

Bjoern H Menze

List of Publications by Citations

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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.

102
papers

5,849
citations

34
h-index

76
g-index

107
ext. papers

7,682
ext. citations

6.7
avg, IF

5.32
L-index

#	Paper	IF	Citations
102	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1993-2024	11.7	2132
101	A comparison of random forest and its Gini importance with standard chemometric methods for the feature selection and classification of spectral data. <i>BMC Bioinformatics</i> , 2009 , 10, 213	3.6	471
100	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. <i>Medical Image Analysis</i> , 2017 , 35, 250-269	15.4	248
99	Automatic Liver and Lesion Segmentation in CT Using Cascaded Fully Convolutional Neural Networks and 3D Conditional Random Fields. <i>Lecture Notes in Computer Science</i> , 2016 , 415-423	0.9	213
98	Spatial decision forests for MS lesion segmentation in multi-channel magnetic resonance images. <i>NeuroImage</i> , 2011 , 57, 378-90	7.9	198
97	Panoptic imaging of transparent mice reveals whole-body neuronal projections and skull-meninges connections. <i>Nature Neuroscience</i> , 2019 , 22, 317-327	25.5	163
96	Robust prediction of the MASCOT score for an improved quality assessment in mass spectrometric proteomics. <i>Journal of Proteome Research</i> , 2008 , 7, 3708-17	5.6	141
95	Why rankings of biomedical image analysis competitions should be interpreted with care. <i>Nature Communications</i> , 2018 , 9, 5217	17.4	112
94	A generative model for brain tumor segmentation in multi-modal images. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 151-9	0.9	103
93	Mapping patterns of long-term settlement in Northern Mesopotamia at a large scale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E778-87	11.5	98
92	Cellular and Molecular Probing of Intact Human Organs. <i>Cell</i> , 2020 , 180, 796-812.e19	56.2	96
91	Fully convolutional network ensembles for white matter hyperintensities segmentation in MR images. <i>NeuroImage</i> , 2018 , 183, 650-665	7.9	95
90	Machine learning analysis of whole mouse brain vasculature. <i>Nature Methods</i> , 2020 , 17, 442-449	21.6	94
89	Cloud-Based Evaluation of Anatomical Structure Segmentation and Landmark Detection Algorithms: VISCERAL Anatomy Benchmarks. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2459-2475	11.7	89
88	Deep Learning Reveals Cancer Metastasis and Therapeutic Antibody Targeting in the Entire Body. <i>Cell</i> , 2019 , 179, 1661-1676.e19	56.2	78
87	Efficient probabilistic model personalization integrating uncertainty on data and parameters: Application to eikonal-diffusion models in cardiac electrophysiology. <i>Progress in Biophysics and Molecular Biology</i> , 2011 , 107, 134-46	4.7	68
86	Global localization of 3D anatomical structures by pre-filtered Hough forests and discrete optimization. <i>Medical Image Analysis</i> , 2013 , 17, 1304-14	15.4	67

85	Detection of Ancient Settlement Mounds. <i>Photogrammetric Engineering and Remote Sensing</i> , 2006 , 72, 321-327	1.6	59
84	Joint 3-D vessel segmentation and centerline extraction using oblique Hough forests with steerable filters. <i>Medical Image Analysis</i> , 2015 , 19, 220-49	15.4	55
83	A Generative Probabilistic Model and Discriminative Extensions for Brain Lesion Segmentation--With Application to Tumor and Stroke. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 933-46	11.7	54
82	Segmentation of image ensembles via latent atlases. <i>Medical Image Analysis</i> , 2010 , 14, 654-65	15.4	53
81	Automated Whole-Body Bone Lesion Detection for Multiple Myeloma on Ga-Pentixafor PET/CT Imaging Using Deep Learning Methods. <i>Contrast Media and Molecular Imaging</i> , 2018 , 2018, 2391925	3.2	51
80	Diffusion tensor image features predict IDH genotype in newly diagnosed WHO grade II/III gliomas. <i>Scientific Reports</i> , 2017 , 7, 13396	4.9	50
79	Multivariate feature selection and hierarchical classification for infrared spectroscopy: serum-based detection of bovine spongiform encephalopathy. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1801-1807	4.4	47
78	Detecting stable distributed patterns of brain activation using Gini contrast. <i>NeuroImage</i> , 2011 , 56, 497-507	5.0	46
77	Personalized Radiotherapy Design for Glioblastoma: Integrating Mathematical Tumor Models, Multimodal Scans, and Bayesian Inference. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1875-1884	11.7	45
76	Radiotherapy planning for glioblastoma based on a tumor growth model: improving target volume delineation. <i>Physics in Medicine and Biology</i> , 2014 , 59, 747-70	3.8	45
75	A generative approach for image-based modeling of tumor growth. <i>Lecture Notes in Computer Science</i> , 2011 , 22, 735-47	0.9	40
74	Automated estimation of tumor probability in prostate magnetic resonance spectroscopic imaging: pattern recognition vs quantification. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 150-9	4.4	39
73	qPSMA: Semiautomatic Software for Whole-Body Tumor Burden Assessment in Prostate Cancer Using Ga-PSMA11 PET/CT. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 1277-1283	8.9	35
72	Estimating kinetic parameter maps from dynamic contrast-enhanced MRI using spatial prior knowledge. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1534-47	11.7	35
71	Analysing spatio-temporal patterns of the global NO ₂ -distribution retrieved from GOME satellite observations using a generalized additive model. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6459-6477	6.8	35
70	Automated Cardiac MR Scar Quantification in Hypertrophic Cardiomyopathy Using Deep Convolutional Neural Networks. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 1917-1918	8.4	34
69	Deep neural network for automatic characterization of lesions on Ga-PSMA-11 PET/CT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020 , 47, 603-613	8.8	34
68	Spatio-temporal video segmentation with shape growth or shrinkage constraint. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 3829-40	8.7	33

67	Exploring New Multimodal Quantitative Imaging Indices for the Assessment of Osseous Tumor Burden in Prostate Cancer Using Ga-PSMA PET/CT. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1632-1637	8.9	28
66	Radiotherapy planning for glioblastoma based on a tumor growth model: implications for spatial dose redistribution. <i>Physics in Medicine and Biology</i> , 2014 , 59, 771-89	3.8	27
65	Deep-Learning Generated Synthetic Double Inversion Recovery Images Improve Multiple Sclerosis Lesion Detection. <i>Investigative Radiology</i> , 2020 , 55, 318-323	10.1	25
64	Mimicking the human expert: pattern recognition for an automated assessment of data quality in MR spectroscopic images. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 1457-66	4.4	25
63	Automatic segmentation of abdominal organs and adipose tissue compartments in water-fat MRI: Application to weight-loss in obesity. <i>European Journal of Radiology</i> , 2016 , 85, 1613-21	4.7	25
62	Btrfly Net: Vertebrae Labelling with Energy-Based Adversarial Learning of Local Spine Prior. <i>Lecture Notes in Computer Science</i> , 2018 , 649-657	0.9	24
61	Deep learning-enabled multi-organ segmentation in whole-body mouse scans. <i>Nature Communications</i> , 2020 , 11, 5626	17.4	21
60	DiamondGAN: Unified Multi-modal Generative Adversarial Networks for MRI Sequences Synthesis. <i>Lecture Notes in Computer Science</i> , 2019 , 795-803	0.9	21
59	Three-dimensional holographic visualization of high-resolution myocardial scar on HoloLens. <i>PLoS ONE</i> , 2018 , 13, e0205188	3.7	21
58	BraTS Toolkit: Translating BraTS Brain Tumor Segmentation Algorithms Into Clinical and Scientific Practice. <i>Frontiers in Neuroscience</i> , 2020 , 14, 125	5.1	20
57	Reconstructing cerebrovascular networks under local physiological constraints by integer programming. <i>Medical Image Analysis</i> , 2015 , 25, 86-94	15.4	17
56	Deep learning derived tumor infiltration maps for personalized target definition in Glioblastoma radiotherapy. <i>Radiotherapy and Oncology</i> , 2019 , 138, 166-172	5.3	17
55	Wall shear stress estimation in the aorta: Impact of wall motion, spatiotemporal resolution, and phase noise. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 718	5.6	14
54	Deep complex convolutional network for fast reconstruction of 3D late gadolinium enhancement cardiac MRI. <i>NMR in Biomedicine</i> , 2020 , 33, e4312	4.4	13
53	Convolutional Neural Networks for Direct Inference of Pharmacokinetic Parameters: Application to Stroke Dynamic Contrast-Enhanced MRI. <i>Frontiers in Neurology</i> , 2018 , 9, 1147	4.1	12
52	Local Conduction Velocity in the Presence of Late Gadolinium Enhancement and Myocardial Wall Thinning: A Cardiac Magnetic Resonance Study in a Swine Model of Healed Left Ventricular Infarction. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e007175	6.4	12
51	Brain extraction from normal and pathological images: A joint PCA/Image-Reconstruction approach. <i>NeuroImage</i> , 2018 , 176, 431-445	7.9	12
50	Using spatial prior knowledge in the spectral fitting of MRS images. <i>NMR in Biomedicine</i> , 2012 , 25, 1-13	4.4	12

49	A diffusion model-free framework with echo time dependence for free-water elimination and brain tissue microstructure characterization. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 2155-2172	4.4	11
48	Deep-FExt: Deep Feature Extraction for Vessel Segmentation and Centerline Prediction. <i>Lecture Notes in Computer Science</i> , 2017 , 344-352	0.9	11
47	Gold Nanoparticle Mediated Multi-Modal CT Imaging of Hsp70 Membrane-Positive Tumors. <i>Cancers</i> , 2020 , 12,	6.6	10
46	Predicting Glioblastoma Recurrence from Preoperative MR Scans Using Fractional-Anisotropy Maps with Free-Water Suppression. <i>Cancers</i> , 2020 , 12,	6.6	10
45	Quantification of Metabolites in Magnetic Resonance Spectroscopic Imaging Using Machine Learning. <i>Lecture Notes in Computer Science</i> , 2017 , 462-470	0.9	10
44	DeepASL: Kinetic Model Incorporated Loss for Denoising Arterial Spin Labeled MRI via Deep Residual Learning. <i>Lecture Notes in Computer Science</i> , 2018 , 30-38	0.9	10
43	SurvivalNet: Predicting patient survival from diffusion weighted magnetic resonance images using cascaded fully convolutional and 3D Convolutional Neural Networks 2017 ,		9
42	An automatic multi-tissue human fetal brain segmentation benchmark using the Fetal Tissue Annotation Dataset. <i>Scientific Data</i> , 2021 , 8, 167	8.2	9
41	Designing contrasts for rapid, simultaneous parameter quantification and flow visualization with quantitative transient-state imaging. <i>Scientific Reports</i> , 2019 , 9, 8468	4.9	8
40	Multitemporal Fusion for the Detection of Static Spatial Patterns in Multispectral Satellite Images With Application to Archaeological Survey. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014 , 7, 3513-3524	4.7	8
39	Volumetry based biomarker speed of growth: Quantifying the change of total tumor volume in whole-body magnetic resonance imaging over time improves risk stratification of smoldering multiple myeloma patients. <i>Oncotarget</i> , 2018 , 9, 25254-25264	3.3	8
38	Differential Diagnosis for Pancreatic Cysts in CT Scans Using Densely-Connected Convolutional Networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 2095-2098	0.9	8
37	Segmentation of Skeleton and Organs in Whole-Body CT Images via Iterative Trilateration. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 2276-2286	11.7	7
36	Neural Parameters Estimation for Brain Tumor Growth Modeling. <i>Lecture Notes in Computer Science</i> , 2019 , 787-795	0.9	7
35	Cell Lineage Tracing in Lens-Free Microscopy Videos. <i>Lecture Notes in Computer Science</i> , 2017 , 3-11	0.9	7
34	Diabetes60 Inferring Bread Units From Food Images Using Fully Convolutional Neural Networks 2017 ,		6
33	Direct Estimation of Pharmacokinetic Parameters from DCE-MRI Using Deep CNN with Forward Physical Model Loss. <i>Lecture Notes in Computer Science</i> , 2018 , 39-47	0.9	6
32	Efficient Algorithms for Moral Lineage Tracing 2017 ,		5

31	Extracting vascular networks under physiological constraints via integer programming. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 505-12	0.9	5
30	Automated vs. manual pattern recognition of 3D (1)H MRSI data of patients with prostate cancer. <i>Academic Radiology</i> , 2012 , 19, 675-84	4.3	5
29	c-Rel gain in B cells drives germinal center reactions and autoantibody production. <i>Journal of Clinical Investigation</i> , 2020 , 130, 3270-3286	15.9	5
28	Automated processing of webcam images for phenological classification. <i>PLoS ONE</i> , 2017 , 12, e0171918	3.7	5
27	A computed tomography vertebral segmentation dataset with anatomical variations and multi-vendor scanner data. <i>Scientific Data</i> , 2021 , 8, 284	8.2	5
26	How to Exploit Weaknesses in Biomedical Challenge Design and Organization. <i>Lecture Notes in Computer Science</i> , 2018 , 388-395	0.9	5
25	Human-Drone-Interaction: A Case Study to Investigate the Relation Between Autonomy and User Experience. <i>Lecture Notes in Computer Science</i> , 2016 , 238-253	0.9	4
24	Probabilistic Point Cloud Reconstructions for Vertebral Shape Analysis. <i>Lecture Notes in Computer Science</i> , 2019 , 375-383	0.9	4
23	Enforcing Monotonous Shape Growth or Shrinkage in Video Segmentation 2013 ,		4
22	A Radiomics Approach to Traumatic Brain Injury Prediction in CT Scans 2019 ,		3
21	Deep Neural Network for Automatic Characterization of Lesions on 68Ga-PSMA PET/CT Images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 951-954	0.9	3
20	Medical Computer Vision: Algorithms for Big Data. <i>Lecture Notes in Computer Science</i> , 2014 ,	0.9	3
19	Deep Learning with Synthetic Diffusion MRI Data for Free-Water Elimination in Glioblastoma Cases. <i>Lecture Notes in Computer Science</i> , 2018 , 98-106	0.9	3
18	Multi-level Activation for Segmentation of Hierarchically-Nested Classes. <i>Lecture Notes in Computer Science</i> , 2019 , 345-353	0.9	3
17	Stroke Lesion Segmentation Using a Probabilistic Atlas of Cerebral Vascular Territories. <i>Lecture Notes in Computer Science</i> , 2016 , 21-32	0.9	3
16	The Minimum Cost Connected Subgraph Problem in Medical Image Analysis. <i>Lecture Notes in Computer Science</i> , 2016 , 397-405	0.9	3
15	Sparse scale-space decomposition of volume changes in deformations fields. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 328-35	0.9	3
14	Simultaneous Parameter Mapping, Modality Synthesis, and Anatomical Labeling of the Brain with MR Fingerprinting. <i>Lecture Notes in Computer Science</i> , 2016 , 579-586	0.9	3

13	Modeling motor task activation from resting-state fMRI using machine learning in individual subjects. <i>Brain Imaging and Behavior</i> , 2021 , 15, 122-132	4.1	3
12	Cardiovascular Magnetic Resonance-Based Three-Dimensional Structural Modeling and Heterogeneous Tissue Channel Detection in Ventricular Arrhythmia. <i>Scientific Reports</i> , 2019 , 9, 9317	4.9	2
11	A Nonparametric Growth Model for Brain Tumor Segmentation in Longitudinal MR Sequences. <i>Lecture Notes in Computer Science</i> , 2016 , 69-79	0.9	2
10	Whole-body anatomy localization via classification and regression forests. <i>Medical Image Analysis</i> , 2013 , 17, 1282	15.4	1
9	Multi-scale Convolutional-Stack Aggregation for Robust White Matter Hyperintensities Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 199-207	0.9	1
8	Overdiscrete echo-planar spectroscopic imaging with correlated higher-order phase correction. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 11-24	4.4	1
7	Modelling glioma progression, mass effect and intracranial pressure in patient anatomy.. <i>Journal of the Royal Society Interface</i> , 2022 , 19, 20210922	4.1	0
6	An Online Algorithm for Efficient and Temporally Consistent Subspace Clustering. <i>Lecture Notes in Computer Science</i> , 2017 , 353-368	0.9	
5	Spatial-Frequency Non-local Convolutional LSTM Network for pRCC Classification. <i>Lecture Notes in Computer Science</i> , 2019 , 22-30	0.9	
4	Spatially Adaptive Spectral Denoising for MR Spectroscopic Imaging using Frequency-Phase Non-local Means. <i>Lecture Notes in Computer Science</i> , 2016 , 596-604	0.9	
3	Overview of the 2014 Workshop on Medical Computer Vision Algorithms for Big Data (MCV 2014). <i>Lecture Notes in Computer Science</i> , 2014 , 3-10	0.9	
2	Probabilistic model for 3D interactive segmentation. <i>Computer Vision and Image Understanding</i> , 2016 , 151, 47-60	4.3	
1	Impact of Temporal Heterogeneity of Acute Hypoxia on the Radiation Response of Experimental Tumors. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1072, 189-194	3.6	