
in descending order

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297 papers	5,914 citations	101384 36 h-index	123241 61 g-index
297 all docs	297 docs citations	297 times ranked	4889 citing authors

#	Article	IF	Citations
1	Deep learning in medical image registration: a review. Physics in Medicine and Biology, 2020, 65, 20TR01.	1.6	330
2	Automatic multiorgan segmentation in thorax <scp>CT</scp> images using Uâ€netâ€<scp>GAN</scp>. Medical Physics, 2019, 46, 2157-2168.	1.6	200
3	MRIâ€only based synthetic CT generation using dense cycle consistent generative adversarial networks. Medical Physics, 2019, 46, 3565-3581.	1.6	181
4	Paired cycleâ€GANâ€based image correction for quantitative coneâ€beam computed tomography. Medical Physics, 2019, 46, 3998-4009.	1.6	164
5	Deeply supervised 3D fully convolutional networks with group dilated convolution for automatic <scp>MRI</scp> prostate segmentation. Medical Physics, 2019, 46, 1707-1718.	1.6	151
6	Ultrasound GLCM texture analysis of radiationâ€induced parotidâ€gland injury in headâ€andâ€neck cancer radiotherapy: An in vivo study of late toxicity. Medical Physics, 2012, 39, 5732-5739.	1.6	139
7	A review on medical imaging synthesis using deep learning and its clinical applications. Journal of Applied Clinical Medical Physics, 2021, 22, 11-36.	0.8	139
8	CBCTâ€based synthetic CT generation using deepâ€attention cycleGAN for pancreatic adaptive radiotherapy. Medical Physics, 2020, 47, 2472-2483.	1.6	113
9	A review of deep learning based methods for medical image multi-organ segmentation. Physica Medica, 2021, 85, 107-122.	0.4	103
10	Synthetic MRI-aided multi-organ segmentation on male pelvic CT using cycle consistent deep attention network. Radiotherapy and Oncology, 2019, 141, 192-199.	0.3	97
11	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.	1.6	97
12	Ultrasound prostate segmentation based on multidirectional deeply supervised Vâ€Net. Medical Physics, 2019, 46, 3194-3206.	1.6	96
13	Automated Segmentation of the Parotid Gland Based on Atlas Registration and Machine Learning: A Longitudinal MRI Study in Head-and-Neck Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2014, 90, 1225-1233.	0.4	95
14	Synthetic CT generation from non-attenuation corrected PET images for whole-body PET imaging. Physics in Medicine and Biology, 2019, 64, 215016.	1.6	81
15	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.	1.4	72
16	Breast tumor segmentation in 3D automatic breast ultrasound using Mask scoring Râ€CNN. Medical Physics, 2021, 48, 204-214.	1.6	68
17	Machine learning in quantitative PET: A review of attenuation correction and low-count image reconstruction methods. Physica Medica, 2020, 76, 294-306.	0.4	67
18	CT prostate segmentation based on synthetic MRIâ€aided deep attention fully convolution network. Medical Physics, 2020, 47, 530-540.	1.6	66

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19	LungRegNet: An unsupervised deformable image registration method for 4Dâ€CT lung. Medical Physics, 2020, 47, 1763-1774.	1.6	66
20	Whole-body PET estimation from low count statistics using cycle-consistent generative adversarial networks. Physics in Medicine and Biology, 2019, 64, 215017.	1.6	64
21	Radiomics analysis using contrast-enhanced CT for preoperative prediction of occult peritoneal metastasis in advanced gastric cancer. European Radiology, 2020, 30, 239-246.	2.3	59
22	Male pelvic multi-organ segmentation aided by CBCT-based synthetic MRI. Physics in Medicine and Biology, 2020, 65, 035013.	1.6	58
23	A multiscale and multiblock fuzzy C-means classification method for brain MR images. Medical Physics, 2011, 38, 2879-2891.	1.6	56
24	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.	1.6	53
25	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.	1.0	52
26	MRI-based treatment planning for brain stereotactic radiosurgery: Dosimetric validation of a learning-based pseudo-CT generation method. Medical Dosimetry, 2019, 44, 199-204.	0.4	51
27	4D-CT deformable image registration using multiscale unsupervised deep learning. Physics in Medicine and Biology, 2020, 65, 085003.	1.6	51
28	A wavelet multiscale denoising algorithm for magnetic resonance (MR) images. Measurement Science and Technology, 2011, 22, 025803.	1.4	49
29	Cupping artifact correction and automated classification for highâ€resolution dedicated breast CT images. Medical Physics, 2012, 39, 6397-6406.	1.6	49
30	Group Independent Component Analysis and Functional MRI Examination of Changes in Language Areas Associated with Brain Tumors at Different Locations. PLoS ONE, 2013, 8, e59657.	1.1	46
31	Evaluating early response of cervical cancer under concurrent chemo-radiotherapy by intravoxel incoherent motion MR imaging. BMC Cancer, 2016, 16, 79.	1.1	45
32	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.	1.6	45
33	MR/PET quantification tools: Registration, segmentation, classification, and MRâ€based attenuation correction. Medical Physics, 2012, 39, 6443-6454.	1.6	44
34	Knowledgeâ€based radiation treatment planning: A dataâ€driven method survey. Journal of Applied Clinical Medical Physics, 2021, 22, 16-44.	0.8	43
35	Texture Analysis as Imaging Biomarker for recurrence in advanced cervical cancer treated with CCRT. Scientific Reports, 2018, 8, 11399.	1.6	42
36	High-frequencyÂultrasound inÂclinicalÂdermatology: a review. Ultrasound Journal, 2021, 13, 24.	1.3	41

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37	MRI-based attenuation correction for brain PET/MRI based on anatomic signature and machine learning. Physics in Medicine and Biology, 2019, 64, 025001.	1.6	40
38	Learningâ€based automatic segmentation of arteriovenous malformations on contrast CT images in brain stereotactic radiosurgery. Medical Physics, 2019, 46, 3133-3141.	1.6	39
39	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.	1.1	38
40	Multimodal MRI synthesis using unified generative adversarial networks. Medical Physics, 2020, 47, 6343-6354.	1.6	37
41	DC Autotransformer-Based Traction Power Supply for Urban Transit Rail Potential and Stray Current Mitigation. IEEE Transactions on Transportation Electrification, 2020, 6, 762-773.	5.3	37
42	Pelvic multiâ€organ segmentation on coneâ€beam CT for prostate adaptive radiotherapy. Medical Physics, 2020, 47, 3415-3422.	1.6	37
43	Learningâ€based <scp>CBCT</scp> correction using alternating random forest based on autoâ€context model. Medical Physics, 2019, 46, 601-618.	1.6	36
44	Assessment of histological differentiation in gastric cancers using whole-volume histogram analysis of apparent diffusion coefficient maps. Journal of Magnetic Resonance Imaging, 2017, 45, 440-449.	1.9	35
45	CTâ€based multiâ€organ segmentation using a 3D selfâ€attention Uâ€net network for pancreatic radiotherapy. Medical Physics, 2020, 47, 4316-4324.	1.6	35
46	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.	1.6	34
47	3D prostate segmentation of ultrasound images combining longitudinal image registration and machine learning. Proceedings of SPIE, 2012, 8316, 83162O.	0.8	33
48	A dual-modal magnetic nanoparticle probe for preoperative and intraoperative mapping of sentinel lymph nodes by magnetic resonance and near infrared fluorescence imaging. Journal of Biomaterials Applications, 2013, 28, 100-111.	1.2	33
49	Brain tumor segmentation using 3D Mask R-CNN for dynamic susceptibility contrast enhanced perfusion imaging. Physics in Medicine and Biology, 2020, 65, 185009.	1.6	33
50	Biomechanically constrained non-rigid MR-TRUS prostate registration using deep learning based 3D point cloud matching. Medical Image Analysis, 2021, 67, 101845.	7.0	33
51	MRI-based pseudo CT synthesis using anatomical signature and alternating random forest with iterative refinement model. Journal of Medical Imaging, 2018, 5, 1.	0.8	33
52	Deep morphology aided diagnosis network for segmentation of carotid artery vessel wall and diagnosis of carotid atherosclerosis on blackâ€blood vessel wall MRI. Medical Physics, 2019, 46, 5544-5561.	1.6	31
53	MRI-based synthetic CT generation using semantic random forest with iterative refinement. Physics in Medicine and Biology, 2019, 64, 085001.	1.6	31
54	Head and neck multiâ€organ autoâ€segmentation on CT images aided by synthetic MRI. Medical Physics, 2020, 47, 4294-4302.	1.6	31

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55	Multi-Needle Detection in 3D Ultrasound Images Using Unsupervised Order-Graph Regularized Sparse Dictionary Learning. IEEE Transactions on Medical Imaging, 2020, 39, 2302-2315.	5.4	31
56	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.	5.3	31
57	Dose evaluation of MRI-based synthetic CT generated using a machine learning method for prostate cancer radiotherapy. Medical Dosimetry, 2019, 44, e64-e70.	0.4	30
58	Multiâ€needle Localization with Attention Uâ€Net in USâ€guided HDR Prostate Brachytherapy. Medical Physics, 2020, 47, 2735-2745.	1.6	30
59	Apparent diffusion coefficient value of gastric cancer by diffusion-weighted imaging: Correlations with the histological differentiation and Lauren classification. European Journal of Radiology, 2014, 83, 2122-2128.	1.2	29
60	Preoperative apparent diffusion coefficient value of gastric cancer by diffusionâ€weighted imaging: Correlations with postoperative TNM staging. Journal of Magnetic Resonance Imaging, 2015, 42, 837-843.	1.9	29
61	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.	1.6	29
62	Review of Machine Learning in Lung Ultrasound in COVID-19 Pandemic. Journal of Imaging, 2022, 8, 65.	1.7	29
63	Automated Skin Segmentation in Ultrasonic Evaluation of Skin Toxicity in Breast Cancer Radiotherapy. Ultrasound in Medicine and Biology, 2013, 39, 2166-2175.	0.7	27
64	Deformable MRâ€CBCT prostate registration using biomechanically constrained deep learning networks. Medical Physics, 2021, 48, 253-263.	1.6	27
65	Fully automated segmentation of brain tumor from multiparametric MRI using 3D context deep supervised Uâ€Net. Medical Physics, 2021, 48, 4365-4374.	1.6	27
66	Intensity non-uniformity correction in MR imaging using residual cycle generative adversarial network. Physics in Medicine and Biology, 2020, 65, 215025.	1.6	27
67	Whole-lesion ADC histogram and texture analysis in predicting recurrence of cervical cancer treated with CCRT. Oncotarget, 2017, 8, 92442-92453.	0.8	26
68	Automatic 3D segmentation of ultrasound images using atlas registration and statistical texture prior. , 2011, 7964, .		25
69	Multiscale segmentation of the skull in MR images for MRI-based attenuation correction of combined MR/PET. Journal of the American Medical Informatics Association: JAMIA, 2013, 20, 1037-1045.	2.2	25
70	Predictive and prognostic value of intravoxel incoherent motion (IVIM) MR imaging in patients with advanced cervical cancers undergoing concurrent chemo-radiotherapy. Scientific Reports, 2017, 7, 11635.	1.6	25
71	3D non-rigid registration using surface and local salient features for transrectal ultrasound image-guided prostate biopsy. Proceedings of SPIE, 2011, 7964, 79642V.	0.8	24
72	Pseudo CT estimation from MRI using patch-based random forest. Proceedings of SPIE, 2017, 10133, .	0.8	24

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73	Automatic multiâ€catheter detection using deeply supervised convolutional neural network in MRIâ€guided HDR prostate brachytherapy. Medical Physics, 2020, 47, 4115-4124.	1.6	24
74	MRI-Based Proton Treatment Planning for Base of Skull Tumors. International Journal of Particle Therapy, 2019, 6, 12-25.	0.9	24
75	Ultrasound Elastography for Lung Disease Assessment. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2249-2257.	1.7	23
76	Automated left ventricular myocardium segmentation using 3D deeply supervised attention Uâ€net for coronary computed tomography angiography; CT myocardium segmentation. Medical Physics, 2020, 47, 1775-1785.	1.6	23
77	Automatic segmentation and quantification of epicardial adipose tissue from coronary computed tomography angiography. Physics in Medicine and Biology, 2020, 65, 095012.	1.6	23
78	Deep learning-based image quality improvement for low-dose computed tomography simulation in radiation therapy. Journal of Medical Imaging, 2019, 6, 1.	0.8	23
79	Nonrigid registration and classification of the kidneys in 3D dynamic contrast enhanced (DCE) MR images. Proceedings of SPIE, 2012, 8314, 83140B.	0.8	22
80	Ultrasound Histogram Assessment of Parotid Gland Injury Following Head-and-Neck Radiotherapy: A Feasibility Study. Ultrasound in Medicine and Biology, 2012, 38, 1514-1521.	0.7	22
81	The Non-Gaussian Nature of Prostate Motion Based on Real-Time Intrafraction Tracking. International Journal of Radiation Oncology Biology Physics, 2013, 87, 363-369.	0.4	22
82	Correlation between apparent diffusion coefficients and HER2 status in gastric cancers: pilot study. BMC Cancer, 2015, 15, 749.	1.1	22
83	Early evaluation of irradiated parotid glands with intravoxel incoherent motion MR imaging: correlation with dynamic contrast-enhanced MR imaging. BMC Cancer, 2016, 16, 865.	1.1	22
84	An enhanced reverse blocking MMC with DC fault handling capability for HVDC applications. Electric Power Systems Research, 2018, 163, 706-714.	2.1	22
85	Machine Learning Assisted MRI Characterization for Diagnosis of Neonatal Acute Bilirubin Encephalopathy. Frontiers in Neurology, 2019, 10, 1018.	1.1	22
86	Automatic tissue classification for high-resolution breast CT images based on bilateral filtering. , 2011, 7962, 79623H.		21
87	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.	0.8	21
88	Coneâ€beam CTâ€derived relative stopping power map generation via deep learning for proton radiotherapy. Medical Physics, 2020, 47, 4416-4427.	1.6	21
89	Automated delineation of head and neck organs at risk using synthetic MRIâ€aided mask scoring regional convolutional neural network. Medical Physics, 2021, 48, 5862-5873.	1.6	21
90	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.	1.6	21

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91	Quantitative Ultrasonic Nakagami Imaging ofÂNeck Fibrosis After Head and Neck Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2015, 92, 407-414.	0.4	20
92	Dosimetric study on learning-based cone-beam CT correction in adaptive radiation therapy. Medical Dosimetry, 2019, 44, e71-e79.	0.4	20
93	Multiparametric MRI-guided dose boost to dominant intraprostatic lesions in CT-based High-dose-rate prostate brachytherapy. British Journal of Radiology, 2019, 92, 20190089.	1.0	20
94	Automatic delineation of cardiac substructures using a regionâ€based fully convolutional network. Medical Physics, 2021, 48, 2867-2876.	1.6	20
95	Pulmonary Enhancement Imaging with Dual Energy CT for the Detection of Pulmonary Embolism in a Rabbit Model. Academic Radiology, 2011, 18, 605-614.	1.3	19
96	3D segmentation of prostate ultrasound images using wavelet transform. Proceedings of SPIE, 2011, 7962, 79622K.	0.8	19
97	Ultrasonic Nakagamiâ€parameter characterization of parotidâ€gland injury following headâ€andâ€neck radiotherapy: A feasibility study of late toxicity. Medical Physics, 2014, 41, 022903.	1.6	19
98	Prostate CT segmentation method based on nonrigid registration in ultrasoundâ€guided CTâ€based HDR prostate brachytherapy. Medical Physics, 2014, 41, 111915.	1.6	19
99	Synthetic dual-energy CT for MRI-only based proton therapy treatment planning using label-GAN. Physics in Medicine and Biology, 2021, 66, 065014.	1.6	18
100	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.	1.6	18
101	3D transrectal ultrasound (TRUS) prostate segmentation based on optimal feature learning framework. Proceedings of SPIE, 2016, 9784, .	0.8	17
102	Noninvasive evaluation of vaginal fibrosis following radiotherapy for gynecologic malignancies: A feasibility study with ultrasound B-mode and Nakagami parameter imaging. Medical Physics, 2013, 40, 022901.	1.6	16
103	Neurovascular bundleâ€“sparing radiotherapy for prostate cancer using MRI-CT registration: A dosimetric feasibility study. Medical Dosimetry, 2016, 41, 339-343.	0.4	16
104	Predicting and Early Monitoring Treatment Efficiency of Cervical Cancer Under Concurrent Chemoradiotherapy by Intravoxel Incoherent Motion Magnetic Resonance Imaging. Journal of Computer Assisted Tomography, 2017, 41, 422-429.	0.5	16
105	Surface thermochemical effects on TPS-coupled aerothermodynamics in hypersonic Martian gas flow. Acta Astronautica, 2018, 147, 445-453.	1.7	16
106	Early evaluation of radiation-induced parotid damage in patients with nasopharyngeal carcinoma by T2 mapping and mDIXON Quant imaging: initial findings. Radiation Oncology, 2018, 13, 22.	1.2	16
107	Virtual Impedance Sliding Mode Control-Based MMC Circulating Current Suppressing Strategy. IEEE Access, 2019, 7, 26229-26240.	2.6	16
108	Automated delineation of organs-at-risk in head and neck CT images using multi-output support vector regression. , 2018, , .		16

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109	Apparent diffusion coefficient histogram shape analysis for monitoring early response in patients with advanced cervical cancers undergoing concurrent chemo-radiotherapy. Radiation Oncology, 2016, 11, 141.	1.2	15
110	Histogram analysis of apparent diffusion coefficient for monitoring early response in patients with advanced cervical cancers undergoing concurrent chemo-radiotherapy. Acta Radiologica, 2017, 58, 1400-1408.	0.5	15
111	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.	1.0	15
112	Artificial intelligence in tumor subregion analysis based on medical imaging: A review. Journal of Applied Clinical Medical Physics, 2021, 22, 10-26.	0.8	15
113	Magnetic resonance imaging-based pseudo computed tomography using anatomic signature and joint dictionary learning. Journal of Medical Imaging, 2018, 5, 1.	0.8	15
114	Novel modular multilevel converter against DC faults for HVDC applications. CSEE Journal of Power and Energy Systems, 2017, 3, 140-149.	1.7	14
115	Numerical analysis of the aerothermodynamic behavior of a Hyperloop in choked flow. Energy, 2021, 237, 121427.	4.5	14
116	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.	1.6	14
117	Comprehensive understanding of DC poleâ€toâ€pole fault and its protection for modular multilevel converters. High Voltage, 2018, 3, 246-254.	2.7	13
118	A preliminary study on a multiresolutionâ€level inverse planning approach for Gamma Knife radiosurgery. Medical Physics, 2020, 47, 1523-1532.	1.6	13
119	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.	1.6	13
120	Magnetic resonance imaging contrast enhancement synthesis using cascade networks with local supervision. Medical Physics, 2022, 49, 3278-3287.	1.6	13
121	Influence of Vascular Comorbidities and Race on Erectile Dysfunction after Prostate Cancer Radiotherapy. Journal of Sexual Medicine, 2013, 10, 2108-2114.	0.3	12
122	Diagnostic Accuracy of Ultrasonic Histogram Features to Evaluate Radiation Toxicity of the Parotid Glands. Academic Radiology, 2014, 21, 1304-1313.	1.3	12
123	Early Changes of Irradiated Parotid Glands Evaluated by T1rho-Weighted Imaging: A Pilot Study. Journal of Computer Assisted Tomography, 2017, 41, 472-476.	0.5	12
124	Learning-based dose prediction for pancreatic stereotactic body radiation therapy using dual pyramid adversarial network. Physics in Medicine and Biology, 2021, 66, 125019.	1.6	12
125	Automated prostate segmentation of volumetric CT images using 3D deeply supervised dilated FCN. , 2019, , .		12
126	Apparent diffusion coefficient histogram analysis can evaluate radiation-induced parotid damage and predict late xerostomia degree in nasopharyngeal carcinoma. Oncotarget, 2017, 8, 70226-70238.	0.8	12

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127	Deep learningâ€based motion tracking using ultrasound images. Medical Physics, 2021, 48, 7747-7756.	1.6	12
128	Improved Phase Shift Control for SiC-MOSFET Based Resonant Switched-Capacitor Converter with Parasitics Consideration. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	11
129	Male pelvic multiâ€organ segmentation on transrectal ultrasound using anchorâ€free mask CNN. Medical Physics, 2021, 48, 3055-3064.	1.6	11
130	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.	2.5	11
131	Synthetic CT-aided MRI-CT image registration for head and neck radiotherapy. , 2020, , .		11
132	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.	1.6	11
133	Reverse-blocking modular multilevel converter for battery energy storage systems. Journal of Modern Power Systems and Clean Energy, 2017, 5, 652-662.	3.3	10
134	A PET/CT Directed, 3D Ultrasound-Guided Biopsy System for Prostate Cancer. Lecture Notes in Computer Science, 2011, 6363, 100-108.	1.0	10
135	Prostate and dominant intraprostatic lesion segmentation on PET/CT using cascaded regional-net. Physics in Medicine and Biology, 2021, 66, 245006.	1.6	10
136	A skull segmentation method for brain MR images based on multiscale bilateral filtering scheme. Proceedings of SPIE, 2010, , .	0.8	9
137	Reverse blocking sub-module based modular multilevel converter with DC fault ride-through capability. , 2016, , .		9
138	Ultrasonic histogram assessment of early response to concurrent chemo-radiotherapy in patients with locally advanced cervical cancer: a feasibility study. Clinical Imaging, 2018, 49, 144-149.	0.8	9
139	A Passive Soft-Switching Snubber With Energy Active Recovery Circuit for PWM Inverters. IEEE Access, 2020, 8, 100031-100043.	2.6	9
140	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.	2.5	9
141	Male pelvic CT multi-organ segmentation using synthetic MRI-aided dual pyramid networks. Physics in Medicine and Biology, 2021, 66, 085007.	1.6	9
142	Echocardiographic image multiâ€structure segmentation using Cardiacâ€SegNet. Medical Physics, 2021, 48, 2426-2437.	1.6	9
143	Head and neck multi-organ segmentation on dual-energy CT using dual pyramid convolutional neural networks. Physics in Medicine and Biology, 2021, 66, 115008.	1.6	9
144	Improved prostate delineation in prostate <scp>HDR</scp> brachytherapy with <scp>TRUS</scp>â€<scp>CT</scp> deformable registration technology: A pilot study with <scp>MRI</scp> validation. Journal of Applied Clinical Medical Physics, 2017, 18, 202-210.	0.8	9

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145	4D-CT Deformable Image Registration Using an Unsupervised Deep Convolutional Neural Network. Lecture Notes in Computer Science, 2019, , 26-33.	1.0	9
146	Improving image quality of cone-beam CT using alternating regression forest. , 2018, 10573, .		9
147	Deep learning-based thoracic CBCT correction with histogram matching. Biomedical Physics and Engineering Express, 2021, 7, 065040.	0.6	9
148	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.	1.0	9
149	Onboard coneâ€beam CTâ€based replan evaluation for head and neck proton therapy. Journal of Applied Clinical Medical Physics, 2022, 23, e13550.	0.8	9
150	Mutual enhancing learning-based automatic segmentation of CT cardiac substructure. Physics in Medicine and Biology, 2022, 67, 105008.	1.6	9
151	An MRI-based attenuation correction method for combined PET/MRI applications. , 2009, 7262, .		8
152	Respiratory-Induced Prostate Motion Using Wavelet Decomposition of the Real-Time Electromagnetic Tracking Signal. International Journal of Radiation Oncology Biology Physics, 2013, 87, 370-374.	0.4	8
153	Super Capacitor Energy Storage Based MMC for Energy Harvesting in Mine Hoist Application. Energies, 2017, 10, 1428.	1.6	8
154	Revealing hemodynamic heterogeneity of gliomas based on signal profile features of dynamic susceptibility contrast-enhanced MRI. NeuroImage: Clinical, 2019, 23, 101864.	1.4	8
155	High through-plane resolution CT imaging with self-supervised deep learning. Physics in Medicine and Biology, 2021, 66, 145013.	1.6	8
156	MRI-based synthetic CT generation using deep convolutional neural network. , 2019, , .		8
157	Synthetic CTâ€aided multiorgan segmentation for CBCTâ€guided adaptive pancreatic radiotherapy. Medical Physics, 2021, 48, 7063-7073.	1.6	8
158	Automated coronary artery segmentation in Coronary Computed Tomography Angiography (CCTA) using deep learning neural networks. , 2020, , .		8
159	Ultrasound 2D strain estimator based on image registration for ultrasound elastography. Proceedings of SPIE, 2014, 9040, .	0.8	7
160	Strain elastography imaging for early detection and prediction of tumor response to concurrent chemo-radiotherapy in locally advanced cervical cancer: feasibility study. BMC Cancer, 2017, 17, 427.	1.1	7
161	Ultrasound 2D strain measurement for arm lymphedema using deformable registration: A feasibility study. PLoS ONE, 2017, 12, e0181250.	1.1	7
162	Surface Chemical Effects on Hypersonic Nonequilibrium Aeroheating in Dissociated Carbonâ€“Oxygen Mixture. Journal of Spacecraft and Rockets, 2018, 55, 687-697.	1.3	7

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163	Early evaluation of radiation-induced parotid damage with diffusion kurtosis imaging: a preliminary study. Acta Radiologica, 2018, 59, 212-220.	0.5	7
164	Backflow Power Optimization of DAB with Gradient Descent Algorithm Based Extended-Phase-Shift Control in EER Application. , 2019, , .		7
165	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.	1.1	7
166	Dynamic Changes of Brain Networks during Working Memory Tasks in Schizophrenia. Neuroscience, 2021, 453, 187-205.	1.1	7
167	Selfâ€supervised learning for accelerated 3D highâ€resolution ultrasound imaging. Medical Physics, 2021, 48, 3916-3926.	1.6	7
168	Lung tumor segmentation in 4D CT images using motion convolutional neural networks. Medical Physics, 2021, 48, 7141-7153.	1.6	7
169	CBCT-Based Synthetic MRI Generation for CBCT-Guided Adaptive Radiotherapy. Lecture Notes in Computer Science, 2019, , 154-161.	1.0	7
170	Automatic MRI prostate segmentation using 3D deeply supervised FCN with concatenated atrous convolution. , 2019, , .		7
171	Deep attentional GAN-based high-resolution ultrasound imaging. , 2020, , .		7
172	MRIâ€based prostate and dominant lesion segmentation using cascaded scoring convolutional neural network. Medical Physics, 2022, 49, 5216-5224.	1.6	7
173	The Impact of Axillary Lymph Node Surgery onÂBreast Skin Thickening During and After Radiation Therapy for Breast Cancer. International Journal of Radiation Oncology Biology Physics, 2016, 95, 590-596.	0.4	6
174	Pseudo CT Estimation using Patch-based Joint Dictionary Learning. , 2018, 2018, 5150-5153.		6
175	Contentâ€oriented sparse representation (<scp>COSR</scp>) for <scp>CT</scp> denoising with preservation of texture and edge. Medical Physics, 2018, 45, 4942-4954.	1.6	6
176	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.	2.3	6
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