

Dan Nguyen

List of Publications by Citations

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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.

61
papers

1,296
citations

22
h-index

35
g-index

64
ext. papers

1,935
ext. citations

4
avg, IF

5
L-index

#	Paper	IF	Citations
61	3D radiotherapy dose prediction on head and neck cancer patients with a hierarchically densely connected U-net deep learning architecture. <i>Physics in Medicine and Biology</i> , 2019 , 64, 065020	3.8	97
60	A feasibility study for predicting optimal radiation therapy dose distributions of prostate cancer patients from patient anatomy using deep learning. <i>Scientific Reports</i> , 2019 , 9, 1076	4.9	97
59	Generating synthesized computed tomography (CT) from cone-beam computed tomography (CBCT) using CycleGAN for adaptive radiation therapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 125002	3.8	71
58	An introduction to deep learning in medical physics: advantages, potential, and challenges. <i>Physics in Medicine and Biology</i> , 2020 , 65, 05TR01	3.8	64
57	Three-dimensional dose prediction for lung IMRT patients with deep neural networks: robust learning from heterogeneous beam configurations. <i>Medical Physics</i> , 2019 , 46, 3679-3691	4.4	63
56	Fully automated organ segmentation in male pelvic CT images. <i>Physics in Medicine and Biology</i> , 2018 , 63, 245015	3.8	58
55	MRI-only brain radiotherapy: Assessing the dosimetric accuracy of synthetic CT images generated using a deep learning approach. <i>Radiotherapy and Oncology</i> , 2019 , 136, 56-63	5.3	55
54	4 π noncoplanar stereotactic body radiation therapy for head-and-neck cancer: potential to improve tumor control and late toxicity. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 91, 401-9	4	51
53	Treatment planning comparison of IMPT, VMAT and 4 π radiotherapy for prostate cases. <i>Radiation Oncology</i> , 2017 , 12, 10	4.2	47
52	Segmentation of the prostate and organs at risk in male pelvic CT images using deep learning. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 055003	1.5	47
51	The development and verification of a highly accurate collision prediction model for automated noncoplanar plan delivery. <i>Medical Physics</i> , 2015 , 42, 6457-67	4.4	44
50	Feasibility of extreme dose escalation for glioblastoma multiforme using 4 π radiotherapy. <i>Radiation Oncology</i> , 2014 , 9, 239	4.2	37
49	Intelligent inverse treatment planning via deep reinforcement learning, a proof-of-principle study in high dose-rate brachytherapy for cervical cancer. <i>Physics in Medicine and Biology</i> , 2019 , 64, 115013	3.8	36
48	Feasibility of prostate robotic radiation therapy on conventional C-arm linacs. <i>Practical Radiation Oncology</i> , 2014 , 4, 254-60	2.8	33
47	Viability of Non-Coplanar VMAT for Liver SBRT as Compared to Coplanar VMAT and Beam Orientation Optimized 4 π IMRT. <i>Advances in Radiation Oncology</i> , 2016 , 1, 67-75	3.3	31
46	Incorporating cancer stem cells in radiation therapy treatment response modeling and the implication in glioblastoma multiforme treatment resistance. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015 , 91, 866-75	4	30
45	Integrated beam orientation and scanning-spot optimization in intensity-modulated proton therapy for brain and unilateral head and neck tumors. <i>Medical Physics</i> , 2018 , 45, 1338-1350	4.4	29

44	Accurate real time localization tracking in a clinical environment using Bluetooth Low Energy and deep learning. <i>PLoS ONE</i> , 2018 , 13, e0205392	3.7	29
43	Super-Resolution H Magnetic Resonance Spectroscopic Imaging Utilizing Deep Learning. <i>Frontiers in Oncology</i> , 2019 , 9, 1010	5.3	27
42	Predicting liver SBRT eligibility and plan quality for VMAT and 4p plans. <i>Radiation Oncology</i> , 2017 , 12, 70	4.2	25
41	Artificial intelligence and machine learning for medical imaging: A technology review. <i>Physica Medica</i> , 2021 , 83, 242-256	2.7	25
40	A Prospective 4p Radiation Therapy Clinical Study in Recurrent High-Grade Glioma Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 101, 144-151	4	24
39	Operating a treatment planning system using a deep-reinforcement learning-based virtual treatment planner for prostate cancer intensity-modulated radiation therapy treatment planning. <i>Medical Physics</i> , 2020 , 47, 2329-2336	4.4	22
38	Integral dose investigation of non-coplanar treatment beam geometries in radiotherapy. <i>Medical Physics</i> , 2014 , 41, 011905	4.4	19
37	Dose domain regularization of MLC leaf patterns for highly complex IMRT plans. <i>Medical Physics</i> , 2015 , 42, 1858-70	4.4	18
36	Incorporating human and learned domain knowledge into training deep neural networks: A differentiable dose-volume histogram and adversarial inspired framework for generating Pareto optimal dose distributions in radiation therapy. <i>Medical Physics</i> , 2020 , 47, 837-849	4.4	18
35	A comprehensive formulation for volumetric modulated arc therapy planning. <i>Medical Physics</i> , 2016 , 43, 4263	4.4	16
34	Technical Note: A feasibility study on deep learning-based radiotherapy dose calculation. <i>Medical Physics</i> , 2020 , 47, 753-758	4.4	15
33	Fraction-variant beam orientation optimization for non-coplanar IMRT. <i>Physics in Medicine and Biology</i> , 2018 , 63, 045015	3.8	13
32	Computerized triplet beam orientation optimization for MRI-guided Co-60 radiotherapy. <i>Medical Physics</i> , 2016 , 43, 5667	4.4	12
31	VMAT optimization with dynamic collimator rotation. <i>Medical Physics</i> , 2018 , 45, 2399-2410	4.4	11
30	A novel software and conceptual design of the hardware platform for intensity modulated radiation therapy. <i>Medical Physics</i> , 2016 , 43, 917-29	4.4	10
29	A fast deep learning approach for beam orientation optimization for prostate cancer treated with intensity-modulated radiation therapy. <i>Medical Physics</i> , 2020 , 47, 880-897	4.4	10
28	Dose prediction with deep learning for prostate cancer radiation therapy: Model adaptation to different treatment planning practices. <i>Radiotherapy and Oncology</i> , 2020 , 153, 228-235	5.3	10
27	Deterministic direct aperture optimization using multiphase piecewise constant segmentation. <i>Medical Physics</i> , 2017 , 44, 5596-5609	4.4	9

26	Feasibility of using intermediate x-ray energies for highly conformal extracranial radiotherapy. <i>Medical Physics</i> , 2014 , 41, 041709	4.4	9
25	Generating Pareto Optimal Dose Distributions for Radiation Therapy Treatment Planning. <i>Lecture Notes in Computer Science</i> , 2019 , 59-67	0.9	9
24	Semi-automatic sigmoid colon segmentation in CT for radiation therapy treatment planning via an iterative 2.5-D deep learning approach. <i>Medical Image Analysis</i> , 2021 , 68, 101896	15.4	9
23	Using deep learning to predict beam-tunable Pareto optimal dose distribution for intensity-modulated radiation therapy. <i>Medical Physics</i> , 2020 , 47, 3898-3912	4.4	7
22	Synthesizing CT images from MR images with deep learning: model generalization for different datasets through transfer learning. <i>Biomedical Physics and Engineering Express</i> , 2021 ,	1.5	6
21	Generalizability issues with deep learning models in medicine and their potential solutions: illustrated with cone-beam computed tomography (CBCT) to computed tomography (CT) image conversion. <i>Machine Learning: Science and Technology</i> , 2021 , 2, 015007	5.1	6
20	Deep Learning-Based COVID-19 Pneumonia Classification Using Chest CT Images: Model Generalizability. <i>Frontiers in Artificial Intelligence</i> , 2021 , 4, 694875	3	5
19	A deep learning-based framework for segmenting invisible clinical target volumes with estimated uncertainties for post-operative prostate cancer radiotherapy. <i>Medical Image Analysis</i> , 2021 , 72, 102101	15.4	5
18	Boosting radiotherapy dose calculation accuracy with deep learning. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 149-159	2.3	4
17	A sparse orthogonal collimator for small animal intensity-modulated radiation therapy. Part II: hardware development and commissioning. <i>Medical Physics</i> , 2019 , 46, 5733-5747	4.4	4
16	On the robustness of deep learning-based lung-nodule classification for CT images with respect to image noise. <i>Physics in Medicine and Biology</i> , 2020 , 65, 245037	3.8	4
15	Deep dose plugin: towards real-time Monte Carlo dose calculation through a deep learning-based denoising algorithm. <i>Machine Learning: Science and Technology</i> , 2021 , 2, 025033	5.1	4
14	Mining Domain Knowledge: Improved Framework Towards Automatically Standardizing Anatomical Structure Nomenclature in Radiotherapy. <i>IEEE Access</i> , 2020 , 8, 105286-105300	3.5	3
13	A sparse orthogonal collimator for small animal intensity-modulated radiation therapy part I: Planning system development and commissioning. <i>Medical Physics</i> , 2019 , 46, 5703-5713	4.4	3
12	A comparison of Monte Carlo dropout and bootstrap aggregation on the performance and uncertainty estimation in radiation therapy dose prediction with deep learning neural networks. <i>Physics in Medicine and Biology</i> , 2021 , 66, 054002	3.8	3
11	A feasibility study on deep learning-based individualized 3D dose distribution prediction. <i>Medical Physics</i> , 2021 , 48, 4438-4447	4.4	3
10	Improving proton dose calculation accuracy by using deep learning. <i>Machine Learning: Science and Technology</i> , 2021 , 2, 015017	5.1	2
9	Intentional deep overfit learning (IDOL): A novel deep learning strategy for adaptive radiation therapy. <i>Medical Physics</i> , 2021 ,	4.4	1

8	Deep learning can accelerate and quantify simulated localized correlated spectroscopy. <i>Scientific Reports</i> , 2021 , 11, 8727	4.9	1
7	Synthetic CT generation from CBCT images via unsupervised deep learning. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
6	A reinforcement learning application of a guided Monte Carlo Tree Search algorithm for beam orientation selection in radiation therapy. <i>Machine Learning: Science and Technology</i> , 2021 , 2, 035013	5.1	1
5	A sensitivity analysis of probability maps in deep-learning-based anatomical segmentation. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 105-119	2.3	1
4	Treating Glioblastoma Multiforme (GBM) with super hyperfractionated radiation therapy: Implication of temporal dose fractionation optimization including cancer stem cell dynamics. <i>PLoS ONE</i> , 2021 , 16, e0245676	3.7	1
3	Deep Learning Enables Prostate MRI Segmentation: A Large Cohort Evaluation With Inter-Rater Variability Analysis.. <i>Frontiers in Oncology</i> , 2021 , 11, 801876	5.3	1
2	PSA-Net: Deep learning-based physician style-aware segmentation network for postoperative prostate cancer clinical target volumes. <i>Artificial Intelligence in Medicine</i> , 2021 , 121, 102195	7.4	0
1	Prediction of Type and Recurrence of Atrial Fibrillation after Catheter Ablation via Left Atrial Electroanatomical Voltage Mapping Registration and Multilayer Perceptron Classification: A Retrospective Study. <i>Sensors</i> , 2022 , 22, 4058	3.8	