

Xinfeng Zhang

List of Publications by Year in descending order

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77
papers

1,984
citations

279487

23
h-index

288905

40
g-index

77
all docs

77
docs citations

77
times ranked

1258
citing authors

#	ARTICLE	IF	CITATIONS
1	Image and Video Compression With Neural Networks: A Review. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 1683-1698.	5.6	218
2	Compression Artifact Reduction by Overlapped-Block Transform Coefficient Estimation With Block Similarity. IEEE Transactions on Image Processing, 2013, 22, 4613-4626.	6.0	147
3	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
4	Reduced-Reference Quality Assessment of Screen Content Images. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1-14.	5.6	94
5	No-reference quality assessment of deblocked images. Neurocomputing, 2016, 177, 572-584.	3.5	72
6	Multiple Cycle-in-Cycle Generative Adversarial Networks for Unsupervised Image Super-Resolution. IEEE Transactions on Image Processing, 2020, 29, 1101-1112.	6.0	65
7	Retrieval Compensated Group Structured Sparsity for Image Super-Resolution. IEEE Transactions on Multimedia, 2017, 19, 302-316.	5.2	63
8	Spatial-temporal residue network based in-loop filter for video coding. , 2017, , .		60
9	Backward Registration-Based Aspect Ratio Similarity for Image Retargeting Quality Assessment. IEEE Transactions on Image Processing, 2016, 25, 4286-4297.	6.0	58
10	Enhanced Motion-Compensated Video Coding With Deep Virtual Reference Frame Generation. IEEE Transactions on Image Processing, 2019, 28, 4832-4844.	6.0	56
11	Just-Noticeable Difference-Based Perceptual Optimization for JPEG Compression. IEEE Signal Processing Letters, 2017, 24, 96-100.	2.1	49
12	Enhanced Bi-Prediction With Convolutional Neural Network for High-Efficiency Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3291-3301.	5.6	49
13	Low-Rank Decomposition Based Restoration of Compressed Images via Adaptive Noise Estimation. IEEE Transactions on Image Processing, 2016, 25, 1-1.	6.0	47
14	Multiple-Level Feature-Based Measure for Retargeted Image Quality. IEEE Transactions on Image Processing, 2018, 27, 451-463.	6.0	40
15	Nonlocal In-Loop Filter: The Way Toward Next-Generation Video Coding?. IEEE MultiMedia, 2016, 23, 16-26.	1.5	38
16	Fine-Grained Quality Assessment for Compressed Images. IEEE Transactions on Image Processing, 2019, 28, 1163-1175.	6.0	33
17	Predictive Generalized Graph Fourier Transform for Attribute Compression of Dynamic Point Clouds. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1968-1982.	5.6	33
18	Video Compression Artifact Reduction via Spatio-Temporal Multi-Hypothesis Prediction. IEEE Transactions on Image Processing, 2015, 24, 6048-6061.	6.0	32

#	ARTICLE	IF	CITATIONS
19	A Joint Compression Scheme of Video Feature Descriptors and Visual Content. IEEE Transactions on Image Processing, 2017, 26, 633-647.	6.0	30
20	Point Cloud Saliency Detection by Local and Global Feature Fusion. IEEE Transactions on Image Processing, 2019, 28, 5379-5393.	6.0	30
21	Joint Feature and Texture Coding: Toward Smart Video Representation via Front-End Intelligence. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 3095-3105.	5.6	29
22	Just Noticeable Distortion Profile Inference: A Patch-Level Structural Visibility Learning Approach. IEEE Transactions on Image Processing, 2021, 30, 26-38.	6.0	29
23	CNN-Based Bi-Directional Motion Compensation for High Efficiency Video Coding. , 2018, , .		27
24	A Data-Driven Point Cloud Simplification Framework for City-Scale Image-Based Localization. IEEE Transactions on Image Processing, 2017, 26, 262-275.	6.0	25
25	Adaptive rate control for High Efficiency Video Coding. , 2012, , .		24
26	Blind quality index for tone-mapped images based on luminance partition. Pattern Recognition, 2019, 89, 108-118.	5.1	24
27	Low-Rank based Nonlocal Adaptive Loop Filter for High Efficiency Video Compression. IEEE Transactions on Circuits and Systems for Video Technology, 2016, , 1-1.	5.6	22
28	Cluster-Based Point Cloud Coding with Normal Weighted Graph Fourier Transform. , 2018, , .		22
29	Satisfied-User-Ratio Modeling for Compressed Video. IEEE Transactions on Image Processing, 2020, 29, 3777-3789.	6.0	21
30	Rate-Distortion Optimized Sparse Coding With Ordered Dictionary for Image Set Compression. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3387-3397.	5.6	20
31	Light Field Image Compression Based on Deep Learning. , 2018, , .		20
32	Direct Speech-to-Image Translation. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 517-529.	7.3	20
33	GPU-Based Hierarchical Motion Estimation for High Efficiency Video Coding. IEEE Transactions on Multimedia, 2019, 21, 851-862.	5.2	19
34	Towards Analysis-Friendly Face Representation With Scalable Feature and Texture Compression. IEEE Transactions on Multimedia, 2022, 24, 3169-3181.	5.2	19
35	A Robust Quality Enhancement Method Based on Joint Spatial-Temporal Priors for Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2401-2414.	5.6	18
36	Image Coding With Data-Driven Transforms: Methodology, Performance and Potential. IEEE Transactions on Image Processing, 2020, 29, 9292-9304.	6.0	17

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37	Blind Image Quality Assessment Based on Multi-scale KLT. IEEE Transactions on Multimedia, 2021, 23, 1557-1566.	5.2	16
38	An inter-image redundancy measure for image set compression. , 2015, , .		15
39	Analysis and Prediction of JND-Based Video Quality Model. , 2018, , .		14
40	Fast MPEG-CDVS Encoder With GPU-CPU Hybrid Computing. IEEE Transactions on Image Processing, 2018, 27, 2201-2216.	6.0	13
41	Quality assessment of tone-mapped images based on sparse representation. , 2016, , .		12
42	Region-Adaptive Texture Enhancement For Detailed Person Image Synthesis. , 2020, , .		12
43	Aspect Ratio Similarity (ARS) for image retargeting quality assessment. , 2016, , .		11
44	High-Efficiency Image Coding via Near-Optimal Filtering. IEEE Signal Processing Letters, 2017, 24, 1403-1407.	2.1	11
45	Three-Zone Segmentation-Based Motion Compensation for Video Compression. IEEE Transactions on Image Processing, 2019, 28, 5091-5104.	6.0	11
46	Data-Driven Transform-Based Compressed Image Quality Assessment. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3352-3365.	5.6	11
47	Quality Assessment of End-to-End Learned Image Compression. , 2021, , .		11
48	Rate-distortion based sparse coding for image set compression. , 2015, , .		9
49	Rate-distortion optimized scan for point cloud color compression. , 2017, , .		9
50	A Two-Stage Outlier Filtering Framework for City-Scale Localization Using 3D SfM Point Clouds. IEEE Transactions on Image Processing, 2019, 28, 4857-4869.	6.0	9
51	Fine-Grained Image Quality Assessment: A Revisit and Further Thinking. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2746-2759.	5.6	8
52	Perceptual Quality Consistency Oriented CTU Level Rate Control for HEVC Intra Coding. IEEE Transactions on Broadcasting, 2022, 68, 69-82.	2.5	8
53	UGC-VIDEO: Perceptual Quality Assessment of User-Generated Videos. , 2020, , .		7
54	Evolutionary Quantization of Neural Networks with Mixed-Precision. , 2021, , .		7

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55	Data-Driven Lightweight Interest Point Selection for Large-Scale Visual Search. IEEE Transactions on Multimedia, 2018, 20, 2774-2787.	5.2	6
56	Fast Non-Local Adaptive In-Loop Filter Optimization on GPU. IEEE Transactions on Multimedia, 2021, 23, 39-51.	5.2	6
57	Spatio-Temporal Correlation Guided Geometric Partitioning for Versatile Video Coding. IEEE Transactions on Image Processing, 2022, 31, 30-42.	6.0	6
58	NR-CNN: Nested-Residual Guided CNN In-loop Filtering for Video Coding. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-22.	3.0	6
59	Compressed Image Quality Assessment Based on Saak Features. , 2019, , .		5
60	Just Recognizable Distortion for Machine Vision Oriented Image and Video Coding. International Journal of Computer Vision, 2021, 129, 2889-2906.	10.9	5
61	Cross Modal Compression. , 2021, , .		5
62	Weakly Supervised Anomaly Detection in Videos Considering the Openness of Events. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21687-21699.	4.7	5
63	Spatial-Temporal Graph Network for Video Crowd Counting. IEEE Transactions on Circuits and Systems for Video Technology, 2023, 33, 228-241.	5.6	5
64	From Visual Search to Video Compression: A Compact Representation Framework for Video Feature Descriptors. , 2016, , .		4
65	GPU Based fast MPEG-CDVS encoder. , 2017, , .		4
66	Low Complexity Quantization in High Efficiency Video Coding. IEEE Access, 2020, 8, 145159-145170.	2.6	4
67	New image coding scheme with hierarchical representation and adaptive interpolation. , 2011, , .		3
68	Perceptually optimized sparse coding for HDR images via divisive normalization. , 2016, , .		3
69	Spatial-Temporal Correlation Learning for Real-Time Video Deinterlacing. , 2021, , .		3
70	Weakly Supervised Text-based Actor-Action Video Segmentation by Clip-level Multi-instance Learning. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-22.	3.0	3
71	No-reference quality assessment for image sharpness and noise. , 2016, , .		2
72	Face Liveness Detection Based On Multiple Feature Descriptors. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
73	Low-Complexity and Sampling-Aided Multi-view Video Coding at Low Bitrate. Lecture Notes in Computer Science, 2010, , 319-327.	1.0	2
74	Flow-Grounded Dynamic Texture Synthesis for Video Compression. , 2021, , .		1
75	Teacher-Student Learning With Multi-Granularity Constraint Towards Compact Facial Feature Representation. , 2021, , .		1
76	Instance Segmentation Based Background Reference Frame Generation for Surveillance Video Coding. , 2021, , .		1
77	A Pixel-Level Segmentation-Synthesis Framework for Dynamic Texture Video Compression. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7077-7091.	5.6	1