Isabel Narra Figueiredo

List of Publications by Year
in descending order

62	870	687220 13	526166 27
papers	citations	h-index	g-index

66	66	66	846
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Automated bleeding detection in wireless capsule endoscopy images based on sparse coding. Multimedia Tools and Applications, 2021, 80, 30353-30366.	2.6	12
2	Registration of Consecutive Frames From Wireless Capsule Endoscopy for 3D Motion Estimation. IEEE Access, 2021, 9, 119533-119545.	2.6	4
3	Fast colonic polyp detection using a Hamiltonâ€“Jacobi approach to non-dominated sorting. Biomedical Signal Processing and Control, 2020, 61, 102035.	3.5	4
4	Unsupervised segmentation of colonic polyps in narrow-band imaging data based on manifold representation of images and Wasserstein distance. Biomedical Signal Processing and Control, 2019, 53, 101577.	3.5	7
5	Biomathematical model for simulating abnormal orifice patterns in colonic crypts. Mathematical Biosciences, 2019, 315, 108221.	0.9	9
6	Polyp detection with computer-aided diagnosis in white light colonoscopy: comparison of three different methods. Endoscopy International Open, 2019, 07, E209-E215.	0.9	34
7	Hybrid multiscale affine and elastic image registration approach towards wireless capsule endoscope localization. Biomedical Signal Processing and Control, 2018, 39, 486-502.	3.5	18
8	Spatially adaptive total variation deblurring with split Bregman technique. IET Image Processing, 2018, 12, 948-958.	1.4	12
9	A Variational Model for Image Artifact Correction Based on Wasserstein Distance. Lecture Notes in Computational Vision and Biomechanics, 2018, , 43-51.	0.5	0
10	Hybrid multi-GPU computing: accelerated kernels for segmentation and object detection with medical image processing applications. Journal of Real-Time Image Processing, 2017, 13, 227-244.	2.2	12
11	Optical flow with fractional order regularization: Variational model and solution method. Applied Numerical Mathematics, 2017, 114, 188-200.	1.2	12
12	Dissimilarity Measure of Consecutive Frames in Wireless Capsule Endoscopy Videos: A Way of Searching for Abnormalities. , 2017, , .		1
13	Homogenization Model for Aberrant Crypt Foci. SIAM Journal on Applied Mathematics, 2016, 76, 1152-1177.	0.8	4
14	Bag of Visual Words Approach for Bleeding Detection in Wireless Capsule Endoscopy Images. Lecture Notes in Computer Science, 2016, , 575-582.	1.0	5
15	Automated retina identification based on multiscale elastic registration. Computers in Biology and Medicine, 2016, 79, 130-143.	3.9	11
16	Smartphone application for emergency signal detection. Medical Engineering and Physics, 2016, 38, 1021-1027.	0.8	4
17	Exploring smartphone sensors for fall detection. MUX: the Journal of Mobile User Experience, 2016, 5, .	3.0	32
18	A Modified Lyzengaâ€™s Model for Multispectral Bathymetry Using Tikhonov Regularization. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 53-57.	1.4	30

#	Article	IF	Citations
19	Automated lesion detectors in retinal fundus images. Computers in Biology and Medicine, 2015, 66, 47-65.	3.9	57
20	A GPU Accelerated Algorithm for Blood Detection inWireless Capsule Endoscopy Images. Lecture Notes in Computational Vision and Biomechanics, 2015, , 55-71.	0.5	3
21	Detecting changes on coastal primary sand dunes using multi-temporal Landsat imagery. Proceedings of SPIE, 2014, , .	0.8	2
22	Automated Polyp Detection in Colon Capsule Endoscopy. IEEE Transactions on Medical Imaging, 2014, 33, 1488-1502.	5.4	177
23	Wavelet-Based Computer-Aided Detection of Bright Lesions in Retinal Fundus Images. Lecture Notes in Computer Science, 2014, , 234-240.	1.0	4
24	Pattern Classes in Retinal Fundus Images Based on Function Norms. Lecture Notes in Computer Science, 2014, , 95-105.	1.0	2
25	Automatic Optic Disc Detection in Retinal Fundus Images Based on Geometric Features. Lecture Notes in Computer Science, 2014, , 285-292.	1.0	1
26	Physiologic Parameter Estimation Using Inverse Problems. SIAM Journal on Applied Mathematics, 2013, 73, 1164-1182.	0.8	7
27	Fast aberrant crypt foci segmentation on the GPU. , 2013, , .		2
28	A Multiscale Model for Aberrant Crypt Foci. Procedia Computer Science, 2013, 18, 1026-1035.	1.2	2
29	Computer-assisted bleeding detection in wireless capsule endoscopy images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2013, 1, 198-210.	1.3	30
30	Mucosal region detection and 3D reconstruction in wireless capsule endoscopy videos using active contours. , 2012, 2012, 4014-7.		12
31	A Segmentation Model and Application to Endoscopic Images. Lecture Notes in Computer Science, 2012, , 164-171.	1.0	8
32	FPGA implementation of OpenCV compatible background identification circuit. , 2012, , 97-102.		2
33	Image-Driven Parameter Estimation in Absorption-Diffusion Models of Chromoscopy. SIAM Journal on Imaging Sciences, 2011, 4, 884-904.	1.3	3
34	A convection-diffusion-shape model for aberrant colonic crypt morphogenesis. Computing and Visualization in Science, 2011, 14, 157-166.	1.2	9
35	Automatic Polyp Detection in Pillcam Colon 2 Capsule Images and Videos: Preliminary Feasibility Report. Diagnostic and Therapeutic Endoscopy, 2011, 2011, 1-7.	1.5	34
36	Variational Image Segmentation for Endoscopic Human Colonic Aberrant Crypt Foci. IEEE Transactions on Medical Imaging, 2010, 29, 998-1011.	5.4	16

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37	A coupled convection-diffusion level set model for tracking epithelial cells in colonic crypts. Procedia Computer Science, 2010, 1, 961-969.	1.2	5
38	Frictional contact of an anisotropic piezoelectric plate. ESAIM - Control, Optimisation and Calculus of Variations, 2009, 15, 149-172.	0.7	7
39	Plate-Like Smart Structures: Reduced Models andÂNumerical Simulations. Journal of Elasticity, 2009, 97, 47-75.	0.9	1
40	A convergence result in the study of bone remodeling contact problems. Journal of Mathematical Analysis and Applications, 2008, 343, 951-964.	0.5	3
41	Modeling and numerical study of actuator and sensor effects for a laminated piezoelectric plate. Computers and Structures, 2007, 85, 385-403.	2.4	12
42	Actuator Effect of a Piezoelectric Anisotropic Plate Model. Mechanics of Advanced Materials and Structures, 2006, 13, 403-417.	1.5	3
43	A Generalized Piezoelectric Bernoulliâ€“Navier Anisotropic Rod Model. Journal of Elasticity, 2006, 85, 85-106.	0.9	13
44	Sensor and Actuator Capabilities of a Laminated Piezoelectric Plate Model. , 2006, , 263-263.		0
45	Approximation of bone remodeling models. Journal Des Mathematiques Pures Et Appliquees, 2005, 84, 1794-1812.	0.8	6
46	A Class of Mathematical Programs with Equilibrium Constraints: A Smooth Algorithm and Applications to Contact Problems. Optimization and Engineering, 2005, 6, 203-239.	1.3	1
47	Conical differentiability for bone remodeling contact rod models. ESAIM - Control, Optimisation and Calculus of Variations, 2005, 11, 382-400.	0.7	4
48	Shape Analysis of an Adaptive Elastic Rod Model. SIAM Journal on Applied Mathematics, 2005, 66, 153-173.	0.8	6
49	Asymptotic Model of a Nonlinear Adaptive Elastic Rod. Mathematics and Mechanics of Solids, 2004, 9, 331-354.	1.5	10
50	Multiple- and single-objective approaches to laminate optimization with genetic algorithms. Structural and Multidisciplinary Optimization, 2004, 27, 55-65.	1.7	23
51	The directional instability problem in systems with frictional contacts. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 357-384.	3.4	70
52	Sensitivity Analysis of a Nonlinear Obstacle Plate Problem. ESAIM - Control, Optimisation and Calculus of Variations, 2002, 7, 135-155.	0.7	1
53	Solution Methods for Structural Optimization in Contact Rod Problems. Solid Mechanics and Its Applications, 2002, , 325-332.	0.1	1
54	On The Attainable Eigenvalues of the Laplace Operator. SIAM Journal on Mathematical Analysis, 1999, 30, 527-536.	0.9	32

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55	Ellipticity of koiter's and naghdi's models for nonhomogeneous anisotropic shells. Applicable Analysis, 1998, 70, 75-84.	0.6	2
56	Exact controllability and asymptotic limit for thin plates. Asymptotic Analysis, 1996, 12, 213-252.	0.2	8
57	A class of contact and friction dynamic problems in thermoelasticity and in thermoviscoelasticity. International Journal of Engineering Science, 1995, 33, 45-66.	2.7	37
58	A galerkin approximation for curved beams. Computer Methods in Applied Mechanics and Engineering, 1993, 102, 235-253.	3.4	6
59	A Galerkin approximation for linear elastic shallow shells. Computational Mechanics, 1992, 10, 107-119.	2.2	10
60	A justification of the Donnellâ€“Mushtariâ€“Vlasov model by the asymptotic expansion method. Asymptotic Analysis, 1991, 4, 257-269.	0.2	3
61	Local existence and regularity of the solution of the nonlinear thin shell model of donnell-mushtari-vlasov. Applicable Analysis, 1990, 36, 221-234.	0.6	7
62	AUTOMATIC EXTRACTION OF TIDE-COORDINATED SHORELINE USING OPEN SOURCE SOFTWARE AND LANDSAT IMAGERY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 953-957.	0.2	4