Karen A Panetta

List of Publications by Citations

62 papers	1,513 citations	15 h-index	38 g-index
78 ext. papers	2,089 ext. citations	4.1 avg, IF	4.9 L-index

#	Paper	IF	Citations
62	Human-Visual-System-Inspired Underwater Image Quality Measures. *IEEE Journal of Oceanic Engineering*, **2016**, 41, 541-551	3.3	292
61	Transform coefficient histogram-based image enhancement algorithms using contrast entropy. *IEEE Transactions on Image Processing*, **2007**, 16, 741-58	8.7	292
60	Human visual system-based image enhancement and logarithmic contrast measure. *IEEE Transactions on Systems, Man, and Cybernetics*, **2008**, 38, 174-88		153
59	Nonlinear unsharp masking for mammogram enhancement. *IEEE Transactions on Information Technology in Biomedicine*, **2011**, 15, 918-28		119
58	. *IEEE Transactions on Consumer Electronics*, **2013**, 59, 643-651	4.8	118
57	Parameterized logarithmic framework for image enhancement. *IEEE Transactions on Systems, Man, and Cybernetics*, **2011**, 41, 460-73		71
56	(n, k, p)-Gray code for image systems. *IEEE Transactions on Cybernetics*, **2013**, 43, 515-29	10.2	55
55	A Comprehensive Database for Benchmarking Imaging Systems. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2020**, 42, 509-520	13.3	49
54	Choosing the optimal spatial domain measure of enhancement for mammogram images. *International Journal of Biomedical Imaging*, **2014**, 2014, 937849	5.2	22
53	Boolean derivatives with application to edge detection for imaging systems. *IEEE Transactions on Systems, Man, and Cybernetics*, **2010**, 40, 371-82		21
52	Sequence-to-Sequence Similarity-Based Filter for Image Denoising. *IEEE Sensors Journal*, **2016**, 16, 4380-4388		21
51	Human visual system based mammogram enhancement and analysis **2010**,		18
50	Automatic Detection of Potential Threat Objects in X-ray Luggage Scan Images **2008**,		18
49	A Robust No-Reference, No-Parameter, Transform Domain Image Quality Metric for Evaluating the Quality of Color Images. *IEEE Access*, **2018**, 6, 10979-10985	3.5	17
48	Human visual system based similarity metrics. *Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics*, **2008**,	2	16
47	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		15
46	Logarithmic Edge Detection with Applications. *Journal of Computers*, **2008**, 3,	1.4	14

45	Human Visual System Based Multi-Histogram Equalization for Non-Uniform Illumination and Shoadow Correction **2007**,		13
44	A New Reference-Based Edge Map Quality Measure. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2016**, 46, 1505-1517	7.3	12
43	Image encryption using Discrete Parametric Cosine Transform **2009**,		11
42	A New Unified Impulse Noise Removal Algorithm Using a New Reference Sequence-to-Sequence Similarity Detector. *IEEE Access*, **2018**, 6, 37225-37236	3.5	11
41	Fingerprint authentication using geometric features **2017**,		10
40	A new color contrast enhancement algorithm for robotic applications **2012**,		9
39	Novel multi-color transfer algorithms and quality measure. *IEEE Transactions on Consumer Electronics*, **2016**, 62, 292-300	4.8	8
38	Transform domain measure of enhancement TDME For security imaging applications **2013**,		8
37	Image encryption using binary key-images **2009**,		8
36	Partial Multimedia Encryption with Different Security Levels **2008**,		8
35	Logarithmic edge detection with applications **2007**,		8
34	Healthy Aging-Nutrition Matters: Start Early and Screen Often. *Advances in Nutrition*, **2021**, 12, 1438-1448	8.0	8
33	LQM: Localized Quality Measure for Fingerprint Image Enhancement. *IEEE Access*, **2019**, 7, 104567-104576	3.5	7
32	Augmented reality-based vision-aid indoor navigation system in GPS denied environment **2019**,		6
31	A versatile edge preserving image enhancement approach for medical images using guided filter **2016**,		6
30	Software Architecture for Automating Cognitive Science Eye-Tracking Data Analysis and Object Annotation. *IEEE Transactions on Human-Machine Systems*, **2019**, 49, 268-277	4.1	5
29	TDMEC, a new measure for evaluating the image quality of color images acquired in vision systems **2015**,		5
28	Comprehensive Underwater Object Tracking Benchmark Dataset and Underwater Image Enhancement With GAN. *IEEE Journal of Oceanic Engineering*, **2021**, 1-17	3.3	5

27	A non-reference measure for objective edge map evaluation **2009**,		4
26	Color image enhancement algorithms based on the DCT domain **2011**,		4
25	Face description using anisotropic gradient: thermal infrared to visible face recognition **2018**,		4
24	Contrast enhancement for color images using discrete cosine transform coefficient scaling **2016**,		3
23	Human visual system inspired object detection and recognition **2012**,		3
22	Human visual system-based image fusion for surveillance applications **2011**,		3
21	TERNet: A deep learning approach for thermal face emotion recognition **2019**,		3
20	Combined transform and spatial domain based □no reference□measure for underwater images **2017**,		2
19	A new correlation-differential denoising algorithm **2015**,		2
18	Nonreference medical image edge map measure. *International Journal of Biomedical Imaging*, **2014**, 2014, 931375	5.2	2
17	Multi-scale image fusion using the Parameterized Logarithmic Image Processing model **2010**,		2
16	Comparison of recursive sequence based image scrambling algorithms. *Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics*, **2008**,	2	2
15	Enhancement of alaryngeal speech utilizing spectral subtraction and minimum statistics **2008**,		2
14	Illumination invariant NIR face recognition using directional visibility. *IS&T International Symposium on Electronic Imaging*, **2019**, 2019, 273-1-273-7	1	2
13	Initial Evaluation of Computer-Assisted Radiologic Assessment for Renal Mass Edge Detection as an Indication of Tumor Roughness to Predict Renal Cancer Subtypes. *Advances in Urology*, **2019**, 2019, 3590623	1.6	1
12	Fast color transfer for camouflage applications **2017**,		1
11	Image processing algorithms and measures for the analysis of biomedical imaging systems applications. *International Journal of Biomedical Imaging*, **2015**, 2015, 926921	5.2	1
10	Image fusion using the Parameterized Logarithmic Dual Tree Complex Wavelet Transform **2010**,		1

List of Publications

9	Image encryption algorithms based on Generalized P-Gray Code bit plane decomposition **2009**,		1
8	An image scrambling algorithm using parameter bases M-sequences **2008**,		1
7	Border Crossing Detection and Tracking through Localized Image Processing **2008**,		1
6	Neural network-based image quality comparator without collecting the human score for training. *IET Image Processing*, **2020**, 14, 1787-1793	1.7	1
5	FTNet: Feature Transverse Network for Thermal Image Semantic Segmentation. *IEEE Access*, **2021**, 9, 145212-145227	3.5	0
4	Guest Editorial Special Issue on Increasing the Socio-Cultural Diversity of Electrical and Computer Engineering and Related Fields. *IEEE Transactions on Education*, **2018**, 61, 261-264	2.1	0
3	Artificial Intelligence for Text-Based Vehicle Search, Recognition, and Continuous Localization in Traffic Videos. *AI*, **2021**, 2, 684-704	3.6	0
2	Special Section Guest Editorial: Representation Learning and Big Data Analytics for Remote Sensing. *Journal of Applied Remote Sensing*, **2020**, 14, 1	1.4	
1	Impulse Noise Detector Performance Measure Based on Intensity Volume. *Journal of Signal Processing Systems*, **2020**, 92, 425-434	1.4	