

Christian Bauer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10409108/publications.pdf>

Version: 2024-02-01

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 | 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 |
| 2 | Quantitative Imaging Informatics for Cancer Research. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 444-453. | 1.0 | 11 |
| 3 | lapdMouse: associating lung anatomy with local particle deposition in mice. <i>Journal of Applied Physiology</i> , 2020, 128, 309-323. | 1.2 | 9 |
| 4 | The fractal geometry of bronchial trees differs by strain in mice. <i>Journal of Applied Physiology</i> , 2020, 128, 362-367. | 1.2 | 7 |
| 5 | 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 |
| 6 | FDG PET based prediction of response in head and neck cancer treatment: Assessment of new quantitative imaging features. <i>PLoS ONE</i> , 2019, 14, e0215465. | 1.1 | 20 |
| 7 | 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 |
| 8 | 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 |
| 9 | Multi-site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. <i>Medical Physics</i> , 2017, 44, 479-496. | 1.6 | 22 |
| 10 | Semiautomated segmentation of head and neck cancers in 18F-FDG PET scans: A just-enough interaction approach. <i>Medical Physics</i> , 2016, 43, 2948-2964. | 1.6 | 41 |
| 11 | 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 |
| 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. <i>PeerJ</i> , 2016, 4, e2057. | 0.9 | 67 |
| 13 | Graph-Based Airway Tree Reconstruction From Chest CT Scans: Evaluation of Different Features on Five Cohorts. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1063-1076. | 5.4 | 14 |
| 14 | 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 |
| 15 | 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 |
| 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. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 594-606. | 0.7 | 12 |
| 18 | Air Trapping and Airflow Obstruction in Newborn Cystic Fibrosis Piglets. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 1434-1441. | 2.5 | 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. | 1.6 | 16 |
| 20 | 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 |
| 21 | 3D Slicer as an image computing platform for the Quantitative Imaging Network. Magnetic Resonance Imaging, 2012, 30, 1323-1341. | 1.0 | 5,126 |
| 22 | Extraction of Airways From CT (EXACT'09). IEEE Transactions on Medical Imaging, 2012, 31, 2093-2107. | 5.4 | 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. | 3.5 | 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. | 5.4 | 143 |
| 25 | Segmentation of interwoven 3d tubular tree structures utilizing shape priors and graph cuts. Medical Image Analysis, 2010, 14, 172-184. | 7.0 | 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. | 5.4 | 848 |
| 28 | Standardized evaluation methodology and reference database for evaluating coronary artery centerline extraction algorithms. Medical Image Analysis, 2009, 13, 701-714. | 7.0 | 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. | 1.0 | 40 |
| 30 | Extracting Curve Skeletons from Gray Value Images for Virtual Endoscopy. Lecture Notes in Computer Science, 2008, , 393-402. | 1.0 | 20 |
| 31 | Edge Based Tube Detection for Coronary Artery Centerline Extraction. , 2008, , . | | 21 |