

Christian Bauer

List of Publications by Year in descending order

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31
papers

7,136
citations

567144

15
h-index

501076

28
g-index

33
all docs

33
docs citations

33
times ranked

11654
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Slicer as an image computing platform for the Quantitative Imaging Network. Magnetic Resonance Imaging, 2012, 30, 1323-1341.	1.0	5,126
2	Comparison and Evaluation of Methods for Liver Segmentation From CT Datasets. IEEE Transactions on Medical Imaging, 2009, 28, 1251-1265.	5.4	848
3	Standardized evaluation methodology and reference database for evaluating coronary artery centerline extraction algorithms. Medical Image Analysis, 2009, 13, 701-714.	7.0	295
4	Extraction of Airways From CT (EXACT'09). IEEE Transactions on Medical Imaging, 2012, 31, 2093-2107.	5.4	173
5	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.	5.4	143
6	Segmentation of interwoven 3d tubular tree structures utilizing shape priors and graph cuts. Medical Image Analysis, 2010, 14, 172-184.	7.0	91
7	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.	0.9	67
8	Air Trapping and Airflow Obstruction in Newborn Cystic Fibrosis Piglets. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 1434-1441.	2.5	60
9	Liver segmentation in contrast enhanced CT data using graph cuts and interactive 3D segmentation refinement methods. Medical Physics, 2012, 39, 1361-1373.	1.6	45
10	Semiautomated segmentation of head and neck cancers in 18F-FDG PET scans: A just-enough interaction approach. Medical Physics, 2016, 43, 2948-2964.	1.6	41
11	A Novel Approach for Detection of Tubular Objects and Its Application to Medical Image Analysis. Lecture Notes in Computer Science, 2008, , 163-172.	1.0	40
12	Multi-site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. Medical Physics, 2017, 44, 479-496.	1.6	22
13	Edge Based Tube Detection for Coronary Artery Centerline Extraction. , 2008, , .		21
14	FDG PET based prediction of response in head and neck cancer treatment: Assessment of new quantitative imaging features. PLoS ONE, 2019, 14, e0215465.	1.1	20
15	Extracting Curve Skeletons from Gray Value Images for Virtual Endoscopy. Lecture Notes in Computer Science, 2008, , 393-402.	1.0	20
16	Automated measurement of uptake in cerebellum, liver, and aortic arch in full-body FDG PET/CT scans. Medical Physics, 2012, 39, 3112-3123.	1.6	16
17	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.	5.4	14
18	Variational segmentation of elongated volumetric structures. , 2010, , .		13

#	ARTICLE	IF	CITATIONS
19	Heterogeneity and matching of ventilation and perfusion within anatomical lung units in rats. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 594-606.	0.7	12
20	Quantitative Imaging Informatics for Cancer Research. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 444-453.	1.0	11
21	A method for avoiding overlap of left and right lungs in shape model guided segmentation of lungs in CT volumes. <i>Medical Physics</i> , 2014, 41, 101908.	1.6	9
22	lapdMouse: associating lung anatomy with local particle deposition in mice. <i>Journal of Applied Physiology</i> , 2020, 128, 309-323.	1.2	9
23	Computer-aided analysis of airway trees in micro-CT scans of ex vivo porcine lung tissue. <i>Computerized Medical Imaging and Graphics</i> , 2012, 36, 601-609.	3.5	7
24	Airway Tree Segmentation in Serial Block-Face Cryomicrotome Images of Rat Lungs. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 119-130.	2.5	7
25	The fractal geometry of bronchial trees differs by strain in mice. <i>Journal of Applied Physiology</i> , 2020, 128, 362-367.	1.2	7
26	Chest wall strapping increases expiratory airflow and detectable airway segments in computer tomographic scans of normal and obstructed lungs. <i>Journal of Applied Physiology</i> , 2018, 124, 1186-1193.	1.2	5
27	Airway tree reconstruction in expiration chest CT scans facilitated by information transfer from corresponding inspiration scans. <i>Medical Physics</i> , 2016, 43, 1312-1323.	1.6	4
28	Multisite Technical and Clinical Performance Evaluation of Quantitative Imaging Biomarkers from 3D FDG PET Segmentations of Head and Neck Cancer Images. <i>Tomography</i> , 2020, 6, 65-76.	0.8	4
29	A 3D deep convolutional neural network approach for the automated measurement of cerebellum tracer uptake in FDG PET-CT scans. <i>Medical Physics</i> , 2020, 47, 1058-1066.	1.6	3
30	Pulmonary lobe separation in expiration chest CT scans based on subject-specific priors derived from inspiration scans. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	2
31	Efficient rendering of anatomical tree structures using geometry proxy. , 2013, , .		0