

Dan Nguyen

List of Publications by Year in descending order

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64
papers

2,527
citations

201674

27
h-index

214800

47
g-index

64
all docs

64
docs citations

64
times ranked

1855
citing authors

#	ARTICLE	IF	CITATIONS
1	Intentional deep overfit learning (IDOL): A novel deep learning strategy for adaptive radiation therapy. <i>Medical Physics</i> , 2022, 49, 488-496.	3.0	16
2	Site-agnostic 3D dose distribution prediction with deep learning neural networks. <i>Medical Physics</i> , 2022, 49, 1391-1406.	3.0	10
3	Towards a safe and efficient clinical implementation of machine learning in radiation oncology by exploring model interpretability, explainability and data-model dependency. <i>Physics in Medicine and Biology</i> , 2022, 67, 11TR01.	3.0	21
4	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	1
5	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.	11.6	18
6	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.	3.0	23
7	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.	2.5	8
8	Improving proton dose calculation accuracy by using deep learning. <i>Machine Learning: Science and Technology</i> , 2021, 2, 015017.	5.0	16
9	Artificial intelligence and machine learning for medical imaging: A technology review. <i>Physica Medica</i> , 2021, 83, 242-256.	0.7	135
10	Deep learning can accelerate and quantify simulated localized correlated spectroscopy. <i>Scientific Reports</i> , 2021, 11, 8727.	3.3	13
11	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.	5.0	20
12	Synthetic CT generation from CBCT images via unsupervised deep learning. <i>Physics in Medicine and Biology</i> , 2021, 66, 115019.	3.0	26
13	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.	5.0	6
14	Deep Learning-Based COVID-19 Pneumonia Classification Using Chest CT Images: Model Generalizability. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 694875.	3.4	19
15	A sensitivity analysis of probability maps in deep learning-based anatomical segmentation. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 105-119.	1.9	2
16	A feasibility study on deep learning-based individualized 3D dose distribution prediction. <i>Medical Physics</i> , 2021, 48, 4438-4447.	3.0	10
17	Latent space arc therapy optimization. <i>Physics in Medicine and Biology</i> , 2021, 66, .	3.0	0
18	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.	11.6	32

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19	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, 7, 025020.	1.2	15
20	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.	5.0	20
21	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.	6.5	24
22	Deep Learning Enables Prostate MRI Segmentation: A Large Cohort Evaluation With Inter-Rater Variability Analysis. <i>Frontiers in Oncology</i> , 2021, 11, 801876.	2.8	6
23	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.	3.0	18
24	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.	3.0	40
25	Technical Note: A feasibility study on deep learning-based radiotherapy dose calculation. <i>Medical Physics</i> , 2020, 47, 753-758.	3.0	33
26	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.	0.6	45
27	Boosting radiotherapy dose calculation accuracy with deep learning. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 149-159.	1.9	20
28	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.	3.0	52
29	Mining Domain Knowledge: Improved Framework Towards Automatically Standardizing Anatomical Structure Nomenclature in Radiotherapy. <i>IEEE Access</i> , 2020, 8, 105286-105300.	4.2	8
30	Using deep learning to predict beam-tunable Pareto optimal dose distribution for intensity-modulated radiation therapy. <i>Medical Physics</i> , 2020, 47, 3898-3912.	3.0	16
31	An introduction to deep learning in medical physics: advantages, potential, and challenges. <i>Physics in Medicine and Biology</i> , 2020, 65, 05TR01.	3.0	123
32	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.	3.0	13
33	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.	3.0	10
34	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.	3.0	7
35	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.	3.0	204
36	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.	3.3	181

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37	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.	3.0	170
38	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.	3.0	115
39	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.	0.6	105
40	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.	3.0	70
41	Super-Resolution 1H Magnetic Resonance Spectroscopic Imaging Utilizing Deep Learning. <i>Frontiers in Oncology</i> , 2019, 9, 1010.	2.8	49
42	Generating Pareto Optimal Dose Distributions for Radiation Therapy Treatment Planning. <i>Lecture Notes in Computer Science</i> , 2019, , 59-67.	1.3	13
43	A Prospective 4 γ Radiation Therapy Clinical Study in Recurrent High-Grade Glioma Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 101, 144-151.	0.8	36
44	<sc>VMAT</sc> optimization with dynamic collimator rotation. <i>Medical Physics</i> , 2018, 45, 2399-2410.	3.0	15
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.	3.0	45
46	Fraction-variant beam orientation optimization for non-coplanar IMRT. <i>Physics in Medicine and Biology</i> , 2018, 63, 045015.	3.0	17
47	Fully automated organ segmentation in male pelvic CT images. <i>Physics in Medicine and Biology</i> , 2018, 63, 245015.	3.0	97
48	Accurate real time localization tracking in a clinical environment using Bluetooth Low Energy and deep learning. <i>PLoS ONE</i> , 2018, 13, e0205392.	2.5	43
49	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.	1.2	65
50	Treatment planning comparison of IMPT, VMAT and 4 γ radiotherapy for prostate cases. <i>Radiation Oncology</i> , 2017, 12, 10.	2.7	67
51	Deterministic direct aperture optimization using multiphase piecewise constant segmentation. <i>Medical Physics</i> , 2017, 44, 5596-5609.	3.0	12
52	Predicting liver SBRT eligibility and plan quality for VMAT and 4 γ plans. <i>Radiation Oncology</i> , 2017, 12, 70.	2.7	28
53	A comprehensive formulation for volumetric modulated arc therapy planning. <i>Medical Physics</i> , 2016, 43, 4263-4272.	3.0	17
54	Computerized triplet beam orientation optimization for MRI-guided Co γ 60 radiotherapy. <i>Medical Physics</i> , 2016, 43, 5667-5675.	3.0	14

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55	A novel software and conceptual design of the hardware platform for intensity modulated radiation therapy. <i>Medical Physics</i> , 2016, 43, 917-929.	3.0	14
56	Viability of Noncoplanar VMAT for liver SBRT compared with coplanar VMAT and beam orientation optimized 4 μ m IMRT. <i>Advances in Radiation Oncology</i> , 2016, 1, 67-75.	1.2	43
57	The development and verification of a highly accurate collision prediction model for automated noncoplanar plan delivery. <i>Medical Physics</i> , 2015, 42, 6457-6467.	3.0	53
58	Dose domain regularization of MLC leaf patterns for highly complex IMRT plans. <i>Medical Physics</i> , 2015, 42, 1858-1870.	3.0	23
59	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, 866-875.	0.8	31
60	4 μ m 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, 401-409.	0.8	62
61	Feasibility of extreme dose escalation for glioblastoma multiforme using 4 μ m radiotherapy. <i>Radiation Oncology</i> , 2014, 9, 239.	2.7	42
62	Feasibility of using intermediate x-ray energies for highly conformal extracranial radiotherapy. <i>Medical Physics</i> , 2014, 41, 041709.	3.0	11
63	Feasibility of prostate robotic radiation therapy on conventional C-arm linacs. <i>Practical Radiation Oncology</i> , 2014, 4, 254-260.	2.1	38
64	Integral dose investigation of non-coplanar treatment beam geometries in radiotherapy. <i>Medical Physics</i> , 2013, 41, 011905.	3.0	21