

Pedro Morais

List of Publications by Year in descending order

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45
papers

621
citations

623188

14
h-index

642321

23
g-index

48
all docs

48
docs citations

48
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast automatic myocardial segmentation in 4D cine CMR datasets. <i>Medical Image Analysis</i> , 2014, 18, 1115-1131.	7.0	126
2	Cardiovascular magnetic resonance myocardial feature tracking using a non-rigid, elastic image registration algorithm: assessment of variability in a real-life clinical setting. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 24.	1.6	71
3	Kidney segmentation in ultrasound, magnetic resonance and computed tomography images: A systematic review. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 157, 49-67.	2.6	67
4	A novel multi-atlas strategy with dense deformation field reconstruction for abdominal and thoracic multi-organ segmentation from computed tomography. <i>Medical Image Analysis</i> , 2018, 45, 108-120.	7.0	30
5	A review of image processing methods for fetal head and brain analysis in ultrasound images. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 215, 106629.	2.6	25
6	Automatic 3D aortic annulus sizing by computed tomography in the planning of transcatheter aortic valve implantation. <i>Journal of Cardiovascular Computed Tomography</i> , 2017, 11, 25-32.	0.7	24
7	MITT: Medical Image Tracking Toolbox. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2547-2557.	5.4	24
8	Development of a patient-specific atrial phantom model for planning and training of interatrial interventions. <i>Medical Physics</i> , 2017, 44, 5638-5649.	1.6	21
9	Fast left ventricle tracking using localized anatomical affine optical flow. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2871.	1.0	20
10	Kinematic boundary conditions substantially impact in silico ventricular function. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3151.	1.0	19
11	Validation of a Novel Software Tool for Automatic Aortic Annular Sizing in Three-Dimensional Transesophageal Echocardiographic Images. <i>Journal of the American Society of Echocardiography</i> , 2018, 31, 515-525.e5.	1.2	17
12	Technical Note: Assessment of electromagnetic tracking systems in a surgical environment using ultrasonography and ureteroscopy instruments for percutaneous renal access. <i>Medical Physics</i> , 2020, 47, 19-26.	1.6	17
13	A competitive strategy for atrial and aortic tract segmentation based on deformable models. <i>Medical Image Analysis</i> , 2017, 42, 102-116.	7.0	16
14	Fully Automatic 3-D-TEE Segmentation for the Planning of Transcatheter Aortic Valve Implantation. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1711-1720.	2.5	16
15	Fast Segmentation of the Left Atrial Appendage in 3-D Transesophageal Echocardiographic Images. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 2332-2342.	1.7	14
16	Clinical outcomes and thrombus resolution in patients with solid left atrial appendage thrombi: results of a single-center real-world registry. <i>Clinical Research in Cardiology</i> , 2021, 110, 72-83.	1.5	12
17	Cardiac Motion and Deformation Estimation from Tagged MRI Sequences Using a Temporal Coherent Image Registration Framework. <i>Lecture Notes in Computer Science</i> , 2013, , 316-324.	1.0	11
18	Assessment of aortic valve tract dynamics using automatic tracking of 3D transesophageal echocardiographic images. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 881-895.	0.7	10

#	ARTICLE	IF	CITATIONS
19	Semiautomatic Estimation of Device Size for Left Atrial Appendage Occlusion in 3-D TEE Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 922-929.	1.7	9
20	Novel Solutions Applied in Transseptal Puncture: A Systematic Review. Journal of Medical Devices, Transactions of the ASME, 2017, 11, .	0.4	8
21	Dense motion field estimation from myocardial boundary displacements. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02758.	1.0	6
22	Fast Fully Automatic Segmentation of the Myocardium in 2D Cine MR Images. Lecture Notes in Computer Science, 2013, , 71-79.	1.0	5
23	Fully automatic left ventricular myocardial strain estimation in 2D short-axis tagged magnetic resonance imaging. Physics in Medicine and Biology, 2017, 62, 6899-6919.	1.6	5
24	Assessment of long-term cardiac adaptation in adult patients with type II atrial septal defect. European Radiology, 2021, 31, 1905-1914.	2.3	5
25	Feasibility and Accuracy of Automated Three-Dimensional Echocardiographic Analysis of Left Atrial Appendage for Transcatheter Closure. Journal of the American Society of Echocardiography, 2021, , .	1.2	5
26	Computer-aided recognition of dental implants in X-ray images. , 2015, , .		4
27	Assessment of LAA Strain and Thrombus Mobility and Its Impact on Thrombus Resolutionâ€”Added-Value of a Novel Echocardiographic Thrombus Tracking Method. Cardiovascular Engineering and Technology, 2022, , 1.	0.7	4
28	Fast left ventricle tracking in CMR images using localized anatomical affine optical flow. , 2015, , .		3
29	Kidney segmentation in 3D CT images using B-Spline Explicit Active Surfaces. , 2016, , .		3
30	Segmentation of kidney and renal collecting system on 3D computed tomography images. , 2018, , .		3
31	Personalized dynamic phantom of the right and left ventricles based on patient-specific anatomy for echocardiography studies â€” Preliminary results. , 2018, , .		3
32	Surfaceâ€”based registration between CT and US for imageâ€”guided percutaneous renal access â€” A feasibility study. Medical Physics, 2019, 46, 1115-1126.	1.6	3
33	Robust temporal alignment of multimodal cardiac sequences. , 2015, , .		2
34	Imaging Ischemic and Reperfusion Injury in Acute Myocardial Infarction. JACC: Cardiovascular Imaging, 2017, 10, 1520-1523.	2.3	2
35	Automated segmentation of the atrial region and fossa ovalis towards computer-aided planning of inter-atrial wall interventions. Computer Methods and Programs in Biomedicine, 2018, 161, 73-84.	2.6	2
36	Synthetic infant head shapes with deformational plagiocephaly: concept and 3D model parameterization. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
37	Study of the compression behavior of functionally graded lattice for customized cranial remodeling orthosis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 130, 105191.	1.5	2
38	Improving the robustness of interventional 4D ultrasound segmentation through the use of personalized prior shape models. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
39	Voxel-based registration of simulated and real patient CBCT data for accurate dental implant pose estimation. , 2015, , .		1
40	A Novel Interventional Guidance Framework for Transseptal Puncture in Left Atrial Interventions. <i>Lecture Notes in Computer Science</i> , 2018, , 93-101.	1.0	1
41	Semi-automatic aortic valve tract segmentation in 3D cardiac magnetic resonance images using shape-based B-spline explicit active surfaces. , 2019, , .		1
42	A Dual-Modal CT/US Kidney Phantom Model for Image-Guided Percutaneous Renal Access. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018, , 378-387.	0.5	1
43	Automatic left ventricular segmentation in 4D interventional ultrasound data using a patient-specific temporal synchronized shape prior. , 2019, , .		0
44	Structural mechanical simulation to optimize the sensor arm geometry to be implemented on cranial remodeling orthosis. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
45	Realistic 3D infant head surfaces augmentation to improve AI-based diagnosis of cranial deformities. <i>Journal of Biomedical Informatics</i> , 2022, 132, 104121.	2.5	0