Hui Ji

List of Publications by Year
in descending order

94 papers	4,736 citations	304602 22 h-index	197736 49 g-index
94 all docs	94 docs citations	94 times ranked	3444 citing authors

#	Article	IF	Citations
1	Removing Rain from a Single Image via Discriminative Sparse Coding. , 2015, , .		484
2	Robust video denoising using low rank matrix completion. , 2010, , .		315
3	Real time robust L1 tracker using accelerated proximal gradient approach. , 2012, , .		264
4	Viewpoint Invariant Texture Description Using Fractal Analysis. International Journal of Computer Vision, 2009, 83, 85-100.	10.9	252
5	Robust Video Restoration by Joint Sparse and Low Rank Matrix Approximation. SIAM Journal on Imaging Sciences, 2011, 4, 1122-1142.	1.3	228
6	Data-driven tight frame construction and image denoising. Applied and Computational Harmonic Analysis, 2014, 37, 89-105.	1.1	201
7	Framelet-Based Blind Motion Deblurring From a Single Image. IEEE Transactions on Image Processing, 2012, 21, 562-572.	6.0	192
8	Self2Self With Dropout: Learning Self-Supervised Denoising From Single Image. , 2020, , .		172
9	Dictionary Learning for Sparse Coding: Algorithms and Convergence Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 1356-1369.	9.7	137
10	Blind motion deblurring from a single image using sparse approximation. , 2009, , .		129
11	Wavelet frame based blind image inpainting. Applied and Computational Harmonic Analysis, 2012, 32, 268-279.	1.1	116
12	Wavelet Domain Multifractal Analysis for Static and Dynamic Texture Classification. IEEE Transactions on Image Processing, 2013, 22, 286-299.	6.0	109
13	Robust Wavelet-Based Super-Resolution Reconstruction: Theory and Algorithm. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, 31, 649-660.	9.7	100
14	Image denoising using complex-valued deep CNN. Pattern Recognition, 2021, 111, 107639.	5.1	96
15	A new texture descriptor using multifractal analysis in multi-orientation wavelet pyramid. , 2010, , .		90
16	Blind motion deblurring using multiple images. Journal of Computational Physics, 2009, 228, 5057-5071.	1.9	87
17	Scale-space texture description on SIFT-like textons. Computer Vision and Image Understanding, 2012, 116, 999-1013.	3.0	84
18	Dynamic texture classification using dynamic fractal analysis. , 2011, , .		80

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19	Cortical graph neural network for AD and MCI diagnosis and transfer learning across populations. NeuroImage: Clinical, 2019, 23, 101929.	1.4	75
20	Fast Sparsity-Based Orthogonal Dictionary Learning for Image Restoration. , 2013, , .		68
21	Recorrupted-to-Recorrupted: Unsupervised Deep Learning for Image Denoising. , 2021, , .		67
22	Robust Image Deblurring With an Inaccurate Blur Kernel. IEEE Transactions on Image Processing, 2012, 21, 1624-1634.	6.0	57
23	Multivariate Compactly Supported Fundamental Refinable Functions, Duals, and Biorthogonal Wavelets. Studies in Applied Mathematics, 1999, 102, 173-204.	1.1	52
24	Motion blur identification from image gradients. , 2008, , .		51
25	Deep Learning for Seeing Through Window With Raindrops. , 2019, , .		51
26	Dynamic Texture Recognition via Orthogonal Tensor Dictionary Learning. , 2015, , .		46
27	Classifying dynamic textures via spatiotemporal fractal analysis. Pattern Recognition, 2015, 48, 3239-3248.	5.1	45
28	Data-Driven Multi-scale Non-local Wavelet Frame Construction and Image Recovery. Journal of Scientific Computing, 2015, 63, 307-329.	1.1	44
29	AirNet: Fused analytical and iterative reconstruction with deep neural network regularization for sparseâ€data CT. Medical Physics, 2020, 47, 2916-2930.	1.6	39
30	Sparse Coding for Classification via Discrimination Ensemble. , 2016, , .		37
31	Watermarking Deep Neural Networks in Image Processing. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1852-1865.	7.2	37
32	L0 Norm Based Dictionary Learning by Proximal Methods with Global Convergence. , 2014, , .		36
33	Estimating Defocus Blur via Rank of Local Patches. , 2017, , .		36
34	Learning shift-invariant sparse representation of actions. , 2010, , .		34
35	Image Denoising via Sequential Ensemble Learning. IEEE Transactions on Image Processing, 2020, 29, 5038-5049.	6.0	33
36	Compactly supported (bi)orthogonal wavelets generated by interpolatory refinable functions. Advances in Computational Mathematics, 1999, 11, 81-104.	0.8	31

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37	Convergence analysis for iterative data-driven tight frame construction scheme. Applied and Computational Harmonic Analysis, 2015, 38, 510-523.	1.1	30
38	Equiangular Kernel Dictionary Learning with Applications to Dynamic Texture Analysis. , 2016, , .		29
39	Wavelet Leader multifractal analysis for texture classification. , 2009, , .		28
40	Deep Learning for Handling Kernel/model Uncertainty in Image Deconvolution. , 2020, , .		28
41	Low-dose CT with deep learning regularization via proximal forward–backward splitting. Physics in Medicine and Biology, 2020, 65, 125009.	1.6	28
42	Variational-EM-Based Deep Learning for Noise-Blind Image Deblurring. , 2020, , .		26
43	Combining powerful local and global statistics for texture description. , 2009, , .		24
44	An Augmented Lagrangian Method for ell_{1}-Regularized Optimization Problems with Orthogonality Constraints. SIAM Journal of Scientific Computing, 2016, 38, B570-B592.	1.3	24
45	A Variational EM Framework With Adaptive Edge Selection for Blind Motion Deblurring. , 2019, , .		23
46	Cerebellar Functional Parcellation Using Sparse Dictionary Learning Clustering. Frontiers in Neuroscience, 2016, 10, 188.	1.4	22
47	Illusory motion due to causal time filtering. Vision Research, 2010, 50, 315-329.	0.7	21
48	Image deconvolution using a characterization of sharp images in wavelet domain. Applied and Computational Harmonic Analysis, 2012, 32, 295-304.	1.1	21
49	Recovering Over-/Underexposed Regions in Photographs. SIAM Journal on Imaging Sciences, 2013, 6, 2213-2235.	1.3	19
50	Wavelet Frame Based Algorithm for 3D Reconstruction in Electron Microscopy. SIAM Journal of Scientific Computing, 2014, 36, B45-B69.	1.3	19
51	Barzilai–Borwein-based adaptive learning rate for deep learning. Pattern Recognition Letters, 2019, 128, 197-203.	2.6	19
52	Deep Texture Recognition via Exploiting Cross-Layer Statistical Self-Similarity. , 2021, , .		19
53	High-quality curvelet-based motion deblurring from an image pair. , 2009, , .		18
54	Dual Gramian analysis: Duality principle and unitary extension principle. Mathematics of Computation, 2015, 85, 239-270.	1.1	18

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55	Nonblind Image Deblurring via Deep Learning in Complex Field. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5387-5400.	7.2	18
56	Self-Supervised Low-Light Image Enhancement Using Discrepant Untrained Network Priors. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7332-7345.	5.6	18
57	Wavelet Based Restoration of Images with Missing or Damaged Pixels. East Asian Journal on Applied Mathematics, 2011, 1, 108-131.	0.4	17
58	A Convergent Incoherent Dictionary Learning Algorithm for Sparse Coding. Lecture Notes in Computer Science, 2014, , 302-316.	1.0	16
59	Attention with structure regularization for action recognition. Computer Vision and Image Understanding, 2019, 187, 102794.	3.0	15
60	Collaborative Deep Learning for Super-Resolving Blurry Text Images. IEEE Transactions on Computational Imaging, 2020, 6, 778-790.	2.6	15
61	Deep Learning With Adaptive Hyper-Parameters for Low-Dose CT Image Reconstruction. IEEE Transactions on Computational Imaging, 2021, 7, 648-660.	2.6	15
62	A Projective Invariant for Textures. , 0, , .		14
63	A two-stage approach to blind spatially-varying motion deblurring. , 2012, , .		14
64	Attentive deep network for blind motion deblurring on dynamic scenes. Computer Vision and Image Understanding, 2021, 205, 103169.	3.0	14
65	Compactly supported orthonormal complex wavelets with dilation 4 and symmetry. Applied and Computational Harmonic Analysis, 2009, 26, 422-431.	1.1	13
66	Wavelet frame based scene reconstruction from range data. Journal of Computational Physics, 2010, 229, 2093-2108.	1.9	13
67	Image recovery via geometrically structured approximation. Applied and Computational Harmonic Analysis, 2016, 41, 75-93.	1.1	13
68	Directional Frames for Image Recovery: Multi-scale Discrete Gabor Frames. Journal of Fourier Analysis and Applications, 2017, 23, 729-757.	0.5	13
69	Removing Reflection From a Single Image With Ghosting Effect. IEEE Transactions on Computational Imaging, 2020, 6, 34-45.	2.6	12
70	Noise causes slant underestimation in stereo and motion. Vision Research, 2006, 46, 3105-3120.	0.7	11
71	Self-supervised Bayesian Deep Learning for Image Recovery with Applications to Compressive Sensing. Lecture Notes in Computer Science, 2020, , 475-491.	1.0	11
72	Coherence Retrieval Using Trace Regularization. SIAM Journal on Imaging Sciences, 2018, 11, 679-706.	1.3	10

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73	Un-supervised learning for blind image deconvolution via Monte-Carlo sampling. Inverse Problems, 2022, 38, 035012.	1.0	9
74	A 3D shape constraint on video. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1018-1023.	9.7	8
75	Inpainting for compressed images. Applied and Computational Harmonic Analysis, 2010, 29, 368-381.	1.1	8
76	Nonblind Image Deconvolution via Leveraging Model Uncertainty in An Untrained Deep Neural Network. International Journal of Computer Vision, 2022, 130, 1770-1789.	10.9	8
77	Rethinking medical image reconstruction via shape prior, going deeper and faster: Deep joint indirect registration and reconstruction. Medical Image Analysis, 2021, 68, 101930.	7.0	7
78	Unsupervised Deep Background Matting Using Deep Matte Prior. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4324-4337.	5.6	7
79	Cartoon-Texture Image Decomposition using Orientation Characteristics in Patch Recurrence. SIAM Journal on Imaging Sciences, 2020, 13, 1179-1210.	1.3	6
80	Learnable Multi-scale Fourier Interpolation for Sparse View CT Image Reconstruction. Lecture Notes in Computer Science, 2021, , 286-295.	1.0	6
81	Integrating local feature and global statistics for texture analysis. , 2009, , .		5
82	Digital Gabor filters with MRA structure. Multiscale Modeling and Simulation, 2018, 16, 452-476.	0.6	5
83	Digital Gabor filters do generate MRA-based wavelet tight frames. Applied and Computational Harmonic Analysis, 2019, 47, 87-108.	1.1	5
84	Contour-based recognition. , 2012, , .		4
85	Unsupervised Phase Retrieval Using Deep Approximate MMSE Estimation. IEEE Transactions on Signal Processing, 2022, 70, 2239-2252.	3.2	4
86	Investigating energy–based pool structure selection in the structure ensemble modeling with experimental distance constraints: The example from a multidomain protein <scp>P</scp>ub1. Proteins: Structure, Function and Bioinformatics, 2018, 86, 501-514.	1.5	3
87	Blind motion deblurring from a single image using sparse approximation. , 2009, , .		3
88	Learnable Douglas-Rachford iteration and its applications in DOT imaging. Inverse Problems and Imaging, 2020, 14, 683-700.	0.6	3
89	Integration of Motion Fields through Shape. , 0, , .		1
90	Better Flow Estimation from Color Images. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.0	1

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91	Band-limited Wavelets and Framelets in Low Dimensions. Journal of Fourier Analysis and Applications, 2013, 19, 731-761.	0.5	0
92	Apparent coherence loss in phase space tomography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 2025.	0.8	0
93	Multiscale Discrete Framelet Transform for Graph-Structured Signals. Multiscale Modeling and Simulation, 2020, 18, 1210-1241.	0.6	0
94	Bias in Shape Estimation. Lecture Notes in Computer Science, 2004, , 405-416.	1.0	0