Marc Kachelrieß

List of Publications by Year in descending order

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ΜΑΡΟ ΚΑΟΗΕΙ ΡΙΕΑΫ

#	Article	IF	CITATIONS
1	Dose reduction potential in diagnostic single energy CT through patientâ€specific prefilters and a wider range of tube voltages. Medical Physics, 2022, 49, 93-106.	3.0	7
2	CycN-Net: A Convolutional Neural Network Specialized for 4D CBCT Images Refinement. IEEE Transactions on Medical Imaging, 2021, 40, 3054-3064.	8.9	9
3	Delayed contrast dynamics as marker of regional impairment in pulmonary fibrosis using 5D MRI - a pilot study. British Journal of Radiology, 2020, 93, 20190121.	2.2	6
4	Highâ€quality initial imageâ€guided 4D CBCT reconstruction. Medical Physics, 2020, 47, 2099-2115.	3.0	20
5	CT-based attenuation correction of whole-body radiotherapy treatment positioning devices in PET/MRI hybrid imaging. Physics in Medicine and Biology, 2020, 65, 23NT02.	3.0	4
6	Comparing the effectiveness and efficiency of various gating approaches for PBS proton therapy of pancreatic cancer using 4D-MRI datasets. Physics in Medicine and Biology, 2019, 64, 085011.	3.0	10
7	Synthetic 4D-CT of the thorax for treatment plan adaptation on MR-guided radiotherapy systems. Physics in Medicine and Biology, 2019, 64, 115005.	3.0	10
8	4DMRI-based investigation on the interplay effect for pencil beam scanning proton therapy of pancreatic cancer patients. Radiation Oncology, 2019, 14, 30.	2.7	21
9	The value of iterative metal artifact reduction algorithms during antenna positioning for CT-guided microwave ablation. International Journal of Hyperthermia, 2019, 36, 1222-1231.	2.5	4
10	Realâ€ŧime scatter estimation for medical CT using the deep scatter estimation: Method and robustness analysis with respect to different anatomies, dose levels, tube voltages, and data truncation. Medical Physics, 2019, 46, 238-249.	3.0	65
11	Motion vector field phase-to-amplitude resampling for 4D motion-compensated cone-beam CT. Physics in Medicine and Biology, 2018, 63, 035032.	3.0	8
12	The impact of 2D cine MR imaging parameters on automated tumor and organ localization for MR-guided real-time adaptive radiotherapy. Physics in Medicine and Biology, 2018, 63, 235005.	3.0	10
13	Two methods for reducing moving metal artifacts in coneâ€beam <scp>CT</scp> . Medical Physics, 2018, 45, 3671-3680.	3.0	8
14	Deep Scatter Estimation (DSE): Accurate Real-Time Scatter Estimation for X-Ray CT Using a Deep Convolutional Neural Network. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	68
15	4D dose calculation for pencil beam scanning proton therapy of pancreatic cancer using repeated 4DMRI datasets. Physics in Medicine and Biology, 2018, 63, 165005.	3.0	18
16	Singular value-guided similarity filter improves detection of vessels in low-dose dynamic CT angiography: application to DIEP flap studies. Physics in Medicine and Biology, 2018, 63, 165003.	3.0	1
17	4D respiratory motionâ€compensated image reconstruction of freeâ€breathing radial MR data with very high undersampling. Magnetic Resonance in Medicine, 2017, 77, 1170-1183.	3.0	71
18	Scatter correction using a primary modulator on a clinical angiography Câ€arm CT system. Medical Physics, 2017, 44, e125-e137.	3.0	12

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19	Noise reduction and functional maps image quality improvement in dynamic CT perfusion using a new k-means clustering guided bilateral filter (KMGB). Medical Physics, 2017, 44, 3464-3482.	3.0	27
20	Effects of arm truncation on the appearance of the halo artifact in 68Ga-PSMA-11 (HBED-CC) PET/MRI. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 1636-1646.	6.4	17
21	Improved clinical workflow for simultaneous whole-body PET/MRI using high-resolution CAIPIRINHA-accelerated MR-based attenuation correction. European Journal of Radiology, 2017, 96, 12-20.	2.6	24
22	MLAA-based attenuation correction of flexible hardware components in hybrid PET/MR imaging. EJNMMI Physics, 2017, 4, 12.	2.7	22
23	In Vivo Quantification of Myocardial Infarction in Mice Using Micro-CT and a Novel Blood Pool Agent. Contrast Media and Molecular Imaging, 2017, 2017, 1-7.	0.8	11
24	Investigation of the halo-artifact in 68Ga-PSMA-11-PET/MRI. PLoS ONE, 2017, 12, e0183329.	2.5	53
25	MLAA-based headphone attenuation estimation in hybrid PET/MR imaging. , 2016, , .		Ο
26	An efficient computational approach to model statistical correlations in photon counting xâ€ r ay detectors. Medical Physics, 2016, 43, 3945-3960.	3.0	21
27	The rotate-plus-shift C-arm trajectory. Part I. Complete data with less than 180° rotation. Medical Physics, 2016, 43, 2295-2302.	3.0	18
28	The rotate-plus-shift C-arm trajectory. Part II. Exact reconstruction from less than 180° rotation. Medical Physics, 2016, 43, 2303-2310.	3.0	4
29	Respiratory motion compensation for simultaneous PET/MR based on highly undersampled MR data. Medical Physics, 2016, 43, 6234-6245.	3.0	28
30	Advanced abdominal imaging with dual energy CT is feasible without increasing radiation dose. Cancer Imaging, 2016, 16, 15.	2.8	52
31	MR–Consistent Simultaneous Reconstruction of Attenuation and Activity for Non–TOF PET/MR. IEEE Transactions on Nuclear Science, 2016, 63, 2443-2451.	2.0	10
32	Robust primary modulationâ€based scatter estimation for coneâ€beam CT. Medical Physics, 2015, 42, 469-478.	3.0	31
33	Performance of today's dual energy CT and future multi energy CT in virtual nonâ€contrast imaging and in iodine quantification: A simulation study. Medical Physics, 2015, 42, 4349-4366.	3.0	181
34	The application of metal artifact reduction (MAR) in CT scans for radiation oncology by monoenergetic extrapolation with a DECT scanner. Zeitschrift Fur Medizinische Physik, 2015, 25, 314-325.	1.5	20
35	Priorâ€based artifact correction (PBAC) in computed tomography. Medical Physics, 2014, 41, 021906.	3.0	31
36	Monitoring cardiac motion in CT using a continuous wave radar embedded in the patient table. Medical Physics, 2014, 41, 081908.	3.0	7

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37	Assessment of dedicated low-dose cardiac micro-CT reconstruction algorithms using the left ventricular volume of small rodents as a performance measure. Medical Physics, 2014, 41, 051908.	3.0	11
38	Alpha image reconstruction (AIR): A new iterative CT image reconstruction approach using voxel-wise alpha blending. Medical Physics, 2014, 41, 061914.	3.0	6
39	Effects of ray profile modeling on resolution recovery in clinical CT. Medical Physics, 2014, 41, 021907.	3.0	16
40	Recent developments of dual-energy CT in oncology. European Radiology, 2014, 24, 930-939.	4.5	84
41	Artifact model-based respiratory motion compensation (MoCo) for simultaneous PET/MR based on strongly undersampled radial MR data. , 2014, , .		4
42	Artifactâ€resistant motion estimation with a patientâ€specific artifact model for motionâ€compensated coneâ€beam CT. Medical Physics, 2013, 40, 101913.	3.0	51
43	Selfâ€adapting cyclic registration for motionâ€compensated coneâ€beam CT in imageâ€guided radiation therapy. Medical Physics, 2012, 39, 7603-7618.	3.0	44
44	Running prior for patient motion correction in low-dose 3D+time interventional flat detector CT. , 2012, , .		1
45	Reducing intra plane blurring in dental panoramas. , 2012, , .		0
46	Digitization and visibility issues in flat detector CT: A simulation study. , 2012, , .		3
47	CT data completion based on prior scans. , 2012, , .		0
48	Empirical Cupping Correction for CT Scanners with Primary Modulation (ECCP). Medical Physics, 2012, 39, 825-831.	3.0	21
49	An adaptive genetic algorithm for misalignment estimation (AGAME) in spiral, sequential and circular cone-beam micro-CT. , 2011, , .		2