Sos S Agaian

List of Publications by Year
in descending order

134 papers	2,944 citations	393982 19 h-index	253896 43 g-index
134 all docs	134 docs citations	134 times ranked	1795 citing authors

#	Article	IF	Citations
1	Human-Visual-System-Inspired Underwater Image Quality Measures. IEEE Journal of Oceanic Engineering, 2016, 41, 541-551.	2.1	733
2	Transform Coefficient Histogram-Based Image Enhancement Algorithms Using Contrast Entropy. IEEE Transactions on Image Processing, 2007, 16, 741-758.	6.0	431
3	Human Visual System-Based Image Enhancement and Logarithmic Contrast Measure. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 174-188.	5.5	220
4	Nonlinear Unsharp Masking for Mammogram Enhancement. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 918-928.	3.6	166
5	No reference color image contrast and quality measures. IEEE Transactions on Consumer Electronics, 2013, 59, 643-651.	3.0	164
6	A Comprehensive Database for Benchmarking Imaging Systems. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 509-520.	9.7	94
7	(n, k, p)-Gray code for image systems. IEEE Transactions on Cybernetics, 2013, 43, 515-529.	6.2	74
8	Transform-Based Image Enhancement Algorithms with Performance Measure. Advances in Imaging and Electron Physics, 2004, 130, 165-242.	0.1	58
9	Tufts Dental Database: A Multimodal Panoramic X-Ray Dataset for Benchmarking Diagnostic Systems. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1650-1659.	3.9	39
10	Logarithmic Edge Detection with Applications. Journal of Computers, 2008, 3, .	0.4	37
11	Choosing the Optimal Spatial Domain Measure of Enhancement for Mammogram Images. International Journal of Biomedical Imaging, 2014, 2014, 1-8.	3.0	36
12	Automatic Detection of Potential Threat Objects in X-ray Luggage Scan Images. , 2008, , .		32
13	Boolean Derivatives With Application to Edge Detection for Imaging Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 371-382.	5.5	32
14	A new acute leukaemia-automated classification system. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 303-314.	1.3	32
15	A Robust No-Reference, No-Parameter, Transform Domain Image Quality Metric for Evaluating the Quality of Color Images. IEEE Access, 2018, 6, 10979-10985.	2.6	28
16	A wheel-switch chaotic system for image encryption. , 2011, , .		27
17	Human visual system based similarity metrics. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	26
18	Two Fibonacci P-code based image scrambling algorithms. , 2008, , .		25

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19	Sequence-to-Sequence Similarity-Based Filter for Image Denoising. IEEE Sensors Journal, 2016, 16, 4380-4388.	2.4	25
20	TMO-Net: A Parameter-Free Tone Mapping Operator Using Generative Adversarial Network, and Performance Benchmarking on Large Scale HDR Dataset. IEEE Access, 2021, 9, 39500-39517.	2.6	25
21	No reference color image quality measures. , 2013, , .		23
22	Human visual system based mammogram enhancement and analysis. , 2010, , .		22
23	A New Unified Impulse Noise Removal Algorithm Using a New Reference Sequence-to-Sequence Similarity Detector. IEEE Access, 2018, 6, 37225-37236.	2.6	22
24	Action recognition for the robotics and manufacturing automation using 3-D binary micro-block difference. International Journal of Advanced Manufacturing Technology, 2021, 117, 2319-2330.	1.5	21
25	Automated Detection of COVID-19 Cases on Radiographs using Shape-Dependent Fibonacci-p Patterns. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1852-1863.	3.9	20
26	An image similarity measure using enhanced human visual system characteristics. Proceedings of SPIE, 2011, , .	0.8	18
27	Deterministic model for Acute Myelogenous Leukemia classification. , 2012, , .		18
28	Logical System Representation of Images and Removal of Impulse Noise. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 1349-1362.	3.4	17
29	Image encryption using Discrete Parametric Cosine Transform. , 2009, , .		16
30	Mitigating anomalous measurements for indoor wireless local area network positioning. IET Radar, Sonar and Navigation, 2016, 10, 1220-1227.	0.9	16
31	A New Reference-Based Edge Map Quality Measure. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1505-1517.	5.9	15
32	Image encryption using binary key-images. , 2009, , .		14
33	Fingerprint authentication using geometric features. , 2017, , .		14
34	Novel multi-color transfer algorithms and quality measure. IEEE Transactions on Consumer Electronics, 2016, 62, 292-300.	3.0	13
35	A new color contrast enhancement algorithm for robotic applications. , 2012, , .		12
36	Transform domain measure of enhancement — TDME — For security imaging applications. , 2013, , .		12

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37	Thermal-image quality measurements. , 2014, , .		12
38	Image segmentation by multi-level thresholding using genetic algorithm with fuzzy entropy cost functions. , 2015, , .		12
39	Augmented reality-based vision-aid indoor navigation system in GPS denied environment. , 2019, , .		12
40	A human visual "no-reference" image quality measure. IEEE Instrumentation and Measurement Magazine, 2016, 19, 34-38.	1.2	11
41	Quaternion-based local and global color image enhancement algorithm. , 2019, , .		11
42	Logarithmic edge detection with applications. , 2007, , .		10
43	A novel information entropy based randomness test for image encryption. , 2011, , .		10
44	Gleason grade-based automatic classification of prostate cancer pathological images. , 2011, , .		10
45	Cross-entropy Histogram Equalization. , 2014, , .		10
46	A versatile edge preserving image enhancement approach for medical images using guided filter. , 2016, , .		10
47	LQM: Localized Quality Measure for Fingerprint Image Enhancement. IEEE Access, 2019, 7, 104567-104576.	2.6	10
48	TERNet: A deep learning approach for thermal face emotion recognition. , 2019, , .		9
49	Faulty measurements impact on wireless local area network positioning performance. IET Radar, Sonar and Navigation, 2015, 9, 501-508.	0.9	8
50	Secure image processing inside cloud file sharing environment using lightweight containers. , 2015, , .		8
51	Contrast enhancement for color images using discrete cosine transform coefficient scaling. , 2016, , .		8
52	Generalized collage steganography on images. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	7
53	Alpha-trimmed image estimation for JPEG steganography detection. , 2009, , .		7
54	Selective region encryption using a fast shape adaptive transform. , 2010, , .		7

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55	Human visual system inspired object detection and recognition. , 2012, , .		7
56	New haze removal scheme and novel measure of enhancement. , 2013, , .		7
57	3-D Block-Rooting Scheme With Application to Medical Image Enhancement. IEEE Access, 2021, 9, 3880-3893.	2.6	7
58	Face description using anisotropic gradient: thermal infrared to visible face recognition. , 2018, , .		7
59	FTNet: Feature Transverse Network for Thermal Image Semantic Segmentation. IEEE Access, 2021, 9, 145212-145227.	2.6	7
60	Denoising and the active warden. , 2007, , .		6
61	An improved canny edge detection application for asphalt concrete. , 2009, , .		6
62	Image encryption using the image steganography concept and PLIP model. , 2011, , .		6
63	Quaternion number based vanilla recognition system for automating polination. , 2011, , .		6
64	Fast Hue-Division-Based Selective Color Transfer. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2853-2866.	5.6	6
65	An Effective Algorithm for Breaking F5. , 2005, , .		5
66	A new secure adaptive steganographic algorithm using Fibonacci numbers. , 2006, , .		5
67	Image reconstruction for quality assessment of edge detectors. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	5
68	A non-reference measure for objective edge map evaluation. , 2009, , .		5
69	Bright and dark distance-based image decomposition and enhancement. , 2014, , .		5
70	Image segmentation by multi-level thresholding based on fuzzy entropy and genetic algorithm in cloud. , 2015, , .		5
71	New Look on <inline-formula> <tex-math notation="LaTeX">$q2^r$</tex-math> </inline-formula>-Point Fast Fourier Transforms. IEEE Transactions on Signal Processing, 2016, 64, 5972-5980.	3.2	5
72	Adaptive Alpha-Trimmed Correlation based underwater image stitching. , 2017, , .		5

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73	An image scrambling algorithm using parameter bases M-sequences. , 2008, , .		4
74	Enhancement of alaryngeal speech utilizing spectral subtraction and minimum statistics. , 2008, , .		4
75	Image fusion using the Parameterized Logarithmic Dual Tree Complex Wavelet Transform. , 2010, , .		4
76	Color image enhancement algorithms based on the DCT domain. , 2011, , .		4
77	Thermal imaging in fuzzy condition monitoring. , 2014, , .		4
78	Noise reduction algorithms using Fibonacci Fourier transforms. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	3
79	Steganography detection using RBFNN. , 2008, , .		3
80	An algorithm for visualizing and detecting edges in RGB color images using logarithmic ratio approach. , 2010, , .		3
81	Multi-scale image fusion using the Parameterized Logarithmic Image Processing model. , 2010, , .		3
82	Human visual system-based image fusion for surveillance applications. , 2011, , .		3
83	Quaternion based segmentation for vanilla recognition. , 2011, , .		3
84	A Novel Technique to Enhance Low Resolution CT and Magnetic Resonance Images in Cloud. , 2016, , .		3
85	Illumination invariant NIR face recognition using directional visibility. IS&T International Symposium on Electronic Imaging, 2019, 2019, 273-1-273-7.	0.3	3
86	Non-linear contrast stretching with optimizations. , 2019, , .		3
87	A parametric method for edge detection based on recursive mean-separate image decomposition. , 2008, , .		2
88	Comparison of recursive sequence based image scrambling algorithms. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	2
89	An application of linear mixed effects model to steganography detection. , 2009, , .		2
90	Prediction of coding region in the DNA sequences. , 2011, , .		2

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91	Thermal conditions of breast cancer progress-treatment. , 2014, , .		2
92	Nonreference Medical Image Edge Map Measure. International Journal of Biomedical Imaging, 2014, 2014, 1-8.	3.0	2
93	A new correlation-differential denoising algorithm. , 2015, , .		2
94	Combined transform and spatial domain based â€œno referenceâ€•measure for underwater images. , 2017, , .		2
95	No-reference quality metrics for satellite weather images and sky images. , 2017, , .		2
96	Attention-guided cascaded networks for improved face detection and landmark localization under low-light conditions. , 2020, , .		2
97	Artificial Intelligence for Text-Based Vehicle Search, Recognition, and Continuous Localization in Traffic Videos. AI, 2021, 2, 684-704.	2.1	2
98	New steganalysis technique for the digital media forensics examiner. , 2006, , .		1
99	Fast Encryption Method Based on New FFT Representation for the Multimedia Data System Security. , 2006, , .		1
100	Alaryngeal Speech Enhancement Using Minimum Statistics Approach to Spectral Subtraction. , 2007, , .		1
101	Fibonacci Fourier Transform and Sliding Window Filtering. , 2007, , .		1
102	A Fast Time-Recursive Correlator for DSSS Communications. IEEE Signal Processing Letters, 2008, 15, 589-592.	2.1	1
103	JPEG steganalysis using color correlation and training on clean images only. , 2008, , .		1
104	Improving edge-based feature extraction using feature fusion. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	1
105	Reduced Voltage Scaling in Clock Distribution Networks. VLSI Design, 2009, 2009, 1-7.	0.5	1
106	Image encryption algorithms based on Generalized P-Gray Code bit plane decomposition. , 2009, , .		1
107	An edge-based approach to image fusion of images via reconstruction estimation. , 2009, , .		1
108	Web based integrated framework for security applications. , 2010, , .		1

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109	Nonlinear filtering for enhancing prostate MR images via alpha-trimmed Mean Separation. , 2010, , .		1
110	Purkinje cell 3D reconstruction and visualization system. , 2010, , .		1
111	A Novel empirical mode decomposition based system for medical image enhancement. , 2011, , .		1
112	Cipherstream covering for secure data compression. , 2011, , .		1
113	Computer aided diagnosis of lesions extracted from large skin surfaces. , 2012, , .		1
114	Secure Proxy Service Using p-Fibonacci Transformation of Cosine Coefficients on Cloud File Sharing Environment. , 2015, , .		1
115	Software interface design for home-based assistive multi-robot system. , 2015, , .		1
116	Image enhancement with weighted histogram equalization and heap transforms. , 2016, , .		1
117	Fast color transfer for camouflage applications. , 2017, , .		1
118	Neural network–based image quality comparator without collecting the human score for training. IET Image Processing, 2020, 14, 1787-1793.	1.4	1
119	Adaptive Steganographic System for Binary Images using Variable Block Embedding Rate. , 2006, , .		0
120	Visually Similar Wavelets with Application to Data Hiding Systems. , 2006, , .		0
121	Feedback steganalysis decision making system. , 2007, , .		0
122	Response to "Comments on 'Split Manageable Efficient Algorithm for Fourier and Hadamard Transforms'". IEEE Transactions on Signal Processing, 2007, 55, 1548-1549.	3.2	0
123	Detection and comparison of color edges via median based PCA. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	0
124	Energy efficient swing signal generation circuits for clock distribution networks. , 2009, , .		0
125	Implementation of Digital Electronic Arithmetic and its application. , 2009, , .		0
126	Screening and manipulating brain medical images on handheld devices. , 2009, , .		0

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127	Image enhancement based on transform coefficient histogram shifting and shaping. , 2010, , .		0
128	Autonomous facial recognition based on the human visual system. , 2015, , .		0
129	A no reference image quality measure using a distance doubling variance. , 2015, , .		0
130	Automatic Frame-Cut Detection for Self-Diagnostics of Video Surveillance Systems. , 2018, , .		0
131	Image De-Noising Through Symmetric, Bell-Shaped, and Centered Weighted Median Filters Based Subband Decomposition. , 2018, , .		0
132	Impulse Noise Detector Performance Measure Based on Intensity Volume. Journal of Signal Processing Systems, 2020, 92, 425-434.	1.4	0
133	A pixel-based color transfer system to recolor nighttime imagery. , 2019, , .		0
134	Brief Notes on The Possibility of Copying Qubits in Quantum Systems. WSEAS Transactions on Circuits and Systems, 2022, 21, 20-25.	0.1	0