Robin Wolz

List of Publications by Year in descending order

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46 papers	3,395 citations	201674 27 h-index	302126 39 g-index
47 all docs	47 docs citations	47 times ranked	4694 citing authors

#	Article	IF	Citations
1	Fast and robust multi-atlas segmentation of brain magnetic resonance images. NeuroImage, 2010, 49, 2352-2365.	4.2	357
2	Geodesic Information Flows: Spatially-Variant Graphs and Their Application to Segmentation and Fusion. IEEE Transactions on Medical Imaging, 2015, 34, 1976-1988.	8.9	265
3	Multi-Method Analysis of MRI Images in Early Diagnostics of Alzheimer's Disease. PLoS ONE, 2011, 6, e25446.	2.5	240
4	Automated Abdominal Multi-Organ Segmentation With Subject-Specific Atlas Generation. IEEE Transactions on Medical Imaging, 2013, 32, 1723-1730.	8.9	225
5	LEAP: Learning embeddings for atlas propagation. NeuroImage, 2010, 49, 1316-1325.	4.2	216
6	Segmentation of MR images via discriminative dictionary learning and sparse coding: Application to hippocampus labeling. NeuroImage, 2013, 76, 11-23.	4.2	196
7	Multiple instance learning for classification of dementia in brain MRI. Medical Image Analysis, 2014, 18, 808-818.	11.6	163
8	Multi-region analysis of longitudinal FDG-PET for the classification of Alzheimer's disease. NeuroImage, 2012, 60, 221-229.	4.2	136
9	Injury markers predict time to dementia in subjects with MCI and amyloid pathology. Neurology, 2012, 79, 1809-1816.	1.1	129
10	Measurement of hippocampal atrophy using 4D graph-cut segmentation: Application to ADNI. NeuroImage, 2010, 52, 109-118.	4.2	122
11	Discriminative dictionary learning for abdominal multi-organ segmentation. Medical Image Analysis, 2015, 23, 92-104.	11.6	122
12	Sparse reduced-rank regression detects genetic associations with voxel-wise longitudinal phenotypes in Alzheimer's disease. NeuroImage, 2012, 60, 700-716.	4.2	121
13	Prediction of Alzheimer disease in subjects with amnestic and nonamnestic MCI. Neurology, 2013, 80, 1124-1132.	1.1	110
14	Fast and robust extraction of hippocampus from MR images for diagnostics of Alzheimer's disease. NeuroImage, 2011, 56, 185-196.	4.2	109
15	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.	3.1	86
16	Coalition Against Major Diseases/European Medicines Agency biomarker qualification of hippocampal volume for enrichment of clinical trials in predementia stages of Alzheimer's disease. Alzheimer's and Dementia, 2014, 10, 421.	0.8	77
17	Simultaneous Multi-scale Registration Using Large Deformation Diffeomorphic Metric Mapping. IEEE Transactions on Medical Imaging, 2011, 30, 1746-1759.	8.9	75
18	Test sequence of CSF and MRI biomarkers for prediction of AD in subjects with MCI. Neurobiology of Aging, 2012, 33, 2272-2281.	3.1	75

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19	Nonlinear dimensionality reduction combining MR imaging with non-imaging information. Medical Image Analysis, 2012, 16, 819-830.	11.6	50
20	Structural MRI in Frontotemporal Dementia: Comparisons between Hippocampal Volumetry, Tensor-Based Morphometry and Voxel-Based Morphometry. PLoS ONE, 2012, 7, e52531.	2.5	49
21	Application of the ATN classification scheme in a population without dementia: Findings from the EPAD cohort. Alzheimer's and Dementia, 2021, 17, 1189-1204.	0.8	44
22	Operationalizing hippocampal volume as an enrichment biomarker for amnestic mild cognitive impairment trials: effect of algorithm, test-retest variability, and cut point on trial cost, duration, and sample size. Neurobiology of Aging, 2014, 35, 808-818.	3.1	37
23	Enrichment of clinical trials in MCI due to AD using markers of amyloid and neurodegeneration. Neurology, 2016, 87, 1235-1241.	1.1	34
24	Robustness of automated hippocampal volumetry across magnetic resonance field strengths and repeat images. Alzheimer's and Dementia, 2014, 10, 430.	0.8	33
25	The impact of automated hippocampal volumetry on diagnostic confidence in patients with suspected Alzheimer's disease: A European Alzheimer's Disease Consortium study. Alzheimer's and Dementia, 2017, 13, 1013-1023.	0.8	33
26	Optimizing the Diagnosis of Early Alzheimer's Disease in Mild Cognitive Impairment Subjects. Journal of Alzheimer's Disease, 2012, 32, 969-979.	2.6	32
27	Manifold Learning for Medical Image Registration, Segmentation, and Classification. Advances in Bioinformatics and Biomedical Engineering Book Series, 2012, , 351-372.	0.4	30
28	Quantitative amyloid PET in Alzheimer's disease: the AMYPAD prognostic and natural history study. Alzheimer's and Dementia, 2020, 16, 750-758.	0.8	29
29	Geodesic Information Flows. Lecture Notes in Computer Science, 2012, 15, 262-270.	1.3	27
30	Hierarchical Manifold Learning for Regional Image Analysis. IEEE Transactions on Medical Imaging, 2014, 33, 444-461.	8.9	26
31	Predicting Progression from Cognitive Impairment to Alzheimerâ€™s Disease with the Disease State Index. Current Alzheimer Research, 2015, 12, 69-79.	1.4	22
32	Multi-class brain segmentation using atlas propagation and EM-based refinement. , 2012, , .		20
33	Simultaneous Fine and Coarse Diffeomorphic Registration: Application to Atrophy Measurement in Alzheimerâ€™s Disease. Lecture Notes in Computer Science, 2010, 13, 610-617.	1.3	20
34	Imaging markers associated with the development of post-stroke depression and apathy: Results of the Cognition and Affect after Stroke â€“ a Prospective Evaluation of Risks study. European Stroke Journal, 2020, 5, 78-84.	5.5	18
35	Manifold Learning for Biomarker Discovery in MR Imaging. Lecture Notes in Computer Science, 2010, , 116-123.	1.3	16
36	Hierarchical Manifold Learning. Lecture Notes in Computer Science, 2012, 15, 512-519.	1.3	11

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37	Multiple Instance Learning for Classification of Dementia in Brain MRI. Lecture Notes in Computer Science, 2013, 16, 599-606.	1.3	9
38	Manifold learning combining imaging with non-imaging information. , 2011, , .		6
39	Impact of cerebral blood flow and amyloid load on SUVR bias. EJNMMI Research, 2022, 12, 29.	2.5	6
40	Improved generation of probabilistic atlases for the expectation maximization classification. , 2011, , .		4
41	Landmark localisation in brain MR images using feature point descriptors based on 3D local self-similarities. , 2012, , .		4
42	A Multi-image Graph Cut Approach for Cardiac Image Segmentation and Uncertainty Estimation. Lecture Notes in Computer Science, 2012, , 178-187.	1.3	4
43	Transfer Learning for Brain Segmentation: Pre-task Selection and Data Limitations. Communications in Computer and Information Science, 2020, , 118-130.	0.5	3
44	Hippocampal atrophy rate using an expectation maximization classifier with a disease-specific prior. , 2012, , .		1
45	Extended boundary shift integral. , 2014, , .		1
46	Measuring atrophy by simultaneous segmentation of serial MR images using 4-D graph-cuts. , 2010, , .		0