Paul A RodrÃ-guez

List of Publications by Year
in descending order

62 papers	883 citations	7 h-index	11 g-index
62 all docs	62 docs citations	62 times ranked	788 citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Minimization Method for a Generalized Total Variation Functional. IEEE Transactions on Image Processing, 2009, 18, 322-332.	6.0	200
2	Multiscale AM-FM Demodulation and Image Reconstruction Methods With Improved Accuracy. IEEE Transactions on Image Processing, 2010, 19, 1138-1152.	6.0	116
3	Incremental Principal Component Pursuit for Video Background Modeling. Journal of Mathematical Imaging and Vision, 2016, 55, 1-18.	0.8	101
4	An Iteratively Reweighted Norm Algorithm for Minimization of Total Variation Functionals. IEEE Signal Processing Letters, 2007, 14, 948-951.	2.1	88
5	Fast principal component pursuit via alternating minimization. , 2013, , .		73
6	Total Variation Regularization Algorithms for Images Corrupted with Different Noise Models: A Review. Journal of Electrical and Computer Engineering, 2013, 2013, 1-18.	0.6	51
7	A Matlab implementation of a fast incremental principal component pursuit algorithm for Video Background Modeling. , 2014, , .		26
8	Translational and rotational jitter invariant incremental principal component pursuit for video background modeling. , 2015, , .		23
9	An Iteratively Reweighted Norm Algorithm for Total Variation Regularization. , 2006, , .		18
10	A generalized vector-valued total variation algorithm. , 2009, , .		11
11	An online background subtraction algorithm deployed on a NAO humanoid robot based monitoring system. Robotics and Autonomous Systems, 2016, 85, 37-47.	3.0	11
12	Fast convolutional sparse coding with separable filters. , 2017, , .		11
13	Separable Dictionary Learning for Convolutional Sparse Coding via Split Updates. , 2018, , .		11
14	Highly Parallelable Bidimensional Median Filter for Modern Parallel Programming Models. Journal of Signal Processing Systems, 2013, 71, 221-235.	1.4	9
15	Efficient Convolutional Dictionary Learning Using Partial Update Fast Iterative Shrinkage-Thresholding Algorithm. , 2018, , .		9
16	Bidimensional median filter for parallel computing architectures. , 2012, , .		8
17	Video background modeling under impulse noise. , 2014, , .		8
18	Panning and Jitter Invariant Incremental Principal Component Pursuit for Video Background Modeling. , 2017, , .		7

#	Article	IF	Citations
19	Efficient Algorithm for Convolutional Dictionary Learning via Accelerated Proximal Gradient Consensus. , 2018, , .		7
20	AN &#x2113;<sup>1</sup>-TV algorithm for deconvolution with salt and pepper noise. , 2009, , .		6
21	Catadioptric omnidirectional image inpainting via a multi-scale approach and image unwrapping. , 2013, , .		6
22	Jitter invariant incremental principal component pursuit for video background modeling on the TK1. , 2015, , .		6
23	Ghosting suppression for incremental principal component pursuit algorithms. , 2016, , .		6
24	EFFICIENT SEPARABLE FILTER ESTIMATION USING RANK-1 CONVOLUTIONAL DICTIONARY LEARNING. , 2018, , .		6
25	Combinatorial Separable Convolutional Dictionaries. , 2019, , .		5
26	Application of numerical methods to elasticity imaging. MCB Molecular and Cellular Biomechanics, 2013, 10, 43-65.	0.3	5
27	Shear Wave Speed Estimation from Crawling Wave Sonoelastography: A comparison between AM-FM Dominant Component Analysis and Phase Derivation Methods. , 2014, , .		4
28	Crawling Waves Speed Estimation Based on the Dominant Component Analysis Paradigm. Ultrasonic Imaging, 2015, 37, 341-355.	1.4	4
29	Alternating optimization low-rank expansion algorithm to estimate a linear combination of separable filters to approximate 2D filter banks. , 2016, , .		4
30	Moving object detection in videos using principal component pursuit and convolutional neural networks. , 2017, , .		4
31	Wall clutter removal in Doppler ultrasound using principal component pursuit. , 2018, , .		4
32	2D amplitude-modulation frequency-modulation - based method for motion estimation. , 2015, , .		3
33	Efficient Projection onto the $ell_{infty,1}$ Mixed-Norm Ball Using a Newton Root Search Method. SIAM Journal on Imaging Sciences, 2019, 12, 604-623.	1.3	3
34	Improving FISTAâ€™s Speed of Convergence via a Novel Inertial Sequence. , 2019, , .		3
35	2D instantaneous frequency-based method for motion estimation using total variation. , 2014, , .		2
36	A 2D amplitude-modulation frequency-modulation representation for motion estimation. , 2016, , .		2

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37	An incremental principal component pursuit algorithm via projections onto the â„"<inf>1</inf> ball. , 2017, , .		2
38	A two-term penalty function for inverse problems with sparsity constrains. , 2017, , .		2
39	REAL-TIME CORNER DETECTION ON MOBILE PLATFORMS USING CUDA. , 2018, , .		2
40	Improved Solution to the ell_{0} Regularized Optimization Problem via Dictionary-Reduced Initial Guess. , 2018, , .		2
41	Optical motion tracking in earthquake-simulation shake table testing: Preliminary results. , 2009, , .		1
42	Multiplicative updates algorithm to minimize the generalized total variation functional with a non-negativity constraint. , 2010, , .		1
43	Noise model discrimination for digital images based on variance-stabilizing transforms and on local statistics: Preliminary results. , 2011, , .		1
44	Omnidirectional catadioptric image unwrapping via total variation regularization. , 2011, , .		1
45	A comparison of the computational performance of Iteratively Reweighted Least Squares and alternating minimization algorithms for &#x2113;<inf>1</inf> inverse problems. , 2012, , .		1
46	Handgrip estimation based on total variation denoising filtering for control applications. , 2013, , .		1
47	Fast omni-image unwarping using pano-mapping pointers array. , 2014, , .		1
48	Practical hand tracking solution by alternating the use of a priori information. , 2014, , .		1
49	An accelerated newton's method for projections onto the â„"<inf>1</inf>-ball. , 2017, , .		1
50	Panning and Jitter Invariant Incremental Principal Component Pursuit for Video Background Modeling. Journal of Electrical and Computer Engineering, 2019, 2019, 1-15.	0.6	1
51	Hyper-Parameter Selection on Convolutional Dictionary Learning Through Local â„"_{0,âˆž} Norm. , 2019, , .		1
52	Generalized Combinatorial Approach Using Single Filter Basis for Convolutional Sparse Modeling. , 2019, , .		1
53	Fast High Resolution Blood Flow Estimation and Clutter Rejection Via an Alternating Optimization Problem. , 2021, , .		1
54	Robustifying stability of the Fast iterative shrinkage thresholding algorithm for ell_{1} regularized problems. , 2021, , .		1

#	Article	IF	Citations
55	A regularized optimization approach for AM-FM reconstructions. , 2010, , .		0
56	Computationally inexpensive parallel parking supervisor based on video processing. , 2012, , .		0
57	A quasi-local method for instantaneous frequency estimation with application to structural magnetic resonance images. , 2014, 2014, 1477-80.		0
58	FAST CONVOLUTIONAL SPARSE CODING WITH â„"<inf>0</inf> PENALTY. , 2018, , .		0
59	Fast Projection onto the <tex>$ell_{infty,1}$</tex> -Mixed Norm Ball Using Steffensen Root Search. , 2018, , .		0
60	Accelerated Gradient Descent Method for Projections onto the <tex>ell_{1}</tex> -Ball. , 2018, , .		0
61	Regularization Parameter-Free Convolutional Sparse Coding via Projections Onto The â„"<inf>1</inf>-Ball and The Discrepancy Principle. , 2018, , .		0
62	X-ray CT reconstruction via ell_{0} gradient projection. , 2019, , .		0