

Ziyue Xu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5137901/ziyue-xu-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

4,676
citations

24
h-index

68
g-index

84
ext. papers

6,139
ext. citations

4.7
avg, IF

5.62
L-index

#	Paper	IF	Citations
74	Deep Convolutional Neural Networks for Computer-Aided Detection: CNN Architectures, Dataset Characteristics and Transfer Learning. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1285-98	11.7	2653
73	A review on segmentation of positron emission tomography images. <i>Computers in Biology and Medicine</i> , 2014 , 50, 76-96	7	219
72	Artificial intelligence for the detection of COVID-19 pneumonia on chest CT using multinational datasets. <i>Nature Communications</i> , 2020 , 11, 4080	17.4	202
71	Segmentation and Image Analysis of Abnormal Lungs at CT: Current Approaches, Challenges, and Future Trends. <i>Radiographics</i> , 2015 , 35, 1056-76	5.4	126
70	Holistic classification of CT attenuation patterns for interstitial lung diseases via deep convolutional neural networks. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018 , 6, 1-6	0.9	124
69	Joint segmentation of anatomical and functional images: applications in quantification of lesions from PET, PET-CT, MRI-PET, and MRI-PET-CT images. <i>Medical Image Analysis</i> , 2013 , 17, 929-45	15.4	117
68	A generic approach to pathological lung segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2293-310	11.7	98
67	Standardized Assessment of Automatic Segmentation of White Matter Hyperintensities and Results of the WMH Segmentation Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 2556-2568	11.7	87
66	Generalizing Deep Learning for Medical Image Segmentation to Unseen Domains via Deep Stacked Transformation. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2531-2540	11.7	82
65	Mycobacterium tuberculosis dysregulates MMP/TIMP balance to drive rapid cavitation and unrestrained bacterial proliferation. <i>Journal of Pathology</i> , 2015 , 235, 431-44	9.4	68
64	CT-Realistic Lung Nodule Simulation from 3D Conditional Generative Adversarial Networks for Robust Lung Segmentation. <i>Lecture Notes in Computer Science</i> , 2018 , 732-740	0.9	57
63	Progressive and Multi-path Holistically Nested Neural Networks for Pathological Lung Segmentation from CT Images. <i>Lecture Notes in Computer Science</i> , 2017 , 621-629	0.9	56
62	Segmentation of PET images for computer-aided functional quantification of tuberculosis in small animal models. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 711-24	5	48
61	Federated semi-supervised learning for COVID region segmentation in chest CT using multi-national data from China, Italy, Japan. <i>Medical Image Analysis</i> , 2021 , 70, 101992	15.4	45
60	Mouse model of pulmonary cavitory tuberculosis and expression of matrix metalloproteinase-9. <i>DMM Disease Models and Mechanisms</i> , 2016 , 9, 779-88	4.1	39
59	Deep vessel tracking: A generalized probabilistic approach via deep learning 2016 ,		35
58	Lymphocyte-driven regional immunopathology in pneumonitis caused by impaired central immune tolerance. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	31

57	3D Convolutional Neural Networks with Graph Refinement for Airway Segmentation Using Incomplete Data Labels. <i>Lecture Notes in Computer Science</i> , 2017 , 141-149	0.9	30
56	When Radiology Report Generation Meets Knowledge Graph. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020 , 34, 12910-12917	5	25
55	Capsules for biomedical image segmentation. <i>Medical Image Analysis</i> , 2021 , 68, 101889	15.4	25
54	Federated learning improves site performance in multicenter deep learning without data sharing. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021 , 28, 1259-1264	8.6	25
53	Joint solution for PET image segmentation, denoising, and partial volume correction. <i>Medical Image Analysis</i> , 2018 , 46, 229-243	15.4	24
52	A hybrid method for airway segmentation and automated measurement of bronchial wall thickness on CT. <i>Medical Image Analysis</i> , 2015 , 24, 1-17	15.4	24
51	Loss in lung volume and changes in the immune response demonstrate disease progression in African green monkeys infected by small-particle aerosol and intratracheal exposure to Nipah virus. <i>PLoS Neglected Tropical Diseases</i> , 2017 , 11, e0005532	4.8	24
50	Determination of disease severity in COVID-19 patients using deep learning in chest X-ray images. <i>Diagnostic and Interventional Radiology</i> , 2021 , 27, 20-27	3.2	24
49	Characterization of Lung Nodule Malignancy Using Hybrid Shape and Appearance Features. <i>Lecture Notes in Computer Science</i> , 2016 , 662-670	0.9	21
48	Segmentation label propagation using deep convolutional neural networks and dense conditional random field 2016 ,		21
47	Characterization of trabecular bone plate-rod microarchitecture using multirow detector CT and the tensor scale: Algorithms, validation, and applications to pilot human studies. <i>Medical Physics</i> , 2015 , 42, 5410-25	4.4	18
46	Computer-aided detection and quantification of cavitory tuberculosis from CT scans. <i>Medical Physics</i> , 2013 , 40, 113701	4.4	18
45	Pathological Pulmonary Lobe Segmentation from CT Images Using Progressive Holistically Nested Neural Networks and Random Walker. <i>Lecture Notes in Computer Science</i> , 2017 , 195-203	0.9	18
44	A multichannel block-matching denoising algorithm for spectral photon-counting CT images. <i>Medical Physics</i> , 2017 , 44, 2447-2452	4.4	15
43	Data Augmentation and Transfer Learning to Improve Generalizability of an Automated Prostate Segmentation Model. <i>American Journal of Roentgenology</i> , 2020 , 215, 1403-1410	5.4	15
42	Segmentation based denoising of PET images: an iterative approach via regional means and affinity propagation. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 698-705	0.9	14
41	Atlas-based rib-bone detection in chest X-rays. <i>Computerized Medical Imaging and Graphics</i> , 2016 , 51, 32-9	7.6	13
40	Spatially constrained random walk approach for accurate estimation of airway wall surfaces. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 559-66	0.9	12

39	Searching Learning Strategy with Reinforcement Learning for 3D Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 3-11	0.9	12
38	NeurReg: Neural Registration and Its Application to Image Segmentation 2020 ,		12
37	Quantitative Image Quality Comparison of Reduced- and Standard-Dose Dual-Energy Multiphase Chest, Abdomen, and Pelvis CT. <i>Tomography</i> , 2017 , 3, 114-122	3.1	10
36	Cough Frequency During Treatment Associated With Baseline Cavitory Volume and Proximity to the Airway in Pulmonary TB. <i>Chest</i> , 2018 , 153, 1358-1367	5.3	9
35	A hybrid multi-scale approach to automatic airway tree segmentation from CT scans 2013 ,		9
34	Quantitative characterization of trabecular bone micro-architecture using tensor scale and multi-detector CT imaging. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 124-31	0.9	9
33	Tensor scale: An analytic approach with efficient computation and applications. <i>Computer Vision and Image Understanding</i> , 2012 , 116, 1060-1075	4.3	8
32	Rapid Artificial Intelligence Solutions in a Pandemic - The COVID-19-20 Lung CT Lesion Segmentation Challenge 2021 ,		8
31	Going to Extremes: Weakly Supervised Medical Image Segmentation. <i>Machine Learning and Knowledge Extraction</i> , 2021 , 3, 507-524	3.1	8
30	Robust segmentation and accurate target definition for positron emission tomography images using Affinity Propagation 2013 ,		7
29	CT and clinical assessment in asymptomatic and pre-symptomatic patients with early SARS-CoV-2 in outbreak settings. <i>European Radiology</i> , 2021 , 31, 3165-3176	8	7
28	Federated Whole Prostate Segmentation in MRI with Personalized Neural Architectures. <i>Lecture Notes in Computer Science</i> , 2021 , 357-366	0.9	7
27	Three Aspects on Using Convolutional Neural Networks for Computer-Aided Detection in Medical Imaging. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 113-136	1.1	6
26	Efficient ribcage segmentation from CT scans using shape features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 2899-902	0.9	6
25	Weakly Supervised Segmentation from Extreme Points. <i>Lecture Notes in Computer Science</i> , 2019 , 42-50	0.9	6
24	Fuzzy Connectedness Image Co-segmentation for HybridPET/MRI and PET/CT Scans. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015 , 15-24	0.3	5
23	Tunable CT Lung Nodule Synthesis Conditioned on Background Image and Semantic Features. <i>Lecture Notes in Computer Science</i> , 2019 , 62-70	0.9	5
22	Cardiac Segmentation of LGE MRI with Noisy Labels. <i>Lecture Notes in Computer Science</i> , 2020 , 228-236	0.9	5

21	Multi-label Deep Regression and Unordered Pooling for Holistic Interstitial Lung Disease Pattern Detection. <i>Lecture Notes in Computer Science</i> , 2016 , 147-155	0.9	5
20	Accounting for Dependencies in Deep Learning Based Multiple Instance Learning for Whole Slide Imaging. <i>Lecture Notes in Computer Science</i> , 2021 , 329-338	0.9	5
19	Computer-aided pulmonary image analysis in small animal models. <i>Medical Physics</i> , 2015 , 42, 3896-910	4.4	4
18	Highly precise partial volume correction for PET images: An iterative approach via shape consistency 2015 ,		4
17	Can artificial intelligence predict the need for oxygen therapy in early stage COVID-19 pneumonia?		4
16	Generalized chest CT and lab curves throughout the course of COVID-19. <i>Scientific Reports</i> , 2021 , 11, 6940	4.9	4
15	A deep-learning based artificial intelligence (AI) approach for differentiation of clear cell renal cell carcinoma from oncocytoma on multi-phasic MRI. <i>Clinical Imaging</i> , 2021 , 77, 291-298	2.7	4
14	White matter hyperintensity segmentation from T1 and FLAIR images using fully convolutional neural networks enhanced with residual connections 2018 ,		4
13	CIDI-lung-seg: a single-click annotation tool for automatic delineation of lungs from CT scans. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 1087-90	0.9	3
12	Accurate and efficient separation of left and right lungs from 3D CT scans: A generic hysteresis approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 6036-9	0.9	3
11	Improved tensor scale computation with application to medical image interpolation. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 64-80	7.6	3
10	Tensor scale-based anisotropic region growing for segmentation of elongated biological structures 2012 ,		3
9	2012 ,		3
8	Computer automated algorithm to evaluate cavitory lesions in adults with pulmonary tuberculosis. <i>Journal of Thoracic Disease</i> , 2017 , 9, E93-E96	2.6	2
7	An Analytic Approach To Tensor Scale with An Efficient Algorithm and Applications to Image Filtering 2010 , 2010, 429-434		2
6	3D Lightweight Network for Simultaneous Registration and Segmentation of Organs-at-Risk in CT Images of Head and Neck Cancer. <i>IEEE Transactions on Medical Imaging</i> , 2021 , PP,	11.7	2
5	GANDALF: Generative Adversarial Networks with Discriminator-Adaptive Loss Fine-Tuning for Alzheimer's Disease Diagnosis from MRI. <i>Lecture Notes in Computer Science</i> , 2020 , 688-697	0.9	2
4	LAMP: Large Deep Nets with Automated Model Parallelism for Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 374-384	0.9	2

3	Interactive 3D Segmentation Editing and Refinement via Gated Graph Neural Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 9-17	0.9	1
2	Interstitial Lung Diseases via Deep Convolutional Neural Networks: Segmentation Label Propagation, Unordered Pooling and Cross-Dataset Learning. <i>Advances in Computer Vision and Pattern Recognition</i> , 2017 , 97-111	1.1	1
1	Image Analyses 2017 , 223-237		