

Pierre Fillard

List of Publications by Year in descending order

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22
papers

3,993
citations

686830

13
h-index

794141

19
g-index

22
all docs

22
docs citations

22
times ranked

3646
citing authors

#	ARTICLE	IF	CITATIONS
1	Tractography in the clinics: Implementing a pipeline to characterize early brain development. <i>NeuroImage: Clinical</i> , 2017, 14, 629-640.	1.4	6
2	Unsupervised Fiber Bundles Registration Using Weighted Measures Geometric Demons. <i>Lecture Notes in Computer Science</i> , 2013, , 95-106.	1.0	0
3	Improving image quality in small animal diffusion tensor imaging at 7T. , 2012, , .		0
4	Joint T1 and Brain Fiber Log-Demons Registration Using Currents to Model Geometry. <i>Lecture Notes in Computer Science</i> , 2012, 15, 57-65.	1.0	13
5	Quantitative evaluation of 10 tractography algorithms on a realistic diffusion MR phantom. <i>NeuroImage</i> , 2011, 56, 220-234.	2.1	376
6	DTI registration in atlas based fiber analysis of infantile Krabbe disease. <i>NeuroImage</i> , 2011, 55, 1577-1586.	2.1	110
7	Registration, atlas estimation and variability analysis of white matter fiber bundles modeled as currents. <i>NeuroImage</i> , 2011, 55, 1073-1090.	2.1	84
8	Voxelwise Multivariate Statistics and Brain-Wide Machine Learning Using the Full Diffusion Tensor. <i>Lecture Notes in Computer Science</i> , 2011, 14, 9-16.	1.0	3
9	Joint T1 and Brain Fiber Diffeomorphic Registration Using the Demons. <i>Lecture Notes in Computer Science</i> , 2011, , 10-18.	1.0	3
10	Detection of Brain Functional-Connectivity Difference in Post-stroke Patients Using Group-Level Covariance Modeling. <i>Lecture Notes in Computer Science</i> , 2010, 13, 200-208.	1.0	93
11	DT-REFinD: Diffusion Tensor Registration With Exact Finite-Strain Differential. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 1914-1928.	5.4	84
12	A Statistical Model of White Matter Fiber Bundles Based on Currents. <i>Lecture Notes in Computer Science</i> , 2009, 21, 114-125.	1.0	6
13	DTI registration with exact finite-strain differential. , 2008, , .		19
14	Measuring brain variability by extrapolating sparse tensor fields measured on sulcal lines. <i>NeuroImage</i> , 2007, 34, 639-650.	2.1	59
15	Clinical DT-MRI Estimation, Smoothing, and Fiber Tracking With Log-Euclidean Metrics. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 1472-1482.	5.4	206
16	Geometric Means in a Novel Vector Space Structure on Symmetric Positiveâ€œDefinite Matrices. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2007, 29, 328-347.	0.7	573
17	Diffusion Tensor Magnetic Resonance Imaging and Fiber Tracking in Spinal Cord Lesions: Current and Future Indications. <i>Neuroimaging Clinics of North America</i> , 2007, 17, 137-147.	0.5	82
18	vtkINRIA3D: A VTK Extension for Spatiotemporal Data Synchronization, Visualization and Management. <i>The Insight Journal</i> , 2007, , .	0.2	7

#	ARTICLE	IF	CITATIONS
19	A Riemannian Framework for Tensor Computing. International Journal of Computer Vision, 2006, 66, 41-66.	10.9	1,125
20	Log-Euclidean metrics for fast and simple calculus on diffusion tensors. Magnetic Resonance in Medicine, 2006, 56, 411-421.	1.9	913
21	Incorporating Statistical Measures of Anatomical Variability in Atlas-to-Subject Registration for Conformal Brain Radiotherapy. Lecture Notes in Computer Science, 2005, 8, 927-934.	1.0	29
22	MR diffusion tensor imaging and fiber tracking in spinal cord compression. American Journal of Neuroradiology, 2005, 26, 1587-94.	1.2	202