

Yiming Xiao

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.

37
papers

493
citations

12
h-index

21
g-index

41
ext. papers

669
ext. citations

3.6
avg, IF

3.78
L-index

#	Paper	IF	Citations
37	Multimodal 3D ultrasound and CT in image-guided spinal surgery: public database and new registration algorithms. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021 , 16, 555-565	3.9	0
36	Characterizing white matter alterations subject to clinical laterality in drug-naïve de novo Parkinson's disease. <i>Human Brain Mapping</i> , 2021 , 42, 4465-4477	5.9	4
35	Image Guidance in Deep Brain Stimulation Surgery to Treat Parkinson's Disease: A Comprehensive Review. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1024-1033	5	11
34	Statistical morphological analysis reveals characteristic paraspinal muscle asymmetry in unilateral lumbar disc herniation. <i>Scientific Reports</i> , 2021 , 11, 15576	4.9	2
33	Robust Ultrasound-to-Ultrasound Registration for Intra-operative Brain Shift Correction with a Siamese Neural Network. <i>Lecture Notes in Computer Science</i> , 2021 , 85-95	0.9	0
32	A Radiomics-Based Machine Learning Approach to Assess Collateral Circulation in Ischemic Stroke on Non-contrast Computed Tomography. <i>Lecture Notes in Computer Science</i> , 2020 , 24-33	0.9	
31	Automatic collateral circulation scoring in ischemic stroke using 4D CT angiography with low-rank and sparse matrix decomposition. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020 , 15, 1501-1511	3.9	4
30	Direct visualization and characterization of the human zona incerta and surrounding structures. <i>Human Brain Mapping</i> , 2020 , 41, 4500-4517	5.9	12
29	Evaluation of MRI to Ultrasound Registration Methods for Brain Shift Correction: The CuRIOUS2018 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 777-786	11.7	24
28	An accurate registration of the BigBrain dataset with the MNI PD25 and ICBM152 atlases. <i>Scientific Data</i> , 2019 , 6, 210	8.2	12
27	Automatic Paraspinal Muscle Segmentation in Patients with Lumbar Pathology Using Deep Convolutional Neural Network. <i>Lecture Notes in Computer Science</i> , 2019 , 318-325	0.9	2
26	18F-FACBC PET/MRI in Diagnostic Assessment and Neurosurgery of Gliomas. <i>Clinical Nuclear Medicine</i> , 2019 , 44, 550-559	1.7	14
25	Determining blood flow direction from short neurovascular surgical microscope videos. <i>Healthcare Technology Letters</i> , 2019 , 6, 191-196	1.9	0
24	ARENA: Inter-modality affine registration using evolutionary strategy. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 441-450	3.9	10
23	Intra-operative Video Characterization of Carotid Artery Pulsation Patterns in Case Series with Post-endarterectomy Hypertension and Hyperperfusion Syndrome. <i>Translational Stroke Research</i> , 2018 , 9, 452-458	7.8	2
22	An augmented-reality system prototype for guiding transcranial Doppler ultrasound examination. <i>Multimedia Tools and Applications</i> , 2018 , 77, 27789-27805	2.5	2
21	High-Dynamic-Range Ultrasound: Application for Imaging Tendon Pathology. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 1525-1532	3.5	1

20	Nonlinear deformation of tractography in ultrasound-guided low-grade gliomas resection. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018 , 13, 457-467	3.9	10
19	Population-averaged MRI atlases for automated image processing and assessments of lumbar paraspinous muscles. <i>European Spine Journal</i> , 2018 , 27, 2442-2448	2.7	10
18	MARCEL (Inter-Modality Affine Registration with CorrELation Ratio): An Application for Brain Shift Correction in Ultrasound-Guided Brain Tumor Resection. <i>Lecture Notes in Computer Science</i> , 2018 , 55-63	0.9	1
17	Augmented reality guidance in cerebrovascular surgery using microscopic video enhancement. <i>Healthcare Technology Letters</i> , 2018 , 5, 158-161	1.9	15
16	REtroSpective Evaluation of Cerebral Tumors (RESECT): A clinical database of pre-operative MRI and intra-operative ultrasound in low-grade glioma surgeries. <i>Medical Physics</i> , 2017 , 44, 3875-3882	4.4	46
15	Multimodal F-Fluciclovine PET/MRI and Ultrasound-Guided Neurosurgery of an Anaplastic Oligodendroglioma. <i>World Neurosurgery</i> , 2017 , 108, 989.e1-989.e8	2.1	6
14	Towards Automatic Collateral Circulation Score Evaluation in Ischemic Stroke Using Image Decompositions and Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2017 , 158-167	0.9	3
13	A dataset of multi-contrast population-averaged brain MRI atlases of a Parkinson's disease cohort. <i>Data in Brief</i> , 2017 , 12, 370-379	1.2	53
12	User-friendly freehand ultrasound calibration using Lego bricks and automatic registration. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016 , 11, 1703-11	3.9	6
11	Multi-contrast unbiased MRI atlas of a Parkinson's disease population. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 329-41	3.9	44
10	Patch-based label fusion segmentation of brainstem structures with dual-contrast MRI for Parkinson's disease. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1029-41	3.9	13
9	Investigation of morphometric variability of subthalamic nucleus, red nucleus, and substantia nigra in advanced Parkinson's disease patients using automatic segmentation and PCA-based analysis. <i>Human Brain Mapping</i> , 2014 , 35, 4330-44	5.9	33
8	A Prospective Evaluation of Computer-Assisted Deep Brain Stimulation Trajectory Planning. <i>Lecture Notes in Computer Science</i> , 2013 , 42-49	0.9	5
7	Multicontrast multiecho FLASH MRI for targeting the subthalamic nucleus. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 627-40	3.3	31
6	Atlas-Based Segmentation of the Subthalamic Nucleus, Red Nucleus, and Substantia Nigra for Deep Brain Stimulation by Incorporating Multiple MRI Contrasts. <i>Lecture Notes in Computer Science</i> , 2012 , 135-145	0.9	10
5	Towards computer-assisted deep brain stimulation targeting with multiple active contacts. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 487-94	0.9	7
4	Evaluating intensity normalization on MRIs of human brain with multiple sclerosis. <i>Medical Image Analysis</i> , 2011 , 15, 267-82	15.4	97
3	Bridging micro and macro: accurate registration of the BigBrain dataset with the MNI PD25 and ICBM152 atlases		1

2	A novel prototype for virtual-reality-based deep brain stimulation trajectory planning using voodoo doll annotation and eye-tracking. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> ,1-7	0.9	0
1	Characterizing white matter alterations in drug-naïve de novo Parkinson's disease with diffusion MRI		1