

William M Wells

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

850
citations

567281
15
h-index

526287
27
g-index

41
all docs

41
docs citations

41
times ranked

1602
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporating Uncertainty Into Path Planning for Minimally Invasive Robotic Neurosurgery. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 5-16.	3.2	1
2	massNet: integrated processing and classification of spatially resolved mass spectrometry data using deep learning for rapid tumor delineation. Bioinformatics, 2022, 38, 2015-2021.	4.1	13
3	Model and Predict Age and Sex in Healthy Subjects Using Brain White Matter Features: A Deep Learning Approach. , 2022, , .		4
4	Image registration: Maximum likelihood, minimum entropy and deep learning. Medical Image Analysis, 2021, 69, 101939.	11.6	13
5	Unimodal Cyclic Regularization For Training Multimodal Image Registration Networks. , 2021, 2021, .		2
6	Peak learning of mass spectrometry imaging data using artificial neural networks. Nature Communications, 2021, 12, 5544.	12.8	43
7	Neuroimage signature from salient keypoints is highly specific to individuals and shared by close relatives. NeuroImage, 2020, 204, 116208.	4.2	8
8	A comparison of thin-plate spline deformation and finite element modeling to compensate for brain shift during tumor resection. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 75-85.	2.8	10
9	Improving detection of prostate cancer foci via information fusion of MRI and temporal enhanced ultrasound. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 1215-1223.	2.8	20
10	Detection of Brain Metastases with Deep Learning Single-Shot Detector Algorithms. Radiology, 2020, 295, 416-417.	7.3	5
11	Adversarial Uni- and Multi-modal Stream Networks for Multimodal Image Registration. Lecture Notes in Computer Science, 2020, 12263, 222-232.	1.3	39
12	Deformation Aware Augmented Reality for Craniotomy Using 3D/2D Non-rigid Registration of Cortical Vessels. Lecture Notes in Computer Science, 2020, 12264, 735-744.	1.3	7
13	Alignment of cortical vessels viewed through the surgical microscope with preoperative imaging to compensate for brain shift. , 2020, 11315, .		3
14	Registration uncertainty quantification via low-dimensional characterization of geometric deformations. Magnetic Resonance Imaging, 2019, 64, 122-131.	1.8	2
15	Deep Learning-Based Automatic Segmentation of Lumbosacral Nerves on CT for Spinal Intervention: A Translational Study. American Journal of Neuroradiology, 2019, 40, 1074-1081.	2.4	33
16	Automatic 3D Nonlinear Registration of Mass Spectrometry Imaging and Magnetic Resonance Imaging Data. Analytical Chemistry, 2019, 91, 6206-6216.	6.5	45
17	Groupwise structural parcellation of the whole cortex: A logistic random effects model based approach. NeuroImage, 2018, 170, 307-320.	4.2	12
18	Using the variogram for vector outlier screening: application to feature-based image registration. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1871-1880.	2.8	17

#	ARTICLE	IF	CITATIONS
19	Non-rigid registration of 3D ultrasound for neurosurgery using automatic feature detection and matching. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1525-1538.	2.8	40
20	DeepInfer: open-source deep learning deployment toolkit for image-guided therapy. Proceedings of SPIE, 2017, 10135, .	0.8	27
21	RF Heating of Gold Cup and Conductive Plastic Electrodes during Simultaneous EEG and MRI. Neurodiagnostic Journal,the, 2017, 57, 69-83.	0.1	12
22	Classification of clinical significance of MRI prostate findings using 3D convolutional neural networks. Proceedings of SPIE, 2017, 10134, .	0.8	42
23	Guest editorial of the IJCARS MICCAI 2016 special issue. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1243-1244.	2.8	0
24	Automated connectivity-based groupwise cortical atlas generation: Application to data of neurosurgical patients with brain tumors for cortical parcellation prediction. , 2017, , .		5
25	Probabilistic modeling of anatomical variability using a low dimensional parameterization of diffeomorphisms. Medical Image Analysis, 2017, 41, 55-62.	11.6	8
26	Comparison between two white matter segmentation strategies: An investigation into white matter segmentation consistency. , 2017, , .		7
27	Applications of Ultrasound in the Resection of Brain Tumors. Journal of Neuroimaging, 2017, 27, 5-15.	2.0	104
28	A Likelihood-Free Approach for Characterizing Heterogeneous Diseases in Large-Scale Studies. Lecture Notes in Computer Science, 2017, 10265, 170-183.	1.3	9
29	Robust spatio-temporal registration of 4D cardiac ultrasound sequences. Proceedings of SPIE, 2016, 9790, .	0.8	5
30	Group-wise parcellation of the cortex through multi-scale spectral clustering. Neurolmage, 2016, 136, 68-83.	4.2	38
31	Direct neural current imaging in an intact cerebellum with magnetic resonance imaging. Neurolmage, 2016, 132, 477-490.	4.2	27
32	Magnetic resonance imaging of ionic currents in solution: The effect of magnetohydrodynamic flow. Magnetic Resonance in Medicine, 2015, 74, 1145-1155.	3.0	8
33	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. Journal of Neuroimaging, 2015, 25, 875-882.	2.0	147
34	Hybrid Ultrasound and MRI Acquisitions for High-Speed Imaging of Respiratory Organ Motion. Lecture Notes in Computer Science, 2015, 9349, 315-322.	1.3	6
35	Concurrent tumor segmentation and registration with uncertainty-based sparse non-uniform graphs. Medical Image Analysis, 2014, 18, 647-659.	11.6	32
36	Tumor associated seizures in glioblastomas are influenced by survival gene expression in a region-specific manner: A gene expression imaging study. Epilepsy Research, 2014, 108, 843-852.	1.6	15

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37	Uncertainty-Driven Efficiently-Sampled Sparse Graphical Models for Concurrent Tumor Segmentation and Atlas Registration. , 2013, , .		2
38	Robust non-rigid registration and characterization of uncertainty. , 2012, , .		3
39	A mutual-information scale-space for image feature detection and feature-based classification of volumetric brain images. , 2010, , .		2
40	SIFT-Rank: Ordinal description for invariant feature correspondence. , 2009, , .		28
41	SIFT-Rank: Ordinal description for invariant feature correspondence. , 2009, , .		6