

Juan Felipe Perez-Juste Abascal

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

735
citations

567281

15
h-index

526287

27
g-index

41
all docs

41
docs citations

41
times ranked

917
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of anisotropic modelling in electrical impedance tomography; Description of method and preliminary assessment of utility in imaging brain function in the adult human head. <i>NeuroImage</i> , 2008, 43, 258-268.	4.2	105
2	Factors limiting the application of electrical impedance tomography for identification of regional conductivity changes using scalp electrodes during epileptic seizures in humans. <i>Physiological Measurement</i> , 2006, 27, S163-S174.	2.1	67
3	Regularization of nonlinear decomposition of spectral x-ray projection images. <i>Medical Physics</i> , 2017, 44, e174-e187.	3.0	65
4	Fluorescence diffuse optical tomography using the split Bregman method. <i>Medical Physics</i> , 2011, 38, 6275-6284.	3.0	57
5	Total Variation Regularization With Split Bregman-Based Method in Magnetic Induction Tomography Using Experimental Data. <i>IEEE Sensors Journal</i> , 2017, 17, 976-985.	4.7	52
6	Split operator method for fluorescence diffuse optical tomography using anisotropic diffusion regularisation with prior anatomical information. <i>Biomedical Optics Express</i> , 2011, 2, 2632.	2.9	38
7	Application of the compressed sensing technique to self-gated cardiac cine sequences in small animals. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 369-380.	3.0	28
8	Intraventricular vector flow mapping—a Doppler-based regularized problem with automatic model selection. <i>Physics in Medicine and Biology</i> , 2017, 62, 7131-7147.	3.0	28
9	Use of Split Bregman denoising for iterative reconstruction in fluorescence diffuse optical tomography. <i>Journal of Biomedical Optics</i> , 2013, 18, 076016.	2.6	27
10	Comparison of methods for optimal choice of the regularization parameter for linear electrical impedance tomography of brain function. <i>Physiological Measurement</i> , 2008, 29, 1319-1334.	2.1	25
11	Electrical Resistance Tomography for Visualization of Moving Objects Using a Spatiotemporal Total Variation Regularization Algorithm. <i>Sensors</i> , 2018, 18, 1704.	3.8	23
12	Extended Joint Sparsity Reconstruction for Spatial and Temporal ERT Imaging. <i>Sensors</i> , 2018, 18, 4014.	3.8	19
13	Validation of a finite-element solution for electrical impedance tomography in an anisotropic medium. <i>Physiological Measurement</i> , 2007, 28, S129-S140.	2.1	18
14	Material Decomposition in Spectral CT Using Deep Learning: A Sim2Real Transfer Approach. <i>IEEE Access</i> , 2021, 9, 25632-25647.	4.2	18
15	Automatic Parameter Selection of Image Reconstruction Algorithms for Planar Array Capacitive Imaging. <i>IEEE Sensors Journal</i> , 2018, 18, 6263-6272.	4.7	17
16	Comparison of Total Variation with a Motion Estimation Based Compressed Sensing Approach for Self-Gated Cardiac Cine MRI in Small Animal Studies. <i>PLoS ONE</i> , 2014, 9, e110594.	2.5	16
17	Exploitation of temporal redundancy in compressed sensing reconstruction of fMRI studies with a prior-based algorithm (PICCS). <i>Medical Physics</i> , 2015, 42, 3814-3821.	3.0	15
18	Influence of absorption and scattering on the quantification of fluorescence diffuse optical tomography using normalized data. <i>Journal of Biomedical Optics</i> , 2012, 17, 036013.	2.6	14

#	ARTICLE	IF	CITATIONS
19	Imaging metallic samples using electrical capacitance tomography: forward modelling and reconstruction algorithms. Measurement Science and Technology, 2016, 27, 115402.	2.6	13
20	Incorporation of Prior Knowledge of Signal Behavior Into the Reconstruction to Accelerate the Acquisition of Diffusion MRI Data. IEEE Transactions on Medical Imaging, 2018, 37, 547-556.	8.9	13
21	Electrical impedance tomography in anisotropic media with known eigenvectors. Inverse Problems, 2011, 27, 065004.	2.0	12
22	Nonlinear material decomposition using a regularized iterative scheme based on the Bregman distance. Inverse Problems, 2018, 34, 124003.	2.0	12
23	A Novel Prior- and Motion-Based Compressed Sensing Method for Small-Animal Respiratory Gated CT. PLoS ONE, 2016, 11, e0149841.	2.5	10
24	3-D Eddy-Current Imaging of Metal Tubes by Gradient-Based, Controlled Evolution of Level Sets. IEEE Transactions on Magnetics, 2008, 44, 4721-4729.	2.1	9
25	A residual U-Net network with image prior for 3D image denoising. , 2021, , .		9
26	Investigation of Different Sparsity Transforms for the PICCS Algorithm in Small-Animal Respiratory Gated CT. PLoS ONE, 2015, 10, e0120140.	2.5	8
27	High-resolution dynamic cardiac MRI on small animals using reconstruction based on Split Bregman methodology. , 2011, , .		3
28	Investigation of different Compressed Sensing approaches for respiratory gating in small animal CT. , 2012, , .		3
29	A sparse and prior based method for 3D image denoising. , 2019, , .		2
30	A Prior-Based Image Variation (PRIVA) Approach Applied to Motion-Based Compressed Sensing Cardiac Cine MRI. IFMBE Proceedings, 2014, , 233-236.	0.3	2
31	Determination of Optimal Parameters and Feasibility for Imaging of Epileptic Seizures by Electrical Impedance Tomography: A Modelling Study Using a Realistic Finite Element Model of the Head. , 2011, , .		1
32	Evaluation of the possibilities of limited angle reconstruction for the use of digital Radiography system as a tomograph. , 2014, , .		1
33	Compressed Sensing for Cardiac MRI Cine Sequences: A Real Implementation on a Small-Animal Scanner. IFMBE Proceedings, 2014, , 214-217.	0.3	1
34	Validation of a finite element solution for electrical impedance tomography in an anisotropic medium. , 2007, , 372-375.		1
35	Novel 4D image reconstruction for dynamic X-ray computed tomography in slow rotating scanners. , 2014, , .		0
36	Dynamic PET reconstruction using the split bregman formulation. , 2016, , .		0

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37	Sparse reconstruction methods in x-ray CT. , 2017, , .		0