

Jian Zhang

List of Publications by Year in descending order

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papers

3,430
citations

304743

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times ranked

2205
citing authors

#	ARTICLE	IF	CITATIONS
1	Iterative Network for Image Super-Resolution. IEEE Transactions on Multimedia, 2022, 24, 2259-2272.	7.2	12
2	COLA-Net: Collaborative Attention Network for Image Restoration. IEEE Transactions on Multimedia, 2022, 24, 1366-1377.	7.2	40
3	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
4	Conceptual Compression via Deep Structure and Texture Synthesis. IEEE Transactions on Image Processing, 2022, 31, 2809-2823.	9.8	14
5	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
6	Divisively Normalized Sparse Coding: Toward Perceptual Visual Signal Representation. IEEE Transactions on Cybernetics, 2021, 51, 4237-4250.	9.5	3
7	COAST: COntrollable Arbitrary-Sampling NeTwork for Compressive Sensing. IEEE Transactions on Image Processing, 2021, 30, 6066-6080.	9.8	60
8	Invertible Resampling-Based Layered Image Compression. , 2021, , .		4
9	An Adaptive Pyramid Single-View Depth Lookup Table Coding Method. , 2021, , .		3
10	Synergic Feature Attention for Image Restoration. , 2021, , .		2
11	Image Denoising Based on Correlation Adaptive Sparse Modeling. , 2021, , .		1
12	ISTA-NET ⁺⁺ : Flexible Deep Unfolding Network for Compressive Sensing. , 2021, , .		46
13	Dynamic Multi-Domain Translation Network for Single Image Deraining. , 2021, , .		1
14	CAS: Correlation Adaptive Sparse Modeling for Image Denoising. IEEE Transactions on Computational Imaging, 2021, 7, 638-647.	4.4	13
15	Invertible Image Compressive Sensing. Lecture Notes in Computer Science, 2021, , 548-560.	1.3	3
16	Memory-Augmented Deep Unfolding Network for Compressive Sensing. , 2021, , .		38
17	Spk2ImgNet: Learning to Reconstruct Dynamic Scene from Continuous Spike Stream. , 2021, , .		18
18	Dynamic Attentive Graph Learning for Image Restoration. , 2021, , .		43

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19	Non-Local Nested Residual Attention Network for Stereo Image Super-Resolution. , 2020, , .		6
20	Optimization-Inspired Compact Deep Compressive Sensing. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 765-774.	10.8	94
21	End-to-end Learned, Optically Coded Super-resolution SPAD Camera. ACM Transactions on Graphics, 2020, 39, 1-14.	7.2	31
22	A Similarity Inference Metric for RGB-Infrared Cross-Modality Person Re-identification. , 2020, , .		32
23	A Novel Two-stage Separable Deep Learning Framework for Practical Blind Watermarking. , 2019, , .		77
24	Collaborative Representation Cascade for Single-Image Super-Resolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 845-860.	9.3	25
25	Structure-Aware Local Sparse Coding for Visual Tracking. IEEE Transactions on Image Processing, 2018, 27, 3857-3869.	9.8	44
26	Probabilistic Decision Based Block Partitioning for Future Video Coding. IEEE Transactions on Image Processing, 2018, 27, 1475-1486.	9.8	29
27	Globally Variance-Constrained Sparse Representation and Its Application in Image Set Coding. IEEE Transactions on Image Processing, 2018, 27, 3753-3765.	9.8	9
28	ISTA-Net: Interpretable Optimization-Inspired Deep Network for Image Compressive Sensing. , 2018, , .		592
29	CREAM: CNN-REgularized ADMM Framework for Compressive-Sensed Image Reconstruction. IEEE Access, 2018, 6, 76838-76853.	4.2	23
30	BoostNet: A Structured Deep Recursive Network to Boost Image Deblocking. , 2018, , .		1
31	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
32	Video Compressive Sensing Reconstruction via Reweighted Residual Sparsity. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1182-1195.	8.3	88
33	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
34	Globally Variance-Constrained Sparse Representation for Rate-Distortion Optimized Image Representation. , 2017, , .		2
35	Effective Quadtree Plus Binary Tree Block Partition Decision for Future Video Coding. , 2017, , .		36
36	Group-based sparse representation for Fourier ptychography microscopy. Optics Communications, 2017, 404, 55-61.	2.1	10

#	ARTICLE	IF	CITATIONS
37	Fourier ptychographic microscopy with sparse representation. Scientific Reports, 2017, 7, 8664.	3.3	11
38	Power Distortion Optimization for Uncoded Linear Transformed Transmission of Images and Videos. IEEE Transactions on Image Processing, 2017, 26, 222-236.	9.8	30
39	Adaptive Progressive Motion Vector Resolution Selection Based on Rate-Distortion Optimization. IEEE Transactions on Image Processing, 2017, 26, 400-413.	9.8	11
40	Utility-Driven Adaptive Preprocessing for Screen Content Video Compression. IEEE Transactions on Multimedia, 2017, 19, 660-667.	7.2	90
41	Fast and Accurate Image Denoising via a Deep Convolutional-Pairs Network. Lecture Notes in Computer Science, 2016, , 191-200.	1.3	0
42	Nonconvex Lp Nuclear Norm based ADMM Framework for Compressed Sensing. , 2016, , .		20
43	Structure-driven Adaptive Non-local Filter for High Efficiency Video Coding (HEVC). , 2016, , .		9
44	Deep convolutional network based image quality enhancement for low bit rate image compression. , 2016, , .		3
45	Local-constrained quadtree plus binary tree block partition structure for enhanced video coding. , 2016, , .		9
46	Nonlocal In-Loop Filter: The Way Toward Next-Generation Video Coding?. IEEE MultiMedia, 2016, 23, 16-26.	1.7	38
47	Image Denoising via Bandwise Adaptive Modeling and Regularization Exploiting Nonlocal Similarity. IEEE Transactions on Image Processing, 2016, 25, 5793-5805.	9.8	49
48	Improved entropy of primitive for visual information estimation. , 2016, , .		2
49	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
50	CONCOLOR: Constrained Non-Convex Low-Rank Model for Image Deblocking. IEEE Transactions on Image Processing, 2016, 25, 1246-1259.	9.8	108
51	CCR: Clustering and Collaborative Representation for Fast Single Image Super-Resolution. IEEE Transactions on Multimedia, 2016, 18, 405-417.	7.2	63
52	Non-Local Structure-Based Filter for Video Coding. , 2015, , .		3
53	A dual structured-sparsity model for compressive-sensed video reconstruction. , 2015, , .		2
54	Adaptive local nonparametric regression for fast single image super-resolution. , 2015, , .		3

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55	A visual comfort assessment metric for stereoscopic images. , 2015, , .		1
56	Image super-resolution based on dictionary learning and anchored neighborhood regression with mutual incoherence. , 2015, , .		8
57	Block-Based Compressive Sensing Coding of Natural Images by Local Structural Measurement Matrix. , 2015, , .		46
58	Image denoising via adaptive soft-thresholding based on non-local samples. , 2015, , .		50
59	Group-Based Sparse Representation for Image Restoration. IEEE Transactions on Image Processing, 2014, 23, 3336-3351.	9.8	604
60	Texture aided depth frame interpolation. Signal Processing: Image Communication, 2014, 29, 864-874.	3.2	2
61	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
62	Image compressive sensing recovery using adaptively learned sparsifying basis via L0 minimization. Signal Processing, 2014, 103, 114-126.	3.7	126
63	High quality image reconstruction via non-local collaborative estimation for wireless image/video softcast. , 2014, , .		8
64	A highly effective error concealment method for whole frame loss. , 2013, , .		0
65	Spatially directional predictive coding for block-based compressive sensing of natural images. , 2013, , .		26
66	Wavelet inpainting driven image compression via collaborative sparsity at low bit rates. , 2013, , .		7
67	Structural Group Sparse Representation for Image Compressive Sensing Recovery. , 2013, , .		24
68	Improved total variation based image compressive sensing recovery by nonlocal regularization. , 2013, , .		19
69	High-quality image interpolation via local autoregressive and nonlocal 3-D sparse regularization. , 2012, , .		5
70	Compressed Sensing Recovery via Collaborative Sparsity. , 2012, , .		32
71	Image super-resolution via dual-dictionary learning and sparse representation. , 2012, , .		46
72	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

#	ARTICLE	IF	CITATIONS
73	Exploiting Image Local and Nonlocal Consistency for Mixed Gaussian-Impulse Noise Removal. , 2012, , .		18
74	Image Primitive Coding and Visual Quality Assessment. Lecture Notes in Computer Science, 2012, , 674-685.	1.3	11
75	High-quality image restoration from partial random samples in spatial domain. , 2011, , .		17
76	Interpolation-Dependent Image Downsampling. IEEE Transactions on Image Processing, 2011, 20, 3291-3296.	9.8	89
77	Fast and Effective Interpolation Using Median Filter. Lecture Notes in Computer Science, 2009, , 1174-1184.	1.3	4