

Norberto Malpica

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,606
citations

394421

19
h-index

243625

44
g-index

72
all docs

72
docs citations

72
times ranked

4534
citing authors

#	ARTICLE	IF	CITATIONS
1	Variability in the analysis of a single neuroimaging dataset by many teams. <i>Nature</i> , 2020, 582, 84-88.	27.8	634
2	Applying watershed algorithms to the segmentation of clustered nuclei. , 1998, 28, 289-297.		370
3	Evaluation of autofocus functions in molecular cytogenetic analysis. <i>Journal of Microscopy</i> , 1997, 188, 264-272.	1.8	329
4	Objective Evaluation of Multiple Sclerosis Lesion Segmentation using a Data Management and Processing Infrastructure. <i>Scientific Reports</i> , 2018, 8, 13650.	3.3	171
5	Single-image super-resolution of brain MR images using overcomplete dictionaries. <i>Medical Image Analysis</i> , 2013, 17, 113-132.	11.6	140
6	Dixon-VIBE Deep Learning (DIVIDE) Pseudo-CT Synthesis for Pelvis PET/MR Attenuation Correction. <i>Journal of Nuclear Medicine</i> , 2019, 60, 429-435.	5.0	103
7	Fast Patch-Based Pseudo-CT Synthesis from T1-Weighted MR Images for PET/MR Attenuation Correction in Brain Studies. <i>Journal of Nuclear Medicine</i> , 2016, 57, 136-143.	5.0	72
8	DeepEye: Deep convolutional network for pupil detection in real environments. <i>Integrated Computer-Aided Engineering</i> , 2018, 26, 85-95.	4.6	72
9	In Vivo Quantification of Placental Insufficiency by BOLD MRI: A Human Study. <i>Scientific Reports</i> , 2017, 7, 3713.	3.3	66
10	Parallel transmit pulse design for patients with deep brain stimulation implants. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1896-1903.	3.0	56
11	Graph theory analysis of resting-state functional magnetic resonance imaging in essential tremor. <i>Human Brain Mapping</i> , 2019, 40, 4686-4702.	3.6	41
12	A multichannel watershed-based algorithm for supervised texture segmentation. <i>Pattern Recognition Letters</i> , 2003, 24, 1545-1554.	4.2	38
13	Tracking of regions-of-interest in myocardial contrast echocardiography. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 303-309.	1.5	31
14	SAR reduction in 7T spine imaging using a "dark modes" transmit array strategy. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1533-1539.	3.0	26
15	Seismic Phase Picking Using Convolutional Networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 7086-7092.	6.3	26
16	Intramyocardial analysis of regional systolic and diastolic function in ischemic heart disease with Doppler tissue imaging: Role of the different myocardial layers. <i>Journal of the American Society of Echocardiography</i> , 2002, 15, 99-108.	2.8	25
17	Spatiotemporal alignment of in utero BOLD-MRI series. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 403-412.	3.4	25
18	A broadband multimedia collaborative system for advanced teleradiology and medical imaging diagnosis. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 1998, 2, 146-155.	3.2	23

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19	Web-PACS for Multicenter Clinical Trials. IEEE Transactions on Information Technology in Biomedicine, 2007, 11, 87-93.	3.2	23
20	Semantic segmentation of mFISH images using convolutional networks. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 620-627.	1.5	22
21	Parametric CAD modeling for open source scientific hardware: Comparing OpenSCAD and FreeCAD Python scripts. PLoS ONE, 2019, 14, e0225795.	2.5	22
22	Multi-atlas and label fusion approach for patient-specific MRI based skull estimation. Magnetic Resonance in Medicine, 2016, 75, 1797-1807.	3.0	21
23	Assessment of normal and ischaemic myocardium by quantitative m-mode tissue doppler imaging. Ultrasound in Medicine and Biology, 2002, 28, 561-569.	1.5	18
24	Air Quality Forecasting in Madrid Using Long Short-Term Memory Networks. Lecture Notes in Computer Science, 2017, , 232-239.	1.3	18
25	New Techniques for the Assessment of Regional Left Ventricular Wall Motion. Echocardiography, 2003, 20, 659-672.	0.9	16
26	Objective Assessment of Olfactory Function Using Functional Magnetic Resonance Imaging (fMRI). IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2602-2608.	4.7	16
27	Magnetic resonance imaging in the evaluation of inflammatory lesions in muscular and soft tissues: an experimental infection model induced by Candida albicans. Magnetic Resonance Imaging, 1999, 17, 1327-1334.	1.8	15
28	Segmentation, autofocusing and signature extraction of tuberculosis sputum images. , 2002, 4788, 171.		14
29	Project based learning experience in VHDL digital electronic circuit design. , 2009, , .		14
30	Automatic quantification of viability in epithelial cell cultures by texture analysis. Journal of Microscopy, 2003, 209, 34-40.	1.8	13
31	In vivo neurometabolic profiling in orthostatic tremor. Medicine (United States), 2016, 95, e4848.	1.0	12
32	<title>Statistical segmentation of multidimensional brain datasets</title>. , 2001, , .		11
33	Age-related intramyocardial patterns in healthy subjects evaluated with Doppler tissue imaging. European Journal of Echocardiography, 2005, 6, 175-185.	2.3	10
34	Hardware Architectures for Real-Time Medical Imaging. Electronics (Switzerland), 2021, 10, 3118.	3.1	10
35	<title>Automatic detection of cellular necrosis in epithelial cell cultures</title>. , 2001, , .		9
36	Optimisation and evaluation of an asynchronous transfer mode teleradiology co-operative system: the experience of the EMERALD and the BONAPARTE projects. Computer Methods and Programs in Biomedicine, 2001, 64, 201-214.	4.7	9

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37	Automatic Segmentation of the Liver in CT Using Level Sets Without Edges. Lecture Notes in Computer Science, 2007, , 161-168.	1.3	9
38	Box Relaxation Schemes in Staggered Discretizations for the Dual Formulation of Total Variation Minimization. IEEE Transactions on Image Processing, 2013, 22, 2030-2043.	9.8	7
39	Real-time patch-based medical image modality propagation by GPU computing. Journal of Real-Time Image Processing, 2017, 13, 193-204.	3.5	7
40	Franken-CT: Head and Neck MR-Based Pseudo-CT Synthesis Using Diverse Anatomical Overlapping MR-CT Scans. Applied Sciences (Switzerland), 2021, 11, 3508.	2.5	7
41	International collaborative projects on digital electronic systems using open source tools. Computer Applications in Engineering Education, 2020, 28, 792-802.	3.4	5
42	Evaluation of Deep Learning-Based Approaches to Segment Bowel Air Pockets and Generate Pelvic Attenuation Maps from CAIPIRINHA-Accelerated Dixon MR Images. Journal of Nuclear Medicine, 2022, 63, 468-475.	5.0	5
43	Deconvolutional Neural Network for Pupil Detection in Real-World Environments. Lecture Notes in Computer Science, 2017, , 223-231.	1.3	5
44	The BONAPARTE telemedicine ATM multimedia applications. Lecture Notes in Computer Science, 1997, , 693-708.	1.3	4
45	<title>Myocardial perfusion assessment with contrast echocardiography</title>. , 2001, , ,		4
46	Automated quantification of epicardial adipose tissue in cardiac magnetic resonance imaging. , 2015, 2015, 7308-11.		4
47	<title>Accuracy of heart strain rate calculation derived from Doppler tissue velocity data</title>. , 2001, 4325, 546.		3
48	Semi automatic estimation and visualization of left ventricle volumes in cardiac MRI. , 2005, , ,		3
49	Computer-Vision Techniques for Water-Fat Separation in Ultra High-Field MRI Local Specific Absorption Rate Estimation. IEEE Transactions on Biomedical Engineering, 2019, 66, 768-774.	4.2	3
50	Recognition and Quantification of Area Damaged by Oligonychus Perseae in Avocado Leaves. Lecture Notes in Computer Science, 2009, , 677-684.	1.3	3
51	A Fast Anisotropic Mumford-Shah Functional Based Segmentation. Lecture Notes in Computer Science, 2009, , 322-329.	1.3	3
52	Analytical Geometric Model for Photon Coincidence Detection in 3D PET. , 2006, , ,		2
53	Automatic quantification of histological studies in allergic asthma. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 271-277.	1.5	2
54	Gaussian Processes for Slice-Based Super-Resolution MR Images. Lecture Notes in Computer Science, 2015, , 692-701.	1.3	2

#	ARTICLE	IF	CITATIONS
55	<title>EMERALD ATM telemedicine application</title> . , 1998, , .		1
56	Quantitative intramyocardial M-mode DTI analysis. , 0, , .		1
57	Quantification of blood flow in great vessels from cardiac magnetic resonance imaging. Proc Int Symp Image Signal Process Anal, 2005, , .	0.0	1
58	Multiphase Systems for Medical Image Region Classification. , 2009, , .		1
59	Discovering Regional Pathological Patterns in Brain MRI. , 2013, , .		1
60	The Effect of the Normalization Strategy on Voxel-Based Analysis of DTI Images: A Pattern Recognition Based Assessment. Lecture Notes in Computer Science, 2010, , 78-88.	1.3	1
61	Fast pseudo-CT synthesis from MRI T1-weighted images using a patch-based approach. , 2015, , .		0
62	The Effect of Mouth Motion on the Attenuation Correction in Neurological PET Studies. Lecture Notes in Computational Vision and Biomechanics, 2015, , 63-69.	0.5	0
63	H-EM: An algorithm for simultaneous cell diameter and intensity quantification in low-resolution imaging cytometry. PLoS ONE, 2019, 14, e0222265.	2.5	0
64	Predicting Very Early Stage Mild Cognitive Impairment Based on a Voxel-wise Arterial Spin Labeling Analysis. Lecture Notes in Computer Science, 2014, , 714-721.	1.3	0
65	A Non-Local Diffusion Saliency Model for Magnetic Resonance Imaging. , 2017, , .		0
66	Sobre la innovaci3n y el impacto de la investigaci3n. Orinoquia, 2020, 24, 7-12.	0.1	0
67	Title is missing!. , 2019, 14, e0225795.		0
68	Title is missing!. , 2019, 14, e0225795.		0
69	Title is missing!. , 2019, 14, e0225795.		0
70	Title is missing!. , 2019, 14, e0225795.		0