

Qingbo Zhang

List of Publications by Year in descending order

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128
papers

2,815
citations

218381

26
h-index

197535

49
g-index

131
all docs

131
docs citations

131
times ranked

1816
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Motion and Disparity Estimation Optimization for Low Complexity Multiview Video Coding. IEEE Transactions on Broadcasting, 2015, 61, 166-176.	2.5	304
2	Machine Learning-Based Coding Unit Depth Decisions for Flexible Complexity Allocation in High Efficiency Video Coding. IEEE Transactions on Image Processing, 2015, 24, 2225-2238.	6.0	201
3	Fast Motion Estimation Based on Content Property for Low-Complexity H.265/HEVC Encoder. IEEE Transactions on Broadcasting, 2016, 62, 675-684.	2.5	195
4	Residual Highway Convolutional Neural Networks for in-loop Filtering in HEVC. IEEE Transactions on Image Processing, 2018, 27, 3827-3841.	6.0	133
5	VideoSet: A large-scale compressed video quality dataset based on JND measurement. Journal of Visual Communication and Image Representation, 2017, 46, 292-302.	1.7	105
6	Fast reference frame selection based on content similarity for low complexity HEVC encoder. Journal of Visual Communication and Image Representation, 2016, 40, 516-524.	1.7	89
7	Stereoscopic Visual Attention Model for 3D Video. Lecture Notes in Computer Science, 2010, , 314-324.	1.0	78
8	Binary and Multi-Class Learning Based Low Complexity Optimization for HEVC Encoding. IEEE Transactions on Broadcasting, 2017, 63, 547-561.	2.5	70
9	Subjective and Objective Video Quality Assessment of 3D Synthesized Views With Texture/Depth Compression Distortion. IEEE Transactions on Image Processing, 2015, 24, 4847-4861.	6.0	69
10	Deep Learning-Based Picture-Wise Just Noticeable Distortion Prediction Model for Image Compression. IEEE Transactions on Image Processing, 2020, 29, 641-656.	6.0	68
11	Efficient In-Loop Filtering Based on Enhanced Deep Convolutional Neural Networks for HEVC. IEEE Transactions on Image Processing, 2020, 29, 5352-5366.	6.0	60
12	Machine learning based video coding optimizations: A survey. Information Sciences, 2020, 506, 395-423.	4.0	52
13	Regional Bit Allocation and Rate Distortion Optimization for Multiview Depth Video Coding With View Synthesis Distortion Model. IEEE Transactions on Image Processing, 2013, 22, 3497-3512.	6.0	50
14	Effective Data Driven Coding Unit Size Decision Approaches for HEVC INTRA Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3208-3222.	5.6	50
15	Subjective quality analyses of stereoscopic images in 3DTV system. , 2011, , .		44
16	Considering binocular spatial sensitivity in stereoscopic image quality assessment. , 2011, , .		43
17	Fuzzy SVM-Based Coding Unit Decision in HEVC. IEEE Transactions on Broadcasting, 2018, 64, 681-694.	2.5	43
18	Low Complexity HEVC INTRA Coding for High-Quality Mobile Video Communication. IEEE Transactions on Industrial Informatics, 2015, 11, 1492-1504.	7.2	42

#	ARTICLE	IF	CITATIONS
19	Objective Video Quality Assessment Based on Perceptually Weighted Mean Squared Error. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1844-1855.	5.6	40
20	Generative Adversarial Network-Based Intra Prediction for Video Coding. IEEE Transactions on Multimedia, 2020, 22, 45-58.	5.2	40
21	Rate Distortion Optimized Inter-View Frame Level Bit Allocation Method for MV-HEVC. IEEE Transactions on Multimedia, 2015, 17, 2134-2146.	5.2	38
22	No Reference Image Quality Assessment based on Multi-Expert Convolutional Neural Networks. IEEE Access, 2018, 6, 8934-8943.	2.6	37
23	Compressed image quality metric based on perceptually weighted distortion. IEEE Transactions on Image Processing, 2015, 24, 5594-5608.	6.0	35
24	A Virtual View PSNR Estimation Method for 3-D Videos. IEEE Transactions on Broadcasting, 2016, 62, 134-140.	2.5	31
25	Statistical Early Termination Model for Fast Mode Decision and Reference Frame Selection in Multiview Video Coding. IEEE Transactions on Broadcasting, 2012, 58, 10-23.	2.5	29
26	Convolutional Neural Network-Based Synthesized View Quality Enhancement for 3D Video Coding. IEEE Transactions on Image Processing, 2018, 27, 5365-5377.	6.0	27
27	Subjective Quality Database and Objective Study of Compressed Point Clouds With 6DoF Head-Mounted Display. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4630-4644.	5.6	27
28	Cubemap-Based Perception-Driven Blind Quality Assessment for 360-degree Images. IEEE Transactions on Image Processing, 2021, 30, 2364-2377.	6.0	27
29	Efficient Multi-Reference Frame Selection Algorithm for Hierarchical B Pictures in Multiview Video Coding. IEEE Transactions on Broadcasting, 2011, 57, 15-23.	2.5	26
30	A novel deep neural network based approach for sparse code multiple access. Neurocomputing, 2020, 382, 52-63.	3.5	26
31	Adaptive Multiview Video Coding Scheme Based on Spatiotemporal Correlation Analyses. ETRI Journal, 2009, 31, 151-161.	1.2	25
32	Rate-Distortion Optimized Rate Control for Depth Map-Based 3-D Video Coding. IEEE Transactions on Image Processing, 2013, 22, 585-594.	6.0	23
33	Efficient Multiview Depth Coding Optimization Based on Allowable Depth Distortion in View Synthesis. IEEE Transactions on Image Processing, 2014, 23, 4879-4892.	6.0	23
34	Sparse Representation-Based Video Quality Assessment for Synthesized 3D Videos. IEEE Transactions on Image Processing, 2020, 29, 509-524.	6.0	23
35	Early termination for TZSearch in HEVC Motion Estimation. , 2013, , .		22
36	High-Efficiency 3D Depth Coding Based on Perceptual Quality of Synthesized Video. IEEE Transactions on Image Processing, 2016, 25, 5877-5891.	6.0	22

#	ARTICLE	IF	CITATIONS
37	Frame-level Bit Allocation Optimization Based on<?brk?> Video Content Characteristics for HEVC. ACM Transactions on Multimedia Computing, Communications and Applications, 2020, 16, 1-20.	3.0	21
38	Deep Learning Based Just Noticeable Difference and Perceptual Quality Prediction Models for Compressed Video. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1197-1212.	5.6	20
39	Deep Learning-Based Chroma Prediction for Intra Versatile Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3168-3181.	5.6	20
40	Fast mode decision based on texture"depth correlation and motion prediction for multiview depth video coding. Journal of Real-Time Image Processing, 2016, 11, 27-36.	2.2	18
41	Stereoscopic image quality assessment by learning non-negative matrix factorization-based color visual characteristics and considering binocular interactions. Journal of Visual Communication and Image Representation, 2017, 46, 269-279.	1.7	18
42	Generalized Nash Bargaining Solution to Rate Control Optimization for Spatial Scalable Video Coding. IEEE Transactions on Image Processing, 2014, 23, 4010-4021.	6.0	17
43	SUR-Net: Predicting the Satisfied User Ratio Curve for Image Compression with Deep Learning. , 2019, , .		17
44	Reinforcement learning based coding unit early termination algorithm for high efficiency video coding. Journal of Visual Communication and Image Representation, 2019, 60, 276-286.	1.7	17
45	SUR-FeatNet: Predicting the satisfied user ratio curve for image compression with deep feature learning. Quality and User Experience, 2020, 5, 1.	2.8	17
46	Applying Game Theory to Rate Control Optimization for Hierarchical B-Pictures. IEEE Transactions on Broadcasting, 2013, 59, 591-601.	2.5	16
47	Picture-level just noticeable difference for symmetrically and asymmetrically compressed stereoscopic images: Subjective quality assessment study and datasets. Journal of Visual Communication and Image Representation, 2019, 62, 140-151.	1.7	16
48	Online Learning-Based Multi-Stage Complexity Control for Live Video Coding. IEEE Transactions on Image Processing, 2021, 30, 641-656.	6.0	16
49	Naturalness index for a tone-mapped high dynamic range image. Applied Optics, 2016, 55, 10084.	2.1	15
50	Machine learning based fast H.264/AVC to HEVC transcoding exploiting block partition similarity. Journal of Visual Communication and Image Representation, 2016, 38, 824-837.	1.7	14
51	Pairwise comparison and rank learning for image quality assessment. Displays, 2016, 44, 21-26.	2.0	14
52	Stereoscopic Visual Attention-Based Regional Bit Allocation Optimization for Multiview Video Coding. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	13
53	Depth perceptual region-of-interest based multiview video coding. Journal of Visual Communication and Image Representation, 2010, 21, 498-512.	1.7	13
54	Projection Invariant Feature and Visual Saliency-Based Stereoscopic Omnidirectional Image Quality Assessment. IEEE Transactions on Broadcasting, 2021, 67, 512-523.	2.5	13

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55	DIRECT Mode Early Decision Optimization Based on Rate Distortion Cost Property and Inter-view Correlation. IEEE Transactions on Broadcasting, 2013, 59, 390-398.	2.5	12
56	Visibility threshold of compressed stereoscopic image: effects of asymmetrical coding. Imaging Science Journal, 2013, 61, 172-182.	0.2	12
57	Galactomannan in Bronchoalveolar Lavage Fluid for Diagnosis of Invasive Pulmonary Aspergillosis with Nonneutropenic Patients. Canadian Respiratory Journal, 2017, 2017, 1-7.	0.8	12
58	No-reference quality assessment of DIBR-synthesized videos by measuring temporal flickering. Journal of Visual Communication and Image Representation, 2018, 55, 30-39.	1.7	12
59	Statistical Early Termination and Early Skip Models for Fast Mode Decision in HEVC INTRA Coding. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-23.	3.0	12
60	Low-Complexity Encoder Framework for Window-Level Rate Control Optimization. IEEE Transactions on Industrial Electronics, 2013, 60, 1850-1858.	5.2	11
61	View synthesis distortion model based frame level rate control optimization for multiview depth video coding. Signal Processing, 2015, 112, 189-198.	2.1	11
62	Viewport Perception Based Blind Stereoscopic Omnidirectional Image Quality Assessment. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3926-3941.	5.6	11
63	Fast Coding Tree Unit depth decision for high efficiency video coding. , 2014, , .		10
64	Visual Attention Guided Pixel-Wise Just Noticeable Difference Model. IEEE Access, 2019, 7, 132111-132119.	2.6	10
65	View Synthesis Oriented Depth Map Coding Algorithm. , 2009, , .		9
66	View-spatial-temporal post-refinement for view synthesis in 3D video systems. Signal Processing: Image Communication, 2013, 28, 1342-1357.	1.8	9
67	Early DIRECT mode decision based on all-zero block and rate distortion cost for multiview video coding. IET Image Processing, 2016, 10, 9-15.	1.4	9
68	Deep intensity guidance based compression artifacts reduction for depth map. Journal of Visual Communication and Image Representation, 2018, 57, 234-242.	1.7	9
69	Low-complexity quantization for H.264/AVC. Journal of Real-Time Image Processing, 2009, 4, 3-12.	2.2	8
70	Interview Rate Distortion Analysis-Based Coarse to Fine Bit Allocation Algorithm for 3-D Video Coding. IEEE Transactions on Broadcasting, 2014, 60, 614-625.	2.5	8
71	Stochastic noise tolerance: Enhanced full state observer vs. Kalman filter from video tracking perspective. Journal of Electronics, 2010, 27, 557-563.	0.2	7
72	Fast macroblock mode selection algorithm for multiview depth video coding. Chinese Optics Letters, 2010, 8, 151-154.	1.3	7

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73	Binocular vision based objective quality assessment method for stereoscopic images. <i>Multimedia Tools and Applications</i> , 2015, 74, 8197-8218.	2.6	7
74	Instant coherent group motion filtering by group motion representations. <i>Neurocomputing</i> , 2017, 266, 304-314.	3.5	7
75	Fast Macroblock Mode Selection Algorithm for B Frames in Multiview Video Coding. <i>KSII Transactions on Internet and Information Systems</i> , 0, , 408-427.	0.7	7
76	Depth perceptual quality assessment for symmetrically and asymmetrically distorted stereoscopic 3D videos. <i>Signal Processing: Image Communication</i> , 2019, 78, 293-305.	1.8	6
77	Highly Efficient Multiview Depth Coding Based on Histogram Projection and Allowable Depth Distortion. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 402-417.	6.0	6
78	Object-based depth image-based rendering for three-dimensional video system by color-correction optimization. <i>Optical Engineering</i> , 2011, 50, 047006.	0.5	5
79	A Universal Rate Control Scheme for Video Transcoding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2012, 22, 489-501.	5.6	5
80	Predictive and distribution-oriented fast motion estimation for H.264/AVC. <i>Journal of Real-Time Image Processing</i> , 2014, 9, 597.	2.2	5
81	View synthesis distortion elimination filter for depth video coding in 3D video broadcasting. <i>Multimedia Tools and Applications</i> , 2015, 74, 5935-5954.	2.6	5
82	Allowable depth distortion based fast mode decision and reference frame selection for 3D depth coding. <i>Multimedia Tools and Applications</i> , 2017, 76, 1101-1120.	2.6	5
83	WLDISR: Weighted Local Sparse Representation-Based Depth Image Super-Resolution for 3D Video System. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 561-576.	6.0	5
84	Parts-based stereoscopic image assessment by learning binocular manifold color visual properties. <i>Journal of Electronic Imaging</i> , 2016, 25, 061611.	0.5	4
85	Visual comfort prediction for stereoscopic image using stereoscopic visual saliency. <i>Multimedia Tools and Applications</i> , 2017, 76, 23499-23516.	2.6	4
86	Perception-Based CTU Level Bit Allocation for Intra High Efficiency Video Coding. <i>IEEE Access</i> , 2019, 7, 154959-154970.	2.6	4
87	Learning-Based Satisfied User Ratio Prediction for Symmetrically and Asymmetrically Compressed Stereoscopic Images. <i>IEEE MultiMedia</i> , 2021, 28, 8-20.	1.5	4
88	An Approach to Multi-Modal Multi-View Video Coding. , 2006, , .		3
89	Global and local exploitation for saliency using bag-of-words. <i>IET Computer Vision</i> , 2014, 8, 299-304.	1.3	3
90	Multi-task rank learning for image quality assessment. , 2015, , .		3

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91	Novel visibility threshold model for asymmetrically distorted stereoscopic images. , 2016, , .		3
92	Interactive Subjective Study on Picture-level Just Noticeable Difference of Compressed Stereoscopic Images. , 2019, , .		3
93	An Improved Design of Quantization for H.264 Video Coding Standard. , 2006, , .		2
94	Depth based region of interest extraction for multi-view video coding. , 2009, , .		2
95	Image processing for synthesis imaging of mingantu spectral radioheliograph (MUSER). Multimedia Tools and Applications, 2018, 77, 20937-20954.	2.6	2
96	On Energy Compaction of 2D Saab Image Transforms. , 2019, , .		2
97	Circular intra prediction for 360 degree video coding. Journal of Visual Communication and Image Representation, 2021, 74, 103000.	1.7	2
98	Salient object detection via reliability-based depth compactness and depth contrast. IET Image Processing, 2020, 14, 3623-3631.	1.4	2
99	Low-Complexity Region-of-Interest Extraction for Multiview Video Coding. , 2009, , .		1
100	Video trajectory predictive tracking using control-based full state observer and filter design. , 2010, , .		1
101	Depth No-Synthesis-Error Time-Consistent Preprocessing for Depth Coding in FVV System. Procedia Engineering, 2012, 29, 2572-2577.	1.2	1
102	Binocular combination and fractional differential based 3D image quality assessment. , 2015, , .		1
103	Smooth View Quality Oriented Bit Allocation Optimization for 3D Video Coding. , 2015, , .		1
104	Fast Transform Unit Depth Decision Based on Quantized Coefficients for HEVC. , 2015, , .		1
105	Allowable depth distortion based depth filtering for 3D high efficiency video coding. , 2016, , .		1
106	Content adaptive directional transform for high efficiency video coding. , 2016, , .		1
107	Study of subjective and objective quality assessment for screen content images. , 2017, , .		1
108	Multi-class ranking based most probable prediction unit selection for HEVC encoding. , 2017, , .		1

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109	A novel texture-based asymmetric visibility threshold model for stereoscopic video coding. Eurasip Journal on Image and Video Processing, 2018, 2018, .	1.7	1
110	Satisfied User Ratio Prediction with Support Vector Regression for Compressed Stereo Images. , 2020, , .		1
111	Perceptual Video Coding: A Survey. Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 2014, 35, 474-483.	0.1	1
112	Learning Based Fast H.264/AVC to HEVC INTRA Video Transcoding for Cloud Media Computing. Lecture Notes in Computer Science, 2017, , 385-395.	1.0	1
113	Content-aware Hybrid Equi-angular Cubemap Projection for Omnidirectional Video Coding. , 2020, , .		1
114	High Efficiency Intra Video Coding Based on Data-Driven Transform. IEEE Transactions on Broadcasting, 2022, 68, 383-396.	2.5	1
115	Joint Source-Channel Decoding of Polar Codes for HEVC-Based Video Streaming. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-23.	3.0	1
116	Estimation of rock-aggregate volume based on PCA and LM-optimized neural network. Journal of Electronics, 2009, 26, 825-830.	0.2	0
117	Aggregate volumetric estimation based on PCA and momentum-enhanced BP neural network. Journal of Electronics, 2009, 26, 637-643.	0.2	0
118	Motion detection based on temporal-to-spatial conversion of depth maps for multi-view video. , 2009, , .		0
119	Image Denoising Based on Wavelet Thresholding with Continuity and Self-Adaptability. , 2009, , .		0
120	Influence of stochastic noise statistics on Kalman filter performance based on video target tracking. Journal of Electronics, 2010, 27, 420-427.	0.2	0
121	3DTV-Oriented Multiview Video Coding Based on Stereoscopic Visual ROI. , 2011, , .		0
122	Virtual View Image Rendering Using Groundtruth Disparity Map. , 2011, , .		0
123	New fast depth image-based rendering method for 3DTV. , 2012, , .		0
124	Compression Artifacts Reduction for Depth Map by Deep Intensity Guidance. Lecture Notes in Computer Science, 2018, , 863-872.	1.0	0
125	Depth-Spatio-Temporal Joint Region-of-Interest Extraction and Tracking for 3D Video. Lecture Notes in Computer Science, 2009, , 268-276.	1.0	0
126	Adaptive Rate-Distortion Prediction for Multiple Reference Selection and Inter-mode Decision. Lecture Notes in Computer Science, 2012, , 484-491.	1.0	0

#	ARTICLE	IF	CITATIONS
127	Disparity and Motion Activity Based Mode Prediction for Fast Mode Decision in Multiview Video Coding. , 2013, , 177-187.		0
128	Sparse Representation-Based Intra Prediction for Lossless/Near Lossless Video Coding. , 2020, , .		0