

Tonghe Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

1,667
citations

23
h-index

37
g-index

101
ext. papers

2,660
ext. citations

3.6
avg, IF

5.36
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 89 | Machine learning for tracking planned versus delivered dose in pancreas SBRT.. <i>Journal of Clinical Oncology</i> , 2022 , 40, 561-561 | 2.2 | |
| 88 | Dosimetric Uncertainties in Dominant Intraprostatic Lesion Simultaneous Boost Using Intensity Modulated Proton Therapy. <i>Advances in Radiation Oncology</i> , 2022 , 7, 100826 | 3.3 | 0 |
| 87 | Learning-based synthetic dual energy CT imaging from single energy CT for stopping power ratio calculation in proton radiation therapy. <i>British Journal of Radiology</i> , 2022 , 95, 20210644 | 3.4 | 4 |
| 86 | Generative adversarial networks for medical image synthesis 2022 , 105-128 | | 0 |
| 85 | Prostate and dominant intraprostatic lesion segmentation on PET/CT using cascaded regional-net. <i>Physics in Medicine and Biology</i> , 2021 , 66, | 3.8 | 1 |
| 84 | Synthetic CT-aided multiorgan segmentation for CBCT-guided adaptive pancreatic radiotherapy. <i>Medical Physics</i> , 2021 , 48, 7063-7073 | 4.4 | 0 |
| 83 | Synthetic dual-energy CT for MRI-only based proton therapy treatment planning using label-GAN. <i>Physics in Medicine and Biology</i> , 2021 , 66, 065014 | 3.8 | 6 |
| 82 | Male pelvic CT multi-organ segmentation using synthetic MRI-aided dual pyramid networks. <i>Physics in Medicine and Biology</i> , 2021 , 66, | 3.8 | 3 |
| 81 | Male pelvic multi-organ segmentation on transrectal ultrasound using anchor-free mask CNN. <i>Medical Physics</i> , 2021 , 48, 3055-3064 | 4.4 | 2 |
| 80 | A review of deep learning based methods for medical image multi-organ segmentation. <i>Physica Medica</i> , 2021 , 85, 107-122 | 2.7 | 15 |
| 79 | Artificial intelligence in tumor subregion analysis based on medical imaging: A review. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 10-26 | 2.3 | 2 |
| 78 | Self-supervised learning for accelerated 3D high-resolution ultrasound imaging. <i>Medical Physics</i> , 2021 , 48, 3916-3926 | 4.4 | 1 |
| 77 | Learning-based dose prediction for pancreatic stereotactic body radiation therapy using dual pyramid adversarial network. <i>Physics in Medicine and Biology</i> , 2021 , 66, | 3.8 | 3 |
| 76 | Biomechanically constrained non-rigid MR-TRUS prostate registration using deep learning based 3D point cloud matching. <i>Medical Image Analysis</i> , 2021 , 67, 101845 | 15.4 | 11 |
| 75 | Deformable MR-CBCT prostate registration using biomechanically constrained deep learning networks. <i>Medical Physics</i> , 2021 , 48, 253-263 | 4.4 | 12 |
| 74 | A review on medical imaging synthesis using deep learning and its clinical applications. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 11-36 | 2.3 | 38 |
| 73 | Automatic quantification of myocardium and pericardial fat from coronary computed tomography angiography: a multicenter study. <i>European Radiology</i> , 2021 , 31, 3826-3836 | 8 | 2 |

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| 72 | Breast tumor segmentation in 3D automatic breast ultrasound using Mask scoring R-CNN. <i>Medical Physics</i> , 2021 , 48, 204-214 | 4.4 | 16 |
| 71 | MRI classification using semantic random forest with auto-context model. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021 , 11, 4753-4766 | 3.6 | |
| 70 | Learning-Based Stopping Power Mapping on Dual-Energy CT for Proton Radiation Therapy. <i>International Journal of Particle Therapy</i> , 2021 , 7, 46-60 | 1.5 | 1 |
| 69 | Head-and-neck organs-at-risk auto-delineation using dual pyramid networks for CBCT-guided adaptive radiotherapy. <i>Physics in Medicine and Biology</i> , 2021 , 66, 045021 | 3.8 | 8 |
| 68 | High through-plane resolution CT imaging with self-supervised deep learning. <i>Physics in Medicine and Biology</i> , 2021 , 66, | 3.8 | 1 |
| 67 | Automated delineation of head and neck organs at risk using synthetic MRI-aided mask scoring regional convolutional neural network. <i>Medical Physics</i> , 2021 , 48, 5862-5873 | 4.4 | 3 |
| 66 | Lung tumor segmentation in 4D CT images using motion convolutional neural networks. <i>Medical Physics</i> , 2021 , 48, 7141-7153 | 4.4 | 0 |
| 65 | Catheter position prediction using deep-learning-based multi-atlas registration for high-dose rate prostate brachytherapy. <i>Medical Physics</i> , 2021 , 48, 7261-7270 | 4.4 | 0 |
| 64 | Automatic multi-catheter detection using deeply supervised convolutional neural network in MRI-guided HDR prostate brachytherapy. <i>Medical Physics</i> , 2020 , 47, 4115-4124 | 4.4 | 12 |
| 63 | Automatic segmentation and quantification of epicardial adipose tissue from coronary computed tomography angiography. <i>Physics in Medicine and Biology</i> , 2020 , 65, 095012 | 3.8 | 7 |
| 62 | Multi-needle Localization with Attention U-Net in US-guided HDR Prostate Brachytherapy. <i>Medical Physics</i> , 2020 , 47, 2735-2745 | 4.4 | 15 |
| 61 | CBCT-based synthetic CT generation using deep-attention cycleGAN for pancreatic adaptive radiotherapy. <i>Medical Physics</i> , 2020 , 47, 2472-2483 | 4.4 | 36 |
| 60 | Deep learning in medical image registration: a review. <i>Physics in Medicine and Biology</i> , 2020 , 65, 20TR01 | 3.8 | 102 |
| 59 | Cone-beam CT-derived relative stopping power map generation via deep learning for proton radiotherapy. <i>Medical Physics</i> , 2020 , 47, 4416-4427 | 4.4 | 9 |
| 58 | 4D-CT deformable image registration using multiscale unsupervised deep learning. <i>Physics in Medicine and Biology</i> , 2020 , 65, 085003 | 3.8 | 22 |
| 57 | Multi-Needle Detection in 3D Ultrasound Images Using Unsupervised Order-Graph Regularized Sparse Dictionary Learning. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2302-2315 | 11.7 | 13 |
| 56 | LungRegNet: An unsupervised deformable image registration method for 4D-CT lung. <i>Medical Physics</i> , 2020 , 47, 1763-1774 | 4.4 | 29 |
| 55 | A preliminary study on a multiresolution-level inverse planning approach for Gamma Knife radiosurgery. <i>Medical Physics</i> , 2020 , 47, 1523-1532 | 4.4 | 8 |

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| 54 | Label-driven magnetic resonance imaging (MRI)-transrectal ultrasound (TRUS) registration using weakly supervised learning for MRI-guided prostate radiotherapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 135002 | 3.8 | 16 |
| 53 | Pelvic multi-organ segmentation on cone-beam CT for prostate adaptive radiotherapy. <i>Medical Physics</i> , 2020 , 47, 3415-3422 | 4.4 | 16 |
| 52 | Deep attentional GAN-based high-resolution ultrasound imaging 2020 , | | 4 |
| 51 | Automatic multi-needle localization in ultrasound images using large margin mask RCNN for ultrasound-guided prostate brachytherapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 205003 | 3.8 | 5 |
| 50 | Intensity non-uniformity correction in MR imaging using residual cycle generative adversarial network. <i>Physics in Medicine and Biology</i> , 2020 , 65, 215025 | 3.8 | 8 |
| 49 | Deep learning-based real-time volumetric imaging for lung stereotactic body radiation therapy: a proof of concept study. <i>Physics in Medicine and Biology</i> , 2020 , 65, 235003 | 3.8 | 5 |
| 48 | A planning study of focal dose escalations to multiparametric MRI-defined dominant intraprostatic lesions in prostate proton radiation therapy. <i>British Journal of Radiology</i> , 2020 , 93, 20190845 | 3.4 | 7 |
| 47 | Deep learning-based attenuation correction in the absence of structural information for whole-body positron emission tomography imaging. <i>Physics in Medicine and Biology</i> , 2020 , 65, 055011 | 3.8 | 49 |
| 46 | Male pelvic multi-organ segmentation aided by CBCT-based synthetic MRI. <i>Physics in Medicine and Biology</i> , 2020 , 65, 035013 | 3.8 | 32 |
| 45 | CT prostate segmentation based on synthetic MRI-aided deep attention fully convolution network. <i>Medical Physics</i> , 2020 , 47, 530-540 | 4.4 | 34 |
| 44 | Automated left ventricular myocardium segmentation using 3D deeply supervised attention U-net for coronary computed tomography angiography; CT myocardium segmentation. <i>Medical Physics</i> , 2020 , 47, 1775-1785 | 4.4 | 11 |
| 43 | Head and neck multi-organ auto-segmentation on CT images aided by synthetic MRI. <i>Medical Physics</i> , 2020 , 47, 4294-4302 | 4.4 | 10 |
| 42 | CT-based multi-organ segmentation using a 3D self-attention U-net network for pancreatic radiotherapy. <i>Medical Physics</i> , 2020 , 47, 4316-4324 | 4.4 | 16 |
| 41 | Machine learning in quantitative PET: A review of attenuation correction and low-count image reconstruction methods. <i>Physica Medica</i> , 2020 , 76, 294-306 | 2.7 | 26 |
| 40 | A learning-based automatic segmentation and quantification method on left ventricle in gated myocardial perfusion SPECT imaging: A feasibility study. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 976-987 ^{2.1} | | 46 |
| 39 | Thyroid gland delineation in noncontrast-enhanced CT using deep convolutional neural networks. <i>Physics in Medicine and Biology</i> , 2020 , | 3.8 | 1 |
| 38 | Evaluation of a deep learning-based pelvic synthetic CT generation technique for MRI-based prostate proton treatment planning. <i>Physics in Medicine and Biology</i> , 2019 , 64, 205022 | 3.8 | 23 |
| 37 | Synthetic CT generation from non-attenuation corrected PET images for whole-body PET imaging. <i>Physics in Medicine and Biology</i> , 2019 , 64, 215016 | 3.8 | 34 |

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| 36 | Optimal virtual monoenergetic image in "TwinBeam" dual-energy CT for organs-at-risk delineation based on contrast-noise-ratio in head-and-neck radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 121-128 | 2.3 | 15 |
| 35 | MRI-only based synthetic CT generation using dense cycle consistent generative adversarial networks. <i>Medical Physics</i> , 2019 , 46, 3565-3581 | 4.4 | 95 |
| 34 | Paired cycle-GAN-based image correction for quantitative cone-beam computed tomography. <i>Medical Physics</i> , 2019 , 46, 3998-4009 | 4.4 | 74 |
| 33 | MRI-based treatment planning for proton radiotherapy: dosimetric validation of a deep learning-based liver synthetic CT generation method. <i>Physics in Medicine and Biology</i> , 2019 , 64, 145015 | 3.8 | 37 |
| 32 | Learning-based automatic segmentation of arteriovenous malformations on contrast CT images in brain stereotactic radiosurgery. <i>Medical Physics</i> , 2019 , 46, 3133-3141 | 4.4 | 23 |
| 31 | Ultrasound prostate segmentation based on multidirectional deeply supervised V-Net. <i>Medical Physics</i> , 2019 , 46, 3194-3206 | 4.4 | 52 |
| 30 | Dosimetric study on learning-based cone-beam CT correction in adaptive radiation therapy. <i>Medical Dosimetry</i> , 2019 , 44, e71-e79 | 1.3 | 15 |
| 29 | Dose evaluation of MRI-based synthetic CT generated using a machine learning method for prostate cancer radiotherapy. <i>Medical Dosimetry</i> , 2019 , 44, e64-e70 | 1.3 | 21 |
| 28 | MRI-based synthetic CT generation using semantic random forest with iterative refinement. <i>Physics in Medicine and Biology</i> , 2019 , 64, 085001 | 3.8 | 19 |
| 27 | Multiparametric MRI-guided dose boost to dominant intraprostatic lesions in CT-based High-dose-rate prostate brachytherapy. <i>British Journal of Radiology</i> , 2019 , 92, 20190089 | 3.4 | 13 |
| 26 | Deeply supervised 3D fully convolutional networks with group dilated convolution for automatic MRI prostate segmentation. <i>Medical Physics</i> , 2019 , 46, 1707-1718 | 4.4 | 90 |
| 25 | Automatic multiorgan segmentation in thorax CT images using U-net-GAN. <i>Medical Physics</i> , 2019 , 46, 2157-2168 | 4.4 | 128 |
| 24 | MRI-based treatment planning for brain stereotactic radiosurgery: Dosimetric validation of a learning-based pseudo-CT generation method. <i>Medical Dosimetry</i> , 2019 , 44, 199-204 | 1.3 | 34 |
| 23 | MRI-based treatment planning for liver stereotactic body radiotherapy: validation of a deep learning-based synthetic CT generation method. <i>British Journal of Radiology</i> , 2019 , 92, 20190067 | 3.4 | 31 |
| 22 | Whole-body PET estimation from low count statistics using cycle-consistent generative adversarial networks. <i>Physics in Medicine and Biology</i> , 2019 , 64, 215017 | 3.8 | 35 |
| 21 | Synthetic MRI-aided multi-organ segmentation on male pelvic CT using cycle consistent deep attention network. <i>Radiotherapy and Oncology</i> , 2019 , 141, 192-199 | 5.3 | 55 |
| 20 | Deep learning-based image quality improvement for low-dose computed tomography simulation in radiation therapy. <i>Journal of Medical Imaging</i> , 2019 , 6, 043504 | 2.6 | 12 |
| 19 | Image quality improvement in cone-beam CT using deep learning 2019 , | | 5 |

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| 18 | Automated prostate segmentation of volumetric CT images using 3D deeply supervised dilated FCN 2019 , | | 9 |
| 17 | MRI-based synthetic CT generation using deep convolutional neural network 2019 , | | 4 |
| 16 | Learning-based automatic segmentation on arteriovenous malformations from contrast-enhanced CT images 2019 , | | 1 |
| 15 | Ultrasound prostate segmentation based on 3D V-Net with deep supervision 2019 , | | 5 |
| 14 | MRI-Based Proton Treatment Planning for Base of Skull Tumors. <i>International Journal of Particle Therapy</i> , 2019 , 6, 12-25 | 1.5 | 11 |
| 13 | CBCT-Based Synthetic MRI Generation for CBCT-Guided Adaptive Radiotherapy. <i>Lecture Notes in Computer Science</i> , 2019 , 154-161 | 0.9 | 2 |
| 12 | 4D-CT Deformable Image Registration Using an Unsupervised Deep Convolutional Neural Network. <i>Lecture Notes in Computer Science</i> , 2019 , 26-33 | 0.9 | 7 |
| 11 | Learning-based CBCT correction using alternating random forest based on auto-context model. <i>Medical Physics</i> , 2019 , 46, 601-618 | 4.4 | 25 |
| 10 | MRI-based attenuation correction for brain PET/MRI based on anatomic signature and machine learning. <i>Physics in Medicine and Biology</i> , 2019 , 64, 025001 | 3.8 | 23 |
| 9 | Magnetic resonance imaging-based pseudo computed tomography using anatomic signature and joint dictionary learning. <i>Journal of Medical Imaging</i> , 2018 , 5, 034001 | 2.6 | 15 |
| 8 | MRI-based pseudo CT synthesis using anatomical signature and alternating random forest with iterative refinement model. <i>Journal of Medical Imaging</i> , 2018 , 5, 043504 | 2.6 | 18 |
| 7 | Improving Image Quality of Cone-Beam CT Using Alternating Regression Forest. <i>Proceedings of SPIE</i> , 2018 , 10573, | 1.7 | 6 |
| 6 | A Denoising Algorithm for CT Image Using Low-rank Sparse Coding. <i>Proceedings of SPIE</i> , 2018 , 10574, | 1.7 | 3 |
| 5 | Pixel-wise estimation of noise statistics on iterative CT reconstruction from a single scan. <i>Medical Physics</i> , 2017 , 44, 3525-3533 | 4.4 | 4 |
| 4 | Image-domain non-uniformity correction for cone-beam CT 2017 , | | 4 |
| 3 | Noise suppression for energy-resolved CT using similarity-based non-local filtration 2016 , | | 3 |
| 2 | Dual energy CT with one full scan and a second sparse-view scan using structure preserving iterative reconstruction (SPIR). <i>Physics in Medicine and Biology</i> , 2016 , 61, 6684-6706 | 3.8 | 18 |
| 1 | Noise suppression for dual-energy CT via penalized weighted least-square optimization with similarity-based regularization. <i>Medical Physics</i> , 2016 , 43, 2676 | 4.4 | 29 |

