

# Xiaolin Wu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2443953/publications.pdf>

Version: 2024-02-01

126  
papers

2,075  
citations

361045

20  
h-index

276539

41  
g-index

127  
all docs

127  
docs citations

127  
times ranked

1454  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of LSB steganography via sample pair analysis. IEEE Transactions on Signal Processing, 2003, 51, 1995-2007.	3.2	377
2	Primary-Consistent Soft-Decision Color Demosaicking for Digital Cameras (Patent Pending). IEEE Transactions on Image Processing, 2004, 13, 1263-1274.	6.0	139
3	Generalized Equalization Model for Image Enhancement. IEEE Transactions on Multimedia, 2014, 16, 68-82.	5.2	113
4	A Linear Programming Approach for Optimal Contrast-Tone Mapping. IEEE Transactions on Image Processing, 2011, 20, 1262-1272.	6.0	109
5	Persistent Polyfunctional Chimeric Antigen Receptor T Cells That Target Glypican 3 Eliminate Orthotopic Hepatocellular Carcinomas in Mice. Gastroenterology, 2020, 158, 2250-2265.e20.	0.6	97
6	Low Bit-Rate Image Compression via Adaptive Down-Sampling and Constrained Least Squares Upconversion. IEEE Transactions on Image Processing, 2009, 18, 552-561.	6.0	82
7	Adaptive Sequential Prediction of Multidimensional Signals With Applications to Lossless Image Coding. IEEE Transactions on Image Processing, 2011, 20, 36-42.	6.0	59
8	Temporal Psychovisual Modulation: A New Paradigm of Information Display [Exploratory DSP]. IEEE Signal Processing Magazine, 2013, 30, 136-141.	4.6	59
9	Nonlocal back-projection for adaptive image enlargement. , 2009, , .		51
10	A new framework of LSB steganalysis of digital media. IEEE Transactions on Signal Processing, 2005, 53, 3936-3947.	3.2	50
11	Model-Assisted Adaptive Recovery of Compressed Sensing with Imaging Applications. IEEE Transactions on Image Processing, 2012, 21, 451-458.	6.0	42
12	Multiresolution Modeling and Estimation of Multisensor Data. IEEE Transactions on Signal Processing, 2004, 52, 3170-3182.	3.2	39
13	Modeling Power-Constrained Optimal Backlight Dimming for Color Displays. Journal of Display Technology, 2013, 9, 656-665.	1.3	39
14	Integration in oncogenes plays only a minor role in determining the in vivo distribution of HIV integration sites before or during suppressive antiretroviral therapy. PLoS Pathogens, 2021, 17, e1009141.	2.1	36
15	Learning-Based Restoration of Backlit Images. IEEE Transactions on Image Processing, 2018, 27, 976-986.	6.0	35
16	Image Enhancement by Entropy Maximization and Quantization Resolution Upconversion. IEEE Transactions on Image Processing, 2016, 25, 4815-4828.	6.0	34
17	Wavelet coding of volumetric medical images for high throughput and operability. IEEE Transactions on Medical Imaging, 2005, 24, 719-727.	5.4	33
18	Model-Guided Adaptive Recovery of Compressive Sensing. , 2009, , .		31

#	ARTICLE	IF	CITATIONS
19	Efficient Multiple-Description Image Coding Using Directional Lifting-Based Transform. IEEE Transactions on Circuits and Systems for Video Technology, 2008, 18, 646-656.	5.6	28
20	Defeating Camcorder Piracy by Temporal Psychovisual Modulation. Journal of Display Technology, 2014, 10, 754-757.	1.3	25
21	Monotonicity-Based Fast Algorithms for MAP Estimation of Markov Sequences Over Noisy Channels. IEEE Transactions on Information Theory, 2004, 50, 1539-1544.	1.5	23
22	Image Coding on Quincunx Lattice with Adaptive Lifting and Interpolation. , 2007, , .		23
23	Temporal color video demosaicking via motion estimation and data fusion. IEEE Transactions on Circuits and Systems for Video Technology, 2006, 16, 231-240.	5.6	21
24	Optimal Index Assignment for Multiple Description Lattice Vector Quantization. , 0, , .		21
25	An analytical pipeline for identifying and mapping the integration sites of HIV and other retroviruses. BMC Genomics, 2020, 21, 216.	1.2	21
26	Lagrangian Optimization of Two-Description Scalar Quantizers. IEEE Transactions on Information Theory, 2007, 53, 3990-4012.	1.5	20
27	On multirate optimality of JPEG2000 code stream. IEEE Transactions on Image Processing, 2005, 14, 2012-2023.	6.0	17
28	On Properties of Locally Optimal Multiple Description Scalar Quantizers With Convex Cells. IEEE Transactions on Information Theory, 2009, 55, 5591-5606.	1.5	17
29	Improvement of Color Video Demosaicking in Temporal Domain. IEEE Transactions on Image Processing, 2006, 15, 3138-3151.	6.0	16
30	Rainbow Network Flow of Multiple Description Codes. IEEE Transactions on Information Theory, 2008, 54, 4565-4574.	1.5	16
31	Context Quantization by Minimum Adaptive Code Length. , 2007, , .		15
32	Achieving the rate-distortion bound with low-density generator matrix codes. IEEE Transactions on Communications, 2010, 58, 1643-1653.	4.9	14
33	Color demosaicking with sparse representations. , 2010, , .		14
34	Radiation Drives the Evolution of Orthotopic Xenografts Initiated from Glioblastoma Stem-like Cells. Cancer Research, 2019, 79, 6032-6043.	0.4	14
35	Attention-guided Image Compression by Deep Reconstruction of Compressive Sensed Saliency Skeleton. , 2021, , .		14
36	Sparsity Fine Tuning in Wavelet Domain With Application to Compressive Image Reconstruction. IEEE Transactions on Image Processing, 2014, 23, 5249-5262.	6.0	13

#	ARTICLE	IF	CITATIONS
37	Soft binary segmentation-based backlit image enhancement. , 2015, , .		13
38	Lossless compression of color mosaic images. , 0, , .		12
39	Spatial-Temporal Color Video Reconstruction From Noisy CFA Sequence. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 838-847.	5.6	12
40	Ultra High Fidelity Deep Image Decompression With $\ell_1$ -Constrained Compression. IEEE Transactions on Image Processing, 2021, 30, 963-975.	6.0	12
41	Rainbow network problems and multiple description coding. , 2005, , .		11
42	Joint Color Decrosstalk and Demosaicking for CFA Cameras. IEEE Transactions on Image Processing, 2010, 19, 3181-3189.	6.0	11
43	On Cross Correlation Based Discrete Time Delay Estimation. , 0, , .		9
44	Can Lower Resolution Be Better?. Proceedings of the Data Compression Conference, 2008, , .	0.0	9
45	Image enhancement revisited: From first order to second order statistics. , 2013, , .		9
46	Index assignment optimization for joint source-channel MAP decoding. IEEE Transactions on Communications, 2010, 58, 901-910.	4.9	8
47	Improvement of H.264 SVC by model-based adaptive resolution upconversion. , 2010, , .		8
48	Sparsity-based soft decoding of compressed images in transform domain. , 2013, , .		8
49	Multiresolution polygonal approximation of digital curves. , 2004, , .		7
50	Locally Adaptive Rank-Constrained Optimal Tone Mapping. ACM Transactions on Graphics, 2018, 37, 1-10.	4.9	7
51	NLRP3 Inhibition Ameliorates Severe Cutaneous Autoimmune Manifestations in a Mouse Model of Autoimmune Polyendocrinopathy-Candidiasis-Ectodermal Dystrophy“Like Disease. Journal of Investigative Dermatology, 2021, 141, 1404-1415.	0.3	7
52	Rapid Whole Slide Imaging via Dual-Shot Deep Autofocusing. IEEE Transactions on Computational Imaging, 2021, 7, 124-136.	2.6	7
53	High Frequency Detail Accentuation in CNN Image Restoration. IEEE Transactions on Image Processing, 2021, 30, 8836-8846.	6.0	7
54	Context-based Arithmetic Coding Reexamined for DCT Video Compression. , 2007, , .		6

#	ARTICLE	IF	CITATIONS
55	Progressive Quantization of Compressive Sensing Measurements. , 2011, , .		6
56	On Computation of Performance Bounds of Optimal Index Assignment. IEEE Transactions on Communications, 2011, 59, 3229-3233.	4.9	6
57	Optimal Backlight Modulation With Crosstalk Control in Stereoscopic Display. Journal of Display Technology, 2015, 11, 157-164.	1.3	6
58	Data Acquisition and Preparation for Dual-Reference Deep Learning of Image Super-Resolution. IEEE Transactions on Image Processing, 2022, 31, 4393-4404.	6.0	6
59	Image interpolation using texture orientation map and kernel Fisher discriminant. , 2005, , .		5
60	Globally Optimal Uneven Erasure-Protected Multi-Group Packetization of Scalable Codes. , 0, , .		5
61	Length-constrained MAP decoding of variable-length encoded Markov sequences. IEEE Transactions on Communications, 2006, 54, 1259-1266.	4.9	5
62	On Optimal Index Assignment for MAP Decoding of Markov Sequences. , 2006, , .		5
63	Multiple Descriptions in the Wyner-Ziv Setting. , 2006, , .		5
64	A compressive sensing approach of multiple descriptions for network multimedia communication. , 2008, , .		5
65	Resource-Scalable Joint Source-Channel MAP and MMSE Estimation of Multiple Descriptions. IEEE Transactions on Signal Processing, 2009, 57, 279-288.	3.2	5
66	Image interpolation with hidden Markov model. , 2010, , .		5
67	Real-Time Deep Image Retouching Based on Learnt Semantics Dependent Global Transforms. IEEE Transactions on Image Processing, 2021, 30, 7378-7390.	6.0	5
68	On Design of Linear Minimum-Entropy Predictor. , 2007, , .		4
69	Alphabet Partitioning Techniques for Semiadaptive Huffman Coding of Large Alphabets. IEEE Transactions on Communications, 2007, 55, 436-443.	4.9	4
70	Information Flows in Video Coding. , 2010, , .		4
71	LED Backlight Adjustment for Backward-Compatible Stereoscopic Display. IEEE Signal Processing Letters, 2013, 20, 1203-1206.	2.1	4
72	GPU-aided real-time image/video super resolution based on error feedback. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
73	Lagrangian global optimization of two-description scalar quantizers. , 0, , .		3
74	On Global Optimality of Gradient Descent Algorithms for Fixed-Rate Scalar Multiple Description Quantizer Design. , 0, , .		3
75	Edge-Guided Perceptual Image Coding via Adaptive Interpolation. , 2007, , .		3
76	Standard-compliant multiple description image coding by spatial multiplexing and constrained least-squares restoration. , 2008, , .		3
77	Model-based non-linear estimation for adaptive image restoration. , 2009, , .		3
78	Learning-based recovery of compressive sensing with application in multiple description coding. , 2009, , .		3
79	High frame rate video capture by multiple cameras with coded exposure. , 2010, , .		3
80	On sparse representations of color images. , 2011, , .		3
81	High-Fidelity Image Compression for High-Throughput and Energy-Efficient Cameras. , 2011, , .		3
82	Joint segmentation and pairing of multispectral chromosome images. Pattern Analysis and Applications, 2013, 16, 497-506.	3.1	3
83	Real-Time High-Fidelity Compression for Extremely High Frame Rate Video Cameras. IEEE Transactions on Computational Imaging, 2018, 4, 172-180.	2.6	3
84	Circulating MicroRNAs in Relation to Esophageal Adenocarcinoma Diagnosis and Survival. Digestive Diseases and Sciences, 2021, 66, 3831-3841.	1.1	3
85	Buffer size reduction through buffer sharing for streaming applications. , 0, , .		2
86	Joint Source-Channel Decoding of Multiple Description Quantized Markov Sequences. , 0, , .		2
87	A Practical Approach to Joint Network-Source Coding. , 0, , .		2
88	Fast Generalized Motion Estimation and Superresolution. , 2007, , .		2
89	Lossy source coding for non-uniform sources using LDGM codes. , 2008, , .		2
90	Adaptive structured recovery of compressive sensing via piecewise autoregressive modeling. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
91	A hidden Markov model-based methodology for intra-field video deinterlacing. , 2011, , .		2
92	Multiple description video coding against both erasure and bit errors by compressive sensing. , 2011, , .		2
93	Multiple Description Image Coding with Local Random Measurements. , 2014, , .		2
94	Multi-dimensional Average-Interpolating Refinement on Arbitrary Lattices. , 0, , .		1
95	Clustering by principal curve with tree structure. , 0, , .		1
96	Joint Source-Channel Decoding of Multiple Description Quantized and Variable Length Coded Markov Sequences. , 2006, , .		1
97	Index Assignment Optimization for Joint Source-Channel MAP Decoding. , 2006, , .		1
98	On Multi-Stage Sequential Coding of Correlated Sources. , 2007, , .		1
99	Structure Preserving Image Interpolation via Adaptive 2D Autoregressive Modeling. , 2007, , .		1
100	Context-based bias removal of statistical models of wavelet coefficients for image denoising. , 2009, , .		1
101	New Results on Multiple Descriptions in the Wyner-Ziv Setting. IEEE Transactions on Information Theory, 2009, 55, 1701-1708.	1.5	1
102	On $L_{\infty}$ Properties of Multiresolution Scalar Quantizers. IEEE Transactions on Information Theory, 2010, 56, 5805-5810.	1.5	1
103	On Computation of Performance Bounds of Optimal Index Assignment. , 2010, , .		1
104	Down-sampling based embedded compression in video systems. , 2015, , .		1
105	Exaggerated Learning For Clean-And-Sharp Image Restoration. , 2020, , .		1
106	On embedded scalable code stream of minimum expected distortion for variable rate channels. , 0, , .		0
107	Wavelet coding of volumetric medical images with high throughput and operability. , 2004, 2004, 3245-9.		0
108	Temporal color video demosaicking via motion estimation and optimal data fusing. , 0, , .		0

#	ARTICLE	IF	CITATIONS
109	Optimal Multicast with Erasure Correction Coding. , 2006, , .		0
110	Efficient Algorithm for Globally Optimal Uneven Erasure-Protected Packetization of Scalable Code Streams. , 2006, , .		0
111	Multiple Descriptions with Side Informations Also Known At the Encoder. , 2007, , .		0
112	Optimal Media Communication in Capacity Constrained Networks. , 2007, , .		0
113	Trellis Quantization for L <sup>0</sup> -Constrained Compression with Integer Wavelets. , 2008, , .		0
114	Automatic tonal harmonization for multi-spectral mosaics. , 2008, , .		0
115	Compressive-uniform hybrid sensing for image acquisition and communication. , 2009, , .		0
116	Edge-based dynamic ROI coding with standard compliance. , 2009, , .		0
117	Rate-distortion optimized network communication using general MDC. , 2009, , .		0
118	MDL context modeling of images with application to denoising. , 2009, , .		0
119	Joint color decrosstalk and demosaicking for CFA cameras. , 2010, , .		0
120	Live demonstration: Spatial-temporal color video reproduction from noisy CFA sequence track: Digital signal processing. , 2010, , .		0
121	Edge-based image coding at low bit-rate. , 2010, , .		0
122	L <sup>0</sup> -restoration of L <sup>0</sup> -decoded images with context modeling. , 2011, , .		0
123	Context Modeling and Correction of Quantization Errors in Prediction Loop. , 2012, , .		0
124	Optimal backlight scanning for 3D crosstalk reduction in LCD TV. , 2013, , .		0
125	Sparsity fine tuning in wavelet domain with application to compressive image reconstruction. , 2014, , .		0
126	Single image haze removal using Gaussian mixture model and sparse optimization. , 2016, , .		0