

Jiaying Liu

List of Publications by Year in descending order

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102
papers

6,867
citations

136885

32
h-index

114418

63
g-index

102
all docs

102
docs citations

102
times ranked

3526
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-Revealing Low-Light Image Enhancement Via Robust Retinex Model. IEEE Transactions on Image Processing, 2018, 27, 2828-2841.	6.0	673
2	Deep Joint Rain Detection and Removal from a Single Image. , 2017, , .		609
3	Attentive Generative Adversarial Network for Raindrop Removal from A Single Image. , 2018, , .		395
4	Adaptive Batch Normalization for practical domain adaptation. Pattern Recognition, 2018, 80, 109-117.	5.1	335
5	From Fidelity to Perceptual Quality: A Semi-Supervised Approach for Low-Light Image Enhancement. , 2020, , .		263
6	Demystifying Neural Style Transfer. , 2017, , .		256
7	Joint Rain Detection and Removal from a Single Image with Contextualized Deep Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1377-1393.	9.7	224
8	LR3M: Robust Low-Light Enhancement via Low-Rank Regularized Retinex Model. IEEE Transactions on Image Processing, 2020, 29, 5862-5876.	6.0	192
9	GLADNet: Low-Light Enhancement Network with Global Awareness. , 2018, , .		185
10	Spatio-Temporal Attention-Based LSTM Networks for 3D Action Recognition and Detection. IEEE Transactions on Image Processing, 2018, 27, 3459-3471.	6.0	179
11	Deep Edge Guided Recurrent Residual Learning for Image Super-Resolution. IEEE Transactions on Image Processing, 2017, 26, 5895-5907.	6.0	157
12	Sparse Gradient Regularized Deep Retinex Network for Robust Low-Light Image Enhancement. IEEE Transactions on Image Processing, 2021, 30, 2072-2086.	6.0	139
13	Content-Aware Convolutional Neural Network for In-Loop Filtering in High Efficiency Video Coding. IEEE Transactions on Image Processing, 2019, 28, 3343-3356.	6.0	137
14	Joint Enhancement and Denoising Method via Sequential Decomposition. , 2018, , .		136
15	Single Image Deraining: From Model-Based to Data-Driven and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4059-4077.	9.7	127
16	Advancing Image Understanding in Poor Visibility Environments: A Collective Benchmark Study. IEEE Transactions on Image Processing, 2020, 29, 5737-5752.	6.0	124
17	Erase or Fill? Deep Joint Recurrent Rain Removal and Reconstruction in Videos. , 2018, , .		118
18	Video Coding for Machines: A Paradigm of Collaborative Compression and Intelligent Analytics. IEEE Transactions on Image Processing, 2020, 29, 8680-8695.	6.0	110

#	ARTICLE	IF	CITATIONS
19	Online Human Action Detection Using Joint Classification-Regression Recurrent Neural Networks. Lecture Notes in Computer Science, 2016, , 203-220.	1.0	103
20	Benchmarking Low-Light Image Enhancement and Beyond. International Journal of Computer Vision, 2021, 129, 1153-1184.	10.9	100
21	Dmconv: Dual-Domain Multi-Scale Convolutional Neural Network for Compression Artifacts Removal. , 2018, , .		93
22	Unsupervised Person Image Generation With Semantic Parsing Transformation. , 2019, , .		91
23	Image Super-Resolution Based on Structure-Modulated Sparse Representation. IEEE Transactions on Image Processing, 2015, 24, 2797-2810.	6.0	84
24	Objective Quality Assessment of Screen Content Images by Uncertainty Weighting. IEEE Transactions on Image Processing, 2017, 26, 2016-2027.	6.0	82
25	MS2L. , 2020, , .		82
26	Scale-Free Single Image Deraining Via Visibility-Enhanced Recurrent Wavelet Learning. IEEE Transactions on Image Processing, 2019, 28, 2948-2961.	6.0	79
27	D3R-Net: Dynamic Routing Residue Recurrent Network for Video Rain Removal. IEEE Transactions on Image Processing, 2019, 28, 699-712.	6.0	73
28	Fashion Meets Computer Vision. ACM Computing Surveys, 2022, 54, 1-41.	16.1	73
29	Frame-Consistent Recurrent Video Deraining With Dual-Level Flow. , 2019, , .		70
30	Band Representation-Based Semi-Supervised Low-Light Image Enhancement: Bridging the Gap Between Signal Fidelity and Perceptual Quality. IEEE Transactions on Image Processing, 2021, 30, 3461-3473.	6.0	64
31	Retrieval Compensated Group Structured Sparsity for Image Super-Resolution. IEEE Transactions on Multimedia, 2017, 19, 302-316.	5.2	63
32	Controllable Artistic Text Style Transfer via Shape-Matching GAN. , 2019, , .		57
33	One-for-All: Grouped Variation Network-Based Fractional Interpolation in Video Coding. IEEE Transactions on Image Processing, 2019, 28, 2140-2151.	6.0	55
34	Integrating Semantic Segmentation and Retinex Model for Low-Light Image Enhancement. , 2020, , .		53
35	Learning End-to-End Lossy Image Compression: A Benchmark. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	49
36	Context-Aware Sparse Decomposition for Image Denoising and Super-Resolution. IEEE Transactions on Image Processing, 2013, 22, 1456-1469.	6.0	48

#	ARTICLE	IF	CITATIONS
37	Joint image denoising using adaptive principal component analysis and self-similarity. Information Sciences, 2014, 259, 128-141.	4.0	48
38	Progressive Spatial Recurrent Neural Network for Intra Prediction. IEEE Transactions on Multimedia, 2019, 21, 3024-3037.	5.2	48
39	Awesome Typography: Statistics-Based Text Effects Transfer. , 2017, , .		47
40	Self-Learning Video Rain Streak Removal: When Cyclic Consistency Meets Temporal Correspondence. , 2020, , .		46
41	TET-GAN: Text Effects Transfer via Stylization and Destylization. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 1238-1245.	3.6	45
42	Video super-resolution based on spatial-temporal recurrent residual networks. Computer Vision and Image Understanding, 2018, 168, 79-92.	3.0	44
43	Structure-Guided Image Inpainting Using Homography Transformation. IEEE Transactions on Multimedia, 2018, 20, 3252-3265.	5.2	43
44	Blind visual quality assessment for image super-resolution by convolutional neural network. Multimedia Tools and Applications, 2018, 77, 29829-29846.	2.6	40
45	Multi-Modality Multi-Task Recurrent Neural Network for Online Action Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2667-2682.	5.6	38
46	Towards Coding for Human and Machine Vision: Scalable Face Image Coding. IEEE Transactions on Multimedia, 2021, 23, 2957-2971.	5.2	35
47	A Comprehensive Benchmark for Single Image Compression Artifact Reduction. IEEE Transactions on Image Processing, 2020, 29, 7845-7860.	6.0	34
48	Modality Compensation Network: Cross-Modal Adaptation for Action Recognition. IEEE Transactions on Image Processing, 2020, 29, 3957-3969.	6.0	34
49	Deep Plastic Surgery: Robust and Controllable Image Editing with Human-Drawn Sketches. Lecture Notes in Computer Science, 2020, , 601-617.	1.0	34
50	Fine-Grained Quality Assessment for Compressed Images. IEEE Transactions on Image Processing, 2019, 28, 1163-1175.	6.0	33
51	Kernel Wiener filtering model with low-rank approximation for image denoising. Information Sciences, 2018, 462, 402-416.	4.0	27
52	Recurrent Exposure Generation for Low-Light Face Detection. IEEE Transactions on Multimedia, 2022, 24, 1609-1621.	5.2	27
53	Fast Enhancement for Non-Uniform Illumination Images using Light-weight CNNs. , 2020, , .		27
54	Joint-Feature Guided Depth Map Super-Resolution With Face Priors. IEEE Transactions on Cybernetics, 2018, 48, 399-411.	6.2	26

#	ARTICLE	IF	CITATIONS
55	HLA-Face: Joint High-Low Adaptation for Low Light Face Detection. , 2021, , .		26
56	Photo Stylistic Brush: Robust Style Transfer via Superpixel-Based Bipartite Graph. IEEE Transactions on Multimedia, 2018, 20, 1724-1737.	5.2	25
57	A Group Variational Transformation Neural Network for Fractional Interpolation of Video Coding. , 2018, , .		25
58	Consistent Video Style Transfer via Relaxation and Regularization. IEEE Transactions on Image Processing, 2020, 29, 9125-9139.	6.0	25
59	Guided image filtering using signal subspace projection. IET Image Processing, 2013, 7, 270-279.	1.4	24
60	Enhanced Intra Prediction with Recurrent Neural Network in Video Coding. , 2018, , .		22
61	Adaptive General Scale Interpolation Based on Weighted Autoregressive Models. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 200-211.	5.6	21
62	Bridging the Gap Between Computational Photography and Visual Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4272-4290.	9.7	21
63	Deep Reference Generation With Multi-Domain Hierarchical Constraints for Inter Prediction. IEEE Transactions on Multimedia, 2020, 22, 2497-2510.	5.2	20
64	Reduced-reference quality assessment of image super-resolution by energy change and texture variation. Journal of Visual Communication and Image Representation, 2019, 60, 140-148.	1.7	18
65	Context-Aware Text-Based Binary Image Stylization and Synthesis. IEEE Transactions on Image Processing, 2019, 28, 952-964.	6.0	18
66	Reference-Guided Deep Super-Resolution via Manifold Localized External Compensation. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1270-1283.	5.6	17
67	Towards Low Light Enhancement With RAW Images. IEEE Transactions on Image Processing, 2022, 31, 1391-1405.	6.0	17
68	Deep Inter Prediction Via Pixel-Wise Motion Oriented Reference Generation. , 2019, , .		16
69	An Emerging Coding Paradigm Vcm: A Scalable Coding Approach Beyond Feature And Signal. , 2020, , .		15
70	Combining Progressive Rethinking and Collaborative Learning: A Deep Framework for In-Loop Filtering. IEEE Transactions on Image Processing, 2021, 30, 4198-4211.	6.0	15
71	Partition Tree Guided Progressive Rethinking Network for in-Loop Filtering of HEVC. , 2019, , .		14
72	TE141K: Artistic Text Benchmark for Text Effect Transfer. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3709-3723.	9.7	14

#	ARTICLE	IF	CITATIONS
73	Controllable Sketch-to-Image Translation for Robust Face Synthesis. IEEE Transactions on Image Processing, 2021, 30, 8797-8810.	6.0	14
74	Removing Arbitrary-Scale Rain Streaks via Fractal Band Learning With Self-Supervision. IEEE Transactions on Image Processing, 2020, 29, 6759-6772.	6.0	13
75	Recurrent Multi-Frame Deraining: Combining Physics Guidance and Adversarial Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	12
76	Variation learning guided convolutional network for image interpolation. , 2017, , .		10
77	Isophote-Constrained Autoregressive Model With Adaptive Window Extension for Image Interpolation. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1071-1086.	5.6	9
78	Optimized Spatial Recurrent Network for Intra Prediction in Video Coding. , 2018, , .		9
79	Unpaired Person Image Generation With Semantic Parsing Transformation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4161-4176.	9.7	8
80	Shape-Matching GAN++: Scale Controllable Dynamic Artistic Text Style Transfer. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	8
81	Mask-guided GAN for robust text editing in the scene. Neurocomputing, 2021, 441, 192-201.	3.5	8
82	Template-Free Try-On Image Synthesis via Semantic-Guided Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4584-4597.	7.2	7
83	Ensemble single image deraining network via progressive structural boosting constraints. Signal Processing: Image Communication, 2021, 99, 116460.	1.8	7
84	Restoration of Unevenly Illuminated Images. , 2018, , .		6
85	Quality assessment for image super-resolution based on energy change and texture variation. , 2016, , .		5
86	Real-Time Deep Video SpaTial Resolution UpConversion SysTem (STRUCT++ Demo). , 2017, , .		5
87	Text effects transfer via distribution-aware texture synthesis. Computer Vision and Image Understanding, 2018, 174, 43-56.	3.0	5
88	Temporal Perceptive Network for Skeleton-Based Action Recognition. , 2017, , .		5
89	Real-time deep image super-resolution via global context aggregation and local queue jumping. , 2017, , .		4
90	From Design Draft to Real Attire: Unaligned Fashion Image Translation. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
91	Automatic portrait oil painter: joint domain stylization for portrait images. Multimedia Tools and Applications, 2018, 77, 16113-16130.	2.6	3
92	Rethinking Fusion Baselines for Multi-modal Human Action Recognition. Lecture Notes in Computer Science, 2018, , 178-187.	1.0	3
93	Dual Recovery Network with Online Compensation for Image Super-Resolution. , 2018, , .		3
94	Learning to Remove Rain in Video With Self-Supervision. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2024, 46, 1378-1396.	9.7	3
95	1+N fusion: Cascaded self-portrait enhancement. , 2017, , .		2
96	Compression Artifact Removal with Ensemble Learning of Neural Networks. , 2020, , .		2
97	Spectral Normalization for Domain Adaptation. Information (Switzerland), 2020, 11, 68.	1.7	2
98	Learning to Recognize Human Actions From Noisy Skeleton Data Via Noise Adaptation. IEEE Transactions on Multimedia, 2022, 24, 1152-1163.	5.2	2
99	Memory-Augmented Auto-Regressive Network for Frame Recurrent Inter Prediction. , 2020, , .		1
100	Exploiting multi-scale spatial structures for sparsity based single image super-resolution. , 2014, , .		0
101	Selfie retoucher: subject-oriented self-portrait enhancement. Multimedia Tools and Applications, 2019, 78, 27591-27609.	2.6	0
102	Wavelet-based Multi-branch Convolutional Neural Network for Cross-individual ALS Disease Identification with EMG Signal. , 2021, , .		0