

# Ben Glocker

## 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.

136  
papers

10,455  
citations

39  
h-index

101  
g-index

145  
ext. papers

13,878  
ext. citations

7.7  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
136	Atlas-ISTN: Joint segmentation, registration and atlas construction with image-and-spatial transformer networks.. <i>Medical Image Analysis</i> , <b>2022</b> , 78, 102383	15.4	2
135	Active label cleaning for improved dataset quality under resource constraints.. <i>Nature Communications</i> , <b>2022</b> , 13, 1161	17.4	2
134	The medical algorithmic audit.. <i>The Lancet Digital Health</i> , <b>2022</b> ,	14.4	5
133	Relationship of admission blood proteomic biomarkers levels to lesion type and lesion burden in traumatic brain injury: A CENTER-TBI study.. <i>EBioMedicine</i> , <b>2021</b> , 75, 103777	8.8	4
132	Local Brain-Age: A U-Net Model.. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 761954	5.3	1
131	A quality assessment tool for artificial intelligence-centered diagnostic test accuracy studies: QUADAS-AI. <i>Nature Medicine</i> , <b>2021</b> , 27, 1663-1665	50.5	5
130	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. <i>Npj Digital Medicine</i> , <b>2021</b> , 4, 60	15.7	29
129	Analyzing Overfitting Under Class Imbalance in Neural Networks for Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 1065-1077	11.7	13
128	Systemic Markers of Injury and Injury Response Are Not Associated with Impaired Cerebrovascular Reactivity in Adult Traumatic Brain Injury: A Collaborative European Neurotrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) Study. <i>Journal of Neurotrauma</i> , <b>2021</b> , 38, 870-878	5.4	3
127	Multiple Instance Learning with Auxiliary Task Weighting for Multiple Myeloma Classification. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 786-796	0.9	1
126	Learning from Partially Overlapping Labels: Image Segmentation Under Annotation Shift. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 123-132	0.9	
125	Perceived Realism of High-Resolution Generative Adversarial Network-derived Synthetic Mammograms. <i>Radiology: Artificial Intelligence</i> , <b>2021</b> , 3, e190181	8.7	3
124	AutoImplant 2020-First MICCAI Challenge on Automatic Cranial Implant Design. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 2329-2342	11.7	10
123	Adversarial interference and its mitigations in privacy-preserving collaborative machine learning. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 749-758	22.5	4
122	VerSe: A Vertebrae labelling and segmentation benchmark for multi-detector CT images. <i>Medical Image Analysis</i> , <b>2021</b> , 73, 102166	15.4	19
121	Normative ascent with local gaussians for unsupervised lesion detection. <i>Medical Image Analysis</i> , <b>2021</b> , 74, 102208	15.4	2
120	Transductive Image Segmentation: Self-training and Effect of Uncertainty Estimation. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 79-89	0.9	

119	Deep Learning-Based Automated Abdominal Organ Segmentation in the UK Biobank and German National Cohort Magnetic Resonance Imaging Studies. <i>Investigative Radiology</i> , <b>2021</b> , 56, 401-408	10.1	4
118	Evaluation of Deep Learning to Augment Image-Guided Radiotherapy for Head and Neck and Prostate Cancers. <i>JAMA Network Open</i> , <b>2020</b> , 3, e2027426	10.4	12
117	Multiclass semantic segmentation and quantification of traumatic brain injury lesions on head CT using deep learning: an algorithm development and multicentre validation study. <i>The Lancet Digital Health</i> , <b>2020</b> , 2, e314-e322	14.4	35
116	Impact of Antithrombotic Agents on Radiological Lesion Progression in Acute Traumatic Brain Injury: A CENTER-TBI Propensity-Matched Cohort Analysis. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 2069-2080	5.4	9
115	Machine learning algorithms performed no better than regression models for prognostication in traumatic brain injury. <i>Journal of Clinical Epidemiology</i> , <b>2020</b> , 122, 95-107	5.7	47
114	Diffuse Intracranial Injury Patterns Are Associated with Impaired Cerebrovascular Reactivity in Adult Traumatic Brain Injury: A CENTER-TBI Validation Study. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 1597-1608	5.4	8
113	Nonlinear biomarker interactions in conversion from mild cognitive impairment to Alzheimer's disease. <i>Human Brain Mapping</i> , <b>2020</b> , 41, 4406-4418	5.9	10
112	Post-DAE: Anatomically Plausible Segmentation via Post-Processing With Denoising Autoencoders. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 3813-3820	11.7	18
111	Unpaired Multi-Modal Segmentation via Knowledge Distillation. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 2415-2425	11.7	52
110	Large-scale Quality Control of Cardiac Imaging in Population Studies: Application to UK Biobank. <i>Scientific Reports</i> , <b>2020</b> , 10, 2408	4.9	13
109	Relationship between Measures of Cerebrovascular Reactivity and Intracranial Lesion Progression in Acute Traumatic Brain Injury Patients: A CENTER-TBI Study. <i>Journal of Neurotrauma</i> , <b>2020</b> , 37, 1556-1565	5.4	11
108	Deep neural network to locate and segment brain tumors outperformed the expert technicians who created the training data. <i>Journal of Medical Imaging</i> , <b>2020</b> , 7, 055501	2.6	1
107	Cranial Implant Design via Virtual Craniectomy with Shape Priors. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 37-46	0.9	7
106	Image Registration via Stochastic Gradient Markov Chain Monte Carlo. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 3-12	0.9	
105	Self-supervised Skull Reconstruction in Brain CT Images with Decompressive Craniectomy. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 390-399	0.9	7
104	Deep Generative Model-Based Quality Control for Cardiac MRI Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 88-97	0.9	5
103	Image-Level Harmonization of Multi-site Data Using Image-and-Spatial Transformer Networks. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 710-719	0.9	6
102	Random forests in medical image computing <b>2020</b> , 457-480		4

101	Causality matters in medical imaging. <i>Nature Communications</i> , <b>2020</b> , 11, 3673	17.4	56
100	Volume Change in Frontal Cholinergic Structures After Traumatic Brain Injury and Cognitive Outcome. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 832	4.1	4
99	Automated vertebrae localization and identification by decision forests and image-based refinement on real-world CT data. <i>Radiologia Medica</i> , <b>2020</b> , 125, 48-56	6.5	6
98	Special Issue on Machine Vision. <i>International Journal of Computer Vision</i> , <b>2019</b> , 127, 1611-1613	10.6	2
97	Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study. <i>Lancet Neurology</i> , <b>2019</b> , 18, 923-934	24.1	139
96	Attention gated networks: Learning to leverage salient regions in medical images. <i>Medical Image Analysis</i> , <b>2019</b> , 53, 197-207	15.4	400
95	Ensemble of Convolutional Neural Networks Improves Automated Segmentation of Acute Ischemic Lesions Using Multiparametric Diffusion-Weighted MRI. <i>American Journal of Neuroradiology</i> , <b>2019</b> , 40, 938-945	4.4	23
94	Quantitative error prediction of medical image registration using regression forests. <i>Medical Image Analysis</i> , <b>2019</b> , 56, 110-121	15.4	16
93	TeTriS: Template Transformer Networks for Image Segmentation With Shape Priors. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 2596-2606	11.7	34
92	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2019</b> , 21, 18	6.9	49
91	Evaluating reinforcement learning agents for anatomical landmark detection. <i>Medical Image Analysis</i> , <b>2019</b> , 53, 156-164	15.4	68
90	PnP-AdaNet: Plug-and-Play Adversarial Domain Adaptation Network at Unpaired Cross-Modality Cardiac Segmentation. <i>IEEE Access</i> , <b>2019</b> , 7, 99065-99076	3.5	63
89	Controlling Meshes via Curvature: Spin Transformations for Pose-Invariant Shape Processing. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 221-234	0.9	
88	Improving RetinaNet for CT Lesion Detection with Dense Masks from Weak RECIST Labels. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 402-410	0.9	36
87	Overfitting of Neural Nets Under Class Imbalance: Analysis and Improvements for Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 402-410	0.9	21
86	Unsupervised Lesion Detection with Locally Gaussian Approximation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 355-363	0.9	3
85	Learning-Based Quality Control for Cardiac MR Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 1127-1138	11.7	31
84	Anatomically Constrained Neural Networks (ACNNs): Application to Cardiac Image Enhancement and Segmentation. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 384-395	11.7	333

83	Metric learning with spectral graph convolutions on brain connectivity networks. <i>NeuroImage</i> , <b>2018</b> , 169, 431-442	7.9	122
82	3-D Reconstruction in Canonical Co-Ordinate Space From Arbitrarily Oriented 2-D Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1737-1750	11.7	32
81	Reconstructing subject-specific effect maps. <i>NeuroImage</i> , <b>2018</b> , 181, 521-538	7.9	3
80	Multi-modal Learning from Unpaired Images: Application to Multi-organ Segmentation in CT and MRI <b>2018</b> ,		35
79	Automatic View Planning with Multi-scale Deep Reinforcement Learning Agents. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 277-285	0.9	20
78	Automatic Localization of the Lumbar Vertebral Landmarks in CT Images with Context Features. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 59-71	0.9	1
77	Multimodal surface matching with higher-order smoothness constraints. <i>NeuroImage</i> , <b>2018</b> , 167, 453-465	7.9	124
76	Small Organ Segmentation in Whole-Body MRI Using a Two-Stage FCN and Weighting Schemes. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 346-354	0.9	8
75	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 65	6.9	285
74	On the Adaptability of Unsupervised CNN-Based Deformable Image Registration to Unseen Image Domains. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 294-302	0.9	11
73	Disease prediction using graph convolutional networks: Application to Autism Spectrum Disorder and Alzheimer's disease. <i>Medical Image Analysis</i> , <b>2018</b> , 48, 117-130	15.4	186
72	Reverse Classification Accuracy: Predicting Segmentation Performance in the Absence of Ground Truth. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 1597-1606	11.7	57
71	Robust guidewire tracking under large deformations combining segment-like features (SEGlets). <i>Medical Image Analysis</i> , <b>2017</b> , 38, 150-164	15.4	16
70	Abnormal brain white matter microstructure is associated with both pre-hypertension and hypertension. <i>PLoS ONE</i> , <b>2017</b> , 12, e0187600	3.7	29
69	Regional brain morphometry in patients with traumatic brain injury based on acute- and chronic-phase magnetic resonance imaging. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188152	3.7	19
68	A flexible graphical model for multi-modal parcellation of the cortex. <i>NeuroImage</i> , <b>2017</b> , 162, 226-248	7.9	5
67	Fully automatic, multiorgan segmentation in normal whole body magnetic resonance imaging (MRI), using classification forests (CFs), convolutional neural networks (CNNs), and a multi-atlas (MA) approach. <i>Medical Physics</i> , <b>2017</b> , 44, 5210-5220	4.4	20
66	Learning and combining image neighborhoods using random forests for neonatal brain disease classification. <i>Medical Image Analysis</i> , <b>2017</b> , 42, 189-199	15.4	8

65	Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. <i>Lancet Neurology, The</i> , <b>2017</b> , 16, 987-1048	24.1	851
64	Efficient multi-scale 3D CNN with fully connected CRF for accurate brain lesion segmentation. <i>Medical Image Analysis</i> , <b>2017</b> , 36, 61-78	15.4	1630
63	Evaluation and comparison of 3D intervertebral disc localization and segmentation methods for 3D T2 MR data: A grand challenge. <i>Medical Image Analysis</i> , <b>2017</b> , 35, 327-344	15.4	46
62	Supervoxel classification forests for estimating pairwise image correspondences. <i>Pattern Recognition</i> , <b>2017</b> , 63, 561-569	7.7	18
61	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. <i>Medical Image Analysis</i> , <b>2017</b> , 35, 250-269	15.4	248
60	Stratified Decision Forests for Accurate Anatomical Landmark Localization in Cardiac Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 332-342	11.7	40
59	Multi-channel MRI segmentation of eye structures and tumors using patient-specific features. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173900	3.7	9
58	Unsupervised Domain Adaptation in Brain Lesion Segmentation with Adversarial Networks. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 597-609	0.9	168
57	Learning-Based Heart Coverage Estimation for Short-Axis Cine Cardiac MR Images. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 73-82	0.9	3
56	Joint Supervoxel Classification Forest for Weakly-Supervised Organ Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 79-87	0.9	2
55	Fast Fully Automatic Segmentation of the Human Placenta from Motion Corrupted MRI. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 589-597	0.9	25
54	DeepMedic for Brain Tumor Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 138-149	0.9	114
53	Discrete Optimisation for Group-Wise Cortical Surface Atlasing <b>2016</b> ,		2
52	ElasticFusion: Real-time dense SLAM and light source estimation. <i>International Journal of Robotics Research</i> , <b>2016</b> , 35, 1697-1716	5.7	288
51	Supervoxel Classification Forests for Estimating Pairwise Image Correspondences. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 94-101	0.9	4
50	Motion Segmentation of Truncated Signed Distance Function Based Volumetric Surfaces <b>2015</b> ,		12
49	The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS). <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 1993-2024	11.7	2132
48	Uncertainty-Driven Forest Predictors for Vertebra Localization and Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 653-660	0.9	7

47	Automatic Brain Localization in Fetal MRI Using Superpixel Graphs. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 13-22	0.9	7
46	Learning and Combining Image Similarities for Neonatal Brain Population Studies. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 110-117	0.9	
45	Encoding atlases by randomized classification forests for efficient multi-atlas label propagation. <i>Medical Image Analysis</i> , <b>2014</b> , 18, 1262-73	15.4	71
44	Multi-output Learning for Camera Relocalization <b>2014</b> ,		48
43	Robust registration of longitudinal spine CT. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 251-8	0.9	9
42	Geodesic patch-based segmentation. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 666-73	0.9	22
41	Quantifying progression of multiple sclerosis via classification of depth videos. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 17, 429-37	0.9	17
40	Classifier-Based Multi-atlas Label Propagation with Test-Specific Atlas Weighting for Correspondence-Free Scenarios. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 116-124	0.9	2
39	Atlas encoding by randomized forests for efficient label propagation. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 66-73	0.9	40
38	Interventional tool tracking using discrete optimization. <i>IEEE Transactions on Medical Imaging</i> , <b>2013</b> , 32, 544-55	11.7	39
37	Real-time RGB-D camera relocalization <b>2013</b> ,		59
36	Neighbourhood approximation using randomized forests. <i>Medical Image Analysis</i> , <b>2013</b> , 17, 790-804	15.4	51
35	WESD--Weighted Spectral Distance for measuring shape dissimilarity. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2013</b> , 35, 2284-97	13.3	30
34	Scene Coordinate Regression Forests for Camera Relocalization in RGB-D Images <b>2013</b> ,		279
33	Vertebrae localization in pathological spine CT via dense classification from sparse annotations. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 262-70	0.9	83
32	Modality propagation: coherent synthesis of subject-specific scans with data-driven regularization. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 606-13	0.9	50
31	Is synthesizing MRI contrast useful for inter-modality analysis?. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 631-8	0.9	68
30	Mediastinal atlas creation from 3-D chest computed tomography images: application to automated detection and station mapping of lymph nodes. <i>Medical Image Analysis</i> , <b>2012</b> , 16, 63-74	15.4	33

29	Discriminative segmentation-based evaluation through shape dissimilarity. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 2278-89	11.7	6
28	Decision forests for tissue-specific segmentation of high-grade gliomas in multi-channel MR. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 369-76	0.9	128
27	Neighbourhood approximation forests. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 75-82	0.9	13
26	Automatic localization and identification of vertebrae in arbitrary field-of-view CT scans. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 590-8	0.9	82
25	Joint Classification-Regression Forests for Spatially Structured Multi-object Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 870-881	0.9	37
24	Deformable medical image registration: setting the state of the art with discrete methods. <i>Annual Review of Biomedical Engineering</i> , <b>2011</b> , 13, 219-44	12	131
23	Evaluation of registration methods on thoracic CT: the EMPIRE10 challenge. <i>IEEE Transactions on Medical Imaging</i> , <b>2011</b> , 30, 1901-20	11.7	311
22	Fast multiple organ detection and localization in whole-body MR dixon sequences. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 239-47	0.9	53
21	Needle tracking through higher-order MRF optimization <b>2010</b> ,		1
20	Markov random field optimization for intensity-based 2D-3D registration <b>2010</b> ,		6
19	Linear intensity-based image registration by Markov random fields and discrete optimization. <i>Medical Image Analysis</i> , <b>2010</b> , 14, 550-62	15.4	33
18	TriangleFlow: Optical Flow with Triangulation-Based Higher-Order Likelihoods. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 272-285	0.9	16
17	Simultaneous geometric--iconic registration. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 13, 676-83	0.9	19
16	Biomedical image analysis using Markov random fields & efficient linear programming. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 6628-31	0.9	
15	Linear image registration through MRF optimization <b>2009</b> ,		8
14	Dense registration with deformation priors. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 21, 540-51	0.9	15
13	Probabilistic region matching in narrow-band endoscopy for targeted optical biopsy. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 499-506	0.9	13
12	Graphical models and deformable diffeomorphic population registration using global and local metrics. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 12, 672-9	0.9	10



11	Approximated Curvature Penalty in Non-rigid Registration Using Pairwise MRFs. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 1101-1109	0.9	11
10	Computing minimal deformations: application to construction of statistical shape models <b>2008</b> ,		3
9	Real-time respiratory motion tracking: roadmap correction for hepatic artery catheterizations <b>2008</b> ,		12
8	Adaptive parametrization of multivariate B-splines for image registration <b>2008</b> ,		9
7	Optical flow estimation with uncertainties through dynamic MRFs <b>2008</b> ,		34
6	Dense image registration through MRFs and efficient linear programming. <i>Medical Image Analysis</i> , <b>2008</b> , 12, 731-41	15.4	287
5	Deformable mosaicing for whole-body MRI. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 113-21	0.9	5
4	Towards a computer-aided diagnosis system for colon motility dysfunctions <b>2007</b> ,		3
3	Inter and intra-modal deformable registration: continuous deformations meet efficient optimal linear programming. <i>Information Processing in Medical Imaging</i> , <b>2007</b> , 20, 408-20		28
2	Primal/dual linear programming and statistical atlases for cartilage segmentation <b>2007</b> , 10, 536-43		21
1	Multimodal Surface Matching with Higher-Order Smoothness Constraints?		1