

# Ziga Spiclin

## List of Publications by Year in descending order

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49  
papers

670  
citations

759233  
12  
h-index

580821  
25  
g-index

54  
all docs

54  
docs citations

54  
times ranked

885  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Enhancement of Vascular Structures in 3D and 2D Angiographic Images. IEEE Transactions on Medical Imaging, 2016, 35, 2107-2118.  | 8.9  | 202       |
| 2  | A Novel Public MR Image Dataset of Multiple Sclerosis Patients With Lesion Segmentations Based on Multi-rater Consensus. Neuroinformatics, 2018, 16, 51-63.  | 2.8  | 67        |
| 3  | 3D-2D Registration of Cerebral Angiograms: A Method and Evaluation on Clinical Images. IEEE Transactions on Medical Imaging, 2013, 32, 1550-1563.  | 8.9  | 49        |
| 4  | Beyond Frangi: an improved multiscale vesselness filter. Proceedings of SPIE, 2015, , .  | 0.8  | 35        |
| 5  | Blob Enhancement and Visualization for Improved Intracranial Aneurysm Detection. IEEE Transactions on Visualization and Computer Graphics, 2016, 22, 1705-1717.  | 4.4  | 30        |
| 6  | Groupwise Registration of Multimodal Images by an Efficient Joint Entropy Minimization Scheme. IEEE Transactions on Image Processing, 2012, 21, 2546-2558.   | 9.8  | 28        |
| 7  | Automated visual inspection of imprinted pharmaceutical tablets. Measurement Science and Technology, 2007, 18, 2921-2930.  | 2.6  | 27        |
| 8  | Simultaneous 3D-2D image registration and camera calibration: Application to endovascular image-guided interventions. Medical Physics, 2015, 42, 6433-6447.  | 3.0  | 22        |
| 9  | Validation of White-Matter Lesion Change Detection Methods on a Novel Publicly Available MRI Image Database. Neuroinformatics, 2016, 14, 403-420.  | 2.8  | 21        |
| 10 | Geometric calibration of a hyperspectral imaging system. Applied Optics, 2010, 49, 2813.   | 2.1  | 17        |
| 11 | Stratified mixture modeling for segmentation of white-matter lesions in brain MR images. NeuroImage, 2016, 124, 1031-1043.   | 4.2  | 17        |
| 12 | Image registration for visual inspection of imprinted pharmaceutical tablets. Machine Vision and Applications, 2011, 22, 197-206.  | 2.7  | 14        |
| 13 | Robust Estimation of Unbalanced Mixture Models on Samples with Outliers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2273-2285.  | 13.9 | 12        |
| 14 | Computer-Aided Detection and Quantification of Intracranial Aneurysms. Lecture Notes in Computer Science, 2015, , 3-10.  | 1.3  | 11        |
| 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.                                  | 2.8  | 11        |
| 16 | Aneurysm detection in 3D cerebral angiograms based on intra-vascular distance mapping and convolutional neural networks. , 2017, , .   |      | 10        |
| 17 | 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. | 2.8  | 10        |
| 18 | Fast and Robust 3D to 2D Image Registration by Backprojection of Gradient Covariances. Lecture Notes in Computer Science, 2014, , 124-133.   | 1.3  | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Combining Unsupervised and Supervised Methods for Lesion Segmentation. Lecture Notes in Computer Science, 2016, , 45-56.  | 1.3 | 8         |
| 20 | Deep Shape Features for Predicting Future Intracranial Aneurysm Growth. Frontiers in Physiology, 2021, 12, 644349.  | 2.8 | 7         |
| 21 | Automated Cutting Plane Positioning for Intracranial Aneurysm Quantification. IEEE Transactions on Biomedical Engineering, 2020, 67, 577-587.   | 4.2 | 6         |
| 22 | Vascular Surface Segmentation for Intracranial Aneurysm Isolation and Quantification. Lecture Notes in Computer Science, 2020, , 128-137.   | 1.3 | 6         |
| 23 | Correction of axial optical aberrations in hyperspectral imaging systems. Proceedings of SPIE, 2011, , .  | 0.8 | 5         |
| 24 | EEG to MRI Registration Based on Global and Local Similarities of MRI Intensity Distributions. Lecture Notes in Computer Science, 2008, 11, 762-770.  | 1.3 | 4         |
| 25 | Reference-free error estimation for multiple measurement methods. Statistical Methods in Medical Research, 2019, 28, 2196-2209.   | 1.5 | 3         |
| 26 | Geometrical calibration of an AOTF hyper-spectral imaging system. , 2010, , .   |     | 2         |
| 27 | Real-time print localization on pharmaceutical capsules for automatic visual inspection. , 2010, , .  |     | 2         |
| 28 | 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         |
| 29 | Automated segmentation of MS lesions in brain MR images using localized trimmed-likelihood estimation. Proceedings of SPIE, 2013, , .   | 0.8 | 2         |
| 30 | Locally adaptive MR intensity models and MRF-based segmentation of multiple sclerosis lesions. , 2015, , .  |     | 2         |
| 31 | Automatic cutting plane identification for computer-aided analysis of intracranial aneurysms. , 2016, , .   |     | 2         |
| 32 | A Multi-scale Multiple Sclerosis Lesion Change Detection in a Multi-sequence MRI. Lecture Notes in Computer Science, 2018, , 353-360.   | 1.3 | 2         |
| 33 | Locally adaptive magnetic resonance intensity models for unsupervised segmentation of multiple sclerosis lesions. Journal of Medical Imaging, 2017, 5, 1.   | 1.5 | 2         |
| 34 | Matching images of imprinted tablets. , 2007, , .   |     | 1         |
| 35 | 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         |
| 36 | 3D-2D registration of cerebral angiograms based on vessel directions and intensity gradients. , 2012, , .   |     | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Evaluation of 3D-2D registration methods for registration of 3D-DSA and 2D-DSA cerebral images. , 2013, , .   |     | 1         |
| 38 | Device and methods for "gold standard" registration of clinical 3D and 2D cerebral angiograms. , 2015, , .  |     | 1         |
| 39 | Monoplane 3D-2D registration of cerebral angiograms based on multi-objective stratified optimization. Physics in Medicine and Biology, 2017, 62, 9377-9394. | 3.0 | 1         |
| 40 | Predicting Nucleus Basalis of Meynert Volume from Compartmental Brain Segmentations. Lecture Notes in Computer Science, 2018, , 68-75.                      | 1.3 | 1         |
| 41 | Registration based detection and quantification of intracranial aneurysm growth. , 2019, , .  |     | 1         |
| 42 | Novel dataset and evaluation of state-of-the-art vessel segmentation methods. , 2022, , .   |     | 1         |
| 43 | Registration of EEG electrode positions to PET and fMRI images. , 2009, , .   |     | 0         |
| 44 | Validation and comparison of intensity based methods for change detection in serial brain images. Proceedings of SPIE, 2014, , .                            | 0.8 | 0         |
| 45 | Regression without truth with Markov chain Monte-Carlo. Proceedings of SPIE, 2017, , .  | 0.8 | 0         |
| 46 | Practical Priors for Bayesian Inference of Latent Biomarkers. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 396-406.                         | 6.3 | 0         |
| 47 | Quad-tree Based Entropy Estimator for Fast and Robust Brain Image Registration. Lecture Notes in Computer Science, 2012, , 160-169.                         | 1.3 | 0         |
| 48 | Benchmarking Quantitative Imaging Biomarker Measurement Methods Without a Gold Standard. Lecture Notes in Computer Science, 2017, , 763-771.                | 1.3 | 0         |
| 49 | Dataset variability leverages white-matter lesion segmentation performance with convolutional neural network. , 2018, , .                                   |     | 0         |