Xin Li

List of Publications by Year
in descending order

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	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
2	Deep Hyperspectral Image Fusion Network With Iterative Spatio-Spectral Regularization. IEEE Transactions on Computational Imaging, 2022, 8, 201-214.	2.6	30
3	Face identity coding in the deep neural network and primate brain. Communications Biology, 2022, 5, .	2.0	6
4	A neuronal social trait space for first impressions in the human amygdala and hippocampus. Molecular Psychiatry, 2022, 27, 3501-3509.	4.1	7
5	Hybrid sparsity learning for image restoration: An iterative and trainable approach. Signal Processing, 2021, 178, 107751.	2.1	8
6	Deep Neural Network Reveals the World of Autism From a First‐Person Perspective. Autism Research, 2021, 14, 333-342.	2.1	9
7	Model-Guided Deep Hyperspectral Image Super-Resolution. IEEE Transactions on Image Processing, 2021, 30, 5754-5768.	6.0	88
8	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
9	Toward semantic image inpainting: where global context meets local geometry. Journal of Electronic Imaging, 2021, 30, .	0.5	2
10	Face spoofing detection under super-realistic 3D wax face attacks. Pattern Recognition Letters, 2021, 145, 103-109.	2.6	8
11	Review: Posed vs. Genuine Facial Emotion Recognition and Expression in Autism and Implications for Intervention. Frontiers in Psychology, 2021, 12, 653112.	1.1	11
12	Robust subspace clustering network with dual-domain regularization. Pattern Recognition Letters, 2021, 149, 44-50.	2.6	2
13	Toward blind joint demosaicing and denoising of raw color filter array data. Neurocomputing, 2021, 453, 369-382.	3.5	4
14	Identifying Illicit Drug Dealers on Instagram with Large-scale Multimodal Data Fusion. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-23.	2.9	4
15	3D Face Anti-Spoofing With Factorized Bilinear Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4031-4045.	5.6	28
16	Detection of Illicit Drug Trafficking Events on Instagram. , 2021, , .		4
17	Encoding of facial features by single neurons in the human amygdala and hippocampus. Communications Biology, 2021, 4, 1394.	2.0	19
18	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

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19	Image Feature Correspondence Selection: A Comparative Study and a New Contribution. IEEE Transactions on Image Processing, 2020, 29, 3506-3519.	6.0	14
20	A Flexible Neural Representation of Faces in the Human Brain. Cerebral Cortex Communications, 2020, 1, tgaa055.	0.7	9
21	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
22	Joint Demosaicing and Super-Resolution (JDSR): Network Design and Perceptual Optimization. IEEE Transactions on Computational Imaging, 2020, 6, 968-980.	2.6	14
23	Detection of Genuine and Posed Facial Expressions of Emotion: Databases and Methods. Frontiers in Psychology, 2020, 11, 580287.	1.1	13
24	dStyle-GAN: Generative Adversarial Network based on Writing and Photography Styles for Drug Identification in Darknet Markets. , 2020, , .		7
25	Sparse-to-Dense Depth Completion Revisited: Sampling Strategy and Graph Construction. Lecture Notes in Computer Science, 2020, , 682-699.	1.0	23
26	AIM 2020 Challenge on Video Extreme Super-Resolution: Methods and Results. Lecture Notes in Computer Science, 2020, , 57-81.	1.0	16
27	Deformable Kernel Convolutional Network for Video Extreme Super-Resolution. Lecture Notes in Computer Science, 2020, , 82-98.	1.0	4
28	Beyond Network Pruning: a Joint Search-and-Training Approach. , 2020, , .		8
29	Learning 3D Faces from Photo-Realistic Facial Synthesis. , 2020, , .		0
30	Radio Frequency Interference (RFI) Detection in Instrumentation Radar Systems: a Deep Learning Approach. , 2019, , .		8
31	Your Style Your Identity: Leveraging Writing and Photography Styles for Drug Trafficker Identification in Darknet Markets over Attributed Heterogeneous Information Network. , 2019, , .		29
32	Deep Spatialâ€"Spectral Representation Learning for Hyperspectral Image Denoising. IEEE Transactions on Computational Imaging, 2019, 5, 635-648.	2.6	77
33	Recursive Image Dehazing via Perceptually Optimized Generative Adversarial Network (POGAN). , 2019, , .		6
34	SCAN: Spatial Color Attention Networks for Real Single Image Super-Resolution. , 2019, , .		16
35	NM-Net: Mining Reliable Neighbors for Robust Feature Correspondences. , 2019, , .		73
36	Moving Object Detection in Video via Hierarchical Modeling and Alternating Optimization. IEEE Transactions on Image Processing, 2019, 28, 2021-2036.	6.0	24

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37	Learning Parametric Sparse Models for Heavy Noisy Removal From Images. IEEE Access, 2018, 6, 15823-15834.	2.6	1
38	DeepAM: a heterogeneous deep learning framework for intelligent malware detection. Knowledge and Information Systems, 2018, 54, 265-285.	2.1	81
39	Sparsity Based Nonlocal Image Restoration: An Alternating Optimization Approach. , 2018, , 157-176.		1
40	Recursive Deep Residual Learning for Single Image Dehazing. , 2018, , .		22
41	ICSD. , 2018, , .		11
42	Design of an Autonomous Precision Pollination Robot. , 2018, , .		41
43	Lightweight Deep Residue Learning for Joint Color Image Demosaicking and Denoising. , 2018, , .		8
44	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
45	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
46	Image Super-Resolution With Parametric Sparse Model Learning. IEEE Transactions on Image Processing, 2018, 27, 4638-4650.	6.0	30
47	Distribution Sensitive Product Quantization. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3504-3515.	5.6	8
48	Automatic Opioid User Detection from Twitter: Transductive Ensemble Built on Different Meta-graph Based Similarities over Heterogeneous Information Network. , 2018, , .		18
49	Color-Guided Depth Recovery via Joint Local Structural and Nonlocal Low-Rank Regularization. IEEE Transactions on Multimedia, 2017, 19, 293-301.	5.2	66
50	Guided deep network for depth map super-resolution: How much can color help?. , 2017, , .		21
51	Detecting Opioid Users from Twitter and Understanding Their Perceptions Toward MAT. , 2017, , .		4
52	Social Media for Opioid Addiction Epidemiology. , 2017, , .		30
53	Nonlinear image interpolation via deep neural network. , 2017, , .		5
54	Hyperspectral Image Super-Resolution via Non-Negative Structured Sparse Representation. IEEE Transactions on Image Processing, 2016, 25, 2337-2352.	6.0	397

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55	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
56	Image disparity in cross-spectral face recognition: mitigating camera and atmospheric effects. , 2016, , .		0
57	Low-Rank Tensor Approximation with Laplacian Scale Mixture Modeling for Multiframe Image Denoising. , 2015, , .		57
58	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
59	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
60	Compressive Sensing via Nonlocal Low-Rank Regularization. IEEE Transactions on Image Processing, 2014, 23, 3618-3632.	6.0	454
61	Robust Pedestrian Tracking and Recognition from FLIR Video: A Unified Approach via Sparse Coding. Sensors, 2014, 14, 11245-11259.	2.1	17
62	Image assisted upsampling of depth map via nonlocal similarity. , 2014, , .		1
63	A study on the influence of body weight changes on face recognition. , 2014, , .		5
64	Image restoration via Bayesian structured sparse coding. , 2014, , .		3
65	Graph-based joint denoising and super-resolution of generalized piecewise smooth images. , 2014, , .		17
66	Image Processing at Your Fingertips: The New Horizon of Mobile Imaging. Academic Press Library in Signal Processing, 2014, , 249-264.	0.8	2
67	Blind restoration of very-high-ISO photos via low-rank methods. , 2014, , .		0
68	Nonlocal Image Restoration With Bilateral Variance Estimation: A Low-Rank Approach. IEEE Transactions on Image Processing, 2013, 22, 700-711.	6.0	605
69	Facial Expression Recognition Influenced by Human Aging. IEEE Transactions on Affective Computing, 2013, 4, 291-298.	5.7	39
70	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
71	Depth map denoising using graph-based transform and group sparsity. , 2013, , .		68
72	Nonlocally Centralized Sparse Representation for Image Restoration. IEEE Transactions on Image Processing, 2013, 22, 1620-1630.	6.0	1,248

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73	Nonlocal Regularized Algebraic Reconstruction Techniques for MRI: An Experimental Study. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	1
74	Image reconstruction with locally adaptive sparsity and nonlocal robust regularization. Signal Processing: Image Communication, 2012, 27, 1109-1122.	1.8	69
75	Depth map compression using multi-resolution graph-based transform for depth-image-based rendering. , 2012, , .		54
76	Depth Map Super-Resolution Using Synthesized View Matching for Depth-Image-Based Rendering. , 2012, , .		10
77	Progressive Significance Map and Its Application to Error-Resilient Image Transmission. IEEE Transactions on Image Processing, 2012, 21, 3229-3238.	6.0	4
78	The Magic of Nonlocal Perona–Malik Diffusion. IEEE Signal Processing Letters, 2011, 18, 533-534.	2.1	7
79	Color demosaicking by local directional interpolation andÂnonlocal adaptive thresholding. Journal of Electronic Imaging, 2011, 20, 023016.	0.5	243
80	Sparsity-based image denoising via dictionary learning and structural clustering. , 2011, , .		325
81	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
82	Fine-Granularity and Spatially-Adaptive Regularization for Projection-Based Image Deblurring. IEEE Transactions on Image Processing, 2011, 20, 971-983.	6.0	30
83	Sparsity-based image deblurring with locally adaptive and nonlocally robust regularization. , 2011, , .		2
84	Inverse halftoning with nonlocal regularization. , 2011, , .		6
85	Collective sensing: a fixed-point approach in the metric space. , 2010, , .		2
86	AN adaptive L$_1$–L$_2$ hybrid error model to super-resolution. , 2010, , .		3
87	Exemplar-Based EM-like image denoising via manifold reconstruction. , 2010, , .		6
88	Patch-Based Video Processing: A Variational Bayesian Approach. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 27-40.	5.6	45
89	Automatic Construction of Dental Charts for Postmortem Identification. IEEE Transactions on Information Forensics and Security, 2008, 3, 234-246.	4.5	23
90	Intra prediction using template matching with adaptive illumination compensation. , 2008, , .		18

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91	Directional interpolation of noisy images. , 2008, , .		2
92	Variational Bayesian image processing on stochastic factor graphs. , 2008, , .		6
93	Image demosaicing: a systematic survey. Proceedings of SPIE, 2008, , .	0.8	232
94	On the importance of source classification in Wyner-Ziv video coding. Proceedings of SPIE, 2008, , .	0.8	10
95	Geometry-Adaptive Block Partitioning for Video Coding. , 2007, , .		37
96	PATCH-BASED NONLOCAL DENOISING FOR MRI AND ULTRASOUND IMAGES. , 2007, , .		0
97	Parallel and Distributed Audio Concealment using Nonlocal Sparse Representations. , 2007, , .		1
98	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
99	Video Processing Via Implicit and Mixture Motion Models. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 953-963.	5.6	20
100	Video Modeling by Spatio-Temporal Resampling and Bayesian Fusion. , 2007, , .		0
101	Geometry-Adaptive Block Partitioning for Intra Prediction in Image & Video Coding. , 2007, , .		16
102	On modeling interchannel dependency for color image denoising. International Journal of Imaging Systems and Technology, 2007, 17, 163-173.	2.7	15
103	Pedestrian detection and tracking in infrared imagery using shape and appearance. Computer Vision and Image Understanding, 2007, 106, 288-299.	3.0	113
104	Accurate Video Alignment Using Phase Correlation. IEEE Signal Processing Letters, 2006, 13, 737-740.	2.1	19
105	Edge-Directed Error Diffusion Halftoning. IEEE Signal Processing Letters, 2006, 13, 688-690.	2.1	29
106	Super-Resolution for Synthetic Zooming. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	7
107	Least-Square Prediction for Backward Adaptive Video Coding. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.0	19
108	Superresolution of text from nonideal video. , 2006, , .		0

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109	Subframe Video Synchronization via 3D Phase Correlation. , 2006, , .		16
110	Video Modeling via Spatio-Temporal Adaptive Localized Learning (STALL). , 2006, , .		2
111	Symmetric Disparity Estimation in Distributed Coding of Stereo Images. , 2006, , .		0
112	Improved wavelet decoding via set theoretic estimation. IEEE Transactions on Circuits and Systems for Video Technology, 2005, 15, 108-112.	5.6	5
113	Demosaicing by successive approximation. IEEE Transactions on Image Processing, 2005, 14, 370-379.	6.0	166
114	Modeling Intra-class Variation for Nonideal Iris Recognition. Lecture Notes in Computer Science, 2005, , 419-427.	1.0	15
115	Fast and Accurate Segmentation of Dental X-Ray Records. Lecture Notes in Computer Science, 2005, , 688-696.	1.0	3
116	Scalable video compression via overcomplete motion compensated wavelet coding. Signal Processing: Image Communication, 2004, 19, 637-651.	1.8	25
117	On exploiting geometric constraint of image wavelet coefficients. IEEE Transactions on Image Processing, 2003, 12, 1378-1387.	6.0	7
118	New results of phase shifting in the wavelet space. IEEE Signal Processing Letters, 2003, 10, 193-195.	2.1	19
119	A Fast and Efficient Topological Coding Algorithm for Compound Images. Eurasip Journal on Advances in Signal Processing, 2003, 2003, 1.	1.0	0
120	High-performance resolution-scalable video coding via all-phase motion-compensated prediction of wavelet coefficients. , 2002, , .		4
121	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
122	New edge-directed interpolation. IEEE Transactions on Image Processing, 2001, 10, 1521-1527.	6.0	1,667
123	Edge-directed prediction for lossless compression of natural images. IEEE Transactions on Image Processing, 2001, 10, 813-817.	6.0	207
124	On implementing transforms from integers to integers. , 0, , .		10
125	Rate-distortion optimized image coding via least square estimation quantization (LS-EQ). , 0, , .		2
126	Spatially adaptive image denoising under overcomplete expansion. , 0, , .		38

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127	Transparent and robust audio data hiding in cepstrum domain. , 0, , .		28
128	Transparent and robust audio data hiding in subband domain. , 0, , .		18
129	All-phase motion compensated prediction in the wavelet domain for high performance video coding. , 0, , .		18
130	Block-based segmentation and adaptive coding for visually lossless compression of scanned documents. , 0, , .		17
131	On the study of lossless compression of computer generated compound images. , 0, , .		4
132	Low bit rate image coding in the scale space. , 0, , .		7
133	Blind image quality assessment. , 0, , .		48
134	Embedded coding of palette images in the topological space. , 0, , .		1
135	Efficient motion field representation in the wavelet domain. , 0, , .		1
136	Fast and efficient block motion estimation in the wavelet space. , 0, , .		4
137	Distributed coding of multispectral images: a set theoretic approach. , 0, , .		8
138	Layered Representation for Pedestrian Detection and Tracking in Infrared Imagery. , 0, , .		17
139	Contour Adaptive Image Coding. , 0, , .		0
140	Multispectral Iris Analysis: A Preliminary Study51. , 0, , .		74
141	Two-Dimensional Wiener Filters for Error Resilient Time Domain Lapped Transform. , 0, , .		3
142	Style-Based Unsupervised Learning for Real-World Face Image Super-Resolution. , 0, , .		2
143	Deep Maximum a Posterior Estimator for Video Denoising. International Journal of Computer Vision, 0, , 1.	10.9	10
144	Shrinkage function and its applications in matrix approximation. Electronic Journal of Linear Algebra, 0, 32, 163-171.	0.6	2

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145	Patch-Based Image Processing: From Dictionary Learning to Structural Clustering. , 0, , 234-261.		1