Antonio TristÃ¡n-Vega

List of Publications by Year
in descending order

60 papers	1,242 citations	516681 16 h-index	377849 34 g-index

65 all docs	65 docs citations	65 times ranked	1641 citing authors

#	Article	IF	Citations
1	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. Journal of Neuroimaging, 2015, 25, 875-882.	2.0	147
2	Noise estimation in single- and multiple-coil magnetic resonance data based on statistical models. Magnetic Resonance Imaging, 2009, 27, 1397-1409.	1.8	135
3	DWI filtering using joint information for DTI and HARDI. Medical Image Analysis, 2010, 14, 205-218.	11.6	101
4	Estimation of fiber Orientation Probability Density Functions in High Angular Resolution Diffusion Imaging. NeuroImage, 2009, 47, 638-650.	4.2	95
5	Noise estimation in parallel MRI: GRAPPA and SENSE. Magnetic Resonance Imaging, 2014, 32, 281-290.	1.8	90
6	Statistical noise analysis in GRAPPA using a parametrized noncentral Chi approximation model. Magnetic Resonance in Medicine, 2011, 65, 1195-1206.	3.0	85
7	Efficient and robust nonlocal means denoising of MR data based on salient features matching. Computer Methods and Programs in Biomedicine, 2012, 105, 131-144.	4.7	73
8	Impact of MR Acquisition Parameters on DTI Scalar Indexes: A Tractography Based Approach. PLoS ONE, 2015, 10, e0137905.	2.5	60
9	A Radius and Ulna TW3 Bone Age Assessment System. IEEE Transactions on Biomedical Engineering, 2008, 55, 1463-1476.	4.2	48
10	A new methodology for the estimation of fiber populations in the white matter of the brain with the Funkâ€“Radon transform. NeuroImage, 2010, 49, 1301-1315.	4.2	44
11	Influence of noise correlation in multipleâ€coil statistical models with sum of squares reconstruction. Magnetic Resonance in Medicine, 2012, 67, 580-585.	3.0	38
12	Effective noise estimation and filtering from correlated multiple-coil MR data. Magnetic Resonance Imaging, 2013, 31, 272-285.	1.8	35
13	Efficient and Robust Image Restoration Using Multiple-Feature L2-Relaxed Sparse Analysis Priors. IEEE Transactions on Image Processing, 2015, 24, 5046-5059.	9.8	28
14	Probabilistic ODF Estimation from Reduced HARDI Data with Sparse Regularization. Lecture Notes in Computer Science, 2011, 14, 182-190.	1.3	27
15	Adjugate Diffusion Tensors for Geodesic Tractography in White Matter. Journal of Mathematical Imaging and Vision, 2016, 54, 1-14.	1.3	24
16	Least squares for diffusion tensor estimation revisited: Propagation of uncertainty with Rician and non-Rician signals. NeuroImage, 2012, 59, 4032-4043.	4.2	22
17	About the background distribution in MR data: a local variance study. Magnetic Resonance Imaging, 2010, 28, 739-752.	1.8	15
18	Parallel MRI Noise Correction: An Extension of the LMMSE to Non Central Ï‡ Distributions. Lecture Notes in Computer Science, 2011, 14, 226-233.	1.3	14

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19	Micro-structure diffusion scalar measures from reduced MRI acquisitions. PLoS ONE, 2020, 15, e0229526.	2.5	12
20	Efficient and accurate EAP imaging from multi-shell dMRI with micro-structure adaptive convolution kernels and dual Fourier Integral Transforms (MiSFIT). NeuroImage, 2021, 227, 117616.	4.2	12
21	A Novel Riemannian Metric for Geodesic Tractography in DTI. Mathematics and Visualization, 2014, , 97-104.	0.6	12
22	Joint LMMSE Estimation of DWI Data for DTI Processing. Lecture Notes in Computer Science, 2008, 11, 27-34.	1.3	12
23	Design and Construction of a Realistic DWI Phantom for Filtering Performance Assessment. Lecture Notes in Computer Science, 2009, 12, 951-958.	1.3	11
24	Scalar diffusion-MRI measures invariant to acquisition parameters: A first step towards imaging biomarkers. Magnetic Resonance Imaging, 2018, 54, 194-213.	1.8	9
25	A Radius and Ulna Skeletal Age Assessment System. , 0, , .		8
26	Local similarity measures for demons-like registration algorithms. , 2008, , .		8
27	Noise correction for HARDI and HYDI data obtained with multi-channel coils and Sum of Squares reconstruction: An anisotropic extension of the LMMSE. Magnetic Resonance Imaging, 2013, 31, 1360-1371.	1.8	8
28	Apparent propagator anisotropy from singleâ€shell diffusion MRI acquisitions. Magnetic Resonance in Medicine, 2021, 85, 2869-2881.	3.0	8
29	Accurate freeâ€water estimation in white matter from fast diffusion MRI acquisitions using the spherical means technique. Magnetic Resonance in Medicine, 2022, 87, 1028-1035.	3.0	7
30	Saturn: A software application of tensor utilities for research in neuroimaging. Computer Methods and Programs in Biomedicine, 2010, 97, 264-279.	4.7	6
31	Improving GRAPPA reconstruction by frequency discrimination in the ACS lines. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1699-1710.	2.8	6
32	Bias of Least Squares Approaches for Diffusion Tensor Estimation from Array Coils in DTâ€“MRI. Lecture Notes in Computer Science, 2009, 12, 919-926.	1.3	6
33	Anisotropic LMMSE denoising of MRI based on statistical tissue models. , 2012, , .		4
34	On the Blurring of the Funkâ€“Radon Transform in Qâ€“Ball Imaging. Lecture Notes in Computer Science, 2009, , 415-422.	1.3	4
35	Moment-based representation of the diffusion inside the brain from reduced DMRI acquisitions: Generalized AMURA. Medical Image Analysis, 2022, 77, 102356.	11.6	4
36	Strain Rate Tensor estimation in cine cardiac MRI based on elastic image registration. , 2008, , .		3

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37	NURBS for the geometrical modeling of a new family of Compact-Supported Radial Basis Functions for elastic registration of medical images. , 2010, 2010, 5947-50.		3
38	DWI acquisition schemes and Diffusion Tensor estimation: A simulation-based study. , 2010, 2010, 3317-20.		3
39	Single-Shell Return-to-the-Origin Probability Diffusion Mri Measure Under a Non-Stationary Rician Distributed Noise. , 2019, , .		3
40	Optimal real-time estimation in diffusion tensor imaging. Magnetic Resonance Imaging, 2012, 30, 506-517.	1.8	2
41	Compressed UAV sensing for flood monitoring by solving the continuous travelling salesman problem over hyperspectral maps. , 2018, , .		2
42	P2C-3 Ultrasound Based Intraoperative Brain Shift Correction. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	1
43	A new approach to elastography using a modified demons registration algorithm. , 2008, , .		1
44	Comments on: A locally constrained radial basis function for registration and warping of images. Pattern Recognition Letters, 2011, 32, 586-589.	4.2	1
45	Deblurring of probabilistic ODFs in quantitative diffusion MRI. , 2012, , .		1
46	Noise estimation in magnetic resonance SENSE reconstructed data. , 2013, 2013, 1104-7.		1
47	On the blurring of the Funk-Radon transform in Q-Ball imaging. , 2009, 12, 415-22.		1
48	Strain index: a new visualizing parameter for US elastography. Proceedings of SPIE, 2008, , .	0.8	0
49	Noise estimation in MR GRAPPA reconstructed data. , 2011, , .		0
50	Merging squared-magnitude approaches to DWI denoising: An adaptive Wiener filter tuned to the anatomical contents of the image. , 2013, 2013, 507-10.		0
51	Anisotropic diffusion filtering for correlated multiple-coil MRI. , 2013, 2013, 2956-9.		0
52	Strain Rate Tensor Estimation in Cine Cardiac MRI Based on Elastic Image Registration. Advances in Pattern Recognition, 2009, , 355-379.	0.8	0
53	Homeomorphic Geometrical Transform for Collision Response in Surgical Simulation. Lecture Notes in Computer Science, 2013, , 433-440.	1.3	0
54	Return-to-Axis Probability Calculation from Single-Shell Acquisitions. Mathematics and Visualization, 2019, , 29-41.	0.6	0

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55	Alternative Diffusion Anisotropy Metric from Reduced MRI Acquisitions. Mathematics and Visualization, 2020, , 13-24.	0.6	0
56	Anisotropy measure from three diffusion-encoding gradient directions. Magnetic Resonance Imaging, 2022, 88, 38-43.	1.8	0
57	Micro-structure diffusion scalar measures from reduced MRI acquisitions. , 2020, 15, e0229526.		0
58	Micro-structure diffusion scalar measures from reduced MRI acquisitions. , 2020, 15, e0229526.		0
59	Micro-structure diffusion scalar measures from reduced MRI acquisitions. , 2020, 15, e0229526.		0
60	Micro-structure diffusion scalar measures from reduced MRI acquisitions. , 2020, 15, e0229526.		0