

Reinhard R Beichel

List of Publications by Year in descending order

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26
papers

328
citations

933447

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27
all docs

27
docs citations

27
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantification of uptake in pelvis 18 F PET-CT images using a 3D localization and segmentation CNN. Medical Physics, 2022, 49, 1585-1598.	3.0	6
2	Noise-Based Image Harmonization Significantly Increases Repeatability and Reproducibility of Radiomics Features in PET Images: A Phantom Study. Tomography, 2022, 8, 1113-1128.	1.8	7
3	Quantitative Imaging in Radiation Treatment Planning. , 2021, , 1-20.		0
4	A 3D deep convolutional neural network approach for the automated measurement of cerebellum tracer uptake in FDG PET-CT scans. Medical Physics, 2020, 47, 1058-1066.	3.0	3
5	A unified framework for simultaneous assessment of accuracy, between-, and within-reader variability of image segmentations. Statistical Methods in Medical Research, 2020, 29, 3135-3152.	1.5	0
6	lapdMouse: associating lung anatomy with local particle deposition in mice. Journal of Applied Physiology, 2020, 128, 309-323.	2.5	9
7	The fractal geometry of bronchial trees differs by strain in mice. Journal of Applied Physiology, 2020, 128, 362-367.	2.5	7
8	Multisite Technical and Clinical Performance Evaluation of Quantitative Imaging Biomarkers from 3D FDG PET Segmentations of Head and Neck Cancer Images. Tomography, 2020, 6, 65-76.	1.8	4
9	Machine learning with the TCGA-HNSC dataset: improving usability by addressing inconsistency, sparsity, and high-dimensionality. BMC Bioinformatics, 2019, 20, 339.	2.6	19
10	FDG PET based prediction of response in head and neck cancer treatment: Assessment of new quantitative imaging features. PLoS ONE, 2019, 14, e0215465.	2.5	20
11	A Bayesian framework for performance assessment and comparison of imaging biomarker quantification methods. Statistical Methods in Medical Research, 2019, 28, 1003-1018.	1.5	3
12	Automated model-based quantitative analysis of phantoms with spherical inserts in FDG PET scans. Medical Physics, 2018, 45, 258-276.	3.0	12
13	Chest wall strapping increases expiratory airflow and detectable airway segments in computer tomographic scans of normal and obstructed lungs. Journal of Applied Physiology, 2018, 124, 1186-1193.	2.5	5
14	Pulmonary lobe separation in expiration chest CT scans based on subject-specific priors derived from inspiration scans. Journal of Medical Imaging, 2018, 5, 1.	1.5	2
15	Multi-site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. Medical Physics, 2017, 44, 479-496.	3.0	22
16	Semiautomated segmentation of head and neck cancers in 18 F-FDG PET scans: A just-enough interaction approach. Medical Physics, 2016, 43, 2948-2964.	3.0	41
17	Airway tree reconstruction in expiration chest CT scans facilitated by information transfer from corresponding inspiration scans. Medical Physics, 2016, 43, 1312-1323.	3.0	4
18	An approach for reducing the error rate in automated lung segmentation. Computers in Biology and Medicine, 2016, 76, 143-153.	7.0	18

#	ARTICLE	IF	CITATIONS
19	DICOM for quantitative imaging biomarker development: a standards based approach to sharing clinical data and structured PET/CT analysis results in head and neck cancer research. PeerJ, 2016, 4, e2057.	2.0	67
20	Lung Segmentation in 4D CT Volumes Based on Robust Active Shape Model Matching. International Journal of Biomedical Imaging, 2015, 2015, 1-9.	3.9	2
21	Robust Initialization of Active Shape Models for Lung Segmentation in CT Scans: A Feature-Based Atlas Approach. International Journal of Biomedical Imaging, 2014, 2014, 1-7.	3.9	20
22	A method for avoiding overlap of left and right lungs in shape model guided segmentation of lungs in CT volumes. Medical Physics, 2014, 41, 101908.	3.0	9
23	Efficient rendering of anatomical tree structures using geometry proxy. , 2013, , .		0
24	Lung segmentation refinement based on optimal surface finding utilizing a hybrid desktop/virtual reality user interface. Computerized Medical Imaging and Graphics, 2013, 37, 15-27.	5.8	22
25	Automated measurement of uptake in cerebellum, liver, and aortic arch in full-body FDG PET/CT scans. Medical Physics, 2012, 39, 3112-3123.	3.0	16
26	Computer-aided lymph node segmentation in volumetric CT data. Medical Physics, 2012, 39, 5419-5428.	3.0	10