

Feng Shao

List of Publications by Year in descending order

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151
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times ranked

1292
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing Multistage Discriminative Dictionaries for Blind Image Quality Assessment. IEEE Transactions on Multimedia, 2018, 20, 2035-2048.	7.2	179
2	Perceptual Full-Reference Quality Assessment of Stereoscopic Images by Considering Binocular Visual Characteristics. IEEE Transactions on Image Processing, 2013, 22, 1940-1953.	9.8	176
3	Unified No-Reference Quality Assessment of Singly and Multiply Distorted Stereoscopic Images. IEEE Transactions on Image Processing, 2019, 28, 1866-1881.	9.8	127
4	Full-Reference Quality Assessment of Stereoscopic Images by Learning Binocular Receptive Field Properties. IEEE Transactions on Image Processing, 2015, 24, 2971-2983.	9.8	107
5	A Large-Scale Benchmark Data Set for Evaluating Pansharpening Performance: Overview and Implementation. IEEE Geoscience and Remote Sensing Magazine, 2021, 9, 18-52.	9.6	92
6	Asymmetric Coding of Multi-View Video Plus Depth Based 3-D Video for View Rendering. IEEE Transactions on Multimedia, 2012, 14, 157-167.	7.2	85
7	Underwater Image Enhancement Quality Evaluation: Benchmark Dataset and Objective Metric. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 5959-5974.	8.3	72
8	Toward a Blind Deep Quality Evaluator for Stereoscopic Images Based on Monocular and Binocular Interactions. IEEE Transactions on Image Processing, 2016, 25, 2059-2074.	9.8	70
9	BLIQUE-TMI: Blind Quality Evaluator for Tone-Mapped Images Based on Local and Global Feature Analyses. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 323-335.	8.3	52
10	Single Image Super-Resolution Quality Assessment: A Real-World Dataset, Subjective Studies, and an Objective Metric. IEEE Transactions on Image Processing, 2022, 31, 2279-2294.	9.8	49
11	Three-dimensional visual comfort assessment via preference learning. Journal of Electronic Imaging, 2015, 24, 043002.	0.9	45
12	Subjective quality analyses of stereoscopic images in 3DTV system. , 2011, , .		44
13	New fragile watermarking method for stereo image authentication with localization and recovery. AEU - International Journal of Electronics and Communications, 2015, 69, 361-370.	2.9	43
14	Learning Blind Quality Evaluator for Stereoscopic Images Using Joint Sparse Representation. IEEE Transactions on Multimedia, 2016, 18, 2104-2114.	7.2	42
15	Blind Image Quality Assessment for Stereoscopic Images Using Binocular Guided Quality Lookup and Visual Codebook. IEEE Transactions on Broadcasting, 2015, 61, 154-165.	3.2	40
16	Unsupervised Decomposition and Correction Network for Low-Light Image Enhancement. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19440-19455.	8.0	40
17	A depth perception and visual comfort guided computational model for stereoscopic 3D visual saliency. Signal Processing: Image Communication, 2015, 38, 57-69.	3.2	38
18	Learning Receptive Fields and Quality Lookups for Blind Quality Assessment of Stereoscopic Images. IEEE Transactions on Cybernetics, 2016, 46, 730-743.	9.5	38

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19	A SAR-to-Optical Image Translation Method Based on Conditional Generation Adversarial Network (cGAN). IEEE Access, 2020, 8, 60338-60343.	4.2	38
20	Using Binocular Feature Combination for Blind Quality Assessment of Stereoscopic Images. IEEE Signal Processing Letters, 2015, 22, 1548-1551.	3.6	37
21	QoE-Guided Warping for Stereoscopic Image Retargeting. IEEE Transactions on Image Processing, 2017, 26, 4790-4805.	9.8	37
22	Two-Branch Deep Neural Network for Underwater Image Enhancement in HSV Color Space. IEEE Signal Processing Letters, 2021, 28, 2152-2156.	3.6	33
23	On Predicting Visual Comfort of Stereoscopic Images: A Learning to Rank Based Approach. IEEE Signal Processing Letters, 2016, 23, 302-306.	3.6	32
24	Learning Sparse Representation for Objective Image Retargeting Quality Assessment. IEEE Transactions on Cybernetics, 2018, 48, 1276-1289.	9.5	32
25	Blind Image Quality Measurement by Exploiting High-Order Statistics With Deep Dictionary Encoding Network. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7398-7410.	4.7	32
26	Models of Monocular and Binocular Visual Perception in Quality Assessment of Stereoscopic Images. IEEE Transactions on Computational Imaging, 2016, 2, 123-135.	4.4	31
27	Automated Quality Assessment of Fundus Images via Analysis of Illumination, Naturalness and Structure. IEEE Access, 2018, 6, 806-817.	4.2	30
28	Difference of Gaussian statistical features based blind image quality assessment: A deep learning approach. , 2015, , .		29
29	A Full-Reference Stereoscopic Image Quality Measurement Via Hierarchical Deep Feature Degradation Fusion. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9784-9796.	4.7	29
30	CGMDRNet: Cross-Guided Modality Difference Reduction Network for RGB-T Salient Object Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 6308-6323.	8.3	29
31	Supervised dictionary learning for blind image quality assessment using quality-constraint sparse coding. Journal of Visual Communication and Image Representation, 2015, 33, 123-133.	2.8	28
32	Vision Transformer for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	28
33	Learning a referenceless stereopair quality engine with deep nonnegativity constrained sparse autoencoder. Pattern Recognition, 2018, 76, 242-255.	8.1	27
34	Stereoscopic video coding with asymmetric luminance and chrominance qualities. IEEE Transactions on Consumer Electronics, 2010, 56, 2460-2468.	3.6	26
35	Depth Map Coding for View Synthesis Based on Distortion Analyses. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2014, 4, 106-117.	3.6	26
36	Stereoscopic Visual Attention Guided Seam Carving for Stereoscopic Image Retargeting. Journal of Display Technology, 2016, 12, 22-30.	1.2	25

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37	Toward a Blind Quality Predictor for Screen Content Images. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1521-1530.	9.3	25
38	No-Reference View Synthesis Quality Prediction for 3-D Videos Based on Color-Depth Interactions. IEEE Transactions on Multimedia, 2018, 20, 659-674.	7.2	24
39	PMFS: A Perceptual Modulated Feature Similarity Metric for Stereoscopic Image Quality Assessment. IEEE Signal Processing Letters, 2014, 21, 1003-1006.	3.6	22
40	Visual discomfort relaxation for stereoscopic 3D images by adjusting zero-disparity plane for projection. Displays, 2015, 39, 125-132.	3.7	22
41	Learning Sparse Representation for No-Reference Quality Assessment of Multiply Distorted Stereoscopic Images. IEEE Transactions on Multimedia, 2017, 19, 1821-1836.	7.2	22
42	Toward Domain Transfer for No-Reference Quality Prediction of Asymmetrically Distorted Stereoscopic Images. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 573-585.	8.3	22
43	Toward Simultaneous Visual Comfort and Depth Sensation Optimization for Stereoscopic 3-D Experience. IEEE Transactions on Cybernetics, 2017, 47, 4521-4533.	9.5	20
44	Binocular perception based reduced-reference stereo video quality assessment method. Journal of Visual Communication and Image Representation, 2016, 38, 246-255.	2.8	19
45	Modeling the Perceptual Quality of Stereoscopic Images in the Primary Visual Cortex. IEEE Access, 2017, 5, 15706-15716.	4.2	18
46	Exploiting Local Degradation Characteristics and Global Statistical Properties for Blind Quality Assessment of Tone-Mapped HDR Images. IEEE Transactions on Multimedia, 2021, 23, 692-705.	7.2	18
47	Binocular energy response based quality assessment of stereoscopic images. , 2014, 29, 45-53.		17
48	Transformation-Aware Similarity Measurement for Image Retargeting Quality Assessment via Bidirectional Rewarping. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3053-3067.	9.3	17
49	Quality Assessment of Retargeted Images Using Hand-Crafted and Deep-Learned Features. IEEE Access, 2018, 6, 12008-12018.	4.2	16
50	Local and global sparse representation for no-reference quality assessment of stereoscopic images. Information Sciences, 2018, 422, 110-121.	6.9	16
51	Discriminative dictionary learning for retinal vessel segmentation using fusion of multiple features. Signal, Image and Video Processing, 2019, 13, 1529-1537.	2.7	16
52	Toward Top-Down Just Noticeable Difference Estimation of Natural Images. IEEE Transactions on Image Processing, 2022, 31, 3697-3712.	9.8	15
53	Joint structure-texture sparse coding for quality prediction of stereoscopic images. Electronics Letters, 2015, 51, 1994-1995.	1.0	14
54	Perceptual stereoscopic image quality assessment method with tensor decomposition and manifold learning. IET Image Processing, 2018, 12, 810-818.	2.5	14

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55	No-Reference Quality Assessment for Pansharpended Images via Opinion-Unaware Learning. IEEE Access, 2019, 7, 40388-40401.	4.2	14
56	No-Reference Image Contrast Evaluation by Generating Bidirectional Pseudoreferences. IEEE Transactions on Industrial Informatics, 2021, 17, 6062-6072.	11.3	14
57	Visual comfort assessment for stereoscopic images based on sparse coding with multi-scale dictionaries. Neurocomputing, 2017, 252, 77-86.	5.9	13
58	Leveraging visual attention and neural activity for stereoscopic 3D visual comfort assessment. Multimedia Tools and Applications, 2017, 76, 9405-9425.	3.9	12
59	A Blind Full-Resolution Quality Evaluation Method for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	12
60	Stereo image watermarking scheme for authentication with self-recovery capability using inter-view reference sharing. Multimedia Tools and Applications, 2014, 73, 1077-1102.	3.9	11
61	Low-Complexity Depth Coding by Depth Sensitivity Aware Rate-Distortion Optimization. IEEE Transactions on Broadcasting, 2016, 62, 94-102.	3.2	11
62	Inter-view local texture analysis based stereo image reversible data hiding. , 2016, 48, 116-129.		11
63	Roundness-Preserving Warping for Aesthetic Enhancement-Based Stereoscopic Image Editing. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 1463-1477.	8.3	11
64	LGGD+: Image Retargeting Quality Assessment by Measuring Local and Global Geometric Distortions. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3422-3437.	8.3	11
65	Spatio-temporal Spectral Collaborative Learning for Spatio-temporal Fusion with Land Cover Changes. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	11
66	Fast Macroblock Selection Algorithm for Multiview Video Coding Based on Inter-view Global Disparity. , 2008, , .		10
67	Optimizing visual comfort for stereoscopic 3D display based on color-plus-depth signals. Optics Express, 2016, 24, 11640.	3.4	10
68	Quality Assessment of 3D Synthesized Images via Measuring Local Feature Similarity and Global Sharpness. IEEE Access, 2019, 7, 10242-10253.	4.2	10
69	TSPR: Deep network-based blind image quality assessment using two-side pseudo reference images. , 2020, 106, 102849.		10
70	Subjective and Objective Quality Assessment for Stereoscopic Image Retargeting. IEEE Transactions on Multimedia, 2021, 23, 2100-2113.	7.2	10
71	VSOIQE: A Novel Viewport-Based Stitched 360° Omnidirectional Image Quality Evaluator. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 6557-6572.	8.3	10
72	Quality assessment for color correction-based stitched images via bi-directional matching. Journal of Visual Communication and Image Representation, 2021, 75, 103051.	2.8	9

#	ARTICLE	IF	CITATIONS
73	Monocular and Binocular Interactions Oriented Deformable Convolutional Networks for Blind Quality Assessment of Stereoscopic Omnidirectional Images. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 3407-3421.	8.3	9
74	Optimizing multiview video plus depth retargeting technique for stereoscopic 3D displays. Optics Express, 2017, 25, 12478.	3.4	8
75	A Risk-Aware Pairwise Rank Learning Approach for Visual Discomfort Prediction of Stereoscopic 3D. IEEE Signal Processing Letters, 2019, 26, 1588-1592.	3.6	8
76	Authentically Distorted Image Quality Assessment by Learning From Empirical Score Distributions. IEEE Signal Processing Letters, 2019, 26, 1867-1871.	3.6	8
77	MSTGAR: Multioperator-Based Stereoscopic Thumbnail Generation With Arbitrary Resolution. IEEE Transactions on Multimedia, 2020, 22, 1208-1219.	7.2	8
78	StereoARS: Quality Evaluation for Stereoscopic Image Retargeting With Binocular Inconsistency Detection. IEEE Transactions on Broadcasting, 2022, 68, 43-57.	3.2	8
79	PSTAF-GAN: Progressive Spatio-Temporal Attention Fusion Method Based on Generative Adversarial Network. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	8
80	Joint video/depth bit allocation for 3D video coding based on distortion of synthesized view. , 2012, , .		7
81	Binocular vision based objective quality assessment method for stereoscopic images. Multimedia Tools and Applications, 2015, 74, 8197-8218.	3.9	7
82	Multistage Pooling for Blind Quality Prediction of Asymmetric Multiply-Distorted Stereoscopic Images. IEEE Transactions on Multimedia, 2018, 20, 2605-2619.	7.2	7
83	Measuring Coarse-to-Fine Texture and Geometric Distortions for Quality Assessment of DIBR-Synthesized Images. IEEE Transactions on Multimedia, 2021, 23, 1173-1186.	7.2	7
84	Blind quality assessment of omnidirectional videos using spatio-temporal convolutional neural networks. Optik, 2021, 226, 165887.	2.9	7
85	Stitched image quality assessment based on local measurement errors and global statistical properties. Journal of Visual Communication and Image Representation, 2021, 81, 103324.	2.8	7
86	Cross-Modality Fusion and Progressive Integration Network for Saliency Prediction on Stereoscopic 3D Images. IEEE Transactions on Multimedia, 2022, 24, 2435-2448.	7.2	7
87	A New Image Correction Method for Multiview Video System. , 2006, , .		6
88	A novel rate control technique for asymmetric-quality stereoscopic video. IEEE Transactions on Consumer Electronics, 2011, 57, 1823-1829.	3.6	6
89	JND-based asymmetric coding of stereoscopic video for mobile 3DTV applications. , 2011, , .		6
90	A Simple Quality Assessment Index for Stereoscopic Images Based on 3D Gradient Magnitude. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	6

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91	Monocularâ€“binocular feature fidelity induced index for stereoscopic image quality assessment. Applied Optics, 2015, 54, 9671.	2.1	6
92	Sparse Representation for No-Reference Quality Assessment of Satellite Stereo Images. IEEE Access, 2019, 7, 106295-106306.	4.2	6
93	A large-scale remote sensing database for subjective and objective quality assessment of pansharpened images. Journal of Visual Communication and Image Representation, 2020, 73, 102947.	2.8	5
94	SARF: A Simple, Adjustable, and Robust Fusion Method. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
95	Blood vessel segmentation of fundus images via cross-modality dictionary learning. Applied Optics, 2018, 57, 7287.	1.8	5
96	A Novel No-Reference Stereoscopic Image Quality Assessment Method. , 2012, , .		4
97	Stereoscopic images quality assessment by jointly evaluating image quality and depth perception. , 2012, , .		4
98	Region-based error concealment of right-view frames for stereoscopic video transmission. Computers and Electrical Engineering, 2012, 38, 217-230.	4.8	4
99	Stereoscopic image tamper detection and self-recovery using hierarchical detection and stereoscopic matching. Journal of Electronic Imaging, 2014, 23, 023022.	0.9	4
100	Simulating receptive fields of human visual cortex for 3D image quality prediction. Applied Optics, 2016, 55, 5488.	2.1	4
101	A new tone-mapped image quality assessment approach for high dynamic range imaging system. , 2017, , .		4
102	StereoEditor: controllable stereoscopic display by content retargeting. Optics Express, 2017, 25, 33202.	3.4	4
103	Seam Manipulator: Leveraging Pixel Fusion for Depth-Adjustable Stereoscopic Image Retargeting. IEEE Access, 2019, 7, 25239-25252.	4.2	4
104	Combining Retargeting Quality and Depth Perception Measures for Quality Evaluation of Retargeted Stereopairs. IEEE Transactions on Multimedia, 2022, 24, 2422-2434.	7.2	4
105	Blind 360-degree image quality assessment via saliency-guided convolution neural network. Optik, 2021, 240, 166858.	2.9	4
106	Deep network based stereoscopic image quality assessment via binocular summing and differencing. Journal of Visual Communication and Image Representation, 2022, 82, 103420.	2.8	4
107	A Blind Full Resolution Assessment Method for Pansharpened Images Based on Multistream Collaborative Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	4
108	Asymmetric multi-view video coding based on chrominance reconstruction. , 2010, , .		3

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109	A new four-component gradient-based structural similarity metric using adaptive weights. , 2011, , .		3
110	A Novel Macroblock Level Rate Control Method for Stereo Video Coding. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	3
111	Novel visibility threshold model for asymmetrically distorted stereoscopic images. , 2016, , .		3
112	Simultaneous object size and depth adjustment for stereoscopic 3D images. Information Sciences, 2019, 481, 280-291.	6.9	3
113	Color correction and geometric calibration for multi-view images with feature correspondence. Optoelectronics Letters, 2009, 5, 232-235.	0.8	2
114	Video quality assessment method motivated by human visual perception. Journal of Electronic Imaging, 2016, 25, 061613.	0.9	2
115	An Energy-Constrained Video Retargeting Approach for Color-Plus-Depth 3D Video. Journal of Display Technology, 2016, 12, 491-499.	1.2	2
116	Stereoscopic image quality assessment using disparity-compensated view filtering. Journal of Electronic Imaging, 2016, 25, 023001.	0.9	2
117	User Controllable Content Retargeting and Depth Adaptation for Stereoscopic Display. IEEE Access, 2019, 7, 22541-22553.	4.2	2
118	A Study of Perceptual Quality Assessment for Stereoscopic Image Retargeting. , 2019, , .		2
119	Depth Trajectory-Aware Stereoscopic Video Retargeting. IEEE Access, 2021, 9, 30335-30346.	4.2	2
120	Joint just noticeable distortion based stereo image watermarking method with self-recovery. WIT Transactions on Information and Communication Technologies, 2014, , .	0.0	2
121	Network-driven low complexity coding for wireless multi-view video system. Journal of Real-Time Image Processing, 2010, 5, 33-43.	3.5	1
122	Color Correction for Multi-view Video Based on Color Variation Curve. , 2010, , .		1
123	Relationship Modulation Based Blind Stereoscopic Image Watermarking Algorithm for 3D Media. , 2011, , .		1
124	A micro-image fusion algorithm based on region growing. Journal of Electronics, 2013, 30, 91-96.	0.2	1
125	Disparity based stereo image reversible data hiding. , 2014, , .		1
126	Binocular combination and fractional differential based 3D image quality assessment. , 2015, , .		1

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127	Supervised dictionary learning for blind image quality assessment. , 2015, , .		1
128	Binocular visual characteristics-based stereoscopic image quality assessment metric for 3D video system. International Journal of Information and Communication Technology, 2016, 9, 243.	0.1	1
129	MSFE: Blind image quality assessment based on multi-stage feature encoding. , 2017, , .		1
130	Video quality assessment using motion-compensated temporal filtering and manifold feature similarity. PLoS ONE, 2017, 12, e0175798.	2.5	1
131	Blind quality assessment for multiply distorted stereoscopic images towards IoT-based 3D capture systems. Journal of Visual Communication and Image Representation, 2020, 71, 102868.	2.8	1
132	List-Wise Rank Learning for Stereoscopic Image Retargeting Quality Assessment. IEEE Transactions on Multimedia, 2022, 24, 1595-1608.	7.2	1
133	Building Stereoscopic Zoomer via Global and Local Warping Optimization. IEEE Transactions on Computational Imaging, 2020, 6, 1622-1635.	4.4	1
134	M2OVQA: Multi-space signal characterization and multi-channel information aggregation for quality assessment of compressed omnidirectional videos. Journal of Visual Communication and Image Representation, 2022, 82, 103419.	2.8	1
135	Fast Adaptive Block Matching for Ray-Space Coding in FTV System. , 0, , .		0
136	Coding-oriented multi-view video color correction. Journal of Electronics, 2008, 25, 721-727.	0.2	0
137	Dominant Color Tracking Based Color Correction for Multi-View Video Using Kalman Filter. , 2009, , .		0
138	Fast Disparity Refinement Algorithm for Client-Oriented Multi-view Video System. , 2009, , .		0
139	A robust color correction method for stereoscopic video coding. , 2010, , .		0
140	3DTV-Oriented Multiview Video Coding Based on Stereoscopic Visual ROI. , 2011, , .		0
141	A multi-view video plus depth coding method based on view warping and bit allocation. , 2012, , .		0
142	New fast depth image-based rendering method for 3DTV. , 2012, , .		0
143	A novel stereoscopic video coding method based on view warping. , 2012, , .		0
144	A new objective stereoscopic image assessment model based on stereoscopic perception. Journal of Electronics, 2013, 30, 469-475.	0.2	0

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145	Supporting binocular visual quality prediction using machine learning. , 2014, , .		0
146	New stereo visual comfort assessment method based on scene mode classification. , 2015, , .		0
147	Stereo Image Reversible Watermarking for Authentication. 3D Research, 2015, 6, 1.	1.8	0
148	New Stereoscopic Image Quality Assessment Metric Based on Three Dimensional-discrete Cosine Transform for 3d Media. Journal of Applied Sciences, 2013, 13, 3061-3066.	0.3	0
149	No reference image quality assessment based on distortion classification. , 2014, , .		0
150	An objective visual comfort prediction metric of stereoscopic images based on stereoscopic saliency model. , 2014, , .		0
151	Fast intra mode decision algorithm based on SATD adaptive selection and MPM. WIT Transactions on Information and Communication Technologies, 2014, , .	0.0	0