Alan Bovik

List of Publications by Year
in descending order

554 papers	86,379 citations	5248 83 h-index	373 281 g-index
558 all docs	558 docs citations	558 times ranked	32851 citing authors

#	Article	IF	Citations
1	Image Quality Assessment: From Error Visibility to Structural Similarity. IEEE Transactions on Image Processing, 2004, 13, 600-612.	6.0	34,925
2	A universal image quality index. IEEE Signal Processing Letters, 2002, 9, 81-84.	2.1	4,638
3	No-Reference Image Quality Assessment in the Spatial Domain. IEEE Transactions on Image Processing, 2012, 21, 4695-4708.	6.0	3,654
4	Making a "Completely Blind" Image Quality Analyzer. IEEE Signal Processing Letters, 2013, 20, 209-212.	2.1	3,563
5	Image information and visual quality. IEEE Transactions on Image Processing, 2006, 15, 430-444.	6.0	2,925
6	A Statistical Evaluation of Recent Full Reference Image Quality Assessment Algorithms. IEEE Transactions on Image Processing, 2006, 15, 3440-3451.	6.0	2,189
7	Blind Image Quality Assessment: From Natural Scene Statistics to Perceptual Quality. IEEE Transactions on Image Processing, 2011, 20, 3350-3364.	6.0	1,445
8	Blind Image Quality Assessment: A Natural Scene Statistics Approach in the DCT Domain. IEEE Transactions on Image Processing, 2012, 21, 3339-3352.	6.0	1,411
9	Multichannel texture analysis using localized spatial filters. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1990, 12, 55-73.	9.7	1,145
10	Gradient Magnitude Similarity Deviation: A Highly Efficient Perceptual Image Quality Index. IEEE Transactions on Image Processing, 2014, 23, 684-695.	6.0	1,131
11	An information fidelity criterion for image quality assessment using natural scene statistics. IEEE Transactions on Image Processing, 2005, 14, 2117-2128.	6.0	1,091
12	Study of Subjective and Objective Quality Assessment of Video. IEEE Transactions on Image Processing, 2010, 19, 1427-1441.	6.0	1,053
13	A Two-Step Framework for Constructing Blind Image Quality Indices. IEEE Signal Processing Letters, 2010, 17, 513-516.	2.1	1,018
14	Video quality assessment based on structural distortion measurement. Signal Processing: Image Communication, 2004, 19, 121-132.	1.8	798
15	A Feature-Enriched Completely Blind Image Quality Evaluator. IEEE Transactions on Image Processing, 2015, 24, 2579-2591.	6.0	770
16	Image quality assessment based on a degradation model. IEEE Transactions on Image Processing, 2000, 9, 636-650.	6.0	640
17	Motion Tuned Spatio-Temporal Quality Assessment of Natural Videos. IEEE Transactions on Image Processing, 2010, 19, 335-350.	6.0	639
18	A generalization of median filtering using linear combinations of order statistics. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1983, 31, 1342-1350.	2.0	511

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19	No-reference image quality assessment based on spatial and spectral entropies. Signal Processing: Image Communication, 2014, 29, 856-863.	1.8	507
20	Referenceless Prediction of Perceptual Fog Density and Perceptual Image Defogging. IEEE Transactions on Image Processing, 2015, 24, 3888-3901.	6.0	503
21	Blind Image Quality Assessment Using Joint Statistics of Gradient Magnitude and Laplacian Features. IEEE Transactions on Image Processing, 2014, 23, 4850-4862.	6.0	492
22	Complex Wavelet Structural Similarity: A New Image Similarity Index. IEEE Transactions on Image Processing, 2009, 18, 2385-2401.	6.0	475
23	Why is image quality assessment so difficult?. , 2002, , .		473
24	Modern Image Quality Assessment. Synthesis Lectures on Image, Video, and Multimedia Processing, 2006, 2, 1-156.	0.9	472
25	No-reference quality assessment using natural scene statistics: JPEG2000. IEEE Transactions on Image Processing, 2005, 14, 1918-1927.	6.0	466
26	Massive Online Crowdsourced Study of Subjective and Objective Picture Quality. IEEE Transactions on Image Processing, 2016, 25, 372-387.	6.0	433
27	Blind Prediction of Natural Video Quality. IEEE Transactions on Image Processing, 2014, 23, 1352-1365.	6.0	380
28	RRED Indices: Reduced Reference Entropic Differencing for Image Quality Assessment. IEEE Transactions on Image Processing, 2012, 21, 517-526.	6.0	333
29	A DCT Statistics-Based Blind Image Quality Index. IEEE Signal Processing Letters, 2010, 17, 583-586.	2.1	325
30	Full-reference quality assessment of stereopairs accounting for rivalry. Signal Processing: Image Communication, 2013, 28, 1143-1155.	1.8	304
31	Visual Importance Pooling for Image Quality Assessment. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 193-201.	7.3	279
32	Video Quality Assessment by Reduced Reference Spatio-Temporal Entropic Differencing. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 684-694.	5.6	263
33	Blind Image Quality Assessment Using a General Regression Neural Network. IEEE Transactions on Neural Networks, 2011, 22, 793-799.	4.8	253
34	Subjective evaluation of stereoscopic image quality. Signal Processing: Image Communication, 2013, 28, 870-883.	1.8	243
35	No-Reference Quality Assessment of Natural Stereopairs. IEEE Transactions on Image Processing, 2013, 22, 3379-3391.	6.0	242
36	Quality-aware images. IEEE Transactions on Image Processing, 2006, 15, 1680-1689.	6.0	241

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37	Video Quality Assessment on Mobile Devices: Subjective, Behavioral and Objective Studies. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 652-671.	7.3	241
38	A Completely Blind Video Integrity Oracle. IEEE Transactions on Image Processing, 2016, 25, 289-300.	6.0	229
39	Reduced- and No-Reference Image Quality Assessment. IEEE Signal Processing Magazine, 2011, 28, 29-40.	4.6	227
40	Deep Convolutional Neural Models for Picture-Quality Prediction: Challenges and Solutions to Data-Driven Image Quality Assessment. IEEE Signal Processing Magazine, 2017, 34, 130-141.	4.6	226
41	Perceptual quality prediction on authentically distorted images using a bag of features approach. Journal of Vision, 2017, 17, 32.	0.1	212
42	Computer-Aided Detection and Diagnosis in Mammography. , 2005, , 1195-1217.		211
43	Anthropometric 3D Face Recognition. International Journal of Computer Vision, 2010, 90, 331-349.	10.9	211
44	No-Reference Quality Assessment of Screen Content Pictures. IEEE Transactions on Image Processing, 2017, 26, 4005-4018.	6.0	210
45	Objective quality assessment of multiply distorted images. , 2012, , .		208
46	Melanoma Classification on Dermoscopy Images Using a Neural Network Ensemble Model. IEEE Transactions on Medical Imaging, 2017, 36, 849-858.	5.4	201
47	Blind image quality assessment by relative gradient statistics and adaboosting neural network. Signal Processing: Image Communication, 2016, 40, 1-15.	1.8	198
48	Blind/Referenceless Image Spatial Quality Evaluator. , 2011, , .		183
49	Embedded foveation image coding. IEEE Transactions on Image Processing, 2001, 10, 1397-1410.	6.0	171
50	The Effect of Median Filtering on Edge Estimation and Detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1987, PAMI-9, 181-194.	9.7	169
51	Foveation scalable video coding with automatic fixation selection. IEEE Transactions on Image Processing, 2003, 12, 243-254.	6.0	164
52	AM-FM energy detection and separation in noise using multiband energy operators. IEEE Transactions on Signal Processing, 1993, 41, 3245-3265.	3.2	162
53	Large-Scale Study of Perceptual Video Quality. IEEE Transactions on Image Processing, 2019, 28, 612-627.	6.0	154
54	On detecting edges in speckle imagery. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1988, 36, 1618-1627.	2.0	151

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55	GAFFE: A Gaze-Attentive Fixation Finding Engine. IEEE Transactions on Image Processing, 2008, 17, 564-573.	6.0	150
56	Analysis of multichannel narrow-band filters for image texture segmentation. IEEE Transactions on Signal Processing, 1991, 39, 2025-2043.	3.2	148
57	No-reference image quality assessment in curvelet domain. Signal Processing: Image Communication, 2014, 29, 494-505.	1.8	146
58	Localized measurement of emergent image frequencies by Gabor wavelets. IEEE Transactions on Information Theory, 1992, 38, 691-712.	1.5	143
59	Streaking in median filtered images. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1987, 35, 493-503.	2.0	133
60	A subjective study to evaluate video quality assessment algorithms. Proceedings of SPIE, 2010, , .	0.8	133
61	No-Reference Quality Assessment of Tone-Mapped HDR Pictures. IEEE Transactions on Image Processing, 2017, 26, 2957-2971.	6.0	132
62	Study of Subjective and Objective Quality Assessment of Audio-Visual Signals. IEEE Transactions on Image Processing, 2020, 29, 6054-6068.	6.0	128
63	UGC-VQA: Benchmarking Blind Video Quality Assessment for User Generated Content. IEEE Transactions on Image Processing, 2021, 30, 4449-4464.	6.0	128
64	Quality Assessment of Deblocked Images. IEEE Transactions on Image Processing, 2011, 20, 88-98.	6.0	122
65	Blind Image Quality Assessment Without Human Training Using Latent Quality Factors. IEEE Signal Processing Letters, 2012, 19, 75-78.	2.1	122
66	Study of Temporal Effects on Subjective Video Quality of Experience. IEEE Transactions on Image Processing, 2017, 26, 5217-5231.	6.0	122
67	Shape from texture using local spectral moments. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1995, 17, 333-343.	9.7	119
68	From Patches to Pictures (PaQ-2-PiQ): Mapping the Perceptual Space of Picture Quality. , 2020, , .		116
69	Foveated video compression with optimal rate control. IEEE Transactions on Image Processing, 2001, 10, 977-992.	6.0	114
70	Content-partitioned structural similarity index for image quality assessment. Signal Processing: Image Communication, 2010, 25, 517-526.	1.8	114
71	Rate Bounds on SSIM Index of Quantized Images. IEEE Transactions on Image Processing, 2008, 17, 1624-1639.	6.0	113
72	SpEED-QA: Spatial Efficient Entropic Differencing for Image and Video Quality. IEEE Signal Processing Letters, 2017, 24, 1333-1337.	2.1	112

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73	Texas 3D Face Recognition Database. , 2010, , .		107
74	Automatic segmentation of dermoscopy images using self-generating neural networks seeded by genetic algorithm. Pattern Recognition, 2013, 46, 1012-1019.	5.1	105
75	Adaptive trimmed mean filters for image restoration. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1988, 36, 1326-1337.	2.0	103
76	Texture segmentation using Gabor modulation/demodulation. Pattern Recognition Letters, 1987, 6, 261-267.	2.6	102
77	Visual pattern image coding. IEEE Transactions on Communications, 1990, 38, 2137-2146.	4.9	102
78	Image demodulation using multidimensional energy separation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 1867.	0.8	102
79	Foveated video quality assessment. IEEE Transactions on Multimedia, 2002, 4, 129-132.	5.2	101
80	Video Quality Pooling Adaptive to Perceptual Distortion Severity. IEEE Transactions on Image Processing, 2013, 22, 610-620.	6.0	101
81	Modeling and quality assessment of halftoning by error diffusion. IEEE Transactions on Image Processing, 2000, 9, 909-922.	6.0	98
82	Wireless Video Quality Assessment: A Study of Subjective Scores and Objective Algorithms. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 587-599.	5.6	98
83	Multidimensional quasi-eigenfunction approximations and multicomponent AM-FM models. IEEE Transactions on Image Processing, 2000, 9, 227-242.	6.0	97
84	Visual quality assessment algorithms: what does the future hold?. Multimedia Tools and Applications, 2011, 51, 675-696.	2.6	97
85	Direct Raman imaging techniques for study of the subcellular distribution of a drug. Applied Optics, 2002, 41, 6006.	2.1	95
86	RivaMap: An automated river analysis and mapping engine. Remote Sensing of Environment, 2017, 202, 88-97.	4.6	95
87	Temporal hysteresis model of time varying subjective video quality. , 2011, , .		93
88	Night-time dehazing by fusion. , 2016, , .		91
89	Smoothing low-SNR molecular images via anisotropic median-diffusion. IEEE Transactions on Medical Imaging, 2002, 21, 377-384.	5.4	90
90	Automatic Prediction of Perceptual Image and Video Quality. Proceedings of the IEEE, 2013, PP, 1-17.	16.4	90

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91	Computer lipreading for improved accuracy in automatic speech recognition. IEEE Transactions on Speech and Audio Processing, 1996, 4, 337-351.	2.0	89
92	DCT statistics model-based blind image quality assessment. , 2011, , .		87
93	Blind Quality Assessment of Fused WorldView-3 Images by Using the Combinations of Pansharpening and Hypersharpening Paradigms. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1835-1839.	1.4	87
94	Saliency Prediction on Stereoscopic Videos. IEEE Transactions on Image Processing, 2014, 23, 1476-1490.	6.0	86
95	Oriented Correlation Models of Distorted Natural Images With Application to Natural Stereopair Quality Evaluation. IEEE Transactions on Image Processing, 2015, 24, 1685-1699.	6.0	85
96	Planar surface orientation from texture spatial frequencies. Pattern Recognition, 1995, 28, 729-743.	5.1	84
97	Design of Linear Equalizers Optimized for the Structural Similarity Index. IEEE Transactions on Image Processing, 2008, 17, 857-872.	6.0	84
98	In-Capture Mobile Video Distortions: A Study of Subjective Behavior and Objective Algorithms. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2061-2077.	5.6	84
99	C-DIIVINE: No-reference image quality assessment based on local magnitude and phase statistics of natural scenes. Signal Processing: Image Communication, 2014, 29, 725-747.	1.8	83
100	RAPIQUE: Rapid and Accurate Video Quality Prediction of User Generated Content. IEEE Open Journal of Signal Processing, 2021, 2, 425-440.	2.3	82
101	A Subjective and Objective Study of Stalling Events in Mobile Streaming Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 183-197.	5.6	81
102	Maximum-likelihood techniques for joint segmentation-classification of multispectral chromosome images. IEEE Transactions on Medical Imaging, 2005, 24, 1593-1610.	5.4	79
103	Fast structural similarity index algorithm. Journal of Real-Time Image Processing, 2011, 6, 281-287.	2.2	79
104	3D Visual Discomfort Predictor: Analysis of Disparity and Neural Activity Statistics. IEEE Transactions on Image Processing, 2015, 24, 1101-1114.	6.0	79
105	Modeling the Time—Varying Subjective Quality of HTTP Video Streams With Rate Adaptations. IEEE Transactions on Image Processing, 2014, 23, 2206-2221.	6.0	78
106	Spatiotemporal Feature Integration and Model Fusion for Full Reference Video Quality Assessment. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2256-2270.	5.6	78
107	Theory of order statistic filters and their relationship to linear FIR filters. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1989, 37, 275-287.	2.0	77
108	A Structural Similarity Metric for Video Based on Motion Models. , 2007, , .		76

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109	Color as a source of information in the stereo correspondence process. Vision Research, 1990, 30, 1955-1970.	0.7	72
110	Experiments in segmenting texton patterns using localized spatial filters. Pattern Recognition, 1989, 22, 707-717.	5.1	71
111	The multicomponent AM-FM image representation. IEEE Transactions on Image Processing, 1996, 5, 1094-1100.	6.0	71
112	DOVES: a database of visual eye movements. Spatial Vision, 2009, 22, 161-177.	1.4	71
113	Disparity statistics in natural scenes. Journal of Vision, 2008, 8, 19-19.	0.1	69
114	Visual search in noise: Revealing the influence of structural cues by gaze-contingent classification image analysis. Journal of Vision, 2006, 6, 7.	0.1	66
115	Unifying analysis of full reference image quality assessment. , 2008, , .		64
116	Patch-VQ: â€˜Patching Upâ€™ the Video Quality Problem. , 2021, , .		64
117	Binocular spatial activity and reverse saliency driven no-reference stereopair quality assessment. Signal Processing: Image Communication, 2017, 58, 287-299.	1.8	63
118	Bitplane-by-bitplane shift (BbBShift) - A suggestion for JPEG2000 region of interest image coding. IEEE Signal Processing Letters, 2002, 9, 160-162.	2.1	62
119	3D Visual Discomfort Prediction: Vergence, Foveation, and the Physiological Optics of Accommodation. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 415-427.	7.3	62
120	Recurrent and Dynamic Models for Predicting Streaming Video Quality of Experience. IEEE Transactions on Image Processing, 2018, 27, 3316-3331.	6.0	60
121	Three-component weighted structural similarity index. Proceedings of SPIE, 2009, , .	0.8	59
122	Graph-Driven Diffusion and Random Walk Schemes for Image Segmentation. IEEE Transactions on Image Processing, 2017, 26, 35-50.	6.0	59
123	Localized measurement of image fractal dimension using gabor filters. Journal of Visual Communication and Image Representation, 1991, 2, 114-128.	1.7	57
124	Day and Night-Time Dehazing by Local Airlight Estimation. IEEE Transactions on Image Processing, 2020, 29, 6264-6275.	6.0	57
125	Fast algorithms for foveated video processing. IEEE Transactions on Circuits and Systems for Video Technology, 2003, 13, 149-162.	5.6	56
126	An image model and segmentation algorithm for reflectance confocal images of in vivo cervical tissue. IEEE Transactions on Image Processing, 2005, 14, 1265-1276.	6.0	56

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127	Image Quality Assessment Using Contrastive Learning. IEEE Transactions on Image Processing, 2022, 31, 4149-4161.	6.0	55
128	Large-Scale Crowdsourced Study for Tone-Mapped HDR Pictures. IEEE Transactions on Image Processing, 2017, 26, 4725-4740.	6.0	54
129	2008, 35, 2110-2123.	1.6	53
130	Tasking on Natural Statistics of Infrared Images. IEEE Transactions on Image Processing, 2016, 25, 65-79.	6.0	53
131	Supervised parametric and non-parametric classification of chromosome images. Pattern Recognition, 2005, 38, 1209-1223.	5.1	52
132	Analyzing Image Structure by Multidimensional Frequency Modulation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 753-766.	9.7	52
133	Temporal Video Quality Model Accounting for Variable Frame Delay Distortions. IEEE Transactions on Broadcasting, 2014, 60, 637-649.	2.5	52
134	Contrast statistics for foveated visual systems: fixation selection by minimizing contrast entropy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2039.	0.8	51
135	Structural Approaches to Image Quality Assessment. , 2005, , 961-974.		51
136	Statistical Modeling of 3-D Natural Scenes With Application to Bayesian Stereopsis. IEEE Transactions on Image Processing, 2011, 20, 2515-2530.	6.0	49
137	Nonparametric tests for edge detection in noise. Pattern Recognition, 1986, 19, 209-219.	5.1	48
138	No-reference image blur assessment using multiscale gradient. Eurasip Journal on Image and Video Processing, 2011, 2011, .	1.7	48
139	Learning a Continuous-Time Streaming Video QoE Model. IEEE Transactions on Image Processing, 2018, 27, 2257-2271.	6.0	48
140	A New Technique for Digital Fluoroscopic Video Assessment of Sagittal Plane Lumbar Spine Motion. Spine, 2005, 30, E406-E413.	1.0	46
141	No-reference image blur index based on singular value curve. Journal of Visual Communication and Image Representation, 2014, 25, 1625-1630.	1.7	46
142	Stereoscopic 3D Visual Discomfort Prediction: A Dynamic Accommodation and Vergence Interaction Model. IEEE Transactions on Image Processing, 2016, 25, 615-629.	6.0	46
143	A Comparative Evaluation Of Temporal Pooling Methods For Blind Video Quality Assessment. , 2020, , .		46
144	A Fully Automated Microfluidic Femtosecond Laser Axotomy Platform for Nerve Regeneration Studies in C. elegans. PLoS ONE, 2014, 9, e113917.	1.1	45

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145	FOVEA: a foveated vergent active stereo vision system for dynamic three-dimensional scene recovery. IEEE Transactions on Automation Science and Engineering, 1998, 14, 755-770.	2.4	44
146	Continuous Prediction of Streaming Video QoE Using Dynamic Networks. IEEE Signal Processing Letters, 2017, 24, 1083-1087.	2.1	43
147	Algorithmic assessment of 3D quality of experience for images and videos. , 2011, , .		42
148	3D Visual Activity Assessment Based on Natural Scene Statistics. IEEE Transactions on Image Processing, 2014, 23, 450-465.	6.0	42
149	Rate Adaptation and Admission Control for Video Transmission With Subjective Quality Constraints. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 22-36.	7.3	42
150	Modeling the Perceptual Quality of Immersive Images Rendered on Head Mounted Displays: Resolution and Compression. IEEE Transactions on Image Processing, 2018, 27, 6039-6050.	6.0	42
151	Evaluation of temporal variation of video quality in packet loss networks. Signal Processing: Image Communication, 2011, 26, 24-38.	1.8	41
152	Survey of information theory in visual quality assessment. Signal, Image and Video Processing, 2013, 7, 391-401.	1.7	41
153	Study of the effects of stalling events on the quality of experience of mobile streaming videos. , 2014, , .		41
154	Blind Image Quality Assessment with a Probabilistic Quality Representation. , 2018, , .		41
155	Edge detection using median comparisons. Computer Vision, Graphics, and Image Processing, 1986, 33, 377-389.	1.1	40
156	Locally monotonic regression. IEEE Transactions on Signal Processing, 1993, 41, 2796-2810.	3.2	40
157	Oriented texture completion by AM-FM reaction-diffusion. IEEE Transactions on Image Processing, 2001, 10, 885-896.	6.0	40
158	Information Theoretic Approaches to Image Quality Assessment. , 2005, , 975-989.		40
159	Color and Depth Priors in Natural Images. IEEE Transactions on Image Processing, 2013, 22, 2259-2274.	6.0	39
160	ProxIQA: A Proxy Approach to Perceptual Optimization of Learned Image Compression. IEEE Transactions on Image Processing, 2021, 30, 360-373.	6.0	39
161	Unequal Power Allocation for JPEG Transmission Over MIMO Systems. IEEE Transactions on Image Processing, 2010, 19, 410-421.	6.0	38
162	Multimodal Interactive Continuous Scoring of Subjective 3D Video Quality of Experience. IEEE Transactions on Multimedia, 2014, 16, 387-402.	5.2	38

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163	Fingerprint classification using an AM-FM model. IEEE Transactions on Image Processing, 2001, 10, 951-954.	6.0	37
164	Evidence based detection of spiculated masses and architectural distortions. , 2005, , .		37
165	Statistics of natural image distortions. , 2010, , .		37
166	Using chromatic information in dense stereo correspondence. Pattern Recognition, 1992, 25, 367-383.	5.1	36
167	3D Face Recognition Founded on the Structural Diversity of Human Faces. , 2007, , .		36
168	Content-weighted video quality assessment using a three-component image model. Journal of Electronic Imaging, 2010, 19, 011003.	0.5	36
169	Automatic prediction of perceptual quality of multimedia signalsâ€"a survey. Multimedia Tools and Applications, 2011, 51, 163-186.	2.6	36
170	Edge-sensitive image restoration using order-constrained least squares methods. IEEE Transactions on Acoustics, Speech, and Signal Processing, 1985, 33, 1253-1263.	2.0	35
171	A joint source-channel distortion model for JPEG compressed images. IEEE Transactions on Image Processing, 2006, 15, 1349-1364.	6.0	35
172	Motion-based perceptual quality assessment of video. , 2009, , .		35
173	Automatic Channel Network Extraction From Remotely Sensed Images by Singularity Analysis. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2218-2221.	1.4	35
174	Predicting the Quality of Images Compressed After Distortion in Two Steps. IEEE Transactions on Image Processing, 2019, 28, 5757-5770.	6.0	35
175	Seeing Through the Clouds With DeepWaterMap. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1662-1666.	1.4	35
176	On the instantaneous frequencies of multicomponent AM-FM signals. IEEE Signal Processing Letters, 1998, 5, 84-86.	2.1	34
177	Foveated analysis of image features at fixations. Vision Research, 2007, 47, 3160-3172.	0.7	34
178	Snakules: A Model-Based Active Contour Algorithm for the Annotation of Spicules on Mammography. IEEE Transactions on Medical Imaging, 2010, 29, 1768-1780.	5.4	34
179	Blind quality assessment of videos using a model of natural scene statistics and motion coherency. , 2012, , .		34
180	Making image quality assessment robust. , 2012, , .		33

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182	Blind image quality assessment on real distorted images using deep belief nets. , 2014, , .		32
183	Study of 3D Virtual Reality Picture Quality. IEEE Journal on Selected Topics in Signal Processing, 2020, 14, 89-102.	7.3	32
184	A contour-based stereo matching algorithm using disparity continuity. Pattern Recognition, 1988, 21, 505-514.	5.1	31
185	Passive Multimodal 2-D+3-D Face Recognition Using Gabor Features and Landmark Distances. IEEE Transactions on Information Forensics and Security, 2011, 6, 1287-1304.	4.5	31
186	Dynamic Receptive Field Generation for Full-Reference Image Quality Assessment. IEEE Transactions on Image Processing, 2020, 29, 4219-4231.	6.0	31
187	ANGIOGENESIS IN CULTURED AND CRYOPRESERVED PANCREATIC ISLET GRAFTS1. Transplantation, 1997, 63, 1652-1660.	0.5	31
188	Scanning electrochemical microscopy. 11. Improvement of image resolution by digital processing techniques. Analytical Chemistry, 1991, 63, 2442-2447.	3.2	30
189	On eigenstructure-based direct multichannel blind image restoration. IEEE Transactions on Image Processing, 2001, 10, 1434-1446.	6.0	30
190	Real-time foveation techniques for low bit rate video coding. Real Time Imaging, 2003, 9, 27-40.	1.6	30
191	Efficient Video Quality Assessment Along Temporal Trajectories. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1653-1658.	5.6	30
192	Study of Subjective Quality and Objective Blind Quality Prediction of Stereoscopic Videos. IEEE Transactions on Image Processing, 2019, 28, 5027-5040.	6.0	30
193	Eye movements selective for spatial frequency and orientation during active visual search. Vision Research, 2009, 49, 173-181.	0.7	29
194	No-reference image blur assessment using multiscale gradient. , 2009, , .		29
195	No-reference blur index using blur comparisons. Electronics Letters, 2011, 47, 962.	0.5	28
196	ST-GREED: Space-Time Generalized Entropic Differences for Frame Rate Dependent Video Quality Prediction. IEEE Transactions on Image Processing, 2021, 30, 7446-7457.	6.0	28
197	A Hitchhiker's Guide to Structural Similarity. IEEE Access, 2021, 9, 28872-28896.	2.6	28
198	Visual pattern image sequence coding. IEEE Transactions on Circuits and Systems for Video Technology, 1993, 3, 291-301.	5.6	27

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200	Point-of-gaze analysis reveals visual search strategies. , 2004, , .		27
201	Using chromatic information in edge-based stereo correspondence. CVGIP Image Understanding, 1991, 54, 98-118.	1.3	26
202	AM-FM Image Models: Fundamental Techniques and Emerging Trends. , 2005, , 377-395.		26
203	Perceptually significant spatial pooling techniques for image quality assessment. Proceedings of SPIE, 2009, , .	0.8	26
204	Dichotomy between luminance and disparity features at binocular fixations. Journal of Vision, 2010, 10, 23-23.	0.1	26
205	A Markov Decision Model for Adaptive Scheduling of Stored Scalable Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1081-1095.	5.6	26
206	Feature-based prediction of streaming video QoE: Distortions, stalling and memory. Signal Processing: Image Communication, 2018, 68, 218-228.	1.8	26
207	Blind Noisy Image Quality Assessment Using Sub-Band Kurtosis. IEEE Transactions on Cybernetics, 2020, 50, 1146-1156.	6.2	26
208	Towards Video Processing. , 2009, , 833-834.		26
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