

Reinhard R Beichel

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

328
citations

933447

10
h-index

839539

18
g-index

27
all docs

27
docs citations

27
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Semiautomated segmentation of head and neck cancers in 18F-FDG PET scans: A just-enough interaction approach. Medical Physics, 2016, 43, 2948-2964.	3.0	41
3	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
4	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
5	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
6	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
7	Machine learning with the TCGA-HNSC dataset: improving usability by addressing inconsistency, sparsity, and high-dimensionality. BMC Bioinformatics, 2019, 20, 339.	2.6	19
8	An approach for reducing the error rate in automated lung segmentation. Computers in Biology and Medicine, 2016, 76, 143-153.	7.0	18
9	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
10	Automated model-based quantitative analysis of phantoms with spherical inserts in FDG PET scans. Medical Physics, 2018, 45, 258-276.	3.0	12
11	Computer-aided lymph node segmentation in volumetric CT data. Medical Physics, 2012, 39, 5419-5428.	3.0	10
12	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
13	lapdMouse: associating lung anatomy with local particle deposition in mice. Journal of Applied Physiology, 2020, 128, 309-323.	2.5	9
14	The fractal geometry of bronchial trees differs by strain in mice. Journal of Applied Physiology, 2020, 128, 362-367.	2.5	7
15	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
16	Quantification of uptake in pelvis 18F FLT PET-CT images using a 3D localization and segmentation CNN. Medical Physics, 2022, 49, 1585-1598.	3.0	6
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	Efficient rendering of anatomical tree structures using geometry proxy. , 2013, , .		0
25	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
26	Quantitative Imaging in Radiation Treatment Planning. , 2021, , 1-20.		0