

# Daniel Barbosa

## List of Publications by Year in descending order

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70  
papers

1,228  
citations

430874

18  
h-index

395702

33  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1506  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast automatic myocardial segmentation in 4D cine CMR datasets. <i>Medical Image Analysis</i> , 2014, 18, 1115-1131.	11.6	126
2	B-Spline Explicit Active Surfaces: An Efficient Framework for Real-Time 3-D Region-Based Segmentation. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 241-251.	9.8	107
3	Standardized Evaluation System for Left Ventricular Segmentation Algorithms in 3D Echocardiography. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 967-977.	8.9	82
4	The influence of frame rate on two-dimensional speckle-tracking strain measurements: a study on silico-simulated models and images recorded in patients. <i>European Heart Journal Cardiovascular Imaging</i> , 2015, 16, 1137-1147.	1.2	79
5	Two-dimensional speckle tracking echocardiography: standardization efforts based on synthetic ultrasound data. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 693-701.	1.2	63
6	Detection of the whole myocardium in 2D-echocardiography for multiple orientations using a geometrically constrained level-set. <i>Medical Image Analysis</i> , 2012, 16, 386-401.	11.6	62
7	Fast and Fully Automatic 3-D Echocardiographic Segmentation Using B-Spline Explicit Active Surfaces: Feasibility Study and Validation in a Clinical Setting. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 89-101.	1.5	58
8	Elastic Image Registration Versus Speckle Tracking for 2-D Myocardial Motion Estimation: A Direct Comparison In Vivo. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 449-459.	8.9	55
9	Regional cardiac motion and strain estimation in three-dimensional echocardiography: a validation study in thick-walled univentricular phantoms. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 668-682.	3.0	47
10	Automatic small bowel tumor diagnosis by using multi-scale wavelet-based analysis in wireless capsule endoscopy images. <i>BioMedical Engineering OnLine</i> , 2012, 11, 3.	2.7	40
11	Detailed Evaluation of Five 3D Speckle Tracking Algorithms Using Synthetic Echocardiographic Recordings. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1915-1926.	8.9	40
12	Elastic Image Registration to Quantify 3-D Regional Myocardial Deformation from Volumetric Ultrasound: Experimental Validation in an Animal Model. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 1688-1697.	1.5	30
13	Comparison of a new methodology for the assessment of 3D myocardial strain from volumetric ultrasound with 2D speckle tracking. <i>International Journal of Cardiovascular Imaging</i> , 2012, 28, 1049-1060.	1.5	26
14	Anatomical Image Registration Using Volume Conservation to Assess Cardiac Deformation From 3D Ultrasound Recordings. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 501-511.	8.9	24
15	MITT: Medical Image Tracking Toolbox. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2547-2557.	8.9	24
16	Automatic detection of small bowel tumors in capsule endoscopy based on color curvelet covariance statistical texture descriptors. , 2009, 2009, 6683-6.		22
17	Fast left ventricle tracking using localized anatomical affine optical flow. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2871.	2.1	20
18	Quantification of left ventricular volume and global function using a fast automated segmentation tool: validation in a clinical setting. <i>International Journal of Cardiovascular Imaging</i> , 2013, 29, 309-316.	1.5	19

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19	Left Ventricular Myocardial Segmentation in 3-D Ultrasound Recordings: Effect of Different Endocardial and Epicardial Coupling Strategies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 525-536.	3.0	19
20	Monogenic Phase Based Optical Flow Computation for Myocardial Motion Analysis in 3D Echocardiography. Lecture Notes in Computer Science, 2013, , 159-168.	1.3	18
21	Whole myocardium tracking in 2D-echocardiography in multiple orientations using a motion constrained level-set. Medical Image Analysis, 2014, 18, 500-514.	11.6	17
22	Real-time 3D interactive segmentation of echocardiographic data through user-based deformation of B-spline explicit active surfaces. Computerized Medical Imaging and Graphics, 2014, 38, 57-67.	5.8	17
23	Semi-automatic outlining of levator hiatus. Ultrasound in Obstetrics and Gynecology, 2016, 48, 98-105.	1.7	16
24	Aortic Valve Tract Segmentation From 3D-TEE Using Shape-Based B-Spline Explicit Active Surfaces. IEEE Transactions on Medical Imaging, 2016, 35, 2015-2025.	8.9	16
25	Multi-centre validation of an automatic algorithm for fast 4D myocardial segmentation in cine CMR datasets. European Heart Journal Cardiovascular Imaging, 2016, 17, 1118-1127.	1.2	14
26	Cardiac Chamber Volumetric Assessment Using 3D Ultrasound - A Review. Current Pharmaceutical Design, 2015, 22, 105-121.	1.9	13
27	Fast Tracking of the Left Ventricle Using Global Anatomical Affine Optical Flow and Local Recursive Block Matching. , 2014, , .		13
28	Three-Dimensional Cardiac Motion Estimation Based on Non-rigid Image Registration Using a Novel Transformation Model Adapted to the Heart. Lecture Notes in Computer Science, 2013, , 142-150.	1.3	12
29	Left-Atrial Segmentation From 3-D Ultrasound Using B-Spline Explicit Active Surfaces With Scale Uncoupling. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 212-221.	3.0	12
30	Cardiac Motion and Deformation Estimation from Tagged MRI Sequences Using a Temporal Coherent Image Registration Framework. Lecture Notes in Computer Science, 2013, , 316-324.	1.3	11
31	Standardized Delineation of Endocardial Boundaries in Three-Dimensional Left Ventricular Echocardiograms. Journal of the American Society of Echocardiography, 2017, 30, 1059-1069.	2.8	10
32	Fast Left Ventricle Tracking in 3D Echocardiographic Data Using Anatomical Affine Optical Flow. Lecture Notes in Computer Science, 2013, , 191-199.	1.3	9
33	Segmentation of small bowel tumor tissue in capsule endoscopy images by using the MAP algorithm. , 2012, 2012, 4010-3.		8
34	Small bowel tumors detection in capsule endoscopy by Gaussian modeling of Color Curvelet Covariance coefficients. , 2010, 2010, 5557-60.		7
35	Challenge on Endocardial Three-dimensional Ultrasound Segmentation (CETUS). , 2014, , .		7
36	Three-dimensional cardiac motion and strain estimation: A validation study in thick-walled univentricular phantoms. , 2010, , .		6

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37	Dense motion field estimation from myocardial boundary displacements. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02758.	2.1	6
38	In-vivo validation of a new clinical tool to quantify three-dimensional myocardial strain using ultrasound. International Journal of Cardiovascular Imaging, 2016, 32, 1707-1714.	1.5	6
39	Fast and fully automatic 3D echocardiographic segmentation using B-spline explicit active surfaces. , 2012, , .		5
40	Fast Fully Automatic Segmentation of the Myocardium in 2D Cine MR Images. Lecture Notes in Computer Science, 2013, , 71-79.	1.3	5
41	Influence of the Grid Topology of Free-Form Deformation Models on the Performance of 3D Strain Estimation in Echocardiography. Lecture Notes in Computer Science, 2013, , 308-315.	1.3	5
42	Clinical Expert Delineation of 3D Left Ventricular Echocardiograms for the CETUS Segmentation Challenge. , 2014, , .		5
43	A GPU level-set segmentation framework for 3D Echocardiography. , 2012, , .		4
44	B-spline explicit active tracking of surfaces (BEATS): Application to real-time 3D segmentation and tracking of the left ventricle in 3D echocardiography. , 2012, , .		4
45	Motion and deformation estimation of cardiac ultrasound sequences using an anatomical B-spline transformation model. , 2012, , .		4
46	A comparison between methods for automatic quantification of global left ventricular function. , 2009, , .		3
47	An in-vivo study on the difference between principal and cardiac strains. , 2009, , .		3
48	Coupled B-spline active geometric functions for myocardial segmentation: A localized region-based approach. , 2010, , .		3
49	Multiview myocardial tracking in echocardiographic 2D sequences using shape and motion constrained level-set. , 2013, , .		3
50	Fast left ventricle tracking in CMR images using localized anatomical affine optical flow. , 2015, , .		3
51	3D motion and strain estimation of the heart: initial clinical findings. Proceedings of SPIE, 2010, , .	0.8	2
52	Fast 3D echocardiographic segmentation using B-Spline Explicit Active Surfaces: A validation study in a clinical setting. , 2011, , .		2
53	Tendon strain imaging using non-rigid image registration: a validation study. , 2012, , .		2
54	Hybrid energy approach for real-time b-spline explicit active tracking of surfaces (heartBEATS). , 2013, , .		2

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55	Semi-automatic 3D segmentation of costal cartilage in CT data from Pectus Excavatum patients. , 2015, , .		2
56	Robust temporal alignment of multimodal cardiac sequences. , 2015, , .		2
57	heartBEATS: A hybrid energy approach for real-time B-spline explicit active tracking of surfaces. Computerized Medical Imaging and Graphics, 2017, 62, 26-33.	5.8	2
58	Wireless capsule endoscopic frame classification scheme based on higher order statistics of multi-scale texture descriptors. IFMBE Proceedings, 2009, , 200-203.	0.3	2
59	Multiview myocardial segmentation in echocardiographic images using a piecewise parametric shape prior. , 2011, , .		1
60	Three-dimensional myocardial strain estimation from volumetric ultrasound data using a novel transformation model adapted to the heart. , 2012, , .		1
61	An automated pipeline for regional cardiac strain estimation from volumetric ultrasound data. , 2013, , .		1
62	Improving the robustness of interventional 4D ultrasound segmentation through the use of personalized prior shape models. Proceedings of SPIE, 2015, , .	0.8	1
63	Assessment of regional myocardial function using 3D cardiac strain estimation: comparison against conventional echocardiographic assessment. , 2009, , .		0
64	Real-time region-based segmentation of 3D inhomogeneous objects in medical images. , 2011, , .		0
65	Towards real-time 3D region-based segmentation: B-spline explicit active surfaces. , 2011, , .		0
66	An integrated solution for semi-automatic segmentation of volumetric ultrasound data based on B-spline explicit active surfaces. , 2012, , .		0
67	Towards online real-time strain estimation in volumetric us data: Feasibility study and initial clinical validation. , 2013, , .		0
68	A level-set approach for tracking objects in image sequences using a level conservation constraint: Application to cardiac sequences. , 2014, , .		0
69	Semi-automatic left-atrial segmentation from volumetric ultrasound using B-spline explicit active surfaces. , 2014, , .		0
70	Automatic left ventricular segmentation in 4D interventional ultrasound data using a patient-specific temporal synchronized shape prior. , 2019, , .		0