

Xin Li

List of Publications by Year in descending order

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Version: 2024-02-01

145
papers

8,271
citations

185998

28
h-index

82410

72
g-index

149
all docs

149
docs citations

149
times ranked

5247
citing authors

#	ARTICLE	IF	CITATIONS
1	New edge-directed interpolation. IEEE Transactions on Image Processing, 2001, 10, 1521-1527.	6.0	1,667
2	Nonlocally Centralized Sparse Representation for Image Restoration. IEEE Transactions on Image Processing, 2013, 22, 1620-1630.	6.0	1,248
3	Nonlocal Image Restoration With Bilateral Variance Estimation: A Low-Rank Approach. IEEE Transactions on Image Processing, 2013, 22, 700-711.	6.0	605
4	Compressive Sensing via Nonlocal Low-Rank Regularization. IEEE Transactions on Image Processing, 2014, 23, 3618-3632.	6.0	454
5	Hyperspectral Image Super-Resolution via Non-Negative Structured Sparse Representation. IEEE Transactions on Image Processing, 2016, 25, 2337-2352.	6.0	397
6	Sparsity-based image denoising via dictionary learning and structural clustering. , 2011, , .		325
7	Color demosaicking by local directional interpolation and nonlocal adaptive thresholding. Journal of Electronic Imaging, 2011, 20, 023016.	0.5	243
8	Image demosaicing: a systematic survey. Proceedings of SPIE, 2008, , .	0.8	232
9	Edge-directed prediction for lossless compression of natural images. IEEE Transactions on Image Processing, 2001, 10, 813-817.	6.0	207
10	Demosaicing by successive approximation. IEEE Transactions on Image Processing, 2005, 14, 370-379.	6.0	166
11	Image Restoration via Simultaneous Sparse Coding: Where Structured Sparsity Meets Gaussian Scale Mixture. International Journal of Computer Vision, 2015, 114, 217-232.	10.9	163
12	Novel sequential error-concealment techniques using orientation adaptive interpolation. IEEE Transactions on Circuits and Systems for Video Technology, 2002, 12, 857-864.	5.6	136
13	Pedestrian detection and tracking in infrared imagery using shape and appearance. Computer Vision and Image Understanding, 2007, 106, 288-299.	3.0	113
14	Model-Guided Deep Hyperspectral Image Super-Resolution. IEEE Transactions on Image Processing, 2021, 30, 5754-5768.	6.0	88
15	Automated Depression Diagnosis Based on Facial Dynamic Analysis and Sparse Coding. IEEE Transactions on Information Forensics and Security, 2015, 10, 1432-1441.	4.5	86
16	DeepAM: a heterogeneous deep learning framework for intelligent malware detection. Knowledge and Information Systems, 2018, 54, 265-285.	2.1	81
17	Deep Spatial Spectral Representation Learning for Hyperspectral Image Denoising. IEEE Transactions on Computational Imaging, 2019, 5, 635-648.	2.6	77
18	Multispectral Iris Analysis: A Preliminary Study. , 0, , .		74

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19	NM-Net: Mining Reliable Neighbors for Robust Feature Correspondences. , 2019, , .		73
20	Image reconstruction with locally adaptive sparsity and nonlocal robust regularization. Signal Processing: Image Communication, 2012, 27, 1109-1122.	1.8	69
21	Depth map denoising using graph-based transform and group sparsity. , 2013, , .		68
22	Color-Guided Depth Recovery via Joint Local Structural and Nonlocal Low-Rank Regularization. IEEE Transactions on Multimedia, 2017, 19, 293-301.	5.2	66
23	Image Recovery Via Hybrid Sparse Representations: A Deterministic Annealing Approach. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 953-962.	7.3	64
24	Classification and mapping of urban canyon geometry using Google Street View images and deep multitask learning. Building and Environment, 2020, 167, 106424.	3.0	61
25	Low-Rank Tensor Approximation with Laplacian Scale Mixture Modeling for Multiframe Image Denoising. , 2015, , .		57
26	Depth map compression using multi-resolution graph-based transform for depth-image-based rendering. , 2012, , .		54
27	Blind image quality assessment. , 0, , .		48
28	Patch-Based Video Processing: A Variational Bayesian Approach. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 27-40.	5.6	45
29	Design of an Autonomous Precision Pollination Robot. , 2018, , .		41
30	Facial Expression Recognition Influenced by Human Aging. IEEE Transactions on Affective Computing, 2013, 4, 291-298.	5.7	39
31	Spatially adaptive image denoising under overcomplete expansion. , 0, , .		38
32	Geometry-Adaptive Block Partitioning for Video Coding. , 2007, , .		37
33	Accurate and Lightweight Image Super-Resolution With Model-Guided Deep Unfolding Network. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 240-252.	7.3	33
34	Fine-Granularity and Spatially-Adaptive Regularization for Projection-Based Image Deblurring. IEEE Transactions on Image Processing, 2011, 20, 971-983.	6.0	30
35	Social Media for Opioid Addiction Epidemiology. , 2017, , .		30
36	Image Super-Resolution With Parametric Sparse Model Learning. IEEE Transactions on Image Processing, 2018, 27, 4638-4650.	6.0	30

#	ARTICLE	IF	CITATIONS
37	Deep Hyperspectral Image Fusion Network With Iterative Spatio-Spectral Regularization. IEEE Transactions on Computational Imaging, 2022, 8, 201-214.	2.6	30
38	Edge-Directed Error Diffusion Halftoning. IEEE Signal Processing Letters, 2006, 13, 688-690.	2.1	29
39	Your Style Your Identity: Leveraging Writing and Photography Styles for Drug Trafficker Identification in Darknet Markets over Attributed Heterogeneous Information Network. , 2019, , .		29
40	Transparent and robust audio data hiding in cepstrum domain. , 0, , .		28
41	3D Face Anti-Spoofing With Factorized Bilinear Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4031-4045.	5.6	28
42	Scalable video compression via overcomplete motion compensated wavelet coding. Signal Processing: Image Communication, 2004, 19, 637-651.	1.8	25
43	Moving Object Detection in Video via Hierarchical Modeling and Alternating Optimization. IEEE Transactions on Image Processing, 2019, 28, 2021-2036.	6.0	24
44	Automatic Construction of Dental Charts for Postmortem Identification. IEEE Transactions on Information Forensics and Security, 2008, 3, 234-246.	4.5	23
45	Robust Tensor Approximation With Laplacian Scale Mixture Modeling for Multiframe Image and Video Denoising. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1435-1448.	7.3	23
46	Sparse-to-Dense Depth Completion Revisited: Sampling Strategy and Graph Construction. Lecture Notes in Computer Science, 2020, , 682-699.	1.0	23
47	Recursive Deep Residual Learning for Single Image Dehazing. , 2018, , .		22
48	Guided deep network for depth map super-resolution: How much can color help?. , 2017, , .		21
49	Video Processing Via Implicit and Mixture Motion Models. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 953-963.	5.6	20
50	New results of phase shifting in the wavelet space. IEEE Signal Processing Letters, 2003, 10, 193-195.	2.1	19
51	Accurate Video Alignment Using Phase Correlation. IEEE Signal Processing Letters, 2006, 13, 737-740.	2.1	19
52	Least-Square Prediction for Backward Adaptive Video Coding. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	19
53	Encoding of facial features by single neurons in the human amygdala and hippocampus. Communications Biology, 2021, 4, 1394.	2.0	19
54	Transparent and robust audio data hiding in subband domain. , 0, , .		18

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55	All-phase motion compensated prediction in the wavelet domain for high performance video coding. , 0, , .		18
56	Intra prediction using template matching with adaptive illumination compensation. , 2008, , .		18
57	Automatic Opioid User Detection from Twitter: Transductive Ensemble Built on Different Meta-graph Based Similarities over Heterogeneous Information Network. , 2018, , .		18
58	Block-based segmentation and adaptive coding for visually lossless compression of scanned documents. , 0, , .		17
59	Layered Representation for Pedestrian Detection and Tracking in Infrared Imagery. , 0, , .		17
60	Robust Pedestrian Tracking and Recognition from FLIR Video: A Unified Approach via Sparse Coding. Sensors, 2014, 14, 11245-11259.	2.1	17
61	Graph-based joint denoising and super-resolution of generalized piecewise smooth images. , 2014, , .		17
62	Subframe Video Synchronization via 3D Phase Correlation. , 2006, , .		16
63	Geometry-Adaptive Block Partitioning for Intra Prediction in Image & Video Coding. , 2007, , .		16
64	SCAN: Spatial Color Attention Networks for Real Single Image Super-Resolution. , 2019, , .		16
65	AIM 2020 Challenge on Video Extreme Super-Resolution: Methods and Results. Lecture Notes in Computer Science, 2020, , 57-81.	1.0	16
66	Image Resolution Enhancement via Data-Driven Parametric Models in the Wavelet Space. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-12.	1.7	15
67	On modeling interchannel dependency for color image denoising. International Journal of Imaging Systems and Technology, 2007, 17, 163-173.	2.7	15
68	Modeling Intra-class Variation for Nonideal Iris Recognition. Lecture Notes in Computer Science, 2005, , 419-427.	1.0	15
69	Image Feature Correspondence Selection: A Comparative Study and a New Contribution. IEEE Transactions on Image Processing, 2020, 29, 3506-3519.	6.0	14
70	Joint Demosaicing and Super-Resolution (JDSR): Network Design and Perceptual Optimization. IEEE Transactions on Computational Imaging, 2020, 6, 968-980.	2.6	14
71	Detection of Genuine and Posed Facial Expressions of Emotion: Databases and Methods. Frontiers in Psychology, 2020, 11, 580287.	1.1	13
72	ICSD. , 2018, , .		11

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73	Review: Posed vs. Genuine Facial Emotion Recognition and Expression in Autism and Implications for Intervention. <i>Frontiers in Psychology</i> , 2021, 12, 653112.	1.1	11
74	On implementing transforms from integers to integers. , 0, , .		10
75	On the importance of source classification in Wyner-Ziv video coding. <i>Proceedings of SPIE</i> , 2008, , .	0.8	10
76	Depth Map Super-Resolution Using Synthesized View Matching for Depth-Image-Based Rendering. , 2012, , .		10
77	Deep Maximum a Posterior Estimator for Video Denoising. <i>International Journal of Computer Vision</i> , 0, , 1.	10.9	10
78	A Flexible Neural Representation of Faces in the Human Brain. <i>Cerebral Cortex Communications</i> , 2020, 1, tgaa055.	0.7	9
79	Deep Neural Network Reveals the World of Autism From a Firstâ€Person Perspective. <i>Autism Research</i> , 2021, 14, 333-342.	2.1	9
80	Distributed coding of multispectral images: a set theoretic approach. , 0, , .		8
81	Lightweight Deep Residue Learning for Joint Color Image Demosaicking and Denoising. , 2018, , .		8
82	Distribution Sensitive Product Quantization. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018, 28, 3504-3515.	5.6	8
83	Radio Frequency Interference (RFI) Detection in Instrumentation Radar Systems: a Deep Learning Approach. , 2019, , .		8
84	Hybrid sparsity learning for image restoration: An iterative and trainable approach. <i>Signal Processing</i> , 2021, 178, 107751.	2.1	8
85	Face spoofing detection under super-realistic 3D wax face attacks. <i>Pattern Recognition Letters</i> , 2021, 145, 103-109.	2.6	8
86	Beyond Network Pruning: a Joint Search-and-Training Approach. , 2020, , .		8
87	Low bit rate image coding in the scale space. , 0, , .		7
88	On exploiting geometric constraint of image wavelet coefficients. <i>IEEE Transactions on Image Processing</i> , 2003, 12, 1378-1387.	6.0	7
89	Super-Resolution for Synthetic Zooming. <i>Eurasip Journal on Advances in Signal Processing</i> , 2006, 2006, 1.	1.0	7
90	The Magic of Nonlocal Peronaâ€Malik Diffusion. <i>IEEE Signal Processing Letters</i> , 2011, 18, 533-534.	2.1	7

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91	dStyle-GAN: Generative Adversarial Network based on Writing and Photography Styles for Drug Identification in Darknet Markets. , 2020, , .		7
92	A neuronal social trait space for first impressions in the human amygdala and hippocampus. Molecular Psychiatry, 2022, 27, 3501-3509.	4.1	7
93	Variational Bayesian image processing on stochastic factor graphs. , 2008, , .		6
94	Exemplar-Based EM-like image denoising via manifold reconstruction. , 2010, , .		6
95	Inverse halftoning with nonlocal regularization. , 2011, , .		6
96	Single Image Super-Resolution Based on Sparse Representation with Adaptive Dictionary Selection. International Journal of Pattern Recognition and Artificial Intelligence, 2016, 30, 1654006.	0.7	6
97	Recursive Image Dehazing via Perceptually Optimized Generative Adversarial Network (POGAN). , 2019, , .		6
98	Bayesian Correlation Filter Learning With Gaussian Scale Mixture Model for Visual Tracking. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3085-3098.	5.6	6
99	Face identity coding in the deep neural network and primate brain. Communications Biology, 2022, 5, .	2.0	6
100	Improved wavelet decoding via set theoretic estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 108-112.	5.6	5
101	A study on the influence of body weight changes on face recognition. , 2014, , .		5
102	Nonlinear image interpolation via deep neural network. , 2017, , .		5
103	On the study of lossless compression of computer generated compound images. , 0, , .		4
104	High-performance resolution-scalable video coding via all-phase motion-compensated prediction of wavelet coefficients. , 2002, , .		4
105	Fast and efficient block motion estimation in the wavelet space. , 0, , .		4
106	Progressive Significance Map and Its Application to Error-Resilient Image Transmission. IEEE Transactions on Image Processing, 2012, 21, 3229-3238.	6.0	4
107	Detecting Opioid Users from Twitter and Understanding Their Perceptions Toward MAT. , 2017, , .		4
108	Accelerating Convolutional Neural Network via Structured Gaussian Scale Mixture Models: A Joint Grouping and Pruning Approach. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 817-827.	7.3	4

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109	Toward blind joint demosaicing and denoising of raw color filter array data. <i>Neurocomputing</i> , 2021, 453, 369-382.	3.5	4
110	Identifying Illicit Drug Dealers on Instagram with Large-scale Multimodal Data Fusion. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2021, 12, 1-23.	2.9	4
111	Deformable Kernel Convolutional Network for Video Extreme Super-Resolution. <i>Lecture Notes in Computer Science</i> , 2020, , 82-98.	1.0	4
112	Detection of Illicit Drug Trafficking Events on Instagram. , 2021, , .		4
113	Two-Dimensional Wiener Filters for Error Resilient Time Domain Lapped Transform. , 0, , .		3
114	AN adaptive L_1 & L_2 hybrid error model to super-resolution. , 2010, , .		3
115	Image restoration via Bayesian structured sparse coding. , 2014, , .		3
116	Fast and Accurate Segmentation of Dental X-Ray Records. <i>Lecture Notes in Computer Science</i> , 2005, , 688-696.	1.0	3
117	Rate-distortion optimized image coding via least square estimation quantization (LS-EQ). , 0, , .		2
118	Video Modeling via Spatio-Temporal Adaptive Localized Learning (STALL). , 2006, , .		2
119	Directional interpolation of noisy images. , 2008, , .		2
120	Collective sensing: a fixed-point approach in the metric space. , 2010, , .		2
121	Sparsity-based image deblurring with locally adaptive and nonlocally robust regularization. , 2011, , .		2
122	Image Processing at Your Fingertips: The New Horizon of Mobile Imaging. <i>Academic Press Library in Signal Processing</i> , 2014, , 249-264.	0.8	2
123	Style-Based Unsupervised Learning for Real-World Face Image Super-Resolution. , 0, , .		2
124	Toward semantic image inpainting: where global context meets local geometry. <i>Journal of Electronic Imaging</i> , 2021, 30, .	0.5	2
125	Robust subspace clustering network with dual-domain regularization. <i>Pattern Recognition Letters</i> , 2021, 149, 44-50.	2.6	2
126	Shrinkage function and its applications in matrix approximation. <i>Electronic Journal of Linear Algebra</i> , 0, 32, 163-171.	0.6	2

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127	Embedded coding of palette images in the topological space. , 0, , .		1
128	Efficient motion field representation in the wavelet domain. , 0, , .		1
129	Parallel and Distributed Audio Concealment using Nonlocal Sparse Representations. , 2007, , .		1
130	Nonlocal Regularized Algebraic Reconstruction Techniques for MRI: An Experimental Study. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	1
131	Image assisted upsampling of depth map via nonlocal similarity. , 2014, , .		1
132	Learning Parametric Sparse Models for Heavy Noisy Removal From Images. IEEE Access, 2018, 6, 15823-15834.	2.6	1
133	Sparsity Based Nonlocal Image Restoration: An Alternating Optimization Approach. , 2018, , 157-176.		1
134	Sparsity-Based Denoising of Photographic Images: From Model-Based to Data-Driven. Advances in Computer Vision and Pattern Recognition, 2018, , 37-62.	0.9	1
135	Patch-Based Image Processing: From Dictionary Learning to Structural Clustering. , 0, , 234-261.		1
136	A Fast and Efficient Topological Coding Algorithm for Compound Images. Eurasip Journal on Advances in Signal Processing, 2003, 2003, 1.	1.0	0
137	Contour Adaptive Image Coding. , 0, , .		0
138	Superresolution of text from nonideal video. , 2006, , .		0
139	Symmetric Disparity Estimation in Distributed Coding of Stereo Images. , 2006, , .		0
140	PATCH-BASED NONLOCAL DENOISING FOR MRI AND ULTRASOUND IMAGES. , 2007, , .		0
141	Video Modeling by Spatio-Temporal Resampling and Bayesian Fusion. , 2007, , .		0
142	A Fixed Point Approach to Analysis and Optimization of Motion Compensated Predictive Coding. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 1096-1100.	7.3	0
143	Blind restoration of very-high-ISO photos via low-rank methods. , 2014, , .		0
144	Image disparity in cross-spectral face recognition: mitigating camera and atmospheric effects. , 2016, , .		0

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145	Learning 3D Faces from Photo-Realistic Facial Synthesis. , 2020, , .		0