Ziga Spiclin

List of Publications by Year
in descending order

49 papers	670 citations	758635 12 h-index	580395 25 g-index
54 all docs	54 docs citations	54 times ranked	885 citing authors

#	Article	IF	Citations
1	Novel dataset and evaluation of state-of-the-art vessel segmentation methods. , 2022, , .		1
2	Deep Shape Features for Predicting Future Intracranial Aneurysm Growth. Frontiers in Physiology, 2021, 12, 644349.	1.3	7
3	Automated Cutting Plane Positioning for Intracranial Aneurysm Quantification. IEEE Transactions on Biomedical Engineering, 2020, 67, 577-587.	2.5	6
4	Practical Priors for Bayesian Inference of Latent Biomarkers. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 396-406.	3.9	0
5	Vascular Surface Segmentation for Intracranial Aneurysm Isolation and Quantification. Lecture Notes in Computer Science, 2020, , 128-137.	1.0	6
6	Reference-free error estimation for multiple measurement methods. Statistical Methods in Medical Research, 2019, 28, 2196-2209.	0.7	3
7	Registration based detection and quantification of intracranial aneurysm growth. , 2019, , .		1
8	3D–2D registration in endovascular image-guided surgery: evaluation of state-of-the-art methods on cerebral angiograms. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 193-202.	1.7	10
9	A Novel Public MR Image Dataset of Multiple Sclerosis Patients With Lesion Segmentations Based on Multi-rater Consensus. Neuroinformatics, 2018, 16, 51-63.	1.5	67
10	A Multi-scale Multiple Sclerosis Lesion Change Detection in a Multi-sequence MRI. Lecture Notes in Computer Science, 2018, , 353-360.	1.0	2
11	Predicting Nucleus Basalis of Meynert Volume from Compartmental Brain Segmentations. Lecture Notes in Computer Science, 2018, , 68-75.	1.0	1
12	Dataset variability leverages white-matter lesion segmentation performance with convolutional neural network. , 2018, , .		0
13	Regression without truth with Markov chain Monte-Carlo. Proceedings of SPIE, 2017, , .	0.8	0
14	Aneurysm detection in 3D cerebral angiograms based on intra-vascular distance mapping and convolutional neural networks. , 2017, , .		10
15	A framework for automatic creation of gold-standard rigid 3D–2D registration datasets. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 263-275.	1.7	11
16	Monoplane 3D–2D registration of cerebral angiograms based on multi-objective stratified optimization. Physics in Medicine and Biology, 2017, 62, 9377-9394.	1.6	1
17	Locally adaptive magnetic resonance intensity models for unsupervised segmentation of multiple sclerosis lesions. Journal of Medical Imaging, 2017, 5, 1.	0.8	2
18	Benchmarking Quantitative Imaging Biomarker Measurement Methods Without a Gold Standard. Lecture Notes in Computer Science, 2017, , 763-771.	1.0	0

#	Article	IF	Citations
19	Automatic cutting plane identification for computer-aided analysis of intracranial aneurysms. , 2016, , .		2
20	Validation of White-Matter Lesion Change Detection Methods on a Novel Publicly Available MRI Image Database. Neuroinformatics, 2016, 14, 403-420.	1.5	21
21	Enhancement of Vascular Structures in<?Pub _newline ?>3D and 2D Angiographic Images. IEEE Transactions on Medical Imaging, 2016, 35, 2107-2118.	5.4	202
22	Combining Unsupervised and Supervised Methods for Lesion Segmentation. Lecture Notes in Computer Science, 2016, , 45-56.	1.0	8
23	Stratified mixture modeling for segmentation of white-matter lesions in brain MR images. NeuroImage, 2016, 124, 1031-1043.	2.1	17
24	Blob Enhancement and Visualization for Improved Intracranial Aneurysm Detection. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 1705-1717.	2.9	30
25	Simultaneous 3D–2D image registration and C–arm calibration: Application to endovascular image–guided interventions. Medical Physics, 2015, 42, 6433-6447.	1.6	22
26	Beyond Frangi: an improved multiscale vesselness filter. Proceedings of SPIE, 2015, , .	0.8	35
27	Locally adaptive MR intensity models and MRF-based segmentation of multiple sclerosis lesions. , 2015, , .		2
28	Device and methods for "gold standard" registration of clinical 3D and 2D cerebral angiograms. , 2015, , .		1
29	Robust Estimation of Unbalanced Mixture Models on Samples with Outliers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2273-2285.	9.7	12
30	Computer-Aided Detection and Quantification of Intracranial Aneurysms. Lecture Notes in Computer Science, 2015, , 3-10.	1.0	11
31	Validation and comparison of intensity based methods for change detection in serial brain images. Proceedings of SPIE, 2014, , .	0.8	0
32	Fast and Robust 3D to 2D Image Registration by Backprojection of Gradient Covariances. Lecture Notes in Computer Science, 2014, , 124-133.	1.0	10
33	Automated segmentation of MS lesions in brain MR images using localized trimmed-likelihood estimation. Proceedings of SPIE, 2013, , .	0.8	2
34	3D-2D Registration of Cerebral Angiograms: A Method and Evaluation on Clinical Images. IEEE Transactions on Medical Imaging, 2013, 32, 1550-1563.	5.4	49
35	Evaluation of 3D-2D registration methods for registration of 3D-DSA and 2D-DSA cerebral images. , 2013, , .		1
36	Characterization and modelling of the spatially- and spectrally-varying point-spread function in hyperspectral imaging systems for computational correction of axial optical aberrations. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
37	3D-2D registration of cerebral angiograms based on vessel directions and intensity gradients. , 2012, , .		1
38	Groupwise Registration of Multimodal Images by an Efficient Joint Entropy Minimization Scheme. IEEE Transactions on Image Processing, 2012, 21, 2546-2558.	6.0	28
39	Quad-tree Based Entropy Estimator for Fast and Robust Brain Image Registration. Lecture Notes in Computer Science, 2012, , 160-169.	1.0	0
40	Correction of axial optical aberrations in hyperspectral imaging systems. Proceedings of SPIE, 2011, , .	0.8	5
41	Image registration for visual inspection of imprinted pharmaceutical tablets. Machine Vision and Applications, 2011, 22, 197-206.	1.7	14
42	Groupwise consistent image registration: a crucial step for the construction of a standardized near infrared hyper-spectral teeth database. Proceedings of SPIE, 2011, , .	0.8	1
43	Geometrical calibration of an AOTF hyper-spectral imaging system. , 2010, , .		2
44	Geometric calibration of a hyperspectral imaging system. Applied Optics, 2010, 49, 2813.	2.1	17
45	Real-time print localization on pharmaceutical capsules for automatic visual inspection. , 2010, , .		2
46	Registration of EEG electrode positions to PET and fMRI images. , 2009, , .		0
47	EEG to MRI Registration Based on Global and Local Similarities of MRI Intensity Distributions. Lecture Notes in Computer Science, 2008, 11, 762-770.	1.0	4
48	Automated visual inspection of imprinted pharmaceutical tablets. Measurement Science and Technology, 2007, 18, 2921-2930.	1.4	27
49	Matching images of imprinted tablets. , 2007, , .		1