Jian Zhang

List of Publications by Year
in descending order

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		304743	330143
77	3,430	22	37
papers	citations	h-index	g-index

77	77	77	2205
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Group-Based Sparse Representation for Image Restoration. IEEE Transactions on Image Processing, 2014, 23, 3336-3351.	9.8	604
2	ISTA-Net: Interpretable Optimization-Inspired Deep Network for Image Compressive Sensing. , 2018, , .		592
3	Image Restoration Using Joint Statistical Modeling in a Space-Transform Domain. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 915-928.	8.3	148
4	Image Compressive Sensing Recovery via Collaborative Sparsity. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2012, 2, 380-391.	3.6	130
5	Image compressive sensing recovery using adaptively learned sparsifying basis via L0 minimization. Signal Processing, 2014, 103, 114-126.	3.7	126
6	CONCOLOR: Constrained Non-Convex Low-Rank Model for Image Deblocking. IEEE Transactions on Image Processing, 2016, 25, 1246-1259.	9.8	108
7	Reducing Image Compression Artifacts by Structural Sparse Representation and Quantization Constraint Prior. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 2057-2071.	8.3	98
8	Optimization-Inspired Compact Deep Compressive Sensing. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 765-774.	10.8	94
9	Utility-Driven Adaptive Preprocessing for Screen Content Video Compression. IEEE Transactions on Multimedia, 2017, 19, 660-667.	7.2	90
10	Interpolation-Dependent Image Downsampling. IEEE Transactions on Image Processing, 2011, 20, 3291-3296.	9.8	89
11	Video Compressive Sensing Reconstruction via Reweighted Residual Sparsity. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1182-1195.	8.3	88
12	A Novel Two-stage Separable Deep Learning Framework for Practical Blind Watermarking. , 2019, , .		77
13	CCR: Clustering and Collaborative Representation for Fast Single Image Super-Resolution. IEEE Transactions on Multimedia, 2016, 18, 405-417.	7.2	63
14	COAST: COntrollable Arbitrary-Sampling NeTwork for Compressive Sensing. IEEE Transactions on Image Processing, 2021, 30, 6066-6080.	9.8	60
15	Image denoising via adaptive soft-thresholding based on non-local samples. , 2015, , .		50
16	Image Denoising via Bandwise Adaptive Modeling and Regularization Exploiting Nonlocal Similarity. IEEE Transactions on Image Processing, 2016, 25, 5793-5805.	9.8	49
17	Image super-resolution via dual-dictionary learning and sparse representation. , 2012, , .		46
18	Block-Based Compressive Sensing Coding of Natural Images by Local Structural Measurement Matrix. , 2015, , .		46

#	Article	IF	Citations
19	ISTA-NET⁺⁺: Flexible Deep Unfolding Network for Compressive Sensing. , 2021, , .		46
20	Structure-Aware Local Sparse Coding for Visual Tracking. IEEE Transactions on Image Processing, 2018, 27, 3857-3869.	9.8	44
21	Dynamic Attentive Graph Learning for Image Restoration. , 2021, , .		43
22	COLA-Net: Collaborative Attention Network for Image Restoration. IEEE Transactions on Multimedia, 2022, 24, 1366-1377.	7.2	40
23	Nonlocal In-Loop Filter: The Way Toward Next-Generation Video Coding?. IEEE MultiMedia, 2016, 23, 16-26.	1.7	38
24	Memory-Augmented Deep Unfolding Network for Compressive Sensing. , 2021, , .		38
25	Effective Quadtree Plus Binary Tree Block Partition Decision for Future Video Coding. , 2017, , .		36
26	Compressed Sensing Recovery via Collaborative Sparsity. , 2012, , .		32
27	A Similarity Inference Metric for RGB-Infrared Cross-Modality Person Re-identification. , 2020, , .		32
28	End-to-end Learned, Optically Coded Super-resolution SPAD Camera. ACM Transactions on Graphics, 2020, 39, 1-14.	7.2	31
29	Power Distortion Optimization for Uncoded Linear Transformed Transmission of Images and Videos. IEEE Transactions on Image Processing, 2017, 26, 222-236.	9.8	30
30	Probabilistic Decision Based Block Partitioning for Future Video Coding. IEEE Transactions on Image Processing, 2018, 27, 1475-1486.	9.8	29
31	Spatially directional predictive coding for block-based compressive sensing of natural images. , 2013, , .		26
32	Entropy of Primitive: From Sparse Representation to Visual Information Evaluation. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 249-260.	8.3	25
33	Collaborative Representation Cascade for Single-Image Super-Resolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 845-860.	9.3	25
34	Structural Group Sparse Representation for Image Compressive Sensing Recovery. , 2013, , .		24
35	CREAM: CNN-REgularized ADMM Framework for Compressive-Sensed Image Reconstruction. IEEE Access, 2018, 6, 76838-76853.	4.2	23
36	Low-Rank based Nonlocal Adaptive Loop Filter for High Efficiency Video Compression. IEEE Transactions on Circuits and Systems for Video Technology, 2016, , 1-1.	8.3	22

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37	Nonconvex Lp Nuclear Norm based ADMM Framework for Compressed Sensing. , 2016, , .		20
38	Improved total variation based image compressive sensing recovery by nonlocal regularization. , 2013, , .		19
39	Exploiting Image Local and Nonlocal Consistency for Mixed Gaussian-Impulse Noise Removal. , 2012, , .		18
40	Spk2ImgNet: Learning to Reconstruct Dynamic Scene from Continuous Spike Stream. , 2021, , .		18
41	High-quality image restoration from partial random samples in spatial domain. , 2011, , .		17
42	Conceptual Compression via Deep Structure and Texture Synthesis. IEEE Transactions on Image Processing, 2022, 31, 2809-2823.	9.8	14
43	CAS: Correlation Adaptive Sparse Modeling for Image Denoising. IEEE Transactions on Computational Imaging, 2021, 7, 638-647.	4.4	13
44	Iterative Network for Image Super-Resolution. IEEE Transactions on Multimedia, 2022, 24, 2259-2272.	7.2	12
45	Fourier ptychographic microscopy with sparse representation. Scientific Reports, 2017, 7, 8664.	3.3	11
46	Adaptive Progressive Motion Vector Resolution Selection Based on Rateâ€“Distortion Optimization. IEEE Transactions on Image Processing, 2017, 26, 400-413.	9.8	11
47	Image Primitive Coding and Visual Quality Assessment. Lecture Notes in Computer Science, 2012, , 674-685.	1.3	11
48	Group-based sparse representation for Fourier ptychography microscopy. Optics Communications, 2017, 404, 55-61.	2.1	10
49	Structure-driven Adaptive Non-local Filter for High Efficiency Video Coding (HEVC). , 2016, , .		9
50	Local-constrained quadtree plus binary tree block partition structure for enhanced video coding. , 2016, , .		9
51	Globally Variance-Constrained Sparse Representation and Its Application in Image Set Coding. IEEE Transactions on Image Processing, 2018, 27, 3753-3765.	9.8	9
52	PUERT: Probabilistic Under-Sampling and Explicable Reconstruction Network for CS-MRI. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 737-749.	10.8	9
53	High quality image reconstruction via non-local collaborative estimation for wireless image/video softcast. , 2014, , .		8
54	Image super-resolution based on dictionary learning and anchored neighborhood regression with mutual incoherence. , 2015, , .		8

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55	Wavelet inpainting driven image compression via collaborative sparsity at low bit rates. , 2013, , .		7
56	Non-Local Nested Residual Attention Network for Stereo Image Super-Resolution. , 2020, , .		6
57	High-quality image interpolation via local autoregressive and nonlocal 3-D sparse regularization. , 2012, , .		5
58	Fast and Effective Interpolation Using Median Filter. Lecture Notes in Computer Science, 2009, , 1174-1184.	1.3	4
59	Invertible Resampling-Based Layered Image Compression. , 2021, , .		4
60	MRDFlow: Unsupervised Optical Flow Estimation Network With Multi-Scale Recurrent Decoder. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 4639-4652.	8.3	4
61	Non-Local Structure-Based Filter for Video Coding. , 2015, , .		3
62	Adaptive local nonparametric regression for fast single image super-resolution. , 2015, , .		3
63	Deep convolutional network based image quality enhancement for low bit rate image compression. , 2016, , .		3
64	Divisively Normalized Sparse Coding: Toward Perceptual Visual Signal Representation. IEEE Transactions on Cybernetics, 2021, 51, 4237-4250.	9.5	3
65	An Adaptive Pyramid Single-View Depth Lookup Table Coding Method. , 2021, , .		3
66	Invertible Image Compressive Sensing. Lecture Notes in Computer Science, 2021, , 548-560.	1.3	3
67	Texture aided depth frame interpolation. Signal Processing: Image Communication, 2014, 29, 864-874.	3.2	2
68	A dual structured-sparsity model for compressive-sensed video reconstruction. , 2015, , .		2
69	Improved entropy of primitive for visual information estimation. , 2016, , .		2
70	Globally Variance-Constrained Sparse Representation for Rate-Distortion Optimized Image Representation. , 2017, , .		2
71	Synergic Feature Attention for Image Restoration. , 2021, , .		2
72	A visual comfort assessment metric for stereoscopic images. , 2015, , .		1

#	Article	IF	Citations
73	BoostNet: A Structured Deep Recursive Network to Boost Image Deblocking. , 2018, , .		1
74	Image Denoising Based on Correlation Adaptive Sparse Modeling. , 2021, , .		1
75	Dynamic Multi-Domain Translation Network for Single Image Deraining. , 2021, , .		1
76	A highly effective error concealment method for whole frame loss. , 2013, , .		0
77	Fast and Accurate Image Denoising via a Deep Convolutional-Pairs Network. Lecture Notes in Computer Science, 2016, , 191-200.	1.3	0