

Ziyue Xu

List of Publications by Year in Descending Order

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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	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
73	Generalized chest CT and lab curves throughout the course of COVID-19. <i>Scientific Reports</i> , 2021 , 11, 6940	4.9	4
72	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
71	Rapid Artificial Intelligence Solutions in a Pandemic - The COVID-19-20 Lung CT Lesion Segmentation Challenge 2021 ,		8
70	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
69	Going to Extremes: Weakly Supervised Medical Image Segmentation. <i>Machine Learning and Knowledge Extraction</i> , 2021 , 3, 507-524	3.1	8
68	Capsules for biomedical image segmentation. <i>Medical Image Analysis</i> , 2021 , 68, 101889	15.4	25
67	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
66	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
65	Federated Whole Prostate Segmentation in MRI with Personalized Neural Architectures. <i>Lecture Notes in Computer Science</i> , 2021 , 357-366	0.9	7
64	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
63	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
62	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
61	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
60	Cardiac Segmentation of LGE MRI with Noisy Labels. <i>Lecture Notes in Computer Science</i> , 2020 , 228-236	0.9	5
59	LAMP: Large Deep Nets with Automated Model Parallelism for Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 374-384	0.9	2
58	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

57	When Radiology Report Generation Meets Knowledge Graph. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020 , 34, 12910-12917	5	25
56	NeurReg: Neural Registration and Its Application to Image Segmentation 2020 ,		12
55	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
54	Lymphocyte-driven regional immunopathology in pneumonitis caused by impaired central immune tolerance. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	31
53	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
52	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
51	Searching Learning Strategy with Reinforcement Learning for 3D Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 3-11	0.9	12
50	Interactive 3D Segmentation Editing and Refinement via Gated Graph Neural Networks. <i>Lecture Notes in Computer Science</i> , 2019 , 9-17	0.9	1
49	Weakly Supervised Segmentation from Extreme Points. <i>Lecture Notes in Computer Science</i> , 2019 , 42-50	0.9	6
48	Joint solution for PET image segmentation, denoising, and partial volume correction. <i>Medical Image Analysis</i> , 2018 , 46, 229-243	15.4	24
47	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
46	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
45	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
44	White matter hyperintensity segmentation from T1 and FLAIR images using fully convolutional neural networks enhanced with residual connections 2018 ,		4
43	A multichannel block-matching denoising algorithm for spectral photon-counting CT images. <i>Medical Physics</i> , 2017 , 44, 2447-2452	4.4	15
42	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
41	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
40	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

39	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
38	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
37	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
36	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
35	Image Analyses 2017 , 223-237		
34	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
33	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
32	Characterization of Lung Nodule Malignancy Using Hybrid Shape and Appearance Features. <i>Lecture Notes in Computer Science</i> , 2016 , 662-670	0.9	21
31	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
30	Segmentation label propagation using deep convolutional neural networks and dense conditional random field 2016 ,		21
29	Mouse model of pulmonary cavitary tuberculosis and expression of matrix metalloproteinase-9. <i>DMM Disease Models and Mechanisms</i> , 2016 , 9, 779-88	4.1	39
28	Atlas-based rib-bone detection in chest X-rays. <i>Computerized Medical Imaging and Graphics</i> , 2016 , 51, 32-9	7.6	13
27	Deep vessel tracking: A generalized probabilistic approach via deep learning 2016 ,		35
26	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
25	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
24	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
23	Computer-aided pulmonary image analysis in small animal models. <i>Medical Physics</i> , 2015 , 42, 3896-910	4.4	4
22	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

21	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
20	Highly precise partial volume correction for PET images: An iterative approach via shape consistency 2015 ,		4
19	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
18	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	4 ⁸
17	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
16	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
15	A generic approach to pathological lung segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 2293-310	11.7	98
14	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
13	A review on segmentation of positron emission tomography images. <i>Computers in Biology and Medicine</i> , 2014 , 50, 76-96	7	219
12	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
11	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
10	Robust segmentation and accurate target definition for positron emission tomography images using Affinity Propagation 2013 ,		7
9	A hybrid multi-scale approach to automatic airway tree segmentation from CT scans 2013 ,		9
8	Computer-aided detection and quantification of cavitary tuberculosis from CT scans. <i>Medical Physics</i> , 2013 , 40, 113701	4.4	18
7	Tensor scale: An analytic approach with efficient computation and applications. <i>Computer Vision and Image Understanding</i> , 2012 , 116, 1060-1075	4.3	8
6	Tensor scale-based anisotropic region growing for segmentation of elongated biological structures 2012 ,		3
5	2012 ,		3
4	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

3	Improved tensor scale computation with application to medical image interpolation. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 64-80	7.6	3
2	An Analytic Approach To Tensor Scale with An Efficient Algorithm and Applications to Image Filtering 2010 , 2010, 429-434		2
1	Can artificial intelligence predict the need for oxygen therapy in early stage COVID-19 pneumonia?		4