

Qingbo Zhang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

2,032
citations

23
h-index

41
g-index

131
ext. papers

2,410
ext. citations

3.9
avg, IF

5.36
L-index

#	Paper	IF	Citations
112	Efficient Motion and Disparity Estimation Optimization for Low Complexity Multiview Video Coding. <i>IEEE Transactions on Broadcasting</i> , 2015 , 61, 166-176	4.7	289
111	Fast Motion Estimation Based on Content Property for Low-Complexity H.265/HEVC Encoder. <i>IEEE Transactions on Broadcasting</i> , 2016 , 62, 675-684	4.7	173
110	Machine learning-based coding unit depth decisions for flexible complexity allocation in high efficiency video coding. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 2225-38	8.7	143
109	Residual Highway Convolutional Neural Networks for in-loop Filtering in HEVC. <i>IEEE Transactions on Image Processing</i> , 2018 , 27, 3827-3841	8.7	83
108	Fast reference frame selection based on content similarity for low complexity HEVC encoder. <i>Journal of Visual Communication and Image Representation</i> , 2016 , 40, 516-524	2.7	83
107	VideoSet: A large-scale compressed video quality dataset based on JND measurement. <i>Journal of Visual Communication and Image Representation</i> , 2017 , 46, 292-302	2.7	59
106	Stereoscopic Visual Attention Model for 3D Video. <i>Lecture Notes in Computer Science</i> , 2010 , 314-324	0.9	59
105	Subjective and Objective Video Quality Assessment of 3D Synthesized Views With Texture/Depth Compression Distortion. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 4847-61	8.7	56
104	Binary and Multi-Class Learning Based Low Complexity Optimization for HEVC Encoding. <i>IEEE Transactions on Broadcasting</i> , 2017 , 63, 547-561	4.7	52
103	Regional bit allocation and rate distortion optimization for multiview depth video coding with view synthesis distortion model. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 3497-512	8.7	45
102	Effective Data Driven Coding Unit Size Decision Approaches for HEVC INTRA Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 3208-3222	6.4	40
101	. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 1492-1504	11.9	36
100	Considering binocular spatial sensitivity in stereoscopic image quality assessment 2011 ,		34
99	Deep Learning based Picture-Wise Just Noticeable Distortion Prediction Model for Image Compression. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	33
98	Subjective quality analyses of stereoscopic images in 3DTV system 2011 ,		31
97	Efficient In-loop Filtering Based on Enhanced Deep Convolutional Neural Networks for HEVC. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	29
96	Fuzzy SVM-Based Coding Unit Decision in HEVC. <i>IEEE Transactions on Broadcasting</i> , 2018 , 64, 681-694	4.7	28

95	Statistical Early Termination Model for Fast Mode Decision and Reference Frame Selection in Multiview Video Coding. <i>IEEE Transactions on Broadcasting</i> , 2012 , 58, 10-23	4.7	27
94	. <i>IEEE Transactions on Multimedia</i> , 2015 , 17, 2134-2146	6.6	27
93	No Reference Image Quality Assessment based on Multi-Expert Convolutional Neural Networks. <i>IEEE Access</i> , 2018 , 6, 8934-8943	3.5	24
92	A Virtual View PSNR Estimation Method for 3-D Videos. <i>IEEE Transactions on Broadcasting</i> , 2016 , 62, 1341-1349	4.7	24
91	Machine learning based video coding optimizations: A survey. <i>Information Sciences</i> , 2020 , 506, 395-423	7.7	24
90	. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 1844-1855	6.4	23
89	Efficient multiview depth coding optimization based on allowable depth distortion in view synthesis. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 4879-92	8.7	23
88	Efficient Multi-Reference Frame Selection Algorithm for Hierarchical B Pictures in Multiview Video Coding. <i>IEEE Transactions on Broadcasting</i> , 2011 , 57, 15-23	4.7	22
87	Compressed image quality metric based on perceptually weighted distortion. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 5594-608	8.7	21
86	Rate-distortion optimized rate control for depth map-based 3-D video coding. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 585-94	8.7	21
85	. <i>IEEE Transactions on Multimedia</i> , 2020 , 22, 45-58	6.6	21
84	High-Efficiency 3D Depth Coding Based on Perceptual Quality of Synthesized Video. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 5877-5891	8.7	19
83	Adaptive Multiview Video Coding Scheme Based on Spatiotemporal Correlation Analyses. <i>ETRI Journal</i> , 2009 , 31, 151-161	1.4	17
82	Stereoscopic image quality assessment by learning non-negative matrix factorization-based color visual characteristics and considering binocular interactions. <i>Journal of Visual Communication and Image Representation</i> , 2017 , 46, 269-279	2.7	16
81	Generalized Nash Bargaining Solution to Rate Control Optimization for Spatial Scalable Video Coding. <i>IEEE Transactions on Image Processing</i> , 2014 , 23, 4010-4021	8.7	15
80	Early termination for TZSearch in HEVC Motion Estimation 2013 ,		15
79	A novel deep neural network based approach for sparse code multiple access. <i>Neurocomputing</i> , 2020 , 382, 52-63	5.4	15
78	Reinforcement learning based coding unit early termination algorithm for high efficiency video coding. <i>Journal of Visual Communication and Image Representation</i> , 2019 , 60, 276-286	2.7	14

77	Fast mode decision based on textureDepth correlation and motion prediction for multiview depth video coding. <i>Journal of Real-Time Image Processing</i> , 2016 , 11, 27-36	1.9	13
76	Frame-level Bit Allocation Optimization Based on Video Content Characteristics for HEVC. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2020 , 16, 1-20	3.4	13
75	Sparse Representation based Video Quality Assessment for Synthesized 3D Videos. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	13
74	Machine learning based fast H.264/AVC to HEVC transcoding exploiting block partition similarity. <i>Journal of Visual Communication and Image Representation</i> , 2016 , 38, 824-837	2.7	13
73	Pairwise comparison and rank learning for image quality assessment. <i>Displays</i> , 2016 , 44, 21-26	3.4	12
72	Convolutional Neural Network Based Synthesized View Quality Enhancement for 3D Video Coding. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	12
71	Depth perceptual region-of-interest based multiview video coding. <i>Journal of Visual Communication and Image Representation</i> , 2010 , 21, 498-512	2.7	12
70	Naturalness index for a tone-mapped high dynamic range image. <i>Applied Optics</i> , 2016 , 55, 10084-10091	0.2	12
69	Picture-level just noticeable difference for symmetrically and asymmetrically compressed stereoscopic images: Subjective quality assessment study and datasets. <i>Journal of Visual Communication and Image Representation</i> , 2019 , 62, 140-151	2.7	11
68	Galactomannan in Bronchoalveolar Lavage Fluid for Diagnosis of Invasive Pulmonary Aspergillosis with Nonneutropenic Patients. <i>Canadian Respiratory Journal</i> , 2017 , 2017, 3685261	2.1	11
67	No-reference quality assessment of DIBR-synthesized videos by measuring temporal flickering. <i>Journal of Visual Communication and Image Representation</i> , 2018 , 55, 30-39	2.7	11
66	Low-Complexity Encoder Framework for Window-Level Rate Control Optimization. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 1850-1858	8.9	10
65	. <i>IEEE Transactions on Broadcasting</i> , 2013 , 59, 390-398	4.7	10
64	View synthesis distortion model based frame level rate control optimization for multiview depth video coding. <i>Signal Processing</i> , 2015 , 112, 189-198	4.4	9
63	Early DIRECT mode decision based on all-zero block and rate distortion cost for multiview video coding. <i>IET Image Processing</i> , 2016 , 10, 9-15	1.7	9
62	SUR-Net: Predicting the Satisfied User Ratio Curve for Image Compression with Deep Learning 2019 ,		9
61	Applying Game Theory to Rate Control Optimization for Hierarchical B-Pictures. <i>IEEE Transactions on Broadcasting</i> , 2013 , 59, 591-601	4.7	9
60	SUR-FeatNet: Predicting the satisfied user ratio curve for image compression with deep feature learning. <i>Quality and User Experience</i> , 2020 , 5, 1	1.9	8

59	Visibility threshold of compressed stereoscopic image: effects of asymmetrical coding. <i>Imaging Science Journal</i> , 2013 , 61, 172-182	0.9	8
58	Stereoscopic Visual Attention-Based Regional Bit Allocation Optimization for Multiview Video Coding. <i>Eurasip Journal on Advances in Signal Processing</i> , 2010 , 2010,	1.9	8
57	Statistical Early Termination and Early Skip Models for Fast Mode Decision in HEVC INTRA Coding. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2019 , 15, 1-23	3.4	7
56	View-spatial-temporal post-refinement for view synthesis in 3D video systems. <i>Signal Processing: Image Communication</i> , 2013 , 28, 1342-1357	2.8	7
55	. <i>IEEE Transactions on Broadcasting</i> , 2014 , 60, 614-625	4.7	7
54	View Synthesis Oriented Depth Map Coding Algorithm 2009 ,		7
53	. <i>IEEE Access</i> , 2019 , 7, 132111-132119	3.5	7
52	Deep intensity guidance based compression artifacts reduction for depth map. <i>Journal of Visual Communication and Image Representation</i> , 2018 , 57, 234-242	2.7	7
51	Fast Coding Tree Unit depth decision for high efficiency video coding 2014 ,		6
50	Low-complexity quantization for H.264/AVC. <i>Journal of Real-Time Image Processing</i> , 2009 , 4, 3-12	1.9	6
49	Stochastic noise tolerance: Enhanced full state observer vs. Kalman filter from video tracking perspective. <i>Journal of Electronics</i> , 2010 , 27, 557-563		6
48	Subjective Quality Database and Objective Study of Compressed Point Clouds with 6DoF Head-mounted Display. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 1-1	6.4	6
47	Cubemap-Based Perception-Driven Blind Quality Assessment for 360-degree Images. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 2364-2377	8.7	6
46	Online Learning-Based Multi-Stage Complexity Control for Live Video Coding. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 641-656	8.7	6
45	Instant coherent group motion filtering by group motion representations. <i>Neurocomputing</i> , 2017 , 266, 304-314	5.4	5
44	View synthesis distortion elimination filter for depth video coding in 3D video broadcasting. <i>Multimedia Tools and Applications</i> , 2015 , 74, 5935-5954	2.5	5
43	Binocular vision based objective quality assessment method for stereoscopic images. <i>Multimedia Tools and Applications</i> , 2015 , 74, 8197-8218	2.5	5
42	A Universal Rate Control Scheme for Video Transcoding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2012 , 22, 489-501	6.4	5

41	Fast macroblock mode selection algorithm for multiview depth video coding. <i>Chinese Optics Letters</i> , 2010 , 8, 151-154	2.2	5
40	Object-based depth image-based rendering for a three-dimensional video system by color-correction optimization. <i>Optical Engineering</i> , 2011 , 50, 047006	1.1	5
39	Projection Invariant Feature and Visual Saliency-Based Stereoscopic Omnidirectional Image Quality Assessment. <i>IEEE Transactions on Broadcasting</i> , 2021 , 67, 512-523	4.7	5
38	Deep Learning-Based Chroma Prediction for Intra Versatile Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 3168-3181	6.4	5
37	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	2.5	4
36	Depth perceptual quality assessment for symmetrically and asymmetrically distorted stereoscopic 3D videos. <i>Signal Processing: Image Communication</i> , 2019 , 78, 293-305	2.8	4
35	Parts-based stereoscopic image assessment by learning binocular manifold color visual properties. <i>Journal of Electronic Imaging</i> , 2016 , 25, 061611	0.7	4
34	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	8.7	4
33	Predictive and distribution-oriented fast motion estimation for H.264/AVC. <i>Journal of Real-Time Image Processing</i> , 2012 , 9, 597	1.9	4
32	Interactive Subjective Study on Picture-level Just Noticeable Difference of Compressed Stereoscopic Images 2019 ,		3
31	Global and local exploitation for saliency using bag-of-words. <i>IET Computer Vision</i> , 2014 , 8, 299-304	1.4	3
30	Multi-task rank learning for image quality assessment 2015 ,		3
29	Viewport Perception Based Blind Stereoscopic Omnidirectional Image Quality Assessment. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 31, 3926-3941	6.4	3
28	Novel visibility threshold model for asymmetrically distorted stereoscopic images 2016 ,		3
27	Deep Learning Based Just Noticeable Difference and Perceptual Quality Prediction Models for Compressed Video. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2021 , 1-1	6.4	3
26	Visual comfort prediction for stereoscopic image using stereoscopic visual saliency. <i>Multimedia Tools and Applications</i> , 2017 , 76, 23499-23516	2.5	2
25	Satisfied User Ratio Prediction with Support Vector Regression for Compressed Stereo Images 2020 ,		1
24	Perception-Based CTU Level Bit Allocation for Intra High Efficiency Video Coding. <i>IEEE Access</i> , 2019 , 7, 154959-154970	3.5	1

23	Binocular combination and fractional differential based 3D image quality assessment 2015 ,		1
22	Fast Transform Unit Depth Decision Based on Quantized Coefficients for HEVC 2015 ,		1
21	Depth No-Synthesis-Error Time-Consistent Preprocessing for Depth Coding in FVV System. <i>Procedia Engineering</i> , 2012 , 29, 2572-2577		1
20	An Approach to Multi-Modal Multi-View Video Coding 2006 ,		1
19	Allowable depth distortion based depth filtering for 3D high efficiency video coding 2016 ,		1
18	On Energy Compaction of 2D Saab Image Transforms 2019 ,		1
17	Circular intra prediction for 360 degree video coding. <i>Journal of Visual Communication and Image Representation</i> , 2021 , 74, 103000	2.7	1
16	Image processing for synthesis imaging of mingantu spectral radioheliograph (MUSER). <i>Multimedia Tools and Applications</i> , 2018 , 77, 20937-20954	2.5	1
15	Learning-Based Satisfied User Ratio Prediction for Symmetrically and Asymmetrically Compressed Stereoscopic Images. <i>IEEE MultiMedia</i> , 2021 , 28, 8-20	2.1	1
14	Highly Efficient Multiview Depth Coding Based on Histogram Projection and Allowable Depth Distortion. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 402-417	8.7	1
13	A Multiple Hexagon Search Algorithm for Motion and Disparity Estimation in Multiview Video Coding 2013 , 113-122		1
12	Salient object detection via reliability-based depth compactness and depth contrast. <i>IET Image Processing</i> , 2020 , 14, 3623-3631	1.7	0
11	High Efficiency Intra Video Coding Based on Data-Driven Transform. <i>IEEE Transactions on Broadcasting</i> , 2021 , 1-14	4.7	0
10	Learning Based Fast H.264/AVC to HEVC INTRA Video Transcoding for Cloud Media Computing. <i>Lecture Notes in Computer Science</i> , 2017 , 385-395	0.9	0
9	Compression Artifacts Reduction for Depth Map by Deep Intensity Guidance. <i>Lecture Notes in Computer Science</i> , 2018 , 863-872	0.9	
8	Estimation of rock-aggregate volume based on PCA and LM-optimized neural network. <i>Journal of Electronics</i> , 2009 , 26, 825-830		
7	Aggregate volumetric estimation based on PCA and momentum-enhanced BP neural network. <i>Journal of Electronics</i> , 2009 , 26, 637-643		
6	Influence of stochastic noise statistics on Kalman filter performance based on video target tracking. <i>Journal of Electronics</i> , 2010 , 27, 420-427		

- 5 Rate-distortion optimization based on view synthesis for depth video coding **2015**, 1257-1261
- 4 Depth-Spatio-Temporal Joint Region-of-Interest Extraction and Tracking for 3D Video. *Lecture Notes in Computer Science*, **2009**, 268-276 0.9
- 3 Adaptive Rate-Distortion Prediction for Multiple Reference Selection and Inter-mode Decision. *Lecture Notes in Computer Science*, **2012**, 484-491 0.9
- 2 Disparity and Motion Activity Based Mode Prediction for Fast Mode Decision in Multiview Video Coding **2013**, 177-187
- 1 Joint Source-Channel Decoding of Polar Codes for HEVC-Based Video Streaming. *ACM Transactions on Multimedia Computing, Communications and Applications*, **2022**, 18, 1-23 3-4