

Xiaolin Wu

List of Publications by Year in descending order

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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 | 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 |
| 2 | 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 |
| 3 | Ultra High Fidelity Deep Image Decompression With ℓ_1 -Constrained Compression. IEEE Transactions on Image Processing, 2021, 30, 963-975. | 6.0 | 12 |
| 4 | Circulating MicroRNAs in Relation to Esophageal Adenocarcinoma Diagnosis and Survival. Digestive Diseases and Sciences, 2021, 66, 3831-3841. | 1.1 | 3 |
| 5 | Real-Time Deep Image Retouching Based on Learnt Semantics Dependent Global Transforms. IEEE Transactions on Image Processing, 2021, 30, 7378-7390. | 6.0 | 5 |
| 6 | 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 |
| 7 | Rapid Whole Slide Imaging via Dual-Shot Deep Autofocusing. IEEE Transactions on Computational Imaging, 2021, 7, 124-136. | 2.6 | 7 |
| 8 | High Frequency Detail Accentuation in CNN Image Restoration. IEEE Transactions on Image Processing, 2021, 30, 8836-8846. | 6.0 | 7 |
| 9 | Attention-guided Image Compression by Deep Reconstruction of Compressive Sensed Saliency Skeleton. , 2021, , . | | 14 |
| 10 | Exaggerated Learning For Clean-And-Sharp Image Restoration. , 2020, , . | | 1 |
| 11 | An analytical pipeline for identifying and mapping the integration sites of HIV and other retroviruses. BMC Genomics, 2020, 21, 216. | 1.2 | 21 |
| 12 | 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 |
| 13 | Radiation Drives the Evolution of Orthotopic Xenografts Initiated from Glioblastoma Stem-“like Cells. Cancer Research, 2019, 79, 6032-6043. | 0.4 | 14 |
| 14 | Real-Time High-Fidelity Compression for Extremely High Frame Rate Video Cameras. IEEE Transactions on Computational Imaging, 2018, 4, 172-180. | 2.6 | 3 |
| 15 | Learning-Based Restoration of Backlit Images. IEEE Transactions on Image Processing, 2018, 27, 976-986. | 6.0 | 35 |
| 16 | Locally Adaptive Rank-Constrained Optimal Tone Mapping. ACM Transactions on Graphics, 2018, 37, 1-10. | 4.9 | 7 |
| 17 | Single image haze removal using Gaussian mixture model and sparse optimization. , 2016, , . | | 0 |
| 18 | Image Enhancement by Entropy Maximization and Quantization Resolution Upconversion. IEEE Transactions on Image Processing, 2016, 25, 4815-4828. | 6.0 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Soft binary segmentation-based backlit image enhancement. , 2015, , . | | 13 |
| 20 | Optimal Backlight Modulation With Crosstalk Control in Stereoscopic Display. Journal of Display Technology, 2015, 11, 157-164. | 1.3 | 6 |
| 21 | Down-sampling based embedded compression in video systems. , 2015, , . | | 1 |
| 22 | Sparsity Fine Tuning in Wavelet Domain With Application to Compressive Image Reconstruction. IEEE Transactions on Image Processing, 2014, 23, 5249-5262. | 6.0 | 13 |
| 23 | GPU-aided real-time image/video super resolution based on error feedback. , 2014, , . | | 4 |
| 24 | Defeating Camcorder Piracy by Temporal Psychovisual Modulation. Journal of Display Technology, 2014, 10, 754-757. | 1.3 | 25 |
| 25 | Multiple Description Image Coding with Local Random Measurements. , 2014, , . | | 2 |
| 26 | Sparsity fine tuning in wavelet domain with application to compressive image reconstruction. , 2014, , . | | 0 |
| 27 | Generalized Equalization Model for Image Enhancement. IEEE Transactions on Multimedia, 2014, 16, 68-82. | 5.2 | 113 |
| 28 | Joint segmentation and pairing of multispectral chromosome images. Pattern Analysis and Applications, 2013, 16, 497-506. | 3.1 | 3 |
| 29 | Image enhancement revisited: From first order to second order statistics. , 2013, , . | | 9 |
| 30 | OPTimal backlight scanning for 3D crosstalk reduction in LCD TV. , 2013, , . | | 0 |
| 31 | Modeling Power-Constrained Optimal Backlight Dimming for Color Displays. Journal of Display Technology, 2013, 9, 656-665. | 1.3 | 39 |
| 32 | Sparsity-based soft decoding of compressed images in transform domain. , 2013, , . | | 8 |
| 33 | LED Backlight Adjustment for Backward-Compatible Stereoscopic Display. IEEE Signal Processing Letters, 2013, 20, 1203-1206. | 2.1 | 4 |
| 34 | Temporal Psychovisual Modulation: A New Paradigm of Information Display [Exploratory DSP]. IEEE Signal Processing Magazine, 2013, 30, 136-141. | 4.6 | 59 |
| 35 | Context Modeling and Correction of Quantization Errors in Prediction Loop. , 2012, , . | | 0 |
| 36 | Model-Assisted Adaptive Recovery of Compressed Sensing with Imaging Applications. IEEE Transactions on Image Processing, 2012, 21, 451-458. | 6.0 | 42 |

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| 37 | A hidden Markov model-based methodology for intra-field video deinterlacing. , 2011, , . | | 2 |
| 38 | Progressive Quantization of Compressive Sensing Measurements. , 2011, , . | | 6 |
| 39 | On sparse representations of color images. , 2011, , . | | 3 |
| 40 | On Computation of Performance Bounds of Optimal Index Assignment. IEEE Transactions on Communications, 2011, 59, 3229-3233. | 4.9 | 6 |
| 41 | Adaptive Sequential Prediction of Multidimensional Signals With Applications to Lossless Image Coding. IEEE Transactions on Image Processing, 2011, 20, 36-42. | 6.0 | 59 |
| 42 | A Linear Programming Approach for Optimal Contrast-Tone Mapping. IEEE Transactions on Image Processing, 2011, 20, 1262-1272. | 6.0 | 109 |
| 43 | High-Fidelity Image Compression for High-Throughput and Energy-Efficient Cameras. , 2011, , . | | 3 |
| 44 | L<inf>2</inf> restoration of L<inf>∞</inf>-decoded images with context modeling. , 2011, , . | | 0 |
| 45 | Multiple description video coding against both erasure and bit errors by compressive sensing. , 2011, , . | | 2 |
| 46 | Index assignment optimization for joint source-channel MAP decoding. IEEE Transactions on Communications, 2010, 58, 901-910. | 4.9 | 8 |
| 47 | Achieving the rate-distortion bound with low-density generator matrix codes. IEEE Transactions on Communications, 2010, 58, 1643-1653. | 4.9 | 14 |
| 48 | On L_{∞} Properties of Multiresolution Scalar Quantizers. IEEE Transactions on Information Theory, 2010, 56, 5805-5810. | 1.5 | 1 |
| 49 | Color demosaicking with sparse representations. , 2010, , . | | 14 |
| 50 | Joint color decrosstalk and demosaicking for CFA cameras. , 2010, , . | | 0 |
| 51 | Image interpolation with hidden Markov model. , 2010, , . | | 5 |
| 52 | Live demonstration: Spatial-temporal color video reproduction from noisy CFA sequence track: Digital signal processing. , 2010, , . | | 0 |
| 53 | Edge-based image coding at low bit-rate. , 2010, , . | | 0 |
| 54 | Adaptive structured recovery of compressive sensing via piecewise autoregressive modeling. , 2010, , . | | 2 |

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| 55 | Improvement of H.264 SVC by model-based adaptive resolution upconversion. , 2010, , . | | 8 |
| 56 | High frame rate video capture by multiple cameras with coded exposure. , 2010, , . | | 3 |
| 57 | On Computation of Performance Bounds of Optimal Index Assignment. , 2010, , . | | 1 |
| 58 | 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 |
| 59 | Information Flows in Video Coding. , 2010, , . | | 4 |
| 60 | Joint Color Decrosstalk and Demosaicking for CFA Cameras. IEEE Transactions on Image Processing, 2010, 19, 3181-3189. | 6.0 | 11 |
| 61 | Context-based bias removal of statistical models of wavelet coefficients for image denoising. , 2009, , . | | 1 |
| 62 | Compressive-uniform hybrid sensing for image acquisition and communication. , 2009, , . | | 0 |
| 63 | Model-based non-linear estimation for adaptive image restoration. , 2009, , . | | 3 |
| 64 | New Results on Multiple Descriptions in the Wyner-Ziv Setting. IEEE Transactions on Information Theory, 2009, 55, 1701-1708. | 1.5 | 1 |
| 65 | On Properties of Locally Optimal Multiple Description Scalar Quantizers With Convex Cells. IEEE Transactions on Information Theory, 2009, 55, 5591-5606. | 1.5 | 17 |
| 66 | 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 |
| 67 | Resource-Scalable Joint Source-Channel MAP and MMSE Estimation of Multiple Descriptions. IEEE Transactions on Signal Processing, 2009, 57, 279-288. | 3.2 | 5 |
| 68 | Edge-based dynamic ROI coding with standard compliance. , 2009, , . | | 0 |
| 69 | Nonlocal back-projection for adaptive image enlargement. , 2009, , . | | 51 |
| 70 | Learning-based recovery of compressive sensing with application in multiple description coding. , 2009, , . | | 3 |
| 71 | Rate-distortion optimized network communication using general MDC. , 2009, , . | | 0 |
| 72 | Model-Guided Adaptive Recovery of Compressive Sensing. , 2009, , . | | 31 |

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| 73 | MDL context modeling of images with application to denoising. , 2009, , . | | 0 |
| 74 | Rainbow Network Flow of Multiple Description Codes. IEEE Transactions on Information Theory, 2008, 54, 4565-4574. | 1.5 | 16 |
| 75 | 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 |
| 76 | A compressive sensing approach of multiple descriptions for network multimedia communication. , 2008, , . | | 5 |
| 77 | Trellis Quantization for L [∞] -Constrained Compression with Integer Wavelets. , 2008, , . | | 0 |
| 78 | Standard-compliant multiple description image coding by spatial multiplexing and constrained least-squares restoration. , 2008, , . | | 3 |
| 79 | Lossy source coding for non-uniform sources using LDGM codes. , 2008, , . | | 2 |
| 80 | Automatic tonal harmonization for multi-spectral mosaics. , 2008, , . | | 0 |
| 81 | Can Lower Resolution Be Better?. Proceedings of the Data Compression Conference, 2008, , . | 0.0 | 9 |
| 82 | Context Quantization by Minimum Adaptive Code Length. , 2007, , . | | 15 |
| 83 | Fast Generalized Motion Estimation and Superresolution. , 2007, , . | | 2 |
| 84 | Context-based Arithmetic Coding Reexamined for DCT Video Compression. , 2007, , . | | 6 |
| 85 | Multiple Descriptions with Side Informations Also Known At the Encoder. , 2007, , . | | 0 |
| 86 | On Multi-Stage Sequential Coding of Correlated Sources. , 2007, , . | | 1 |
| 87 | Edge-Guided Perceptual Image Coding via Adaptive Interpolation. , 2007, , . | | 3 |
| 88 | Optimal Media Communication in Capacity Constrained Networks. , 2007, , . | | 0 |
| 89 | Structure Preserving Image Interpolation via Adaptive 2D Autoregressive Modeling. , 2007, , . | | 1 |
| 90 | On Design of Linear Minimum-Entropy Predictor. , 2007, , . | | 4 |

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| 91 | Image Coding on Quincunx Lattice with Adaptive Lifting and Interpolation. , 2007, , . | | 23 |
| 92 | Lagrangian Optimization of Two-Description Scalar Quantizers. IEEE Transactions on Information Theory, 2007, 53, 3990-4012. | 1.5 | 20 |
| 93 | Alphabet Partitioning Techniques for Semiadaptive Huffman Coding of Large Alphabets. IEEE Transactions on Communications, 2007, 55, 436-443. | 4.9 | 4 |
| 94 | 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 |
| 95 | Optimal Multicast with Erasure Correction Coding. , 2006, , . | | 0 |
| 96 | Efficient Algorithm for Globally Optimal Uneven Erasure-Protected Packetization of Scalable Code Streams. , 2006, , . | | 0 |
| 97 | Length-constrained MAP decoding of variable-length encoded Markov sequences. IEEE Transactions on Communications, 2006, 54, 1259-1266. | 4.9 | 5 |
| 98 | Joint Source-Channel Decoding of Multiple Description Quantized and Variable Length Coded Markov Sequences. , 2006, , . | | 1 |
| 99 | Improvement of Color Video Demosaicking in Temporal Domain. IEEE Transactions on Image Processing, 2006, 15, 3138-3151. | 6.0 | 16 |
| 100 | On Optimal Index Assignment for MAP Decoding of Markov Sequences. , 2006, , . | | 5 |
| 101 | Index Assignment Optimization for Joint Source-Channel MAP Decoding. , 2006, , . | | 1 |
| 102 | Multiple Descriptions in the Wyner-Ziv Setting. , 2006, , . | | 5 |
| 103 | Wavelet coding of volumetric medical images for high throughput and operability. IEEE Transactions on Medical Imaging, 2005, 24, 719-727. | 5.4 | 33 |
| 104 | Image interpolation using texture orientation map and kernel Fisher discriminant. , 2005, , . | | 5 |
| 105 | Rainbow network problems and multiple description coding. , 2005, , . | | 11 |
| 106 | On multirate optimality of JPEG2000 code stream. IEEE Transactions on Image Processing, 2005, 14, 2012-2023. | 6.0 | 17 |
| 107 | A new framework of LSB steganalysis of digital media. IEEE Transactions on Signal Processing, 2005, 53, 3936-3947. | 3.2 | 50 |
| 108 | Wavelet coding of volumetric medical images with high throughput and operability. , 2004, 2004, 3245-9. | | 0 |

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| 109 | Multiresolution polygonal approximation of digital curves. , 2004, , . | | 7 |
| 110 | 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 |
| 111 | Primary-Consistent Soft-Decision Color Demosaicking for Digital Cameras (Patent Pending). IEEE Transactions on Image Processing, 2004, 13, 1263-1274. | 6.0 | 139 |
| 112 | Multiresolution Modeling and Estimation of Multisensor Data. IEEE Transactions on Signal Processing, 2004, 52, 3170-3182. | 3.2 | 39 |
| 113 | Detection of LSB steganography via sample pair analysis. IEEE Transactions on Signal Processing, 2003, 51, 1995-2007. | 3.2 | 377 |
| 114 | On embedded scalable code stream of minimum expected distortion for variable rate channels. , 0, , . | | 0 |
| 115 | Temporal color video demosaicking via motion estimation and optimal data fusing. , 0, , . | | 0 |
| 116 | Lagrangian global optimization of two-description scalar quantizers. , 0, , . | | 3 |
| 117 | Lossless compression of color mosaic images. , 0, , . | | 12 |
| 118 | Buffer size reduction through buffer sharing for streaming applications. , 0, , . | | 2 |
| 119 | Multi-dimensional Average-Interpolating Refinement on Arbitrary Lattices. , 0, , . | | 1 |
| 120 | Clustering by principal curve with tree structure. , 0, , . | | 1 |
| 121 | Globally Optimal Uneven Erasure-Protected Multi-Group Packetization of Scalable Codes. , 0, , . | | 5 |
| 122 | On Global Optimality of Gradient Descent Algorithms for Fixed-Rate Scalar Multiple Description Quantizer Design. , 0, , . | | 3 |
| 123 | On Cross Correlation Based Discrete Time Delay Estimation. , 0, , . | | 9 |
| 124 | Joint Source-Channel Decoding of Multiple Description Quantized Markov Sequences. , 0, , . | | 2 |
| 125 | Optimal Index Assignment for Multiple Description Lattice Vector Quantization. , 0, , . | | 21 |
| 126 | A Practical Approach to Joint Network-Source Coding. , 0, , . | | 2 |