Ming Jiang

List of Publications by Year
in descending order

92 papers	2,242 citations	411340 20 h-index	274796 44 g-index
93 all docs	93 docs citations	93 times ranked	1690 citing authors

#	Article	IF	Citations
1	FPGA Acceleration for 3-D Low-Dose Tomographic Reconstruction. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 666-679.	1.9	4
2	Unified Quality Assessment of in-the-Wild Videos with Mixed Datasets Training. International Journal of Computer Vision, 2021, 129, 1238-1257.	10.9	69
3	Review of Image Similarity Measures for Joint Image Reconstruction from Multiple Measurements. , 2021, , 267-286.		1
4	FPGA-accelerated Iterative Reconstruction for Transmission Electron Tomography. , 2021, , .		2
5	FPGA Acceleration of Ray-Based Iterative Algorithm for 3D Low-Dose CT Reconstruction. , 2020, , .		1
6	Joint super-resolution image reconstruction and parameter identification in imaging operator: analysis of bilinear operator equations, numerical solution, and application to magnetic particle imaging. Inverse Problems, 2020, 36, 124006.	1.0	7
7	Joint Bi-Modal Image Reconstruction Of Dot And Xct With An Extended Mumford-Shah Functional. , 2019, , .		1
8	Single Image Blind Deblurring Using Multi-Scale Latent Structure Prior. IEEE Transactions on Circuits and Systems for Video Technology, 2019, , 1-1.	5.6	22
9	Image reconstruction by Mumford–Shah regularization for low-dose CT with multi-GPU acceleration. Physics in Medicine and Biology, 2019, 64, 155017.	1.6	6
10	Winograd-Based Real-Time Super-Resolution System on FPGA. , 2019, , .		10
11	Quality Assessment of In-the-Wild Videos. , 2019, , .		162
12	Which Has Better Visual Quality: The Clear Blue Sky or a Blurry Animal?. IEEE Transactions on Multimedia, 2019, 21, 1221-1234.	5.2	77
13	cuMBIR. , 2018, , .		11
14	Quality Assessment for Tone-Mapped HDR Images Using Multi-Scale and Multi-Layer Information. , 2018, , .		11
15	FPGA-Based Real-Time Super-Resolution System for Ultra High Definition Videos. , 2018, , .		16
16	Simultaneous reconstruction and segmentation with the Mumford-Shah functional for electron tomography. Inverse Problems and Imaging, 2018, 12, 1343-1364.	0.6	4
17	Mumford-Shah-TV functional with application in X-ray interior tomography. Inverse Problems and Imaging, 2018, 12, 331-348.	0.6	1
18	High cost-efficient and computational gigapixel video camera based on commercial lenses and CMOS chips. Applied Optics, 2018, 57, 8519.	0.9	1

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19	Superiorization: theory and applications. Inverse Problems, 2017, 33, 040301.	1.0	13
20	Light field reconstruction from projection modeling of focal stack. Optics Express, 2017, 25, 11377.	1.7	23
21	Exploiting High-Level Semantics for No-Reference Image Quality Assessment of Realistic Blur Images. , 2017, , .		22
22	Light Field Reconstruction from Focal Stack Based on Landweber Iterative Scheme. , 2017, , .		3
23	Simultaneous reconstruction and segmentation with the Mumford-Shah functional for electron tomography. , 2016, 2016, 5909-5912.		1
24	Relaxation strategy for the Landweber method. Signal Processing, 2016, 125, 87-96.	2.1	21
25	Bounded perturbation resilience of projected scaled gradient methods. Computational Optimization and Applications, 2016, 63, 365-392.	0.9	22
26	Image Quality Assessment Based on Contour and Region. Journal of Computational Mathematics, 2016, 34, 705-722.	0.2	0
27	Data consistency condition for truncated projections in fan-beam geometry. Journal of X-Ray Science and Technology, 2015, 23, 627-638.	0.7	4
28	A fast super-resolution method based on sparsity properties. , 2015, , .		1
29	A fast algorithm for high order total variation minimization based interior tomography. Journal of X-Ray Science and Technology, 2015, 23, 349-364.	0.7	5
30	3D Algebraic Iterative Reconstruction for Cone-Beam X-Ray Differential Phase-Contrast Computed Tomography. PLoS ONE, 2015, 10, e0117502.	1.1	15
31	FPGA acceleration by asynchronous parallelization for simultaneous image reconstruction and segmentation based on the Mumford-Shah regularization. Proceedings of SPIE, 2015, , .	0.8	4
32	How slow is Shannon×³s reconstruction for bandlimited signals?. Signal Processing, 2015, 111, 26-30.	2.1	5
33	Regularizing properties of the Mumfordâ€"Shah functional for imaging applications. Inverse Problems, 2014, 30, 035007.	1.0	26
34	String-averaging expectation-maximization for maximum likelihood estimation in emission tomography. Inverse Problems, 2014, 30, 055003.	1.0	8
35	Radiative transfer equation for media with spatially varying refractive index. Physical Review A, 2014, 90, .	1.0	3
36	FPGA Acceleration for Simultaneous Medical Image Reconstruction and Segmentation. , 2014, , .		3

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37	Convergence results of Landweber iterations for linear systems. Acta Mathematicae Applicatae Sinica, 2014, 30, 111-118.	0.4	7
38	Visibility studies of grating-based neutron phase contrast and dark-field imaging by using partial coherence theory. Journal of the Korean Physical Society, 2013, 63, 2093-2097.	0.3	5
39	A Hierarchical Bayesian Approach for Aerosol Retrieval Using MISR Data. Journal of the American Statistical Association, 2013, 108, 483-493.	1.8	11
40	A Heuristic Superiorization-Like Approach to Bioluminescence Tomography. IFMBE Proceedings, 2013, , 1026-1029.	0.2	10
41	Cone-beam reconstruction for the two-circles-plus-one-line trajectory. Physics in Medicine and Biology, 2012, 57, 2689-2707.	1.6	4
42	High-order total variation minimization for interior SPECT. Inverse Problems, 2012, 28, 015001.	1.0	23
43	High order total variation method for interior tomography. Proceedings of SPIE, 2012, , .	0.8	1
44	Partial coherence theory for x-ray phase contrast imaging technique with gratings. Optics Communications, 2012, 285, 4763-4774.	1.0	5
45	Theoretical study on high order interior tomography. Journal of X-Ray Science and Technology, 2012, 20, 423-436.	0.7	10
46	Diffusive reflectance for the free-space light propagation theory. Applied Physics Letters, 2010, 96, 013702.	1.5	0
47	High-order total variation minimization for interior tomography. Inverse Problems, 2010, 26, 035013.	1.0	115
48	Two-dimensional phase unwrapping using semidefinite relaxation. , 2009, , .		2
49	Supplemental analysis on compressed sensing based interior tomography. Physics in Medicine and Biology, 2009, 54, N425-N432.	1.6	59
50	Landweber scheme for compact operator equation in Hilbert space and its applications. Communications in Numerical Methods in Engineering, 2009, 25, 771-786.	1.3	6
51	Interior SPECTâ€"exact and stable ROI reconstruction from uniformly attenuated local projections. Communications in Numerical Methods in Engineering, 2009, 25, 693-710.	1.3	19
52	Landweber iterative methods for angle-limited image reconstruction. Acta Mathematicae Applicatae Sinica, 2009, 25, 327-334.	0.4	13
53	A Note on the Behavior of the Randomized Kaczmarz Algorithm of Strohmer and Vershynin. Journal of Fourier Analysis and Applications, 2009, 15, 431-436.	0.5	35
54	Necessary and Sufficient Convergence Conditions for Algebraic Image Reconstruction Algorithms. IEEE Transactions on Image Processing, 2009, 18, 435-440.	6.0	28

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55	An iterative algorithm for angle-limited three-dimensional image reconstruction. Acta Mathematicae Applicatae Sinica, 2008, 24, 157-166.	0.4	10
56	X-ray phase-contrast imaging with 2D grating interferometry. , 2008, , .		2
57	An EM-like optimization scheme for diffuse optical tomography. Proceedings of SPIE, 2008, , .	0.8	3
58	X-Ray Phase-Contrast Imaging with Three 2D Gratings. International Journal of Biomedical Imaging, 2008, 2008, 1-8.	3.0	20
59	Parameter optimization for a grating-based phase contrast x-ray system. Proceedings of SPIE, 2008, , .	0.8	1
60	In Situ Real-Time Chemiluminescence Imaging of Reactive Oxygen Species Formation from Cardiomyocytes. International Journal of Biomedical Imaging, 2008, 2008, 1-9.	3.0	3
61	Mathematics in Biomedical Imaging. International Journal of Biomedical Imaging, 2007, 2007, 1-2.	3.0	0
62	Image reconstruction for bioluminescence tomography from partial measurement. Optics Express, 2007, 15, 11095.	1.7	49
63	Comparison of MISR aerosol optical thickness with AERONET measurements in Beijing metropolitan area. Remote Sensing of Environment, 2007, 107, 45-53.	4.6	68
64	Development of bioluminescence tomography. , 2006, 6318, 104.		0
65	A general axiomatic system for image resolution quantification. Journal of Mathematical Analysis and Applications, 2006, 315, 462-473.	0.5	1
66	Variable Weighted Ordered Subset Image Reconstruction Algorithm. International Journal of Biomedical Imaging, 2006, 2006, 1-7.	3.0	3
67	Recent Development in Bioluminescence Tomography. Current Medical Imaging, 2006, 2, 453-457.	0.4	27
68	Axiomatic characterization of nonlinear homomorphic means. Journal of Mathematical Analysis and Applications, 2005, 303, 350-363.	0.5	8
69	A Reconstruction Algorithm for Triple-Source Helical Cone-Beam CT. , 2005, 2005, 1875-8.		2
70	Blind Deconvolution for Symmetric Point-spread Functions. , 2005, 2005, 3459-62.		1
71	Practical reconstruction method for bioluminescence tomography. Optics Express, 2005, 13, 6756.	1.7	299
72	Computational optical biopsy. BioMedical Engineering OnLine, 2005, 4, 36.	1.3	6

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73	A Surface Reconstruction Method for Highly Noisy Point Clouds. Lecture Notes in Computer Science, 2005, , 283-294.	1.0	12
74	ITERATIVE ALGEBRAIC ALGORITHMS FOR IMAGE RECONSTRUCTION. , 2005, , 351-382.		6
75	Uniqueness theorems in bioluminescence tomography. Medical Physics, 2004, 31, 2289-2299.	1.6	253
76	Minimum detection window and inter-helix PI-line with triple-source helical cone-beam scanning. , 2004, , .		3
77	Image reconstruction for bioluminescence tomography. , 2004, , .		17
78	Constrained block-iterative Landweber scheme for image reconstruction. , 2004, , .		0
79	Convergence studies on iterative algorithms for image reconstruction. IEEE Transactions on Medical Imaging, 2003, 22, 569-579.	5.4	198
80	Blind deblurring of spiral CT images. IEEE Transactions on Medical Imaging, 2003, 22, 837-845.	5.4	61
81	Spatial Variation of Resolution and Noise in Multiâ€"Detector Row Spiral CT. Academic Radiology, 2003, 10, 607-613.	1.3	24
82	Convergence of the simultaneous algebraic reconstruction technique (SART). IEEE Transactions on Image Processing, 2003, 12, 957-961.	6.0	187
83	Blind deblurring of spiral CT images-comparative studies on edge-to-noise ratios. Medical Physics, 2002, 29, 821-829.	1.6	15
84	Axiomatic quantification of multidimensional image resolution. IEEE Signal Processing Letters, 2002, 9, 120-122.	2.1	8
85	BLOCK-ITERATIVE ALGORITHMS FOR IMAGE RECONSTRUCTION. , 2002, , .		1
86	Convergence of the simultaneous algebraic reconstruction technique (SART). , 2001, , .		8
87	Axiomatic quantification of image resolution. , 2001, , .		0
88	Blind deblurring of spiral CT images. , 2001, , .		0
89	A generalization of Morse lemma and its applications. Nonlinear Analysis: Theory, Methods & Applications, 1999, 36, 943-960.	0.6	6
90	Partial regularity of weakly stationary harmonic maps into a manifold with symmetries. Nonlinear Analysis: Theory, Methods & Applications, 1995, 24, 433-440.	0.6	0

#	Article	IF	Citations
91	Cone-beam reconstruction for Micro-CT. , 0, , .		0
92	Convergence of iterative algorithms for image reconstruction. , 0, , .		1