

Florian Kamp

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

957
citations

566801

15
h-index

454577

30
g-index

43
all docs

43
docs citations

43
times ranked

828
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray CT adaptation based on a 2D→3D deformable image registration framework using simulated in-room proton radiographies. <i>Physics in Medicine and Biology</i> , 2022, 67, 045003.	1.6	4
2	A patient-specific hybrid phantom for calculating radiation dose and equivalent dose to the whole body. <i>Physics in Medicine and Biology</i> , 2022, 67, 035005.	1.6	2
3	Evaluation of an anthropomorphic ion chamber and 3D gel dosimetry head phantom at a 0.35 T MR-linac using separate 1.5 T MR-scanners for gel readout. <i>Zeitschrift Fur Medizinische Physik</i> , 2022, , .	0.6	3
4	Deformable image registration of the treatment planning CT with proton radiographies in perspective of adaptive proton therapy. <i>Physics in Medicine and Biology</i> , 2021, 66, 045008.	1.6	9
5	Variance-based sensitivity analysis for uncertainties in proton therapy: A framework to assess the effect of simultaneous uncertainties in range, positioning, and RBE model predictions on RBE-weighted dose distributions. <i>Medical Physics</i> , 2021, 48, 805-818.	1.6	5
6	Porcine lung phantom-based validation of estimated 4D-MRI using orthogonal cine imaging for low-field MR-Linacs. <i>Physics in Medicine and Biology</i> , 2021, 66, 055006.	1.6	15
7	Accounting for prompt gamma emission and detection for range verification in proton therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2021, 66, 055005.	1.6	3
8	Measurement-based range evaluation for quality assurance of CBCT-based dose calculations in adaptive proton therapy. <i>Medical Physics</i> , 2021, 48, 4148-4159.	1.6	8
9	CyberKnife radiation therapy as a platform for translational mouse studies. <i>International Journal of Radiation Biology</i> , 2021, 97, 1261-1269.	1.0	1
10	Dosimetric comparison of MR-linac-based IMRT and conventional VMAT treatment plans for prostate cancer. <i>Radiation Oncology</i> , 2021, 16, 133.	1.2	23
11	Validation of proton dose calculation on scatter corrected 4D cone beam computed tomography using a porcine lung phantom. <i>Physics in Medicine and Biology</i> , 2021, 66, 175022.	1.6	6
12	Combining inter-observer variability, range and setup uncertainty in a variance-based sensitivity analysis for proton therapy. <i>Physics and Imaging in Radiation Oncology</i> , 2021, 20, 117-120.	1.2	5
13	Anthropomorphic lung phantom based validation of in-room proton therapy 4D-CBCT image correction for dose calculation. <i>Zeitschrift Fur Medizinische Physik</i> , 2020, 32, 74-74.	0.6	7
14	Medical physics challenges in clinical MR-guided radiotherapy. <i>Radiation Oncology</i> , 2020, 15, 93.	1.2	101
15	Modeling RBE-weighted dose variations in irregularly moving abdominal targets treated with carbon ion beams. <i>Medical Physics</i> , 2020, 47, 2768-2778.	1.6	7
16	The dosimetric impact of replacing the TG-43 algorithm by model based dose calculation for liver brachytherapy. <i>Radiation Oncology</i> , 2020, 15, 60.	1.2	10
17	Patient-specific CT calibration based on ion radiography for different detector configurations in ¹ H, ⁴ He and ¹² C ion pencil beam scanning. <i>Physics in Medicine and Biology</i> , 2020, 65, 245014.	1.6	7
18	Method to quickly and accurately calculate absorbed dose from therapeutic and stray photon exposures throughout the entire body in individual patients. <i>Medical Physics</i> , 2020, 47, 2254-2266.	1.6	11

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19	Real-time 4DMRI-based internal target volume definition for moving lung tumors. Medical Physics, 2020, 47, 1431-1442.	1.6	20
20	Dosimetric impact of geometric distortions in an MRI-only proton therapy workflow for lung, liver and pancreas. Zeitschrift Fur Medizinische Physik, 2020, , .	0.6	2
21	Joint Dose Minimization and Variance Optimization for Fluence-Modulated Proton CT. , 2020, , .		0
22	Evaluation of proton and photon dose distributions recalculated on 2D and 3D Unet-generated pseudoCTs from T1-weighted MR head scans. Acta Oncologica, 2019, 58, 1429-1434.	0.8	33
23	CBCT correction using a cycle-consistent generative adversarial network and unpaired training to enable photon and proton dose calculation. Physics in Medicine and Biology, 2019, 64, 225004.	1.6	79
24	Comparison of planned dose on different CT image sets to four-dimensional Monte Carlo dose recalculation using the patient's actual breathing trace for lung stereotactic body radiation therapy. Medical Physics, 2019, 46, 3268-3277.	1.6	9
25	A 2D-3D Deformable Image Registration Framework for Proton Radiographies in Adaptive Radiation Therapy. , 2019, , .		2
26	Comparing Unet training with three different datasets to correct CBCT images for prostate radiotherapy dose calculations. Physics in Medicine and Biology, 2019, 64, 035011.	1.6	56
27	Dose-guided patient positioning in proton radiotherapy using multicriteria-optimization. Zeitschrift Fur Medizinische Physik, 2019, 29, 216-228.	0.6	19
28	Feasibility of 4DCBCT-based proton dose calculation: An ex vivo porcine lung phantom study. Zeitschrift Fur Medizinische Physik, 2019, 29, 249-261.	0.6	16
29	Application of variance-based uncertainty and sensitivity analysis to biological modeling in carbon ion treatment plans. Medical Physics, 2019, 46, 437-447.	1.6	7
30	ScatterNet: A convolutional neural network for cone-beam CT intensity correction. Medical Physics, 2018, 45, 4916-4926.	1.6	101
31	Impact of interpatient variability on organ dose estimates according to MIRD schema: Uncertainty and variance-based sensitivity analysis. Medical Physics, 2018, 45, 3391-3403.	1.6	18
32	A novel method for interactive multi-objective dose-guided patient positioning. Physics in Medicine and Biology, 2017, 62, 165-185.	1.6	6
33	Abstract ID: 85 Investigating the physics of a CBCT projection shading correction based on a prior CT. Physica Medica, 2017, 42, 17-18.	0.4	0
34	Multi-criterial patient positioning based on dose recalculation on scatter-corrected CBCT images. Radiotherapy and Oncology, 2017, 125, 464-469.	0.3	15
35	A Monte-Carlo study to assess the effect of 1.5 T magnetic fields on the overall robustness of pencil-beam scanning proton radiotherapy plans for prostate cancer. Physics in Medicine and Biology, 2017, 62, 8470-8482.	1.6	15
36	Decomposing a prior-CT-based cone-beam CT projection correction algorithm into scatter and beam hardening components. Physics and Imaging in Radiation Oncology, 2017, 3, 49-52.	1.2	32

#	ARTICLE	IF	CITATIONS
37	Investigating deformable image registration and scatter correction for CBCT-based dose calculation in adaptive IMPT. Medical Physics, 2016, 43, 5635-5646.	1.6	92
38	EUD-based biological optimization for carbon ion therapy. Medical Physics, 2015, 42, 6248-6257.	1.6	7
39	Investigating CT to CBCT image registration for head and neck proton therapy as a tool for daily dose recalculation. Medical Physics, 2015, 42, 1354-1366.	1.6	115
40	Phantom based evaluation of CT to CBCT image registration for proton therapy dose recalculation. Physics in Medicine and Biology, 2015, 60, 595-613.	1.6	49
41	Fast Biological Modeling for Voxel-based Heavy Ion Treatment Planning Using the Mechanistic Repair-Misrepair-Fixation Model and Nuclear Fragment Spectra. International Journal of Radiation Oncology Biology Physics, 2015, 93, 557-568.	0.4	32