

Alejandro F Frangi

List of Publications by Year in descending order

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65
papers

6,339
citations

185998

28
h-index

161609

54
g-index

65
all docs

65
docs citations

65
times ranked

7281
citing authors

#	ARTICLE	IF	CITATIONS
1	A probabilistic deep motion model for unsupervised cardiac shape anomaly assessment. <i>Medical Image Analysis</i> , 2022, 75, 102276.	7.0	5
2	In-silico trial of intracranial flow diverters replicates and expands insights from conventional clinical trials. <i>Nature Communications</i> , 2021, 12, 3861.	5.8	25
3	Automatic segmentation of left and right ventricles in cardiac MRI using 3D-ASM and deep learning. <i>Signal Processing: Image Communication</i> , 2021, 96, 116303.	1.8	6
4	Quantitative CMR population imaging on 20,000 subjects of the UK Biobank imaging study: LV/RV quantification pipeline and its evaluation. <i>Medical Image Analysis</i> , 2019, 56, 26-42.	7.0	41
5	High Throughput Computation of Reference Ranges of Biventricular Cardiac Function on the UK Biobank Population Cohort. <i>Lecture Notes in Computer Science</i> , 2019, , 114-121.	1.0	3
6	Screening for Cognitive Impairment by Model-Assisted Cerebral Blood Flow Estimation. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1654-1661.	2.5	13
7	Group-wise similarity registration of point sets using Student's t-mixture model for statistical shape models. <i>Medical Image Analysis</i> , 2018, 44, 156-176.	7.0	32
8	Automatic initialization and quality control of large-scale cardiac MRI segmentations. <i>Medical Image Analysis</i> , 2018, 43, 129-141.	7.0	48
9	Virtual endovascular treatment of intracranial aneurysms: models and uncertainty. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2017, 9, e1385.	6.6	11
10	A review of heart chamber segmentation for structural and functional analysis using cardiac magnetic resonance imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 155-195.	1.1	190
11	Direct Estimation of Wall Shear Stress from Aneurysmal Morphology: A Statistical Approach. <i>Lecture Notes in Computer Science</i> , 2016, , 201-209.	1.0	1
12	Joint Clustering and Component Analysis of Spatio-Temporal Shape Patterns in Myocardial Infarction. <i>Lecture Notes in Computer Science</i> , 2016, , 171-179.	1.0	2
13	An Algorithm for the Segmentation of Highly Abnormal Hearts Using a Generic Statistical Shape Model. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 845-859.	5.4	31
14	Statistically-driven 3D fiber reconstruction and denoising from multi-slice cardiac DTI using a Markov random field model. <i>Medical Image Analysis</i> , 2016, 27, 105-116.	7.0	3
15	A Predictive Model of Vertebral Trabecular Anisotropy From Ex Vivo Micro-CT. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 1747-1759.	5.4	4
16	A Bayesian Approach to Sparse Model Selection in Statistical Shape Models. <i>SIAM Journal on Imaging Sciences</i> , 2015, 8, 858-887.	1.3	12
17	3D active shape models of human brain structures: application to patient-specific mesh generation. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
18	Vascular dysfunction in the pathogenesis of Alzheimer's disease – A review of endothelium-mediated mechanisms and ensuing vicious circles. <i>Neurobiology of Disease</i> , 2015, 82, 593-606.	2.1	219

#	ARTICLE	IF	CITATIONS
19	Reusability of Statistical Shape Models for the Segmentation of Severely Abnormal Hearts. Lecture Notes in Computer Science, 2015, , 257-264.	1.0	7
20	Joint Clustering and Component Analysis of Correspondenceless Point Sets: Application to Cardiac Statistical Modeling. Lecture Notes in Computer Science, 2015, 24, 98-109.	1.0	6
21	3D segmentation of annulus fibrosus and nucleus pulposus from T2-weighted magnetic resonance images. Physics in Medicine and Biology, 2014, 59, 7847-7864.	1.6	16
22	A framework for the merging of pre-existing and correspondenceless 3D statistical shape models. Medical Image Analysis, 2014, 18, 1044-1058.	7.0	11
23	Automatic cardiac LV segmentation in MRI using modified graph cuts with smoothness and interslice constraints. Magnetic Resonance in Medicine, 2014, 72, 1775-1784.	1.9	35
24	Pre to Intraoperative Data Fusion Framework for Multimodal Characterization of Myocardial Scar Tissue. IEEE Journal of Translational Engineering in Health and Medicine, 2014, 2, 1-11.	2.2	2
25	Newtonian and non-Newtonian blood flow in coiled cerebral aneurysms. Journal of Biomechanics, 2013, 46, 2158-2164.	0.9	82
26	Image based cardiac acceleration map using statistical shape and 3D+t myocardial tracking models; in-vitro study on heart phantom. Proceedings of SPIE, 2013, , .	0.8	0
27	Automated Personalised Human Left Ventricular FE Models to Investigate Heart Failure Mechanics. Lecture Notes in Computer Science, 2013, , 307-316.	1.0	4
28	Full Multiresolution Active Shape Models. Journal of Mathematical Imaging and Vision, 2012, 44, 463-479.	0.8	2
29	Conical deformable model for myocardial segmentation in late-enhanced MRI. , 2012, , .		3
30	Fast virtual deployment of self-expandable stents: Method and in vitro evaluation for intracranial aneurysmal stenting. Medical Image Analysis, 2012, 16, 721-730.	7.0	107
31	An Experimental Evaluation of Three Classifiers for Use in Self-Updating Face Recognition Systems. IEEE Transactions on Information Forensics and Security, 2012, 7, 932-943.	4.5	2
32	Automated segmentation of cerebral vasculature with aneurysms in 3DRA and TOFâ€MRA using geodesic active regions: An evaluation study. Medical Physics, 2011, 38, 210-222.	1.6	67
33	Automatic Aneurysm Neck Detection Using Surface Voronoi Diagrams. IEEE Transactions on Medical Imaging, 2011, 30, 1863-1876.	5.4	25
34	Reconstructing the 3D Shape and Bone Mineral Density Distribution of the Proximal Femur From Dual-Energy X-Ray Absorptiometry. IEEE Transactions on Medical Imaging, 2011, 30, 2101-2114.	5.4	65
35	A spatiotemporal statistical atlas of motion for the quantification of abnormal myocardial tissue velocities. Medical Image Analysis, 2011, 15, 316-328.	7.0	68
36	Effects of the Purkinje System and Cardiac Geometry on Biventricular Pacing: A Model Study. Annals of Biomedical Engineering, 2010, 38, 1388-1398.	1.3	72

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37	Feasibility of estimating regional mechanical properties of cerebral aneurysms <i>in vivo</i> . Medical Physics, 2010, 37, 1689-1706.	1.6	22
38	Sparse active shape models: influence of the interpolation kernel on segmentation accuracy and speed. , 2010, , .		0
39	3D reconstruction of both shape and Bone Mineral Density distribution of the femur from DXA images. , 2010, , .		11
40	Atlas Construction and Image Analysis Using Statistical Cardiac Models. Lecture Notes in Computer Science, 2010, , 1-13.	1.0	0
41	Automated Detection of Regional Wall Motion Abnormalities Based on a Statistical Model Applied to Multislice Short-Axis Cardiac MR Images. IEEE Transactions on Medical Imaging, 2009, 28, 595-607.	5.4	77
42	Computational cardiac atlases: from patient to population and back. Experimental Physiology, 2009, 94, 578-596.	0.9	115
43	Automatic Construction of 3D-ASM Intensity Models by Simulating Image Acquisition: Application to Myocardial Gated SPECT Studies. IEEE Transactions on Medical Imaging, 2008, 27, 1655-1667.	5.4	30
44	Reliability Estimation for Statistical Shape Models. IEEE Transactions on Image Processing, 2008, 17, 2442-2455.	6.0	10
45	Cardiac Medial Modeling and Time-Course Heart Wall Thickness Analysis. Lecture Notes in Computer Science, 2008, 11, 766-773.	1.0	12
46	A statistical shape model of the heart and its application to model-based segmentation. , 2007, , .		33
47	Simulated 3D ultrasound LV cardiac images for active shape model training. , 2007, , .		9
48	Active Shape Models with Invariant Optimal Features: Application to Facial Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1105-1117.	9.7	58
49	Computational mouse atlases and their application to automatic assessment of craniofacial dysmorphology caused by the Crouzon mutation Fgfr2C342Y. Journal of Anatomy, 2007, 211, 37-52.	0.9	29
50	Sparse Statistical Deformation Model for the Analysis of Craniofacial Malformations in the Crouzon Mouse. , 2007, , 112-121.		2
51	A Framework for Weighted Fusion of Multiple Statistical Models of Shape and Appearance. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1847-1857.	9.7	25
52	SPASM: A 3D-ASM for segmentation of sparse and arbitrarily oriented cardiac MRI data. Medical Image Analysis, 2006, 10, 286-303.	7.0	194
53	A statistical model-based approach for the automatic quantitative analysis of perfusion gated SPECT studies. , 2005, , .		4
54	Statistical Modeling and Segmentation in Cardiac MRI Using a Grid Computing Approach. Lecture Notes in Computer Science, 2005, , 6-15.	1.0	3

#	ARTICLE	IF	CITATIONS
55	SPASM: Segmentation of Sparse and Arbitrarily Oriented Cardiac MRI Data Using a 3D-ASM. Lecture Notes in Computer Science, 2005, , 33-43.	1.0	6
56	KPCA plus LDA: a complete kernel Fisher discriminant framework for feature extraction and recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 230-244.	9.7	721
57	Efficient pipeline for image-based patient-specific analysis of cerebral aneurysm hemodynamics: technique and sensitivity. IEEE Transactions on Medical Imaging, 2005, 24, 457-467.	5.4	473
58	A new kernel Fisher discriminant algorithm with application to face recognition. Neurocomputing, 2004, 56, 415-421.	3.5	37
59	Combined Fisherfaces framework. Image and Vision Computing, 2003, 21, 1037-1044.	2.7	61
60	Automatic construction of 3-D statistical deformation models of the brain using nonrigid registration. IEEE Transactions on Medical Imaging, 2003, 22, 1014-1025.	5.4	350
61	Pre-clinical evaluation of implicit deformable models for three-dimensional segmentation of brain aneurysms from CTA images. , 2003, 5032, 1264.		5
62	Active shape model segmentation with optimal features. IEEE Transactions on Medical Imaging, 2002, 21, 924-933.	5.4	444
63	Automatic construction of multiple-object three-dimensional statistical shape models: application to cardiac modeling. IEEE Transactions on Medical Imaging, 2002, 21, 1151-1166.	5.4	325
64	Automatic 3D ASM Construction via Atlas-Based Landmarking and Volumetric Elastic Registration. Lecture Notes in Computer Science, 2001, , 78-91.	1.0	51
65	Multiscale vessel enhancement filtering. Lecture Notes in Computer Science, 1998, , 130-137.	1.0	2,012