## João l Vilaça

## List of Publications by Year in descending order

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Version: 2024-02-01

93 papers 1,257 citations

18 h-index 32 g-index

96 all docs

96
docs citations

96 times ranked 1565 citing authors

#	Article	IF	Citations
1	Development of the Business Model and User Experience for a Pill Dispenser: A Designer Perspective. Springer Series in Design and Innovation, 2022, , 552-564.	0.2	4
2	A review of image processing methods for fetal head and brain analysis in ultrasound images. Computer Methods and Programs in Biomedicine, 2022, 215, 106629.	2.6	25
3	Automated segmentation of normal and diseased coronary arteries – The ASOCA challenge. Computerized Medical Imaging and Graphics, 2022, 97, 102049.	3.5	18
4	Fetal head circumference delineation using convolutional neural networks with registration-based ellipse fitting., 2022,,.		1
5	3D segmentation of the left atrial appendage in computed tomography for planning of transcatheter occlusion. , 2022, , .		1
6	Assessment of LAA Strain and Thrombus Mobility and Its Impact on Thrombus Resolution—Added-Value of a Novel Echocardiographic Thrombus Tracking Method. Cardiovascular Engineering and Technology, 2022, , 1.	0.7	4
7	Realistic 3D infant head surfaces augmentation to improve Al-based diagnosis of cranial deformities. Journal of Biomedical Informatics, 2022, 132, 104121.	2.5	O
8	Kidney Segmentation in 3-D Ultrasound Images Using a Fast Phase-Based Approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1521-1531.	1.7	9
9	Anthropometric Landmark Detection in 3D Head Surfaces Using a Deep Learning Approach. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2643-2654.	3.9	6
10	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
11	Technical Note: Assessment of electromagnetic tracking systems in a surgical environment using ultrasonography and ureteroscopy instruments for percutaneous renal access. Medical Physics, 2020, 47, 19-26.	1.6	17
12	Guest Editorial: Special Issue on Serious Games for Health. IEEE Transactions on Games, 2020, 12, 337-340.	1.2	2
13	Assessment of aortic valve tract dynamics using automatic tracking of 3D transesophageal echocardiographic images. International Journal of Cardiovascular Imaging, 2019, 35, 881-895.	0.7	10
14	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
15	Automatic Denavit-Hartenberg Parameter Identification for Serial Manipulators. , 2019, , .		15
16	Synthetic infant head shapes with deformational plagiocephaly: concept and 3D model parameterization. , 2019, , .		2
17	Surfaceâ€based registration between CT and US for imageâ€guided percutaneous renal access – A feasibility study. Medical Physics, 2019, 46, 1115-1126.	1.6	3
18	Semi-automatic aortic valve tract segmentation in 3D cardiac magnetic resonance images using shape-based B-spline explicit active surfaces. , 2019, , .		1

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19	Automatic left ventricular segmentation in 4D interventional ultrasound data using a patient-specific temporal synchronized shape prior., 2019,,.		O
20	Deep learning-based detection of anthropometric landmarks in 3D infants head models. , 2019, , .		7
21	Patient-specific outcome simulation after surgical correction of Pectus Excavatum: a preliminary study., 2019,,.		0
22	Automatic strategy for extraction of anthropometric measurements for the diagnostic and evaluation of deformational plagiocephaly from infant $\hat{a} \in \mathbb{N}$ s head models., 2019,,.		4
23	Three-dimensional color Doppler ultrasound simulation to mimic paravalvular regurgitation. , 2019, , .		0
24	Validation of a Novel Software Tool for Automatic Aortic Annular Sizing in Three-Dimensional Transesophageal Echocardiographic Images. Journal of the American Society of Echocardiography, 2018, 31, 515-525.e5.	1.2	17
25	A novel multi-atlas strategy with dense deformation field reconstruction for abdominal and thoracic multi-organ segmentation from computed tomography. Medical Image Analysis, 2018, 45, 108-120.	7.0	30
26	Kidney segmentation in ultrasound, magnetic resonance and computed tomography images: A systematic review. Computer Methods and Programs in Biomedicine, 2018, 157, 49-67.	2.6	67
27	Fast Segmentation of the Left Atrial Appendage in 3-D Transesophageal Echocardiographic Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2332-2342.	1.7	14
28	A Novel Interventional Guidance Framework for Transseptal Puncture in Left Atrial Interventions. Lecture Notes in Computer Science, 2018, , 93-101.	1.0	1
29	MITT: Medical Image Tracking Toolbox. IEEE Transactions on Medical Imaging, 2018, 37, 2547-2557.	5.4	24
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 $\hat{a}\in$ " Preliminary results. , 2018, , .		3
32	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
33	A Dual-Modal CT/US Kidney Phantom Model for Image-Guided Percutaneous Renal Access. Lecture Notes in Computational Vision and Biomechanics, 2018, , 378-387.	0.5	1
34	Automatic 3D aortic annulus sizing by computed tomography in the planning of transcatheter aortic valve implantation. Journal of Cardiovascular Computed Tomography, 2017, 11, 25-32.	0.7	24
35	A new methodology for assessment of pectus excavatum correction after bar removal in Nuss procedure: Preliminary study. Journal of Pediatric Surgery, 2017, 52, 1089-1097.	0.8	14
36	Novel Solutions Applied in Transseptal Puncture: A Systematic Review. Journal of Medical Devices, Transactions of the ASME, 2017, $11$ , .	0.4	8

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37	Fast left ventricle tracking using localized anatomical affine optical flow. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2871.	1.0	20
38	Classification algorithms for body posture. , 2017, , .		2
39	Ureteroscopy-assisted Percutaneous Kidney Access Made Easy: First Clinical Experience with a Novel Navigation System Using Electromagnetic Guidance (IDEAL Stage 1). European Urology, 2017, 72, 610-616.	0.9	52
40	Comparative Study of 2D and 3D Optical Imaging Systems: Laparoendoscopic Single-Site Surgery in an Ex Vivo Model. Surgical Innovation, 2017, 24, 598-604.	0.4	4
41	Development of a patientâ€specific atrial phantom model for planning and training of interâ€atrial interventions. Medical Physics, 2017, 44, 5638-5649.	1.6	21
42	A competitive strategy for atrial and aortic tract segmentation based on deformable models. Medical Image Analysis, 2017, 42, 102-116.	7.0	16
43	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
44	Instrumented vest for postural reeducation. , 2017, , .		5
45	Fully Automatic 3-D-TEE Segmentation for the Planning of Transcatheter Aortic Valve Implantation. IEEE Transactions on Biomedical Engineering, 2017, 64, 1711-1720.	2.5	16
46	Dense motion field estimation from myocardial boundary displacements. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02758.	1.0	6
47	Aortic Valve Tract Segmentation From 3D-TEE Using Shape-Based B-Spline Explicit Active Surfaces. IEEE Transactions on Medical Imaging, 2016, 35, 2015-2025.	5.4	16
48	Kidney segmentation in 3D CT images using B-Spline Explicit Active Surfaces. , 2016, , .		3
49	Assessment of Laparoscopic Skills Performance. Surgical Innovation, 2016, 23, 52-61.	0.4	16
50	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.	0.5	14
51	Improving the robustness of interventional 4D ultrasound segmentation through the use of personalized prior shape models. Proceedings of SPIE, 2015, , .	0.8	1
52	Fast left ventricle tracking in CMR images using localized anatomical affine optical flow., 2015,,.		3
53	Finite element analysis ofpectus carinatumsurgical correction via a minimally invasive approach. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 711-720.	0.9	10
54	Semi-automatic 3D segmentation of costal cartilage in CT data from Pectus Excavatum patients. , 2015, , .		2

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55	Voxel-based registration of simulated and real patient CBCT data for accurate dental implant pose estimation. , $2015$ , , .		1
56	Computer-aided recognition of dental implants in X-ray images. , 2015, , .		4
57	Accuracy Comparison of Implant Impression Techniques: A Systematic Review. Clinical Implant Dentistry and Related Research, 2015, 17, e751-64.	1.6	68
58	A-scan ultrasound system for real-time puncture safety assessment during percutaneous nephrolithotomy. Proceedings of SPIE, $2015$ , , .	0.8	0
59	Validation of percutaneous puncture trajectory during renal access using 4D ultrasound reconstruction., 2015,,.		0
60	Robust temporal alignment of multimodal cardiac sequences. , 2015, , .		2
61	Targeting lactate transport suppresses <i>in vivo</i> breast tumour growth. Oncotarget, 2015, 6, 19177-19189.	0.8	92
62	Automatic Prebent Customized Prosthesis for Pectus Excavatum Minimally Invasive Surgery Correction. Surgical Innovation, 2014, 21, 290-296.	0.4	13
63	Hand-held robotic device for laparoscopic surgery and training. , 2014, , .		1
64	Real-time hand tracking for rehabilitation and character animation. , 2014, , .		22
65	Artificial neural networks for automatic modelling of the pectus excavatum corrective prosthesis. , 2014, , .		1
66	Preliminary clinical trial in percutaneous nephrolithotomy using a real-time navigation system for percutaneous kidney access. Proceedings of SPIE, 2014, , .	0.8	0
67	Electromagnetic tracker feasibility in the design of a dental superstructure for edentulous patients. , 2014, , .		1
68	Automated Image Analysis of Lung Branching Morphogenesis from Microscopic Images of Fetal Rat Explants. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-9.	0.7	1
69	Fast automatic myocardial segmentation in 4D cine CMR datasets. Medical Image Analysis, 2014, 18, 1115-1131.	7.0	126
70	Automatic modeling of pectus excavatum corrective prosthesis using artificial neural networks. Medical Engineering and Physics, 2014, 36, 1338-1345.	0.8	8
71	Analysis of autoclave induced dimensional changes on addition silicones. , 2014, , 135-140.		0
72	Kidney Targeting and Puncturing During Percutaneous Nephrolithotomy: Recent Advances and Future Perspectives. Journal of Endourology, 2013, 27, 826-834.	1.1	45

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73	Palco: A multisensor realtime 3D cartoon production system. , 2013, , .		2
74	Collecting System Percutaneous Access Using Real-Time Tracking Sensors: First Pig Model InÂVivo Experience. Journal of Urology, 2013, 190, 1932-1937.	0.2	51
75	Variations of the soft tissue thicknesses external to the ribs in Pectus Excavatum patients. Journal of Pediatric Surgery, 2013, 48, 1878-1886.	0.8	6
76	Pectus excavatum postsurgical outcome based on preoperative soft body dynamics simulation. , 2012, , .		5
77	Thoracic wall reconstruction using ultrasound images to model/bend the thoracic prosthesis for correction of pectus excavatum. Proceedings of SPIE, 2012, , .	0.8	0
78	Automatic segmentation and 3D feature extraction of protein aggregates in <i>Caenorhabditis elegans</i> . Proceedings of SPIE, 2012, , .	0.8	1
79	An image processing application for liver tumour segmentation. , 2011, , .		8
80	A laparoscopic surgery training interface. , 2011, , .		9
81	An Image Processing Application for Quantification of Protein Aggregates in Caenorhabditis Elegans. Advances in Intelligent and Soft Computing, 2011, , 31-38.	0.2	2
82	Neuron-specific proteotoxicity of mutant ataxin-3 in C. elegans: rescue by the DAF-16 and HSF-1 pathways. Human Molecular Genetics, 2011, 20, 2996-3009.	1.4	101
83	Virtual simulation of the postsurgical cosmetic outcome in patients with Pectus Excavatum. , 2011, , .		3
84	A Mobile Health Care Rule-Based System. Communications in Computer and Information Science, 2011, , 371-383.	0.4	1
85	Non-contact 3D acquisition system based on stereo vision and laser triangulation. Machine Vision and Applications, 2010, 21, 341-350.	1.7	25
86	3D surface profile equipment for the characterization of the pavement texture – TexScan. Mechatronics, 2010, 20, 674-685.	2.0	44
87	A Digital Game Development Education Project. , 2010, , .		1
88	Identifying Clones in Functional Programs for Refactoring. Communications in Computer and Information Science, 2010, , 309-317.	0.4	0
89	Automatic trajectory generation for the milling of sculpted surfaces acquired from laser scanning systems. , 2009, , .		0
90	Calibration procedure for 3D measurement systems using two cameras and a laser line. Optics and Laser Technology, 2009, 41, 112-119.	2.2	40

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91	A new machine for acquire pavement texture. , 2009, , .		4
92	A New Software Application for Footwear Industry. , 2007, , .		3
93	Stereo Vision Calibration Procedure for 3D Surface measurements. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2