Paul A Yushkevich

List of Publications by Year in Descending Order

175 papers	13,369 citations	41 h-index	115 g-index
195 ext. papers	17,115 ext. citations	4.3 avg, IF	6.19 L-index

#	Paper	IF	Citations
175	Dissociation of tau pathology and neuronal hypometabolism within the ATN framework of Alzheimer's disease.. *Nature Communications*, **2022**, 13, 1495	17.4	0
174	Ex vivo MRI and histopathology detect novel iron-rich cortical inflammation in frontotemporal lobar degeneration with tau versus TDP-43 pathology.. *NeuroImage: Clinical*, **2021**, 33, 102913	5.3	2
173	Tau-Atrophy Variability Reveals Phenotypic Heterogeneity in Alzheimer's Disease. *Annals of Neurology*, **2021**, 90, 751-762	9.4	3
172	Ex vivo MRI atlas of the human medial temporal lobe: characterizing neurodegeneration due to tau pathology. *Acta Neuropathologica Communications*, **2021**, 9, 173	7.3	0
171	Early stages of tau pathology and its associations with functional connectivity, atrophy and memory. *Brain*, **2021**, 144, 2771-2783	11.2	10
170	Hippocampal subfield volumetry from structural isotropic 1 mm MRI scans: A note of caution. *Human Brain Mapping*, **2021**, 42, 539-550	5.9	27
169	Multimodal image analysis and subvalvular dynamics in ischemic mitral regurgitation. *JTCVS Open*, **2021**, 5, 48-60	0.2	
168	Cross-sectional and longitudinal medial temporal lobe subregional atrophy patterns in semantic variant primary progressive aphasia. *Neurobiology of Aging*, **2021**, 98, 231-241	5.6	0
167	Deep Label Fusion: A 3D End-To-End Hybrid Multi-atlas Segmentation and Deep Learning Pipeline. *Lecture Notes in Computer Science*, **2021**, 428-439	0.9	0
166	Oh brother, where art tau? Amyloid, neurodegeneration, and cognitive decline without elevated tau. *NeuroImage: Clinical*, **2021**, 31, 102717	5.3	1
165	Three-dimensional mapping of neurofibrillary tangle burden in the human medial temporal lobe. *Brain*, **2021**, 144, 2784-2797	11.2	9
164	Sensitive Measures of Cognition in Mild Cognitive Impairment. *Journal of Alzheimer's Disease*, **2021**, 82, 1123-1136	4.3	0
163	Tau pathology mediates age effects on medial temporal lobe structure. *Neurobiology of Aging*, **2021**, 109, 135-144	5.6	1
162	Fully Automated Placental Volume Quantification From 3DUS for Prediction of Small-for-Gestational-Age Infants. *Journal of Ultrasound in Medicine*, **2021**,	2.9	1
161	DeepAtrophy: Teaching a neural network to detect progressive changes in longitudinal MRI of the hippocampal region in Alzheimer's disease. *NeuroImage*, **2021**, 243, 118514	7.9	0
160	Unfolding the Medial Temporal Lobe Cortex to Characterize Neurodegeneration Due to Alzheimer's Disease Pathology Using Ex vivo Imaging. *Lecture Notes in Computer Science*, **2021**, 3-12	0.9	
159	Regional distribution of tau pathology in subfields of hippocampus among phenotypic variants of AD and FTLD-tau.. *Alzheimer's and Dementia*, **2021**, 17 Suppl 3, e052392	1.2	

158	TAPAS: A Thresholding Approach for Probability Map Automatic Segmentation in Multiple Sclerosis. *NeuroImage: Clinical*, **2020**, 27, 102256	5.3	4
157	Intraoperative post-annuloplasty three-dimensional valve analysis does not predict recurrent ischemic mitral regurgitation. *Journal of Cardiothoracic Surgery*, **2020**, 15, 161	1.6	3
156	Neural and behavioral correlates of episodic memory are associated with temporal discounting in older adults. *Neuropsychologia*, **2020**, 146, 107549	3.2	5
155	ANHIR: Automatic Non-Rigid Histological Image Registration Challenge. *IEEE Transactions on Medical Imaging*, **2020**, 39, 3042-3052	11.7	22
154	Contribution of mixed pathology to medial temporal lobe atrophy in Alzheimer's disease. *Alzheimer's and Dementia*, **2020**, 16, 843-852	1.2	20
153	Minimally interactive placenta segmentation from three-dimensional ultrasound images. *Journal of Medical Imaging*, **2020**, 7, 014004	2.6	3
152	The Cancer Imaging Phenomics Toolkit (CaPTk): Technical Overview. *Lecture Notes in Computer Science*, **2020**, 11993, 380-394	0.9	12
151	Characterization of hippocampal subfields using ex vivo MRI and histology data: Lessons for in vivo segmentation. *Hippocampus*, **2020**, 30, 545-564	3.5	14
150	Quantitative three-dimensional echocardiographic analysis of the bicuspid aortic valve and aortic root: A single modality approach. *Journal of Cardiac Surgery*, **2020**, 35, 375-382	1.3	
149	Automated Meshing of Anatomical Shapes for Deformable Medial Modeling: Application to the Placenta in 3D Ultrasound **2020**,		1
148	3D Mapping of TAU Neurofibrillary Tangle Pathology in the Human Medial Temporal Lobe **2020**,		2
147	Building an Ex Vivo Atlas of the Earliest Brain Regions Affected by Alzheimer's Disease Pathology **2020**,		3
146	Longitudinal atrophy in early Braak regions in preclinical Alzheimer's disease. *Human Brain Mapping*, **2020**, 41, 4704-4717	5.9	15
145	In vivo measures of tau burden are associated with atrophy in early Braak stage medial temporal lobe regions in amyloid-negative individuals. *Alzheimer's and Dementia*, **2019**, 15, 1286-1295	1.2	13
144	Structural and functional asymmetry of medial temporal subregions in unilateral temporal lobe epilepsy: A 7T MRI study. *Human Brain Mapping*, **2019**, 40, 2390-2398	5.9	22
143	Longitudinal Changes in Hippocampal Subfield Volume Associated with Collegiate Football. *Journal of Neurotrauma*, **2019**, 36, 2762-2773	5.4	13
142	Automated segmentation of medial temporal lobe subregions on in vivo T1-weighted MRI in early stages of Alzheimer's disease. *Human Brain Mapping*, **2019**, 40, 3431-3451	5.9	33
141	User-Guided Segmentation of Multi-modality Medical Imaging Datasets with ITK-SNAP. *Neuroinformatics*, **2019**, 17, 83-102	3.2	46

140	Progress update from the hippocampal subfields group. *Alzheimers and Dementia: Diagnosis, Assessment and Disease Monitoring*, **2019**, 11, 439-449	5.2	16
139	Diffeomorphic Medial Modeling. *Lecture Notes in Computer Science*, **2019**, 11492, 208-220	0.9	
138	Semi-automated Image Segmentation of the Midsystolic Left Ventricular Mitral Valve Complex in Ischemic Mitral Regurgitation. *Lecture Notes in Computer Science*, **2019**, 11395, 142-151	0.9	
137	Improving Multi-atlas Segmentation by Convolutional Neural Network Based Patch Error Estimation. *Lecture Notes in Computer Science*, **2019**, 347-355	0.9	2
136	Task-enhanced arterial spin labeled perfusion MRI predicts longitudinal neurodegeneration in mild cognitive impairment. *Hippocampus*, **2019**, 29, 26-36	3.5	6
135	Associative memory for conceptually unitized word pairs in mild cognitive impairment is related to the volume of the perirhinal cortex. *Hippocampus*, **2019**, 29, 630-638	3.5	4
134	Early Tau Burden Correlates with Higher Rate of Atrophy in Transentorhinal Cortex. *Journal of Alzheimers Disease*, **2018**, 62, 85-92	4.3	17
133	Longitudinal and cross-sectional structural magnetic resonance imaging correlates of AV-1451 uptake. *Neurobiology of Aging*, **2018**, 66, 49-58	5.6	44
132	Automated Multi-Atlas Segmentation of Hippocampal and Extrahippocampal Subregions in Alzheimer's Disease at 3T and 7T: What Atlas Composition Works Best?. *Journal of Alzheimers Disease*, **2018**, 63, 217-225	4.3	7
131	Systematic comparison of different techniques to measure hippocampal subfield volumes in ADNI2. *NeuroImage: Clinical*, **2018**, 17, 1006-1018	5.3	44
130	Characterizing the human hippocampus in aging and Alzheimer's disease using a computational atlas derived from ex vivo MRI and histology. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4252-4257	11.5	75
129	Quantitative MRI of Perivascular Spaces at 3T for Early Diagnosis of Mild Cognitive Impairment. *American Journal of Neuroradiology*, **2018**, 39, 1622-1628	4.4	12
128	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. *Journal of Medical Imaging*, **2018**, 5, 011018	2.6	64
127	Joint Intensity Fusion Image Synthesis Applied to Multiple Sclerosis Lesion Segmentation **2018**, 10670, 43-54		2
126	Characterizing Anatomical Variability And Alzheimer's Disease Related Cortical Thinning in the Medial Temporal Lobe Using Graph-Based Groupwise Registration And Point Set Geodesic Shooting. *Lecture Notes in Computer Science*, **2018**, 11167, 28-37	0.9	2
125	Dice Overlap Measures for Objects of Unknown Number: Application to Lesion Segmentation. *Lecture Notes in Computer Science*, **2018**, 10670, 3-14	0.9	3
124	Joint Intensity Fusion Image Synthesis Applied to Multiple Sclerosis Lesion Segmentation. *Lecture Notes in Computer Science*, **2018**, 43-54	0.9	3
123	Mapping the structural and functional network architecture of the medial temporal lobe using 7T MRI. *Human Brain Mapping*, **2018**, 39, 851-865	5.9	34

122	Clinical validation of automated hippocampal segmentation in temporal lobe epilepsy. *NeuroImage: Clinical*, **2018**, 20, 1139-1147	5.3	7
121	Combining Deep Learning and Multi-atlas Label Fusion for Automated Placenta Segmentation from 3DUS. *Lecture Notes in Computer Science*, **2018**, 138-148	0.9	7
120	A protocol for manual segmentation of medial temporal lobe subregions in 7 Tesla MRI. *NeuroImage: Clinical*, **2017**, 15, 466-482	5.3	64
119	Spatiotemporal Segmentation and Modeling of the Mitral Valve in Real-Time 3D Echocardiographic Images. *Lecture Notes in Computer Science*, **2017**, 10433, 746-754	0.9	2
118	Gradient Boosted Trees for Corrective Learning. *Lecture Notes in Computer Science*, **2017**, 10541, 203-211	0.9	3
117	A tract-specific approach to assessing white matter in preterm infants. *NeuroImage*, **2017**, 157, 675-694	7.9	23
116	ITK-SNAP: An Intractive Medical Image Segmentation Tool to Meet the Need for Expert-Guided Segmentation of Complex Medical Images. *IEEE Pulse*, **2017**, 8, 54-57	0.7	54
115	Self-gated MRI of multiple beat morphologies in the presence of arrhythmias. *Magnetic Resonance in Medicine*, **2017**, 78, 678-688	4.4	7
114	A harmonized segmentation protocol for hippocampal and parahippocampal subregions: Why do we need one and what are the key goals?. *Hippocampus*, **2017**, 27, 3-11	3.5	84
113	Multi-template analysis of human perirhinal cortex in brain MRI: Explicitly accounting for anatomical variability. *NeuroImage*, **2017**, 144, 183-202	7.9	22
112	Medial temporal lobe subregional morphometry using high resolution MRI in Alzheimer's disease. *Neurobiology of Aging*, **2017**, 49, 204-213	5.6	47
111	Neural Correlates of Verbal Episodic Memory and Lexical Retrieval in Logopenic Variant Primary Progressive Aphasia. *Frontiers in Neuroscience*, **2017**, 11, 330	5.1	29
110	Image Segmentation and Modeling of the Pediatric Tricuspid Valve in Hypoplastic Left Heart Syndrome. *Lecture Notes in Computer Science*, **2017**, 10263, 95-105	0.9	10
109	Multiple Sclerosis Lesion Segmentation Using Joint Label Fusion. *Lecture Notes in Computer Science*, **2017**, 10530, 138-145	0.9	1
108	Modeling the Myxomatous Mitral Valve With Three-Dimensional Echocardiography. *Annals of Thoracic Surgery*, **2016**, 102, 703-710	2.7	8
107	Globally Optimal Label Fusion with Shape Priors. *Lecture Notes in Computer Science*, **2016**, 9901, 538-546	0.9	5
106	A framework for informing segmentation of in vivo MRI with information derived from ex vivo imaging: Application in the medial temporal lobe. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 6014-6017	0.9	1
105	Supervoxel-Based Hierarchical Markov Random Field Framework for Multi-atlas Segmentation. *Lecture Notes in Computer Science*, **2016**, 100-108	0.9	

104	ITK-SNAP: An interactive tool for semi-automatic segmentation of multi-modality biomedical images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 3342-3345	0.9	121
103	Clinical Application of Automatic Segmentation of Medial Temporal Lobe Subregions in Prodromal and Dementia-Level Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2016**, 54, 1027-1037	4.3	5
102	A brain stress test: Cerebral perfusion during memory encoding in mild cognitive impairment. *NeuroImage: Clinical*, **2016**, 11, 388-397	5.3	20
101	In-vivo heterogeneous functional and residual strains in human aortic valve leaflets. *Journal of Biomechanics*, **2016**, 49, 2481-90	2.9	22
100	Preoperative Three-Dimensional Valve Analysis Predicts Recurrent Ischemic Mitral Regurgitation After Mitral Annuloplasty. *Annals of Thoracic Surgery*, **2016**, 101, 567-75; discussion 575	2.7	42
99	Accounting for the Confound of Meninges in Segmenting Entorhinal and Perirhinal Cortices in T1-Weighted MRI. *Lecture Notes in Computer Science*, **2016**, 9901, 564-571	0.9	12
98	Probabilistic Atlas of the Human Hippocampus Combining Ex Vivo MRI and Histology. *Lecture Notes in Computer Science*, **2016**, 63-71	0.9	2
97	Maturation Along White Matter Tracts in Human Brain Using a Diffusion Tensor Surface Model Tract-Specific Analysis. *Frontiers in Neuroanatomy*, **2016**, 10, 9	3.6	25
96	Automated Hippocampal Subfield Segmentation at 7T MRI. *American Journal of Neuroradiology*, **2016**, 37, 1050-7	4.4	41
95	The value of preoperative 3-dimensional over 2-dimensional valve analysis in predicting recurrent ischemic mitral regurgitation after mitral annuloplasty. *Journal of Thoracic and Cardiovascular Surgery*, **2016**, 152, 847-59	1.5	17
94	IC-P-174: Fast Automatic Segmentation of Hippocampal Subfields and Medial Temporal Lobe Subregions In 3 Tesla and 7 Tesla T2-Weighted MRI **2016**, 12, P126-P127		21
93	Quantification of Left Ventricular Function With Premature Ventricular Complexes Reveals Variable Hemodynamics. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9, e003520	6.4	12
92	Quantitative comparison of 21 protocols for labeling hippocampal subfields and parahippocampal subregions in in vivo MRI: towards a harmonized segmentation protocol. *NeuroImage*, **2015**, 111, 526-41	7.9	209
91	Relationship of contextual cueing and hippocampal volume in amnestic mild cognitive impairment patients and cognitively normal older adults. *Journal of the International Neuropsychological Society* , **2015**, 21, 285-96	3.1	11
90	Multi-atlas label fusion with augmented atlases for fast and accurate segmentation of cardiac MR images **2015**,		4
89	Suspected non-AD pathology in mild cognitive impairment. *Neurobiology of Aging*, **2015**, 36, 3152-3162	5.6	49
88	Assessing atrophy measurement techniques in dementia: Results from the MIRIAD atrophy challenge. *NeuroImage*, **2015**, 123, 149-64	7.9	48
87	User-initialized active contour segmentation and golden-angle real-time cardiovascular magnetic resonance enable accurate assessment of LV function in patients with sinus rhythm and arrhythmias. *Journal of Cardiovascular Magnetic Resonance*, **2015**, 17, 37	6.9	14

86	Automated volumetry and regional thickness analysis of hippocampal subfields and medial temporal cortical structures in mild cognitive impairment. *Human Brain Mapping*, **2015**, 36, 258-87	5.9	292
85	Medially constrained deformable modeling for segmentation of branching medial structures: Application to aortic valve segmentation and morphometry. *Medical Image Analysis*, **2015**, 26, 217-31	15.4	21
84	Anterior and posterior MTL networks in aging and MCI. *Neurobiology of Aging*, **2015**, 36 Suppl 1, S141-50, S150.e1	5.6	37
83	4D-transesophageal echocardiography and emerging imaging modalities for guiding mitral valve repair. *Annals of Cardiothoracic Surgery*, **2015**, 4, 461-2	4.7	2
82	Segmentation of the Aortic Valve Apparatus in 3D Echocardiographic Images: Deformable Modeling of a Branching Medial Structure. *Lecture Notes in Computer Science*, **2015**, 8896, 196-203	0.9	5
81	Real-time magnetic resonance imaging technique for determining left ventricle pressure-volume loops. *Annals of Thoracic Surgery*, **2014**, 97, 1597-603	2.7	14
80	Histology-derived volumetric annotation of the human hippocampal subfields in postmortem MRI. *NeuroImage*, **2014**, 84, 505-23	7.9	97
79	Fully automatic segmentation of the mitral leaflets in 3D transesophageal echocardiographic images using multi-atlas joint label fusion and deformable medial modeling. *Medical Image Analysis*, **2014**, 18, 118-29	15.4	58
78	Statistical assessment of normal mitral annular geometry using automated three-dimensional echocardiographic analysis. *Annals of Thoracic Surgery*, **2014**, 97, 71-7	2.7	16
77	White matter disease contributes to apathy and disinhibition in behavioral variant frontotemporal dementia. *Cognitive and Behavioral Neurology*, **2014**, 27, 206-14	1.6	27
76	Automatic clustering and thickness measurement of anatomical variants of the human perirhinal cortex. *Lecture Notes in Computer Science*, **2014**, 17, 81-8	0.9	9
75	Increased functional connectivity within medial temporal lobe in mild cognitive impairment. *Hippocampus*, **2013**, 23, 1-6	3.5	63
74	White matter disease correlates with lexical retrieval deficits in primary progressive aphasia. *Frontiers in Neurology*, **2013**, 4, 212	4.1	18
73	Multi-Atlas Segmentation with Joint Label Fusion. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2013**, 35, 611-23	13.3	566
72	Multi-atlas segmentation with joint label fusion and corrective learning-an open source implementation. *Frontiers in Neuroinformatics*, **2013**, 7, 27	3.9	116
71	Deformable modeling using a 3D boundary representation with quadratic constraints on the branching structure of the Blum skeleton. *Lecture Notes in Computer Science*, **2013**, 23, 280-91	0.9	12
70	Multi-atlas segmentation with robust label transfer and label fusion. *Lecture Notes in Computer Science*, **2013**, 23, 548-59	0.9	25
69	Multi-atlas segmentation without registration: a supervoxel-based approach. *Lecture Notes in Computer Science*, **2013**, 16, 535-42	0.9	21

68	Automated segmentation and geometrical modeling of the tricuspid aortic valve in 3D echocardiographic images. *Lecture Notes in Computer Science*, **2013**, 16, 485-92	0.9	10
67	Groupwise segmentation with multi-atlas joint label fusion. *Lecture Notes in Computer Science*, **2013**, 16, 711-8	0.9	13
66	RECONSTRUCTION OF THE HUMAN HIPPOCAMPUS IN 3D FROM HISTOLOGY AND HIGH-RESOLUTION EX-VIVO MRI **2012**, 2012, 294-297	1.5	6
65	Spatial Bias in Multi-Atlas Based Segmentation. *IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops*, **2012**, 2012, 909-916	1.3	8
64	From label fusion to correspondence fusion: a new approach to unbiased groupwise registration. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, **2012**, 956-963	6	12
63	Semi-automated mitral valve morphometry and computational stress analysis using 3D ultrasound. *Journal of Biomechanics*, **2012**, 45, 903-7	2.9	37
62	Measuring longitudinal change in the hippocampal formation from in vivo high-resolution T2-weighted MRI. *NeuroImage*, **2012**, 60, 1266-79	7.9	30
61	Robust Automated Amygdala Segmentation via Multi-Atlas Diffeomorphic Registration. *Frontiers in Neuroscience*, **2012**, 6, 166	5.1	25
60	White matter imaging contributes to the multimodal diagnosis of frontotemporal lobar degeneration. *Neurology*, **2012**, 78, 1761-8	6.5	40
59	DEPENDENCY PRIOR FOR MULTI-ATLAS LABEL FUSION **2012**, 2012, 892-895	1.5	4
58	Development of a semi-automated method for mitral valve modeling with medial axis representation using 3D ultrasound. *Medical Physics*, **2012**, 39, 933-50	4.4	26
57	In vivo analysis of hippocampal subfield atrophy in mild cognitive impairment via semi-automatic segmentation of T2-weighted MRI. *Journal of Alzheimer's Disease*, **2012**, 31, 85-99	4.3	84
56	Guiding automatic segmentation with multiple manual segmentations. *Lecture Notes in Computer Science*, **2012**, 15, 429-36	0.9	2
55	A learning-based wrapper method to correct systematic errors in automatic image segmentation: consistently improved performance in hippocampus, cortex and brain segmentation. *NeuroImage*, **2011**, 55, 968-85	7.9	143
54	Heterogeneity of functional activation during memory encoding across hippocampal subfields in temporal lobe epilepsy. *NeuroImage*, **2011**, 58, 1121-30	7.9	16
53	Regression-Based Label Fusion for Multi-Atlas Segmentation. *IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops*, **2011**, 1113-1120	1.3	39
52	Hippocampus segmentation using a stable maximum likelihood classifier ensemble algorithm **2011**,		1
51	Optimal weights for multi-atlas label fusion. *Lecture Notes in Computer Science*, **2011**, 22, 73-84	0.9	26

50	Automatic cardiac MRI segmentation using a biventricular deformable medial model. *Lecture Notes in Computer Science*, **2010**, 13, 468-75	0.9	22
49	3D mesh based wall thickness measurement: identification of left ventricular hypertrophy phenotypes. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 2642-5	0.9	7
48	Nearly automatic segmentation of hippocampal subfields in in vivo focal T2-weighted MRI. *NeuroImage*, **2010**, 53, 1208-24	7.9	190
47	Cerebral cortical folding analysis with multivariate modeling and testing: Studies on gender differences and neonatal development. *NeuroImage*, **2010**, 53, 450-9	7.9	52
46	The optimal template effect in hippocampus studies of diseased populations. *NeuroImage*, **2010**, 49, 2457-66	7.9	428
45	Bias in estimation of hippocampal atrophy using deformation-based morphometry arises from asymmetric global normalization: an illustration in ADNI 3 T MRI data. *NeuroImage*, **2010**, 50, 434-45	7.9	106
44	Standing on the shoulders of giants: improving medical image segmentation via bias correction. *Lecture Notes in Computer Science*, **2010**, 13, 105-12	0.9	5
43	Shape-based semi-automatic hippocampal subfield segmentation with learning-based bias removal **2010**,		1
42	N4ITK: improved N3 bias correction. *IEEE Transactions on Medical Imaging*, **2010**, 29, 1310-20	11.7	2457
41	A tract-specific framework for white matter morphometry combining macroscopic and microscopic tract features. *Medical Image Analysis*, **2010**, 14, 666-73	15.4	41
40	A Computational White Matter Atlas for Aging with Surface-Based Representation of Fasciculi. *Lecture Notes in Computer Science*, **2010**, 83-90	0.9	11
39	Structure specific analysis of the hippocampus in temporal lobe epilepsy. *Hippocampus*, **2009**, 19, 517-25	3.5	16
38	Hippocampal volumetry and functional MRI of memory in temporal lobe epilepsy. *Epilepsy and Behavior*, **2009**, 16, 128-38	3.2	33
37	A high-resolution computational atlas of the human hippocampus from postmortem magnetic resonance imaging at 9.4 T. *NeuroImage*, **2009**, 44, 385-98	7.9	134
36	Continuous medial representation of brain structures using the biharmonic PDE. *NeuroImage*, **2009**, 45, S99-110	7.9	32
35	Multivariate high-dimensional cortical folding analysis, combining complexity and shape, in neonates with congenital heart disease. *Lecture Notes in Computer Science*, **2009**, 21, 552-63	0.9	15
34	A tract-specific framework for white matter morphometry combining macroscopic and microscopic tract features. *Lecture Notes in Computer Science*, **2009**, 12, 141-9	0.9	7
33	Tensor-based morphometry of fibrous structures with application to human brain white matter. *Lecture Notes in Computer Science*, **2009**, 12, 466-73	0.9	2

32	Structure-Specific Statistical Mapping of White Matter Tracts. *Mathematics and Visualization*, **2009**, 83-1[illegible]26		2
31	Gender differences in cerebral cortical folding: multivariate complexity-shape analysis with insights into handling brain-volume differences. *Lecture Notes in Computer Science*, **2009**, 12, 200-7	0.9	3
30	Structure-specific statistical mapping of white matter tracts. *NeuroImage*, **2008**, 41, 448-61	7.9	138
29	Building an atlas of hippocampal subfields using postmortem MRI **2008**,		2
28	Branching medial models for cardiac shape representation **2008**,		2
27	Surface-based modeling of white matter fasciculi with orientation encoding **2008**,		1
26	Shape-based alignment of hippocampal subfields: evaluation in postmortem MRI. *Lecture Notes in Computer Science*, **2008**, 11, 510-7	0.9	8
25	3D cerebral cortical morphometry in autism: increased folding in children and adolescents in frontal, parietal, and temporal lobes. *Lecture Notes in Computer Science*, **2008**, 11, 559-67	0.9	19
24	Cardiac medial modeling and time-course heart wall thickness analysis. *Lecture Notes in Computer Science*, **2008**, 11, 766-73	0.9	7
23	Shape-based normalization of the corpus callosum for DTI connectivity analysis. *IEEE Transactions on Medical Imaging*, **2007**, 26, 1166-78	11.7	17
22	Neuroinformatics for genome-wide 3D gene expression mapping in the mouse brain. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2007**, 4, 382-393	3	95
21	Unbiased white matter atlas construction using diffusion tensor images **2007**, 10, 211-8		55
20	High-dimensional spatial normalization of diffusion tensor images improves the detection of white matter differences: an example study using amyotrophic lateral sclerosis. *IEEE Transactions on Medical Imaging*, **2007**, 26, 1585-97	11.7	203
19	Structure-Specific Statistical Mapping of White Matter Tracts using the Continuous Medial Representation **2007**,		16
18	Hippocampus-specific fMRI group activation analysis using the continuous medial representation. *NeuroImage*, **2007**, 35, 1516-30	7.9	22
17	Evaluation of shape-based normalization in the corpus callosum for white matter connectivity analysis **2007**, 10, 777-84		
16	3D Mouse Brain Reconstruction from Histology Using a Coarse-to-Fine Approach. *Lecture Notes in Computer Science*, **2006**, 230-237	0.9	26
15	Continuous medial representation for anatomical structures. *IEEE Transactions on Medical Imaging*, **2006**, 25, 1547-64	11.7	93

14	Deformable registration of diffusion tensor MR images with explicit orientation optimization. *Medical Image Analysis*, **2006**, 10, 764-85	15.4	377
13	User-guided 3D active contour segmentation of anatomical structures: significantly improved efficiency and reliability. *NeuroImage*, **2006**, 31, 1116-28	7.9	4561
12	Hippocampus-specific fMRI group activation analysis with continuous M-Reps. *Lecture Notes in Computer Science*, **2006**, 9, 284-91	0.9	0
11	Anatomy-Based Visualizations of Diffusion Tensor Images of Brain White Matter. *Mathematics and Visualization*, **2006**, 155-163	0.6	2
10	Regional structural characterization of the brain of schizophrenia patients. *Academic Radiology*, **2005**, 12, 1250-61	4.3	15
9	Parametric medial shape representation in 3-D via the Poisson partial differential equation with non-linear boundary conditions. *Lecture Notes in Computer Science*, **2005**, 19, 162-73	0.9	5
8	Statistical modeling of shape and appearance using the continuous medial representation. *Lecture Notes in Computer Science*, **2005**, 8, 725-32	0.9	5
7	Feature selection for shape-based classification of biological objects. *Lecture Notes in Computer Science*, **2003**, 18, 114-25	0.9	21
6	Deformable M-Reps for 3D Medical Image Segmentation. *International Journal of Computer Vision*, **2003**, 55, 85-106	10.6	136
5	Continuous medial representations for geometric object modeling in 2D and 3D. *Image and Vision Computing*, **2003**, 21, 17-27	3.7	49
4	Multiscale deformable model segmentation and statistical shape analysis using medial descriptions. *IEEE Transactions on Medical Imaging*, **2002**, 21, 538-50	11.7	98
3	Intuitive, Localized Analysis of Shape Variability. *Lecture Notes in Computer Science*, **2001**, 402-408	0.9	21
2	Segmentation, registration, and measurement of shape variation via image object shape. *IEEE Transactions on Medical Imaging*, **1999**, 18, 851-65	11.7	210
1	Neural and behavioral correlates of episodic memory are associated with temporal discounting in older adults		1