

Xianming Liu

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,868
citations

331259

21
h-index

301761

39
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79
all docs

79
docs citations

79
times ranked

1574
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing an Efficient Image Encryption-Then-Compression System via Prediction Error Clustering and Random Permutation. IEEE Transactions on Information Forensics and Security, 2014, 9, 39-50.	4.5	145
2	Hyperspectral Image Classification in the Presence of Noisy Labels. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 851-865.	2.7	131
3	Learning Spatial-Spectral Prior for Super-Resolution of Hyperspectral Imagery. IEEE Transactions on Computational Imaging, 2020, 6, 1082-1096.	2.6	123
4	Graph-Based Blind Image Deblurring From a Single Photograph. IEEE Transactions on Image Processing, 2019, 28, 1404-1418.	6.0	115
5	Image Interpolation Via Regularized Local Linear Regression. IEEE Transactions on Image Processing, 2011, 20, 3455-3469.	6.0	114
6	Random Walk Graph Laplacian-Based Smoothness Prior for Soft Decoding of JPEG Images. IEEE Transactions on Image Processing, 2017, 26, 509-524.	6.0	111
7	Progressive Image Denoising Through Hybrid Graph Laplacian Regularization: A Unified Framework. IEEE Transactions on Image Processing, 2014, 23, 1491-1503.	6.0	106
8	Reduced-Reference Image Quality Assessment in Free-Energy Principle and Sparse Representation. IEEE Transactions on Multimedia, 2018, 20, 379-391.	5.2	97
9	Data-driven sparsity-based restoration of JPEG-compressed images in dual transform-pixel domain. , 2015, , .		58
10	Data-Driven Soft Decoding of Compressed Images in Dual Transform-Pixel Domain. IEEE Transactions on Image Processing, 2016, 25, 1649-1659.	6.0	50
11	Depth Super-Resolution via Joint Color-Guided Internal and External Regularizations. IEEE Transactions on Image Processing, 2019, 28, 1636-1645.	6.0	49
12	Image Interpolation via Graph-Based Bayesian Label Propagation. IEEE Transactions on Image Processing, 2014, 23, 1084-1096.	6.0	47
13	Low-Rank Decomposition Based Restoration of Compressed Images via Adaptive Noise Estimation. IEEE Transactions on Image Processing, 2016, 25, 1-1.	6.0	47
14	Compressive Sampling-Based Image Coding for Resource-Deficient Visual Communication. IEEE Transactions on Image Processing, 2016, 25, 2844-2855.	6.0	41
15	Scalable Compression of Stream Cipher Encrypted Images Through Context-Adaptive Sampling. IEEE Transactions on Information Forensics and Security, 2014, 9, 1857-1868.	4.5	34
16	Depth Restoration From RGB-D Data via Joint Adaptive Regularization and Thresholding on Manifolds. IEEE Transactions on Image Processing, 2019, 28, 1068-1079.	6.0	34
17	Supervised Distributed Hashing for Large-Scale Multimedia Retrieval. IEEE Transactions on Multimedia, 2018, 20, 675-686.	5.2	33
18	Multilayer Spectralâ€“Spatial Graphs for Label Noisy Robust Hyperspectral Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 839-852.	7.2	33

#	ARTICLE	IF	CITATIONS
19	Graph-Regularized Locality-Constrained Joint Dictionary and Residual Learning for Face Sketch Synthesis. IEEE Transactions on Image Processing, 2019, 28, 628-641.	6.0	30
20	Graph-Based Joint Dequantization and Contrast Enhancement of Poorly Lit JPEG Images. IEEE Transactions on Image Processing, 2019, 28, 1205-1219.	6.0	29
21	Blind quality assessment of compressed images via pseudo structural similarity. , 2016, , .		28
22	Sparsity-Based Image Error Concealment via Adaptive Dual Dictionary Learning and Regularization. IEEE Transactions on Image Processing, 2017, 26, 782-796.	6.0	25
23	Parametric local multiview hamming distance metric learning. Pattern Recognition, 2018, 75, 250-262.	5.1	25
24	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
25	Inter-block consistent soft decoding of JPEG images with sparsity and graph-signal smoothness priors. , 2015, , .		21
26	ADRN: Attention-Based Deep Residual Network for Hyperspectral Image Denoising. , 2020, , .		21
27	Deep Unfolding Network for Spatiospectral Image Super-Resolution. IEEE Transactions on Computational Imaging, 2022, 8, 28-40.	2.6	20
28	Color-Guided Depth Image Recovery With Adaptive Data Fidelity and Transferred Graph Laplacian Regularization. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 320-333.	5.6	19
29	Prior-Based Quantization Bin Matching for Cloud Storage of JPEG Images. IEEE Transactions on Image Processing, 2018, 27, 3222-3235.	6.0	16
30	Perceptual image quality assessment combining free-energy principle and sparse representation. , 2016, , .		15
31	Graph-Based Feature-Preserving Mesh Normal Filtering. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1937-1952.	2.9	15
32	Propagating Facial Prior Knowledge for Multitask Learning in Face Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7317-7331.	5.6	15
33	High-Resolution Depth Maps Imaging via Attention-Based Hierarchical Multi-Modal Fusion. IEEE Transactions on Image Processing, 2022, 31, 648-663.	6.0	14
34	Saliency detection based on short-term sparse representation. , 2010, , .		13
35	On the design of an efficient encryption-then-compression system. , 2013, , .		11
36	Estimation of capacity parameters for dynamic histogram shifting (DHS)-based reversible image watermarking. , 2014, , .		10

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37	Contrast Enhancement via Dual Graph Total Variation-Based Image Decomposition. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2463-2476.	5.6	10
38	Parsing Map Guided Multi-Scale Attention Network For Face Hallucination. , 2020, , .		10
39	Reconstruction-cognizant Graph Sampling Using Gershgorin Disc Alignment. , 2019, , .		8
40	Blind Image Deblurring Via Reweighted Graph Total Variation. , 2018, , .		7
41	Rapid Whole Slide Imaging via Dual-Shot Deep Autofocusing. IEEE Transactions on Computational Imaging, 2021, 7, 124-136.	2.6	7
42	Robust Stereo Matching Combining SIFT Descriptor with NCC under MRF Framework. , 2010, , .		6
43	Sparse representation based visual element analysis. , 2011, , .		6
44	Multi-Task Interaction Learning for Spatospectral Image Super-Resolution. IEEE Transactions on Image Processing, 2022, 31, 2950-2961.	6.0	6
45	Image interpolation via regularized local linear regression. , 2010, , .		5
46	Transductive Regression with Local and Global Consistency for Image Super-Resolution. , 2011, , .		5
47	Joint gaze-correction and beautification of DIBR-synthesized human face via dual sparse coding. , 2014, , .		5
48	Compressed Image Restoration via External-Image Assisted Band Adaptive PCA Model Learning. , 2018, , .		5
49	Semi-Supervised Graph Convolutional Hashing Network For Large-Scale Cross-Modal Retrieval. , 2020, , .		5
50	NormalNet: Learning-Based Mesh Normal Denoising via Local Partition Normalization. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4697-4710.	5.6	5
51	Multi-scale Spatial Error Concealment via Hybrid Bayesian Regression. , 2012, , .		4
52	Image Super-Resolution via Hierarchical and Collaborative Sparse Representation. , 2013, , .		4
53	Quality assessment for out-of-focus blurred images. , 2015, , .		4
54	Joint Gaze Correction and Face Beautification for Conference Video Using Dual Sparsity Prior. IEEE Transactions on Industrial Electronics, 2019, 66, 9601-9611.	5.2	4

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55	BaMBNet: A Blur-Aware Multi-Branch Network for Dual-Pixel Defocus Deblurring. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 878-892.	8.5	4
56	Improved low delay distributed video coding. , 2009, , .		3
57	Low bit-rate video coding via mode-dependent adaptive regression for wireless visual communications. , 2012, , .		3
58	Progressive Image Restoration through Hybrid Graph Laplacian Regularization. , 2013, , .		3
59	Sparsity-based joint gaze correction and face beautification for conferencing video. , 2015, , .		3
60	Model-based low bit-rate video coding for resource-deficient wireless visual communication. Neurocomputing, 2015, 162, 180-190.	3.5	3
61	Depth Image Denoising via Collaborative Graph Fourier Transform. Communications in Computer and Information Science, 2018, , 128-137.	0.4	3
62	Joint learning for side information and correlation model based on linear regression model in distributed video coding. , 2009, , .		2
63	Side information extrapolation with temporal and spatial consistency. , 2011, , .		2
64	Bidirectional-isomorphic manifold learning at image semantic understanding & representation. Multimedia Tools and Applications, 2013, 64, 53-76.	2.6	2
65	Spatial error concealment via model based coupled sparse representation. , 2013, , .		2
66	Heatmap-Aware Pyramid Face Hallucination. , 2021, , .		2
67	Mesh Denoising with Local Guided Normal Filtering and Non-local Similarity. Communications in Computer and Information Science, 2017, , 176-184.	0.4	2
68	Local adaptive learning and fusion for side information interpolation in distributed video coding. , 2009, , .		1
69	Multi-hypothesis based multi-view distributed video coding. , 2009, , .		1
70	Two-pass reconstruction in distributed video coding. , 2009, , .		1
71	Exploring statistical properties for semantic annotation: sparse distributed and convergent assumptions for keywords. , 2010, , .		1
72	Visual saliency as sequential eye fixation probability. , 2010, , .		1

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73	Web image interpolation via weighted total least squares regression. , 2012, , .		1
74	Color-Guided Depth Map Super-Resolution via Joint Graph Laplacian and Gradient Consistency Regularization. , 2018, , .		1
75	Noise-Aware Super-Resolution of Depth Maps Via Graph-Based Plug-And-Play Framework. , 2018, , .		1
76	Zero-Shot Multi-Focus Image Fusion. , 2021, , .		1
77	Improving Hyperspectral Super-Resolution via Heterogeneous Knowledge Distillation. , 2021, , .		1
78	Self-Supervised Monocular Depth Estimation via Discrete Strategy and Uncertainty. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1307-1310.	8.5	1
79	Quantization bin matching for cloud storage of JPEG images. , 2016, , .		0