

Christian Bauer

List of Publications by Year in descending order

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31
papers

7,136
citations

567281
15
h-index

501196
28
g-index

33
all docs

33
docs citations

33
times ranked

11654
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Quantitative Imaging Informatics for Cancer Research. JCO Clinical Cancer Informatics, 2020, 4, 444-453.	2.1	11
3	lapdMouse: associating lung anatomy with local particle deposition in mice. Journal of Applied Physiology, 2020, 128, 309-323.	2.5	9
4	The fractal geometry of bronchial trees differs by strain in mice. Journal of Applied Physiology, 2020, 128, 362-367.	2.5	7
5	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
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	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
8	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
9	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
10	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
11	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
12	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
13	Graph-Based Airway Tree Reconstruction From Chest CT Scans: Evaluation of Different Features on Five Cohorts. IEEE Transactions on Medical Imaging, 2015, 34, 1063-1076.	8.9	14
14	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
15	Airway Tree Segmentation in Serial Block-Face Cryomicrotome Images of Rat Lungs. IEEE Transactions on Biomedical Engineering, 2014, 61, 119-130.	4.2	7
16	Efficient rendering of anatomical tree structures using geometry proxy. , 2013, , .		0
17	Heterogeneity and matching of ventilation and perfusion within anatomical lung units in rats. Respiratory Physiology and Neurobiology, 2013, 189, 594-606.	1.6	12
18	Air Trapping and Airflow Obstruction in Newborn Cystic Fibrosis Piglets. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 1434-1441.	5.6	60

#	ARTICLE	IF	CITATIONS
19	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
20	Liver segmentation in contrast enhanced CT data using graph cuts and interactive 3D segmentation refinement methods. Medical Physics, 2012, 39, 1361-1373.	3.0	45
21	3D Slicer as an image computing platform for the Quantitative Imaging Network. Magnetic Resonance Imaging, 2012, 30, 1323-1341.	1.8	5,126
22	Extraction of Airways From CT (EXACT'09). IEEE Transactions on Medical Imaging, 2012, 31, 2093-2107.	8.9	173
23	Computer-aided analysis of airway trees in micro-CT scans of ex vivo porcine lung tissue. Computerized Medical Imaging and Graphics, 2012, 36, 601-609.	5.8	7
24	Automated 3-D Segmentation of Lungs With Lung Cancer in CT Data Using a Novel Robust Active Shape Model Approach. IEEE Transactions on Medical Imaging, 2012, 31, 449-460.	8.9	143
25	Segmentation of interwoven 3d tubular tree structures utilizing shape priors and graph cuts. Medical Image Analysis, 2010, 14, 172-184.	11.6	91
26	Variational segmentation of elongated volumetric structures. , 2010, , .		13
27	Comparison and Evaluation of Methods for Liver Segmentation From CT Datasets. IEEE Transactions on Medical Imaging, 2009, 28, 1251-1265.	8.9	848
28	Standardized evaluation methodology and reference database for evaluating coronary artery centerline extraction algorithms. Medical Image Analysis, 2009, 13, 701-714.	11.6	295
29	A Novel Approach for Detection of Tubular Objects and Its Application to Medical Image Analysis. Lecture Notes in Computer Science, 2008, , 163-172.	1.3	40
30	Extracting Curve Skeletons from Gray Value Images for Virtual Endoscopy. Lecture Notes in Computer Science, 2008, , 393-402.	1.3	20
31	Edge Based Tube Detection for Coronary Artery Centerline Extraction. , 2008, , .		21