Juan Felipe Perez-Juste Abascal

List of Publications by Year
in descending order

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	A residual U-Net network with image prior for 3D image denoising. , 2021, , .		9
2	Material Decomposition in Spectral CT Using Deep Learning: A Sim2Real Transfer Approach. IEEE Access, 2021, 9, 25632-25647.	4.2	18
3	A sparse and prior based method for 3D image denoising. , 2019, , .		2
4	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
5	Extended Joint Sparsity Reconstruction for Spatial and Temporal ERT Imaging. Sensors, 2018, 18, 4014.	3.8	19
6	Nonlinear material decomposition using a regularized iterative scheme based on the Bregman distance. Inverse Problems, 2018, 34, 124003.	2.0	12
7	Automatic Parameter Selection of Image Reconstruction Algorithms for Planar Array Capacitive Imaging. IEEE Sensors Journal, 2018, 18, 6263-6272.	4.7	17
8	Electrical Resistance Tomography for Visualization of Moving Objects Using a Spatiotemporal Total Variation Regularization Algorithm. Sensors, 2018, 18, 1704.	3.8	23
9	Total Variation Regularization With Split Bregman-Based Method in Magnetic Induction Tomography Using Experimental Data. IEEE Sensors Journal, 2017, 17, 976-985.	4.7	52
10	Intraventricular vector flow mappingâ€"a Doppler-based regularized problem with automatic model selection. Physics in Medicine and Biology, 2017, 62, 7131-7147.	3.0	28
11	Regularization of nonlinear decomposition of spectral xâ€ray projection images. Medical Physics, 2017, 44, e174-e187.	3.0	65
12	Sparse reconstruction methods in x-ray CT. , 2017, , .		0
13	Dynamic PET reconstruction using the split bregman formulation. , 2016, , .		0
14	A Novel Prior- and Motion-Based Compressed Sensing Method for Small-Animal Respiratory Gated CT. PLoS ONE, 2016, 11, e0149841.	2.5	10
15	Imaging metallic samples using electrical capacitance tomography: forward modelling and reconstruction algorithms. Measurement Science and Technology, 2016, 27, 115402.	2.6	13
16	Exploitation of temporal redundancy in compressed sensing reconstruction of fMRI studies with a priorâ€based algorithm (PICCS). Medical Physics, 2015, 42, 3814-3821.	3.0	15
17	Investigation of Different Sparsity Transforms for the PICCS Algorithm in Small-Animal Respiratory Gated CT. PLoS ONE, 2015, 10, e0120140.	2.5	8
18	Application of the compressed sensing technique to selfâ€gated cardiac cine sequences in small animals. Magnetic Resonance in Medicine, 2014, 72, 369-380.	3.0	28

#	Article	IF	Citations
19	Novel 4D image reconstruction for dynamic X-ray computed tomography in slow rotating scanners. , 2014, , .		0
20	Evaluation of the possibilities of limited angle reconstruction for the use of digital Radiography system as a tomograph. , 2014, , .		1
21	Compressed Sensing for Cardiac MRI Cine Sequences: A Real Implementation on a Small-Animal Scanner. IFMBE Proceedings, 2014, , 214-217.	0.3	1
22	A Prior-Based Image Variation (PRIVA) Approach Applied to Motion-Based Compressed Sensing Cardiac Cine MRI. IFMBE Proceedings, 2014, , 233-236.	0.3	2
23	Comparison of Total Variation with a Motion Estimation Based Compressed Sensing Approach for Self-Gated Cardiac Cine MRI in Small Animal Studies. PLoS ONE, 2014, 9, e110594.	2.5	16
24	Use of Split Bregman denoising for iterative reconstruction in fluorescence diffuse optical tomography. Journal of Biomedical Optics, 2013, 18, 076016.	2.6	27
25	Investigation of different Compressed Sensing approaches for respiratory gating in small animal CT. , 2012, , .		3
26	Influence of absorption and scattering on the quantification of fluorescence diffuse optical tomography using normalized data. Journal of Biomedical Optics, 2012, 17, 036013.	2.6	14
27	Split operator method for fluorescence diffuse optical tomography using anisotropic diffusion regularisation with prior anatomical information. Biomedical Optics Express, 2011, 2, 2632.	2.9	38
28	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
29	Fluorescence diffuse optical tomography using the split Bregman method. Medical Physics, 2011, 38, 6275-6284.	3.0	57
30	High-resolution dynamic cardiac MRI on small animals using reconstruction based on Split Bregman methodology. , 2011, , .		3
31	Electrical impedance tomography in anisotropic media with known eigenvectors. Inverse Problems, 2011, 27, 065004.	2.0	12
32	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
33	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. NeuroImage, 2008, 43, 258-268.	4.2	105
34	Comparison of methods for optimal choice of the regularization parameter for linear electrical impedance tomography of brain function. Physiological Measurement, 2008, 29, 1319-1334.	2.1	25
35	Validation of a finite-element solution for electrical impedance tomography in an anisotropic medium. Physiological Measurement, 2007, 28, S129-S140.	2.1	18
36	Validation of a finite element solution for electrical impedance tomography in an anisotropic medium. , 2007, , 372-375.		1

#	Article	IF	Citations
37	Factors limiting the application of electrical impedance tomography for identification of regional conductivity changes using scalp electrodes during epileptic seizures in humans. Physiological Measurement, 2006, 27, S163-S174.	2.1	67