Xuanqin Mou

List of Publications by Year
in descending order

166	9,575	279487 23	64668 79
papers	citations	h-index	g-index

169	169	169	6392
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FSIM: A Feature Similarity Index for Image Quality Assessment. IEEE Transactions on Image Processing, 2011, 20, 2378-2386.	6.0	3,728
2	Gradient Magnitude Similarity Deviation: A Highly Efficient Perceptual Image Quality Index. IEEE Transactions on Image Processing, 2014, 23, 684-695.	6.0	1,131
3	Low-Dose CT Image Denoising Using a Generative Adversarial Network With Wasserstein Distance and Perceptual Loss. IEEE Transactions on Medical Imaging, 2018, 37, 1348-1357.	5.4	983
4	Low-Dose X-ray CT Reconstruction via Dictionary Learning. IEEE Transactions on Medical Imaging, 2012, 31, 1682-1697.	5.4	494
5	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
6	ON THE DYNAMICAL DEGRADATION OF DIGITAL PIECEWISE LINEAR CHAOTIC MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3119-3151.	0.7	331
7	Learning without Human Scores for Blind Image Quality Assessment. , 2013, , .		286
8	RFSIM: A feature based image quality assessment metric using Riesz transforms. , 2010, , .		145
9	On the security of a chaotic encryption scheme: problems with computerized chaos in finite computing precision. Computer Physics Communications, 2003, 153, 52-58.	3.0	144
10	A comprehensive evaluation of full reference image quality assessment algorithms. , 2012, , .		138
11	Tensor-Based Dictionary Learning for Spectral CT Reconstruction. IEEE Transactions on Medical Imaging, 2017, 36, 142-154.	5.4	131
12	Improving security of a chaotic encryption approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 290, 127-133.	0.9	112
13	Tensor-based dictionary learning for dynamic tomographic reconstruction. Physics in Medicine and Biology, 2015, 60, 2803-2818.	1.6	99
14	Hierarchical multiscale LBP for face and palmprint recognition. , 2010, , .		89
15	Image Reconstruction for Hybrid True-Color Micro-CT. IEEE Transactions on Biomedical Engineering, 2012, 59, 1711-1719.	2.5	81
16	Statistical Interior Tomography. IEEE Transactions on Medical Imaging, 2011, 30, 1116-1128.	5.4	77
17	<title>Chaotic encryption scheme for real-time digital video</title>. , 2002, 4666, 149.		73
18	Baptista-type chaotic cryptosystems: problems and countermeasures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 332, 368-375.	0.9	71

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19	A hybrid metal artifact reduction algorithm for xâ€ray CT. Medical Physics, 2013, 40, 041910.	1.6	67
20	Projection correlation based view interpolation for cone beam CT: primary fluence restoration in scatter measurement with a moving beam stop array. Physics in Medicine and Biology, 2010, 55, 6353-6375.	1.6	47
21	Non-Shift Edge Based Ratio (NSER): An Image Quality Assessment Metric Based on Early Vision Features. IEEE Signal Processing Letters, 2011, 18, 315-318.	2.1	47
22	Extracting respiratory signals from thoracic cone beam CT projections. Physics in Medicine and Biology, 2013, 58, 1447-1464.	1.6	45
23	Performance analysis of Jakimoskiâ€“Kocarev attack on a class ofÂchaotic cryptosystems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 307, 22-28.	0.9	43
24	PROBLEMS WITH A PROBABILISTIC ENCRYPTION SCHEME BASED ON CHAOTIC SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 3063-3077.	0.7	40
25	Quality Assessment of Screen Content Images via Convolutional-Neural-Network-Based Synthetic/Natural Segmentation. IEEE Transactions on Image Processing, 2018, 27, 5113-5128.	6.0	36
26	Reduced reference image quality assessment based on Weibull statistics. , 2010, , .		31
27	Z-Index Parameterization for Volumetric CT Image Reconstruction via 3-D Dictionary Learning. IEEE Transactions on Medical Imaging, 2017, 36, 2466-2478.	5.4	31
28	Reliable gene mutation prediction in clear cell renal cell carcinoma through multi-classifier multi-objective radiogenomics model. Physics in Medicine and Biology, 2018, 63, 215008.	1.6	31
29	Breaking a chaos-noise-based secure communication scheme. Chaos, 2005, 15, 013703.	1.0	27
30	Data Augmentation and Spectral Structure Features for Limited Samples Hyperspectral Classification. Remote Sensing, 2021, 13, 547.	1.8	25
31	Perceptual Fidelity Aware Mean Squared Error. , 2013, , .		24
32	Joint Optimization for SSIM-Based CTU-Level Bit Allocation and Rate Distortion Optimization. IEEE Transactions on Broadcasting, 2021, 67, 500-511.	2.5	21
33	Spectrum Estimation-Guided Iterative Reconstruction Algorithm for Dual Energy CT. IEEE Transactions on Medical Imaging, 2020, 39, 246-258.	5.4	20
34	Highâ€quality initial imageâ€guided 4D CBCT reconstruction. Medical Physics, 2020, 47, 2099-2115.	1.6	20
35	On the Security of the Yiâ€“Tanâ€“Siew Chaotic Cipher. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 665-669.	2.3	19
36	Miniature Four-Band CPW-Fed Antenna for RFID/WiMAX/WLAN Applications. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1684-1688.	2.4	19

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37	Evaluation of Segmentation Quality via Adaptive Composition of Reference Segmentations. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1929-1941.	9.7	16
38	Reduced reference image quality assessment based on statistics of edge. Proceedings of SPIE, 2011, , .	0.8	15
39	A CNN-Based Hybrid Ring Artifact Reduction Algorithm for CT Images. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 253-260.	2.7	15
40	An image quality assessment metric based on Non-shift Edge. , 2011, , .		14
41	Deep Tomographic Image Reconstruction: Yesterday, Today, and Tomorrowâ€”Editorial for the 2nd Special Issue â€œMachine Learning for Image Reconstructionâ€• IEEE Transactions on Medical Imaging, 2021, 40, 2956-2964.	5.4	12
42	The impact of calibration phantom errors on dual-energy digital mammography. Physics in Medicine and Biology, 2008, 53, 6321-6336.	1.6	11
43	Optimization based beam-hardening correction in CT under data integral invariant constraint. Physics in Medicine and Biology, 2018, 63, 135015.	1.6	11
44	Spectral CT Reconstruction via Low-Rank Representation and Region-Specific Texture Preserving Markov Random Field Regularization. IEEE Transactions on Medical Imaging, 2020, 39, 2996-3007.	5.4	11
45	Data consistency conditionâ€“based beam-hardening correction. Optical Engineering, 2011, 50, 076501.	0.5	10
46	Implementation of penalized-likelihood statistical reconstruction for polychromatic dual-energy CT. Proceedings of SPIE, 2009, , .	0.8	9
47	Weighted Total Variation constrained reconstruction for reduction of metal artifact in CT. , 2010, , .		9
48	The mathematical equivalence of consistency conditions in the divergent-beam computed tomography. Journal of X-Ray Science and Technology, 2012, 20, 45-68.	0.7	9
49	CycN-Net: A Convolutional Neural Network Specialized for 4D CBCT Images Refinement. IEEE Transactions on Medical Imaging, 2021, 40, 3054-3064.	5.4	9
50	A robust x-ray tube spectra measuring method by attenuation data. , 2006, , .		8
51	A beam hardening correction method based on HL consistency. , 2006, 6318, 583.		7
52	Statistical interior tomography. Proceedings of SPIE, 2010, , .	0.8	7
53	Image quality assessment based on edge. Proceedings of SPIE, 2011, , .	0.8	7
54	Algorithmic scatter correction in dualâ€energy digital mammography. Medical Physics, 2013, 40, 111919.	1.6	7

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55	Metal artifact reduction based on beam hardening correction and statistical iterative reconstruction for X-ray computed tomography. Proceedings of SPIE, 2013, , .	0.8	7
56	A Novel Stationary CT Scheme Based on High-Density X-Ray Sources Device. IEEE Access, 2020, 8, 112910-112921.	2.6	7
57	Local binary pattern statistics feature for reduced reference image quality assessment. Proceedings of SPIE, 2013, , .	0.8	6
58	Dictionary Learning Based Low-Dose X-Ray CT Reconstruction. , 2014, , 99-119.		6
59	Dictionary learning based low-dose x-ray CT reconstruction using a balancing principle. , 2014, , .		6
60	Low dose CT reconstruction via L1 norm dictionary learning using alternating minimization algorithm and balancing principle. Journal of X-Ray Science and Technology, 2018, 26, 603-622.	0.7	6
61	Learning No-Reference Quality Assessment of Multiply and Singly Distorted Images With Big Data. IEEE Transactions on Image Processing, 2020, 29, 2676-2691.	6.0	6
62	Video quality assessment based on motion structure partition similarity of spatiotemporal slice images. Journal of Electronic Imaging, 2018, 27, 1.	0.5	6
63	A psychovisual image Quality Metric based on multi-scale Structure Similarity. , 2008, , .		5
64	Beam hardening correction based on HL consistency in polychromatic transmission tomography. , 2008, , .		5
65	Beam hardening correction for fan-beam CT imaging with multiple materials. , 2010, , .		5
66	LoG acts as a good feature in the task of image quality assessment. Proceedings of SPIE, 2014, , .	0.8	5
67	Low Dose CT Image Reconstruction Based on Structure Tensor Total Variation Using Accelerated Fast Iterative Shrinkage Thresholding Algorithm. Sensors, 2020, 20, 1647.	2.1	5
68	Error Analysis of Calibration Materials on Dual-Energy Mammography. , 2007, 10, 596-603.		5
69	Reduced reference image quality assessment via sub-image similarity based redundancy measurement. , 2012, , .		4
70	Low-dose CT reconstruction based on multiscale dictionary. Proceedings of SPIE, 2013, , .	0.8	4
71	A comparison study of stationary and mobile eye tracking on EXITs design in a wayfinding system. , 2015, , .		4
72	Blind image quality assessment using statistical independence in the divisive normalization transform domain. Journal of Electronic Imaging, 2015, 24, 063008.	0.5	4

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73	Spatiotemporal structureâ€aware dictionary learningâ€based 4D CBCT reconstruction. Medical Physics, 2021, 48, 6421-6436.	1.6	4
74	A new implementation of UHF RFID reader. , 2009, , .		3
75	Divisive normalization in channelized Hotelling observer. Proceedings of SPIE, 2010, , .	0.8	3
76	Block-layer bit allocation for quality constrained video encoding based on constant perceptual quality. , 2013, , .		3
77	Image quality assessment with mean squared error in a log based perceptual response domain. , 2014, , .		3
78	Data correlation based noise level estimation for cone beam projection data. Journal of X-Ray Science and Technology, 2017, 25, 907-926.	0.7	3
79	No-Reference Image Quality Assessment Based on Edge Pattern Feature in the Spatial Domain. IEEE Access, 2021, 9, 133170-133184.	2.6	3
80	Fractal simulation of coronary arteries based on bifurcate rule-base. , 2001, , .		2
81	<title>Novel method of vessel axis reconstruction from the rotary projections based on furcation model</title>. , 2001, , .		2
82	Registration for DSA Image Using Triangle Grid and Spatial Transformation Based on Stretching. , 2006, , .		2
83	A novel contrast equalization method for chest radiograph. , 2006, 6144, 2146.		2
84	Nonlinear multi-scale contrast enhancement for chest radiograph. , 2008, , .		2
85	Iterative scatter correction for x-ray cone-beam CT with semi-transparent beam stop array. Proceedings of SPIE, 2009, , .	0.8	2
86	Block-layer optimal bit allocation based on constant perceptual quality. Proceedings of SPIE, 2012, , .	0.8	2
87	No reference image quality assessment based on statistical distribution of local Sub-Image-Similarity. , 2012, , .		2
88	A Reduced-Reference Image Quality Assessment Model Based on Joint-Distribution of Neighboring LOG Signals. IS&T International Symposium on Electronic Imaging, 2016, 28, 1-8.	0.3	2
89	A statistical iterative reconstruction framework for dual energy computed tomography without knowing tube spectrum. Proceedings of SPIE, 2016, , .	0.8	2
90	Iterative Filtering and Structural Features for Hyperspectral Image Classification with Limited Samples. Canadian Journal of Remote Sensing, 2018, 44, 575-587.	1.1	2

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91	Modified eigenvector-based feature extraction for hyperspectral image classification using limited samples. Signal, Image and Video Processing, 2020, 14, 711-717.	1.7	2
92	Image quality guided iterative reconstruction for low-dose CT based on CT image statistics. Physics in Medicine and Biology, 2021, 66, 185018.	1.6	2
93	No-reference video quality assessment based on spatiotemporal slice images and deep convolutional neural networks. , 2019, , .		2
94	An applicability research on JND model. , 2006, , .		2
95	Generative Low-Dose CT Image Denoising. Advances in Computer Vision and Pattern Recognition, 2019, , 277-297.	0.9	2
96	A Full-Reference Image Quality Assessment Model Based on Quadratic Gradient Magnitude and LOG Signal. Lecture Notes in Computer Science, 2019, , 702-713.	1.0	2
97	Multi-energy CT image restoration algorithm based on the flat-panel X-ray source. , 2020, , .		2
98	Medipix-based Spectral Micro-CT. CT Lilun Yu Yingyong Yanjiu, 2012, 21, 583.	0.0	2
99	<title>3D reconstruction model of vessels based on object-oriented quantization</title>. , 2001, 4549, 75.		1
100	A correction method for unfunctional cell distortion using orthogonal polynomials. , 2006, , .		1
101	An iteration algorithm in dual-energy x-ray imaging based on polychromatic physics model. , 2006, 6142, 940.		1
102	Scatter correction algorithm without extra exposure for dual-energy digital mammography. , 2009, , .		1
103	A new edge-based complexity measure for intra-rate estimation in H.264/AVC. , 2010, , .		1
104	Projection correlation based noise reduction in volume CT. , 2010, , .		1
105	Adaptive beam hardening correction based on projection data consistency condition. , 2010, , .		1
106	Recent progress in local reconstruction. , 2010, , .		1
107	CT gradient image reconstruction directly from projections. Journal of X-Ray Science and Technology, 2011, 19, 173-198.	0.7	1
108	Image noise sensitivity of dual-energy digital mammography for calcification imaging. , 2011, , .		1

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109	A perceptual quality based rate distortion model. , 2012, , .		1
110	Algorithmic scatter correction in dual-energy digital mammography for calcification imaging. , 2012, , .		1
111	Reduced-reference image quality assessment based on statistics of edge patterns. , 2012, , .		1
112	Correcting saturated pixels in images. , 2012, , .		1
113	A novel no-reference image quality assessment metric based on statistical independence. , 2012, , .		1
114	SPCA: a no-reference image quality assessment based on the statistic property of the PCA on nature images. , 2013, , .		1
115	Edge patterns extracted from natural images and their statistics for reduced-reference image quality assessment. Proceedings of SPIE, 2013, , .	0.8	1
116	Correcting saturated pixels in images based on human visual characteristics. Proceedings of SPIE, 2013, , .	0.8	1
117	Low-dose CT reconstruction with patch based sparsity and similarity constraints. Proceedings of SPIE, 2014, , .	0.8	1
118	A Study on Consistency between MINAVE and MINMAX in SSIM Based Independent Perceptual Video Coding. IEICE Transactions on Information and Systems, 2015, E98.D, 1417-1421.	0.4	1
119	An L1/2-norm based efficient block level rate estimation model for HEVC. , 2015, , .		1
120	Video quality assessment via gradient magnitude similarity deviation of spatial and spatiotemporal slices. Proceedings of SPIE, 2015, , .	0.8	1
121	A novel method of micro-tomography geometric angle calibration with random phantom. Journal of X-Ray Science and Technology, 2017, 25, 641-652.	0.7	1
122	Joint model of gradient magnitude and Gabor features via Spatio-Temporal slice. Journal of Visual Communication and Image Representation, 2021, 79, 103204.	1.7	1
123	No-reference video quality assessment based on perceptual features extracted from multi-directional video spatiotemporal slices images. , 2018, , .		1
124	Title is missing!. Journal of Medical and Biological Engineering, 2011, 31, 421.	1.0	1
125	Survey on Eye Movement Based Authentication Systems. Communications in Computer and Information Science, 2015, , 144-159.	0.4	1
126	Low-dose computed tomography image reconstruction via structure tensor total variation regularization. , 2018, , .		1

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127	Region-Based Automatic Regularization Parameter Tuning in CT Reconstruction. , 2019, , .		1
128	Optimal superpixel selection for hyperspectral image classification of limited training samples. International Journal of Remote Sensing, 2021, 42, 9068-9084.	1.3	1
129	Multi-domain residual encoderâ€“decoder networks for generalized compression artifact reduction. Journal of Visual Communication and Image Representation, 2022, 83, 103425.	1.7	1
130	Non-convex optimization based optimal bone correction for various beam-hardening artifacts in CT imaging. Journal of X-Ray Science and Technology, 2022, , 1-18.	0.7	1
131	<title>Parametrical model of vessel cross-section reconstruction based on elasticity quality</title>. , 2001, , .		0
132	Calibration of x-ray projections in 3D reconstruction. , 2001, , .		0
133	Reconstruction of Vessel Axis Based on the Matching of iterative Projection Algorithm and Analysis of Corresponding Points. , 2005, 2005, 3316-9.		0
134	A computation method of dual-energy x-ray imaging. , 2006, 6142, 948.		0
135	Lung nodules detection in chest radiography: image components analysis. Proceedings of SPIE, 2009, , .	0.8	0
136	CT reconstruction based on improved total variation minimization. , 2010, , .		0
137	A Scatter-Glare Correction Method Based on Equivalent Lucite Thickness Estimation. , 2011, , .		0
138	Content-based image quality assessment of natural scene image distorted by quantization. , 2011, , .		0
139	An efficient scatter correction algorithm based on pre-reconstructed images of contrast enhancement and sparse-viewed Monte Carlo simulation. Proceedings of SPIE, 2011, , .	0.8	0
140	Interior tomography from low-count local projections and associated Hilbert transform data. , 2011, , .		0
141	A study on regularization parameter choice for interior tomography based on truncated Hilbert transform. Proceedings of SPIE, 2011, , .	0.8	0
142	Noise reduction by projection direction dependent diffusion for low dose fan-beam x-ray computed tomography. , 2011, , .		0
143	Accelerated augmented Lagrangian method for few-view CT reconstruction. Proceedings of SPIE, 2012, , .	0.8	0
144	Interior tomography using the truncated Hilbert transform with the total variation constraint. , 2013, , .		0

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145	Conventional mammographic image generation in dual-energy digital mammography. , 2013, , .		0
146	A novel blind image quality assessment metric and its feature selection strategy. Proceedings of SPIE, 2013, , .	0.8	0
147	No training blind image quality assessment. Proceedings of SPIE, 2014, , .	0.8	0
148	IEEE Access Special Section Editorial: Emerging Computed Tomography Technologies. IEEE Access, 2014, 2, 1680-1682.	2.6	0
149	Surveillance system of power transmission line via object recognition and 3D vision computation. , 2014, , .		0
150	Dictionary learning based statistical interior reconstruction without a prior knowledge. Proceedings of SPIE, 2016, , .	0.8	0
151	A local correlation based visual saliency model. , 2016, , .		0
152	Video quality assessment based on correlation between spatiotemporal motion energies. Proceedings of SPIE, 2016, , .	0.8	0
153	Artifacts reduction based on 3D surface prior information in iterative breast tomosynthesis reconstruction. , 2016, , .		0
154	QP Selection Optimization for Intra-Frame Encoding Based on Constant Perceptual Quality. IEICE Transactions on Information and Systems, 2016, E99.D, 443-453.	0.4	0
155	Quality assessment of multiply and singly distorted stereoscopic images via adaptive construction of cyclopean views. Signal Processing: Image Communication, 2021, 94, 116175.	1.8	0
156	Reconstruction of rotary DSA vessel axis based on the matching of multiple projections. , 2005, , .		0
157	Multi-scale nonlinear contrast enhancement of radiographics based on human contrast sensitivity. , 2008, , .		0
158	A Novel Miniature Four-Band CPW-Fed Antenna Optimized Using ISPO Algorithm. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 576-581.	0.2	0
159	Conventional Mammographic Image Generation Method with Increased Calcification Sensitivity Based on Dual-Energy. Lecture Notes in Computer Science, 2014, , 460-467.	1.0	0
160	Decoupled Marginal Distribution of Gradient Magnitude and Laplacian of Gaussian for Texture Classification. Communications in Computer and Information Science, 2015, , 418-428.	0.4	0
161	Blind image quality evaluation using the conditional histogram patterns of divisive normalization transform coefficients. , 2017, , .		0
162	A denoising auto-encoder based on projection domain for low dose CT. , 2018, , .		0

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163	A Projection Match Based Motion Compensated Algorithm in 4DCBCT. , 2019, , .		0
164	Artifacts reduction method in 4DCBCT based on a weighted demons registration framework. , 2019, , .		0
165	No-reference image quality assessment based on an objective quality database and deep neural networks. , 2019, , .		0
166	Blind CT Image Quality Assessment Model Based on CT Image Statistics. , 2020, , .		0