

# Daniel Rueckert

## List of Publications by Year in descending order

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582  
papers

48,135  
citations

2440

100  
h-index

3343

190  
g-index

613  
all docs

613  
docs citations

613  
times ranked

43870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tract-based spatial statistics: Voxelwise analysis of multi-subject diffusion data. <i>NeuroImage</i> , 2006, 31, 1487-1505.	2.1	5,755
2	Real-Time Single Image and Video Super-Resolution Using an Efficient Sub-Pixel Convolutional Neural Network. , 2016, , .		3,557
3	Efficient multi-scale 3D CNN with fully connected CRF for accurate brain lesion segmentation. <i>Medical Image Analysis</i> , 2017, 36, 61-78.	7.0	2,382
4	Evaluation of 14 nonlinear deformation algorithms applied to human brain MRI registration. <i>NeuroImage</i> , 2009, 46, 786-802.	2.1	1,988
5	Attention gated networks: Learning to leverage salient regions in medical images. <i>Medical Image Analysis</i> , 2019, 53, 197-207.	7.0	1,011
6	A Deep Cascade of Convolutional Neural Networks for Dynamic MR Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 491-503.	5.4	816
7	Multi-atlas based segmentation of brain images: Atlas selection and its effect on accuracy. <i>NeuroImage</i> , 2009, 46, 726-738.	2.1	797
8	Automatic anatomical brain MRI segmentation combining label propagation and decision fusion. <i>NeuroImage</i> , 2006, 33, 115-126.	2.1	794
9	Acquisition and voxelwise analysis of multi-subject diffusion data with Tract-Based Spatial Statistics. <i>Nature Protocols</i> , 2007, 2, 499-503.	5.5	526
10	Anatomically Constrained Neural Networks (ACNNs): Application to Cardiac Image Enhancement and Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 384-395.	5.4	493
11	Secure, privacy-preserving and federated machine learning in medical imaging. <i>Nature Machine Intelligence</i> , 2020, 2, 305-311.	8.3	473
12	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 65.	1.6	468
13	Deep Learning for Cardiac Image Segmentation: A Review. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 25.	1.1	467
14	Disease prediction using graph convolutional networks: Application to Autism Spectrum Disorder and Alzheimer's disease. <i>Medical Image Analysis</i> , 2018, 48, 117-130.	7.0	391
15	Random forest-based similarity measures for multi-modal classification of Alzheimer's disease. <i>NeuroImage</i> , 2013, 65, 167-175.	2.1	376
16	Convolutional Recurrent Neural Networks for Dynamic MR Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 280-290.	5.4	362
17	ISLES 2015 - A public evaluation benchmark for ischemic stroke lesion segmentation from multispectral MRI. <i>Medical Image Analysis</i> , 2017, 35, 250-269.	7.0	360
18	Fast and robust multi-atlas segmentation of brain magnetic resonance images. <i>NeuroImage</i> , 2010, 49, 2352-2365.	2.1	357

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19	Automatic construction of 3-D statistical deformation models of the brain using nonrigid registration. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 1014-1025.	5.4	350
20	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. <i>Proceedings of the IEEE</i> , 2021, 109, 820-838.	16.4	339
21	Automatic construction of multiple-object three-dimensional statistical shape models: application to cardiac modeling. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1151-1166.	5.4	325
22	The developing human connectome project: A minimal processing pipeline for neonatal cortical surface reconstruction. <i>NeuroImage</i> , 2018, 173, 88-112.	2.1	315
23	Self-supervised learning for medical image analysis using image context restoration. <i>Medical Image Analysis</i> , 2019, 58, 101539.	7.0	315
24	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> , The, 2019, 18, 923-934.	4.9	304
25	Automatic segmentation of brain MRIs of 2-year-olds into 83 regions of interest. <i>NeuroImage</i> , 2008, 40, 672-684.	2.1	301
26	Rich-club organization of the newborn human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7456-7461.	3.3	300
27	Automatic Whole Brain MRI Segmentation of the Developing Neonatal Brain. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1818-1831.	5.4	296
28	Human brain mapping: A systematic comparison of parcellation methods for the human cerebral cortex. <i>NeuroImage</i> , 2018, 170, 5-30.	2.1	280
29	Geodesic Information Flows: Spatially-Variant Graphs and Their Application to Segmentation and Fusion. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1976-1988.	5.4	265
30	The Effect of Preterm Birth on Thalamic and Cortical Development. <i>Cerebral Cortex</i> , 2012, 22, 1016-1024.	1.6	262
31	DeepCut: Object Segmentation From Bounding Box Annotations Using Convolutional Neural Networks. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 674-683.	5.4	260
32	Construction of a consistent high-definition spatio-temporal atlas of the developing brain using adaptive kernel regression. <i>NeuroImage</i> , 2012, 59, 2255-2265.	2.1	259
33	Titin-truncating variants affect heart function in disease cohorts and the general population. <i>Nature Genetics</i> , 2017, 49, 46-53.	9.4	255
34	Segmentation of 4D cardiac MR images using a probabilistic atlas and the EM algorithm. <i>Medical Image Analysis</i> , 2004, 8, 255-265.	7.0	249
35	A dynamic 4D probabilistic atlas of the developing brain. <i>NeuroImage</i> , 2011, 54, 2750-2763.	2.1	247
36	SonoNet: Real-Time Detection and Localisation of Fetal Standard Scan Planes in Freehand Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 2204-2215.	5.4	246

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37	Unsupervised Domain Adaptation in Brain Lesion Segmentation with Adversarial Networks. Lecture Notes in Computer Science, 2017, , 597-609.	1.0	241
38	Multi-Method Analysis of MRI Images in Early Diagnostics of Alzheimer's Disease. PLoS ONE, 2011, 6, e25446.	1.1	240
39	Metric learning with spectral graph convolutions on brain connectivity networks. NeuroImage, 2018, 169, 431-442.	2.1	237
40	Automated Abdominal Multi-Organ Segmentation With Subject-Specific Atlas Generation. IEEE Transactions on Medical Imaging, 2013, 32, 1723-1730.	5.4	225
41	Fully automatic acute ischemic lesion segmentation in DWI using convolutional neural networks. NeuroImage: Clinical, 2017, 15, 633-643.	1.4	221
42	Abnormal deep grey matter development following preterm birth detected using deformation-based morphometry. NeuroImage, 2006, 32, 70-78.	2.1	220
43	Multimodal surface matching with higher-order smoothness constraints. NeuroImage, 2018, 167, 453-465.	2.1	219
44	LEAP: Learning embeddings for atlas propagation. NeuroImage, 2010, 49, 1316-1325.	2.1	216
45	Semi-supervised Learning for Network-Based Cardiac MR Image Segmentation. Lecture Notes in Computer Science, 2017, , 253-260.	1.0	209
46	The influence of preterm birth on the developing thalamocortical connectome. Cortex, 2013, 49, 1711-1721.	1.1	202
47	DRINet for Medical Image Segmentation. IEEE Transactions on Medical Imaging, 2018, 37, 2453-2462.	5.4	198
48	Segmentation of MR images via discriminative dictionary learning and sparse coding: Application to hippocampus labeling. NeuroImage, 2013, 76, 11-23.	2.1	196
49	Automatic segmentation and reconstruction of the cortex from neonatal MRI. NeuroImage, 2007, 38, 461-477.	2.1	192
50	Diffeomorphic Registration Using B-Splines. Lecture Notes in Computer Science, 2006, 9, 702-709.	1.0	190
51	Right ventricle segmentation from cardiac MRI: A collation study. Medical Image Analysis, 2015, 19, 187-202.	7.0	189
52	A Deep Cascade of Convolutional Neural Networks for MR Image Reconstruction. Lecture Notes in Computer Science, 2017, , 647-658.	1.0	187
53	A Generic Framework for Non-rigid Registration Based on Non-uniform Multi-level Free-Form Deformations. Lecture Notes in Computer Science, 2001, , 573-581.	1.0	185
54	An evaluation of four automatic methods of segmenting the subcortical structures in the brain. NeuroImage, 2009, 47, 1435-1447.	2.1	180

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55	Deep-learning cardiac motion analysis for human survival prediction. Nature Machine Intelligence, 2019, 1, 95-104.	8.3	179
56	Magnetic resonance imaging of the newborn brain: Manual segmentation of labelled atlases in term-born and preterm infants. NeuroImage, 2012, 62, 1499-1509.	2.1	175
57	Improving intersubject image registration using tissue-class information benefits robustness and accuracy of multi-atlas based anatomical segmentation. NeuroImage, 2010, 51, 221-227.	2.1	174
58	A Probabilistic Patch-Based Label Fusion Model for Multi-Atlas Segmentation With Registration Refinement: Application to Cardiac MR Images. IEEE Transactions on Medical Imaging, 2013, 32, 1302-1315.	5.4	174
59	MRI of Moving Subjects Using Multislice Snapshot Images With Volume Reconstruction (SVR): Application to Fetal, Neonatal, and Adult Brain Studies. IEEE Transactions on Medical Imaging, 2007, 26, 967-980.	5.4	173
60	Dictionary Learning and Time Sparsity for Dynamic MR Data Reconstruction. IEEE Transactions on Medical Imaging, 2014, 33, 979-994.	5.4	173
61	DeepMedic for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2016, , 138-149.	1.0	170
62	Regional growth and atlas of the developing human brain. NeuroImage, 2016, 125, 456-478.	2.1	167
63	Multi-modal classification of Alzheimer's disease using nonlinear graph fusion. Pattern Recognition, 2017, 63, 171-181.	5.1	166
64	Multiple instance learning for classification of dementia in brain MRI. Medical Image Analysis, 2014, 18, 808-818.	7.0	163
65	Machine Learning of Three-dimensional Right Ventricular Motion Enables Outcome Prediction in Pulmonary Hypertension: A Cardiac MR Imaging Study. Radiology, 2017, 283, 381-390.	3.6	161
66	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 61.	1.6	157
67	End-to-end privacy preserving deep learning on multi-institutional medical imaging. Nature Machine Intelligence, 2021, 3, 473-484.	8.3	157
68	Automatic 3D Bi-Ventricular Segmentation of Cardiac Images by a Shape-Refined Multi- Task Deep Learning Approach. IEEE Transactions on Medical Imaging, 2019, 38, 2151-2164.	5.4	155
69	An optimised tract-based spatial statistics protocol for neonates: Applications to prematurity and chronic lung disease. NeuroImage, 2010, 53, 94-102.	2.1	154
70	Cardiac Image Super-Resolution with Global Correspondence Using Multi-Atlas PatchMatch. Lecture Notes in Computer Science, 2013, 16, 9-16.	1.0	150
71	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. Medical Image Analysis, 2021, 67, 101832.	7.0	150
72	A common neonatal image phenotype predicts adverse neurodevelopmental outcome in children born preterm. NeuroImage, 2010, 52, 409-414.	2.1	147

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73	Diffeomorphic 3D Image Registration via Geodesic Shooting Using an Efficient Adjoint Calculation. International Journal of Computer Vision, 2012, 97, 229-241.	10.9	146
74	Robust whole-brain segmentation: Application to traumatic brain injury. Medical Image Analysis, 2015, 21, 40-58.	7.0	146
75	A review on automatic fetal and neonatal brain MRI segmentation. NeuroImage, 2018, 170, 231-248.	2.1	143
76	Benchmarking framework for myocardial tracking and deformation algorithms: An open access database. Medical Image Analysis, 2013, 17, 632-648.	7.0	140
77	Fast Volume Reconstruction From Motion Corrupted Stacks of 2D Slices. IEEE Transactions on Medical Imaging, 2015, 34, 1901-1913.	5.4	138
78	Multi-atlas segmentation with augmented features for cardiac MR images. Medical Image Analysis, 2015, 19, 98-109.	7.0	137
79	Differential diagnosis of neurodegenerative diseases using structural MRI data. NeuroImage: Clinical, 2016, 11, 435-449.	1.4	137
80	Multi-region analysis of longitudinal FDG-PET for the classification of Alzheimer's disease. NeuroImage, 2012, 60, 221-229.	2.1	136
81	Evaluation of current algorithms for segmentation of scar tissue from late Gadolinium enhancement cardiovascular magnetic resonance of the left atrium: an open-access grand challenge. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 105.	1.6	136
82	Analysis of 3-D Myocardial Motion in Tagged MR Images Using Nonrigid Image Registration. IEEE Transactions on Medical Imaging, 2004, 23, 1245-1250.	5.4	135
83	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. Npj Digital Medicine, 2021, 4, 60.	5.7	134
84	Prediction of stroke thrombolysis outcome using CT brain machine learning. NeuroImage: Clinical, 2014, 4, 635-640.	1.4	131
85	Injury markers predict time to dementia in subjects with MCI and amyloid pathology. Neurology, 2012, 79, 1809-1816.	1.5	129
86	Automated processing pipeline for neonatal diffusion MRI in the developing Human Connectome Project. NeuroImage, 2019, 185, 750-763.	2.1	127
87	Measurement of hippocampal atrophy using 4D graph-cut segmentation: Application to ADNI. NeuroImage, 2010, 52, 109-118.	2.1	122
88	Discriminative dictionary learning for abdominal multi-organ segmentation. Medical Image Analysis, 2015, 23, 92-104.	7.0	122
89	CINENet: deep learning-based 3D cardiac CINE MRI reconstruction with multi-coil complex-valued 4D spatio-temporal convolutions. Scientific Reports, 2020, 10, 13710.	1.6	122
90	Spatio-temporal free-form registration of cardiac MR image sequences. Medical Image Analysis, 2005, 9, 441-456.	7.0	121

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91	Sparse reduced-rank regression detects genetic associations with voxel-wise longitudinal phenotypes in Alzheimer's disease. <i>NeuroImage</i> , 2012, 60, 700-716.	2.1	121
92	Evaluating reinforcement learning agents for anatomical landmark detection. <i>Medical Image Analysis</i> , 2019, 53, 156-164.	7.0	121
93	Automatic morphometry in Alzheimer's disease and mild cognitive impairment. <i>NeuroImage</i> , 2011, 56, 2024-2037.	2.1	120
94	Automated analysis of atrial late gadolinium enhancement imaging that correlates with endocardial voltage and clinical outcomes: A 2-center study. <i>Heart Rhythm</i> , 2013, 10, 1184-1191.	0.3	120
95	A Novel Grading Biomarker for the Prediction of Conversion From Mild Cognitive Impairment to Alzheimer's Disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 155-165.	2.5	120
96	A bi-ventricular cardiac atlas built from 1000+ high resolution MR images of healthy subjects and an analysis of shape and motion. <i>Medical Image Analysis</i> , 2015, 26, 133-145.	7.0	119
97	Multi-input Cardiac Image Super-Resolution Using Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2016, , 246-254.	1.0	119
98	Automatic quantification of normal cortical folding patterns from fetal brain MRI. <i>NeuroImage</i> , 2014, 91, 21-32.	2.1	118
99	Global Burden of Small Vessel Disease—Related Brain Changes on MRI Predicts Cognitive and Functional Decline. <i>Stroke</i> , 2020, 51, 170-178.	1.0	115
100	Registration and tracking to integrate X-ray and MR images in an XMR facility. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 1369-1378.	5.4	111
101	Evaluation of Six Registration Methods for the Human Abdomen on Clinically Acquired CT. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1563-1572.	2.5	111
102	Fast generation of digitally reconstructed radiographs using attenuation fields with application to 2D-3D image registration. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1441-1454.	5.4	110
103	Fast and robust extraction of hippocampus from MR images for diagnostics of Alzheimer's disease. <i>NeuroImage</i> , 2011, 56, 185-196.	2.1	109
104	Structural brain imaging in Alzheimer's disease and mild cognitive impairment: biomarker analysis and shared morphometry database. <i>Scientific Reports</i> , 2018, 8, 11258.	1.6	106
105	Spectral Graph Convolutions for Population-Based Disease Prediction. <i>Lecture Notes in Computer Science</i> , 2017, , 177-185.	1.0	104
106	Comparison and Evaluation of Rigid, Affine, and Nonrigid Registration of Breast MR Images. <i>Journal of Computer Assisted Tomography</i> , 1999, 23, 800-805.	0.5	103
107	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , 2020, 26, 1654-1662.	15.2	98
108	Longitudinal regional brain volume changes quantified in normal aging and Alzheimer's APP <sup>PS1</sup> mice using MRI. <i>Brain Research</i> , 2009, 1270, 19-32.	1.1	97

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109	Dynamic patterns of cortical expansion during folding of the preterm human brain. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3156-3161.	3.3	94
110	Automatic detection and quantification of hippocampal atrophy on MRI in temporal lobe epilepsy: A proof-of-principle study. NeuroImage, 2007, 36, 38-47.	2.1	91
111	Recognition of 3D facial expression dynamics. Image and Vision Computing, 2012, 30, 762-773.	2.7	91
112	The estimation of patient-specific cardiac diastolic functions from clinical measurements. Medical Image Analysis, 2013, 17, 133-146.	7.0	91
113	Early growth in brain volume is preserved in the majority of preterm infants. Annals of Neurology, 2007, 62, 185-192.	2.8	89
114	Diffusion tensor imaging (DTI) of the brain in moving subjects: Application to inâ€terero fetal and exâ€terero studies. Magnetic Resonance in Medicine, 2009, 62, 645-655.	1.9	88
115	Multi-template tensor-based morphometry: Application to analysis of Alzheimer's disease. NeuroImage, 2011, 56, 1134-1144.	2.1	88
116	Registration-Based Interpolation. IEEE Transactions on Medical Imaging, 2004, 23, 922-926.	5.4	87
117	Identifying population differences in whole-brain structural networks: A machine learning approach. NeuroImage, 2010, 50, 910-919.	2.1	86
118	Measurements of medial temporal lobe atrophy for prediction of Alzheimer's disease in subjects with mild cognitive impairment. Neurobiology of Aging, 2013, 34, 2003-2013.	1.5	86
119	Genetic and functional insights into the fractal structure of the heart. Nature, 2020, 584, 589-594.	13.7	86
120	Evaluation of automatic neonatal brain segmentation algorithms: The NeoBrainS12 challenge. Medical Image Analysis, 2015, 20, 135-151.	7.0	85
121	Reverse Classification Accuracy: Predicting Segmentation Performance in the Absence of Ground Truth. IEEE Transactions on Medical Imaging, 2017, 36, 1597-1606.	5.4	85
122	Construction of a neonatal cortical surface atlas using Multimodal Surface Matching in the Developing Human Connectome Project. NeuroImage, 2018, 179, 11-29.	2.1	83
123	Multiclass semantic segmentation and quantification of traumatic brain injury lesions on head CT using deep learning: an algorithm development and multicentre validation study. The Lancet Digital Health, 2020, 2, e314-e322.	5.9	83
124	Self-supervision with Superpixels: Training Few-Shot Medical Image Segmentation Without Annotation. Lecture Notes in Computer Science, 2020, , 762-780.	1.0	83
125	Standardized Evaluation System for Left Ventricular Segmentation Algorithms in 3D Echocardiography. IEEE Transactions on Medical Imaging, 2016, 35, 967-977.	5.4	82
126	The developing Human Connectome Project (dHCP) automated resting-state functional processing framework for newborn infants. NeuroImage, 2020, 223, 117303.	2.1	81



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127	Magnetic Resonance Imaging of the Newborn Brain: Automatic Segmentation of Brain Images into 50 Anatomical Regions. PLoS ONE, 2013, 8, e59990.	1.1	78
128	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 18.	1.6	78
129	Self-Supervised Learning for Cardiac MR Image Segmentation by Anatomical Position Prediction. Lecture Notes in Computer Science, 2019, , 541-549.	1.0	78
130	Simultaneous Multi-scale Registration Using Large Deformation Diffeomorphic Metric Mapping. IEEE Transactions on Medical Imaging, 2011, 30, 1746-1759.	5.4	75
131	Test sequence of CSF and MRI biomarkers for prediction of AD in subjects with MCI. Neurobiology of Aging, 2012, 33, 2272-2281.	1.5	75
132	A Multicenter, Scan-Rescan, Human and Machine Learning CMR Study to Test Generalizability and Precision in Imaging Biomarker Analysis. Circulation: Cardiovascular Imaging, 2019, 12, e009214.	1.3	75
133	The Developing Human Connectome Project: typical and disrupted perinatal functional connectivity. Brain, 2021, 144, 2199-2213.	3.7	75
134	A Comprehensive Cardiac Motion Estimation Framework Using Both Untagged and 3-D Tagged MR Images Based on Nonrigid Registration. IEEE Transactions on Medical Imaging, 2012, 31, 1263-1275.	5.4	74
135	Automated fetal brain segmentation from 2D MRI slices for motion correction. NeuroImage, 2014, 101, 633-643.	2.1	74
136	Joint Learning of Motion Estimation and Segmentation for Cardiac MR Image Sequences. Lecture Notes in Computer Science, 2018, , 472-480.	1.0	74
137	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. Frontiers in Cardiovascular Medicine, 2020, 7, 105.	1.1	74
138	Automatic CNN-based detection of cardiac MR motion artefacts using k-space data augmentation and curriculum learning. Medical Image Analysis, 2019, 55, 136-147.	7.0	71
139	Multi-atlas pancreas segmentation: Atlas selection based on vessel structure. Medical Image Analysis, 2017, 39, 18-28.	7.0	70
140	Recurrent Neural Networks for Aortic Image Sequence Segmentation with Sparse Annotations. Lecture Notes in Computer Science, 2018, , 586-594.	1.0	69
141	Multiatlas whole heart segmentation of CT data using conditional entropy for atlas ranking and selection. Medical Physics, 2015, 42, 3822-3833.	1.6	66
142	Multi-organ Segmentation Based on Spatially-Divided Probabilistic Atlas from 3D Abdominal CT Images. Lecture Notes in Computer Science, 2013, 16, 165-172.	1.0	62
143	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 503-515.	3.9	61
144	Multi-modal Learning from Unpaired Images: Application to Multi-organ Segmentation in CT and MRI. , 2018, , .		61

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145	Cerebral atrophy measurements using Jacobian integration: Comparison with the boundary shift integral. <i>NeuroImage</i> , 2006, 32, 159-169.	2.1	60
146	Impaired development of the cerebral cortex in infants with congenital heart disease is correlated to reduced cerebral oxygen delivery. <i>Scientific Reports</i> , 2017, 7, 15088.	1.6	60
147	3-D Reconstruction in Canonical Co-Ordinate Space From Arbitrarily Oriented 2-D Images. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1737-1750.	5.4	60
148	Dynamic Changes in White Matter Abnormalities Correlate With Late Improvement and Deterioration Following TBI. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 49-62.	1.4	59
149	Unsupervised Deformable Registration for Multi-modal Images via Disentangled Representations. <i>Lecture Notes in Computer Science</i> , 2019, , 249-261.	1.0	59
150	Data Efficient Unsupervised Domain Adaptation For Cross-modality Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2019, , 669-677.	1.0	59
151	Classification and Lateralization of Temporal Lobe Epilepsies with and without Hippocampal Atrophy Based on Whole-Brain Automatic MRI Segmentation. <i>PLoS ONE</i> , 2012, 7, e33096.	1.1	59
152	Assessment of brain growth in early childhood using deformation-based morphometry. <i>NeuroImage</i> , 2008, 39, 348-358.	2.1	57
153	AI-Based Reconstruction for Fast MRI – A Systematic Review and Meta-Analysis. <i>Proceedings of the IEEE</i> , 2022, 110, 224-245.	16.4	57
154	Construction of a 4D Statistical Atlas of the Cardiac Anatomy and Its Use in Classification. <i>Lecture Notes in Computer Science</i> , 2005, 8, 402-410.	1.0	56
155	Stratified Decision Forests for Accurate Anatomical Landmark Localization in Cardiac Images. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 332-342.	5.4	56
156	Phenotypic Expression and Outcomes in Individuals With Rare Genetic Variants of Hypertrophic Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2021, 78, 1097-1110.	1.2	55
157	Hierarchical statistical shape analysis and prediction of sub-cortical brain structures. <i>Medical Image Analysis</i> , 2008, 12, 55-68.	7.0	54
158	Heterogeneity in Brain Microstructural Development Following Preterm Birth. <i>Cerebral Cortex</i> , 2020, 30, 4800-4810.	1.6	54
159	Simulation of cardiac pathologies using an electromechanical biventricular model and XMR interventional imaging. <i>Medical Image Analysis</i> , 2005, 9, 467-480.	7.0	53
160	Pathological Computed Tomography Features Associated With Adverse Outcomes After Mild Traumatic Brain Injury. <i>JAMA Neurology</i> , 2021, 78, 1137.	4.5	53
161	Classifier Selection Strategies for Label Fusion Using Large Atlas Databases. , 2007, 10, 523-531.		53
162	Medical imaging deep learning with differential privacy. <i>Scientific Reports</i> , 2021, 11, 13524.	1.6	52

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163	Automatic 3D ASM Construction via Atlas-Based Landmarking and Volumetric Elastic Registration. Lecture Notes in Computer Science, 2001, , 78-91.	1.0	51
164	Spatial Transformation of Motion and Deformation Fields Using Nonrigid Registration. IEEE Transactions on Medical Imaging, 2004, 23, 1065-1076.	5.4	50
165	Multi-organ Abdominal CT Segmentation Using Hierarchically Weighted Subject-Specific Atlases. Lecture Notes in Computer Science, 2012, 15, 10-17.	1.0	50
166	Nonlinear dimensionality reduction combining MR imaging with non-imaging information. Medical Image Analysis, 2012, 16, 819-830.	7.0	50
167	Temporal sparse free-form deformations. Medical Image Analysis, 2013, 17, 779-789.	7.0	50
168	Adversarial and Perceptual Refinement for Compressed Sensing MRI Reconstruction. Lecture Notes in Computer Science, 2018, , 232-240.	1.0	50
169	Nonrigid Registration of Medical Images: Theory, Methods, and Applications [Applications Corner. IEEE Signal Processing Magazine, 2010, 27, 113-119.	4.6	49
170	Structural MRI in Frontotemporal Dementia: Comparisons between Hippocampal Volumetry, Tensor-Based Morphometry and Voxel-Based Morphometry. PLoS ONE, 2012, 7, e52531.	1.1	49
171	Computational anatomy for multi-organ analysis in medical imaging: A review. Medical Image Analysis, 2019, 56, 44-67.	7.0	48
172	Water-fat Dixon cardiac magnetic resonance fingerprinting. Magnetic Resonance in Medicine, 2020, 83, 2107-2123.	1.9	48
173	Segmentation of Brain MRI in Young Children. Academic Radiology, 2007, 14, 1350-1366.	1.3	47
174	A dynamic approach to the recognition of 3D facial expressions and their temporal models. , 2011, , .		46
175	Reconstruction of a 3D surface from video that is robust to missing data and outliers: Application to minimally invasive surgery using stereo and mono endoscopes. Medical Image Analysis, 2012, 16, 597-611.	7.0	44
176	A Combined Manifold Learning Analysis of Shape and Appearance to Characterize Neonatal Brain Development. IEEE Transactions on Medical Imaging, 2011, 30, 2072-2086.	5.4	43
177	Common Genetic Variants and Risk of Brain Injury After Preterm Birth. Pediatrics, 2014, 133, e1655-e1663.	1.0	43
178	Brain Extraction Using Label Propagation and Group Agreement: Pinfram. PLoS ONE, 2015, 10, e0129211.	1.1	43
179	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. Scientific Reports, 2019, 9, 1130.	1.6	43
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