

# Pierre Fillard

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11100379/publications.pdf>

Version: 2024-02-01

22  
papers

3,993  
citations

687363

13  
h-index

794594

19  
g-index

22  
all docs

22  
docs citations

22  
times ranked

3646  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Riemannian Framework for Tensor Computing. International Journal of Computer Vision, 2006, 66, 41-66.	15.6	1,125
2	Log-Euclidean metrics for fast and simple calculus on diffusion tensors. Magnetic Resonance in Medicine, 2006, 56, 411-421.	3.0	913
3	Geometric Means in a Novel Vector Space Structure on Symmetric Positive-Definite Matrices. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 328-347.	1.4	573
4	Quantitative evaluation of 10 tractography algorithms on a realistic diffusion MR phantom. NeuroImage, 2011, 56, 220-234.	4.2	376
5	Clinical DT-MRI Estimation, Smoothing, and Fiber Tracking With Log-Euclidean Metrics. IEEE Transactions on Medical Imaging, 2007, 26, 1472-1482.	8.9	206
6	MR diffusion tensor imaging and fiber tracking in spinal cord compression. American Journal of Neuroradiology, 2005, 26, 1587-94.	2.4	202
7	DTI registration in atlas based fiber analysis of infantile Krabbe disease. NeuroImage, 2011, 55, 1577-1586.	4.2	110
8	Detection of Brain Functional-Connectivity Difference in Post-stroke Patients Using Group-Level Covariance Modeling. Lecture Notes in Computer Science, 2010, 13, 200-208.	1.3	93
9	DT-REFinD: Diffusion Tensor Registration With Exact Finite-Strain Differential. IEEE Transactions on Medical Imaging, 2009, 28, 1914-1928.	8.9	84
10	Registration, atlas estimation and variability analysis of white matter fiber bundles modeled as currents. NeuroImage, 2011, 55, 1073-1090.	4.2	84
11	Diffusion Tensor Magnetic Resonance Imaging and Fiber Tracking in Spinal Cord Lesions: Current and Future Indications. Neuroimaging Clinics of North America, 2007, 17, 137-147.	1.0	82
12	Measuring brain variability by extrapolating sparse tensor fields measured on sulcal lines. NeuroImage, 2007, 34, 639-650.	4.2	59
13	Incorporating Statistical Measures of Anatomical Variability in Atlas-to-Subject Registration for Conformal Brain Radiotherapy. Lecture Notes in Computer Science, 2005, 8, 927-934.	1.3	29
14	DTI registration with exact finite-strain differential. , 2008, , .		19
15	Joint T1 and Brain Fiber Log-Demons Registration Using Currents to Model Geometry. Lecture Notes in Computer Science, 2012, 15, 57-65.	1.3	13
16	vtkINRIA3D: A VTK Extension for Spatiotemporal Data Synchronization, Visualization and Management. The Insight Journal, 2007, , .	0.2	7
17	Tractography in the clinics: Implementing a pipeline to characterize early brain development. NeuroImage: Clinical, 2017, 14, 629-640.	2.7	6
18	A Statistical Model of White Matter Fiber Bundles Based on Currents. Lecture Notes in Computer Science, 2009, 21, 114-125.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Voxelwise Multivariate Statistics and Brain-Wide Machine Learning Using the Full Diffusion Tensor. Lecture Notes in Computer Science, 2011, 14, 9-16.	1.3	3
20	Joint T1 and Brain Fiber Diffeomorphic Registration Using the Demons. Lecture Notes in Computer Science, 2011, , 10-18.	1.3	3
21	Improving image quality in small animal diffusion tensor imaging at 7T. , 2012, , .		0
22	Unsupervised Fiber Bundles Registration Using Weighted Measures Geometric Demons. Lecture Notes in Computer Science, 2013, , 95-106.	1.3	0