

Santiago Aja-Fernandez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

2,158
citations

24
h-index

45
g-index

118
ext. papers

2,578
ext. citations

4.9
avg, IF

5.26
L-index

#	Paper	IF	Citations
104	Moment-based representation of the diffusion inside the brain from reduced DMRI acquisitions: Generalized AMURA.. <i>Medical Image Analysis</i> , 2022 , 77, 102356	15.4	0
103	Accurate free-water estimation in white matter from fast diffusion MRI acquisitions using the spherical means technique. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 1028-1035	4.4	0
102	Synthetic MRI improves Radiomics-based glioblastoma survival prediction.. <i>NMR in Biomedicine</i> , 2022 , e4754	4.4	0
101	Apparent propagator anisotropy from single-shell diffusion MRI acquisitions. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2869-2881	4.4	2
100	Multimodal fusion analysis of structural connectivity and gray matter morphology in migraine. <i>Human Brain Mapping</i> , 2021 , 42, 908-921	5.9	1
99	Efficient and accurate EAP imaging from multi-shell dMRI with micro-structure adaptive convolution kernels and dual Fourier Integral Transforms (MiSFIT). <i>NeuroImage</i> , 2021 , 227, 117616	7.9	5
98	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: Chronicles of the MEMENTO challenge. <i>NeuroImage</i> , 2021 , 240, 118367	7.9	3
97	Q-Space Quantitative Diffusion MRI Measures Using a Stretched-Exponential Representation. <i>Mathematics and Visualization</i> , 2021 , 121-133	0.6	
96	Micro-structure diffusion scalar measures from reduced MRI acquisitions. <i>PLoS ONE</i> , 2020 , 15, e0229526	3.7	7
95	Direction-averaged diffusion-weighted MRI signal using different axisymmetric B-tensor encoding schemes. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 1579-1591	4.4	11
94	Structural connectivity alterations in chronic and episodic migraine: A diffusion magnetic resonance imaging connectomics study. <i>Cephalalgia</i> , 2020 , 40, 367-383	6.1	9
93	White matter changes in chronic and episodic migraine: a diffusion tensor imaging study. <i>Journal of Headache and Pain</i> , 2020 , 21, 1	8.8	26
92	Alternative Microstructural Measures to Complement Diffusion Tensor Imaging in Migraine Studies with Standard MRI Acquisition. <i>Brain Sciences</i> , 2020 , 10,	3.4	3
91	Gray Matter Structural Alterations in Chronic and Episodic Migraine: A Morphometric Magnetic Resonance Imaging Study. <i>Pain Medicine</i> , 2020 , 21, 2997-3011	2.8	6
90	Simultaneous imaging of hard and soft biological tissues in a low-field dental MRI scanner. <i>Scientific Reports</i> , 2020 , 10, 21470	4.9	2
89	Micro-structure diffusion scalar measures from reduced MRI acquisitions 2020 , 15, e0229526		
88	Micro-structure diffusion scalar measures from reduced MRI acquisitions 2020 , 15, e0229526		

87	Micro-structure diffusion scalar measures from reduced MRI acquisitions 2020 , 15, e0229526		
86	Micro-structure diffusion scalar measures from reduced MRI acquisitions 2020 , 15, e0229526		
85	Single-Shell Return-to-the-Origin Probability Diffusion Mri Measure Under a Non-Stationary Rician Distributed Noise 2019 ,		3
84	Return-to-Axis Probability Calculation from Single-Shell Acquisitions. <i>Mathematics and Visualization</i> , 2019 , 29-41	0.6	
83	Computation of exact g-factor maps in 3D GRAPPA reconstructions. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1353-1367	4.4	
82	Optimized Diffusion-Weighting Gradient Waveform Design (ODGD) formulation for motion compensation and concomitant gradient nulling. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 989-1003	4.4	14
81	Robust estimation of the apparent diffusion coefficient invariant to acquisition noise and physiological motion. <i>Magnetic Resonance Imaging</i> , 2018 , 53, 123-133	3.3	3
80	Scalar diffusion-MRI measures invariant to acquisition parameters: A first step towards imaging biomarkers. <i>Magnetic Resonance Imaging</i> , 2018 , 54, 194-213	3.3	7
79	Non-Stationary Rician Noise Estimation in Parallel MRI Using a Single Image: A Variance-Stabilizing Approach. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017 , 39, 2015-2029	13.3	17
78	2016 ,		3
77	Spatially-variant noise filtering in magnetic resonance imaging: A consensus-based approach. <i>Knowledge-Based Systems</i> , 2016 , 106, 264-273	7.3	1
76	Influence of ultrasound speckle tracking strategies for motion and strain estimation. <i>Medical Image Analysis</i> , 2016 , 32, 184-200	15.4	8
75	Statistical Analysis of Noise in MRI 2016 ,		28
74	A local fuzzy thresholding methodology for multiregion image segmentation. <i>Knowledge-Based Systems</i> , 2015 , 83, 1-12	7.3	81
73	Spatially variant noise estimation in MRI: a homomorphic approach. <i>Medical Image Analysis</i> , 2015 , 20, 184-97	15.4	44
72	Attention deficit/hyperactivity disorder and medication with stimulants in young children: a DTI study. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2015 , 57, 176-84	5.5	27
71	Improving GRAPPA reconstruction by frequency discrimination in the ACS lines. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015 , 10, 1699-710	3.9	5
70	A maximum likelihood approach to diffeomorphic speckle tracking for 3D strain estimation in echocardiography. <i>Medical Image Analysis</i> , 2015 , 24, 90-105	15.4	2

69	Blind estimation of spatially variant noise in GRAPPA MRI 2015 ,		1
68	Anisotropic diffusion filter with memory based on speckle statistics for ultrasound images. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 345-58	8.7	84
67	Impact of MR Acquisition Parameters on DTI Scalar Indexes: A Tractography Based Approach. <i>PLoS ONE</i> , 2015 , 10, e0137905	3.7	43
66	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. <i>PLoS ONE</i> , 2015 , 10, e0138910	3.7	21
65	Fully automatic detection of salient features in 3-d transesophageal images. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 2868-84	3.5	2
64	Noise estimation in parallel MRI: GRAPPA and SENSE. <i>Magnetic Resonance Imaging</i> , 2014 , 32, 281-90	3.3	61
63	Gamma mixture classifier for plaque detection in intravascular ultrasonic images. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 44-61	3.2	24
62	Strain rate tensor estimation from echocardiography for quantitative assessment of functional mitral regurgitation 2013 ,		1
61	A magnetic resonance software simulator for the evaluation of myocardial deformation estimation. <i>Medical Engineering and Physics</i> , 2013 , 35, 1331-40	2.4	
60	Groupwise elastic registration by a new sparsity-promoting metric: application to the alignment of cardiac magnetic resonance perfusion images. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2013 , 35, 2638-50	13.3	9
59	Atlas-based segmentation of white matter structures from DTI using tensor invariants and orientation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 503-6	0.9	1
58	Merging squared-magnitude approaches to DWI denoising: An adaptive Wiener filter tuned to the anatomical contents of the image. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 507-10	0.9	
57	Effective noise estimation and filtering from correlated multiple-coil MR data. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 272-85	3.3	29
56	Noise correction for HARDI and HYDI data obtained with multi-channel coils and sum of squares reconstruction: an anisotropic extension of the LMMSE. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 1360-71	3.3	7
55	Noise estimation in magnetic resonance SENSE reconstructed data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1104-7	0.9	
54	Robust estimation of MRI myocardial perfusion parameters. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 4382-5	0.9	
53	Anisotropic diffusion filtering for correlated multiple-coil MRI. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2956-9	0.9	
52	Speckle Tracking in Interpolated Echocardiography to Estimate Heart Motion. <i>Lecture Notes in Computer Science</i> , 2013 , 325-333	0.9	1

51	Parametric Image Restoration Using Consensus: An Application to Nonstationary Noise Filtering. <i>Lecture Notes in Computer Science</i> , 2013 , 358-365	0.9	
50	Homeomorphic Geometrical Transform for Collision Response in Surgical Simulation. <i>Lecture Notes in Computer Science</i> , 2013 , 433-440	0.9	
49	A direct calculation of moments of the sample variance. <i>Mathematics and Computers in Simulation</i> , 2012 , 82, 790-804	3.3	2
48	Optimal real-time estimation in diffusion tensor imaging. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 506-17	3.3	2
47	Influence of noise correlation in multiple-coil statistical models with sum of squares reconstruction. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 580-5	4.4	32
46	Anisotropic LMMSE denoising of MRI based on statistical tissue models 2012 ,		4
45	Least squares for diffusion tensor estimation revisited: propagation of uncertainty with Rician and non-Rician signals. <i>NeuroImage</i> , 2012 , 59, 4032-43	7.9	18
44	2012 ,		3
43	Efficient and robust nonlocal means denoising of MR data based on salient features matching. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 105, 131-44	6.9	63
42	Deblurring of probabilistic ODFs in quantitative diffusion MRI 2012 ,		1
41	A generalized gamma mixture model for ultrasonic tissue characterization. <i>Computational and Mathematical Methods in Medicine</i> , 2012 , 2012, 481923	2.8	18
40	Parallel MRI noise correction: an extension of the LMMSE to non central chi distributions. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 226-33	0.9	11
39	Statistical noise analysis in GRAPPA using a parametrized noncentral Chi approximation model. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 1195-206	4.4	71
38	NURBS for the geometrical modeling of a new family of Compact-Supported Radial Basis Functions for elastic registration of medical images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5347-50	0.9	2
37	On the influence of interpolation on probabilistic models for ultrasonic images 2010 ,		12
36	A variationally based weighted re-initialization method for geometric active contours 2010 ,		1
35	DWI acquisition schemes and diffusion tensor estimation: a simulation-based study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3317-20	0.9	2
34	Soft thresholding for medical image segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4752-5	0.9	8

33	A new methodology for the estimation of fiber populations in the white matter of the brain with the Funk-Radon transform. <i>NeuroImage</i> , 2010 , 49, 1301-15	7.9	36
32	DWI filtering using joint information for DTI and HARDI. <i>Medical Image Analysis</i> , 2010 , 14, 205-18	15.4	78
31	About the background distribution in MR data: a local variance study. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 739-52	3.3	15
30	Probabilistic-driven oriented Speckle reducing anisotropic diffusion with application to cardiac ultrasonic images. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 518-25	0.9	13
29	A 3-D collision handling algorithm for surgery simulation based on feedback fuzzy logic. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009 , 13, 451-7		3
28	Noise estimation in single- and multiple-coil magnetic resonance data based on statistical models. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 1397-409	3.3	115
27	Automatic noise estimation in images using local statistics. Additive and multiplicative cases. <i>Image and Vision Computing</i> , 2009 , 27, 756-770	3.7	63
26	Noise-driven anisotropic diffusion filtering of MRI. <i>IEEE Transactions on Image Processing</i> , 2009 , 18, 2265-74	7.4	140
25	Estimation of fiber orientation probability density functions in high angular resolution diffusion imaging. <i>NeuroImage</i> , 2009 , 47, 638-50	7.9	79
24	On the blurring of the Funk-Radon transform in Q-Ball imaging 2009 , 12, 415-22		1
23	Bias of least squares approaches for diffusion tensor estimation from array coils in DT-MRI. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 919-26	0.9	4
22	Design and construction of a realistic DWI phantom for filtering performance assessment. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 951-8	0.9	6
21	On the Blurring of the FunkRadon Transform in QBall Imaging. <i>Lecture Notes in Computer Science</i> , 2009 , 415-422	0.9	3
20	Quality Assessment of Tensor Images. <i>Advances in Pattern Recognition</i> , 2009 , 79-103		
19	Noise and signal estimation in magnitude MRI and Rician distributed images: a LMMSE approach. <i>IEEE Transactions on Image Processing</i> , 2008 , 17, 1383-98	8.7	187
18	Restoration of DWI data using a Rician LMMSE estimator. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1389-403	11.7	117
17	Local similarity measures for demons-like registration algorithms 2008 ,		6
16	Matrix Modeling of Hierarchical Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2008 , 16, 585-599	8.3	18

15	Joint LMMSE estimation of DWI data for DTI processing. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 27-34	0.9	6
14	P6D-4 Analysis of Ultrasound Images Based on Local Statistics. Application to the Diagnosis of Developmental Dysplasia of the Hip. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		2
13	Outlier rejection for diffusion weighted imaging 2007 , 10, 161-8		2
12	Fuzzy feedback system analysis using transition matrices. <i>Fuzzy Sets and Systems</i> , 2006 , 157, 516-543	3.7	4
11	Image quality assessment based on local variance. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4815-8		68
10	On the estimation of the coefficient of variation for anisotropic diffusion speckle filtering. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 2694-701	8.7	221
9	Group-Slicer: a collaborative extension of 3D-Slicer. <i>Journal of Biomedical Informatics</i> , 2005 , 38, 431-42	10.2	10
8	Fast inference using transition matrices: an extension to nonlinear operators. <i>IEEE Transactions on Fuzzy Systems</i> , 2005 , 13, 478-490	8.3	12
7	A computational TW3 classifier for skeletal maturity assessment. A Computing with Words approach. <i>Journal of Biomedical Informatics</i> , 2004 , 37, 99-107	10.2	49
6	Fast inference in SAM fuzzy systems using transition matrices. <i>IEEE Transactions on Fuzzy Systems</i> , 2004 , 12, 170-182	8.3	7
5	A fuzzy-controlled Kalman filter applied to stereo-visual tracking schemes. <i>Signal Processing</i> , 2003 , 83, 101-120	4.4	15
4	. <i>IEEE Transactions on Fuzzy Systems</i> , 2002 , 10, 360-374	8.3	7
3	Hierarchical fuzzy systems with FITM		3
2	Image Quality Assessment based on Local Variance		13
1	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: chronicles of the MEMENTO challenge		2