Xuanqin Mou

List of Publications by Citations

116 papers	6,426 citations	25 h-index	80 g-index
169 ext. papers	8,162 ext. citations	4 avg, IF	6.07 L-index

#	Paper	IF	Citations
116	FSIM: a feature similarity index for image quality assessment. *IEEE Transactions on Image Processing*, **2011**, 20, 2378-86	8.7	2523
115	Gradient Magnitude Similarity Deviation: A Highly Efficient Perceptual Image Quality Index. *IEEE Transactions on Image Processing*, **2014**, 23, 684-95	8.7	723
114	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	11.7	546
113	Low-dose X-ray CT reconstruction via dictionary learning. *IEEE Transactions on Medical Imaging*, **2012**, 31, 1682-97	11.7	362
112	Blind image quality assessment using joint statistics of gradient magnitude and Laplacian features. *IEEE Transactions on Image Processing*, **2014**, 23, 4850-62	8.7	334
111	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	2	255
110	Learning without Human Scores for Blind Image Quality Assessment **2013**,		221
109	On the security of a chaotic encryption scheme: problems with computerized chaos in finite computing precision. *Computer Physics Communications*, **2003**, 153, 52-58	4.2	126
108	Improving security of a chaotic encryption approach. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2001**, 290, 127-133	2.3	98
107	RFSIM: A feature based image quality assessment metric using Riesz transforms **2010**,		93
106	Tensor-Based Dictionary Learning for Spectral CT Reconstruction. *IEEE Transactions on Medical Imaging*, **2017**, 36, 142-154	11.7	91
105	A comprehensive evaluation of full reference image quality assessment algorithms **2012**,		90
104	Hierarchical multiscale LBP for face and palmprint recognition **2010**,		73
103	Statistical interior tomography. *IEEE Transactions on Medical Imaging*, **2011**, 30, 1116-28	11.7	65
102	Image reconstruction for hybrid true-color micro-CT. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1711-9	5	64
101	Baptista-type chaotic cryptosystems: problems and countermeasures. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2004**, 332, 368-375	2.3	53
100	Tensor-based dictionary learning for dynamic tomographic reconstruction. *Physics in Medicine and Biology*, **2015**, 60, 2803-18	3.8	50

99	A hybrid metal artifact reduction algorithm for x-ray CT. *Medical Physics*, **2013**, 40, 041910	4.4	47
98	Chaotic encryption scheme for real-time digital video **2002**, 4666, 149		47
97	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, 6353-75	3.8	40
96	Performance analysis of Jakimoski□Kocarev attack on a class of□chaotic cryptosystems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2003**, 307, 22-28	2.3	40
95	Non-Shift Edge Based Ratio (NSER): An Image Quality Assessment Metric Based on Early Vision Features. *IEEE Signal Processing Letters*, **2011**, 18, 315-318	3.2	35
94	Extracting respiratory signals from thoracic cone beam CT projections. *Physics in Medicine and Biology*, **2013**, 58, 1447-64	3.8	33
93	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	2	30
92	Quality Assessment of Screen Content Images via Convolutional-Neural-Network-Based Synthetic/Natural Segmentation. *IEEE Transactions on Image Processing*, **2018**,	8.7	25
91	Z-Index Parameterization for Volumetric CT Image Reconstruction via 3-D Dictionary Learning. *IEEE Transactions on Medical Imaging*, **2017**, 36, 2466-2478	11.7	23
90	Breaking a chaos-noise-based secure communication scheme. *Chaos*, **2005**, 15, 13703	3.3	22
89	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	3.8	22
88	Reduced reference image quality assessment based on Weibull statistics **2010**,		21
87	On the security of the Yi-Tan-Siew chaotic cipher. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **2004**, 51, 665-669		15
86	Perceptual Fidelity Aware Mean Squared Error **2013**,		14
85	Data Augmentation and Spectral Structure Features for Limited Samples Hyperspectral Classification. *Remote Sensing*, **2021**, 13, 547	5	12
84	Miniature Four-Band CPW-Fed Antenna for RFID/WiMAX/WLAN Applications. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 1684-1688	3.8	10
83	Spectrum Estimation-Guided Iterative Reconstruction Algorithm for Dual Energy CT. *IEEE Transactions on Medical Imaging*, **2020**, 39, 246-258	11.7	10
82	Evaluation of Segmentation Quality via Adaptive Composition of Reference Segmentations. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2017**, 39, 1929-1941	13.3	9

81	An image quality assessment metric based on Non-shift Edge **2011**,		9
80	The impact of calibration phantom errors on dual-energy digital mammography. *Physics in Medicine and Biology*, **2008**, 53, 6321-36	3.8	9
79	High-quality initial image-guided 4D CBCT reconstruction. *Medical Physics*, **2020**, 47, 2099-2115	4.4	8
78	Reduced reference image quality assessment based on statistics of edge **2011**,		8
77	Data consistency conditionBased beam-hardening correction. *Optical Engineering*, **2011**, 50, 076501	1.1	8
76	Optimization based beam-hardening correction in CT under data integral invariant constraint. *Physics in Medicine and Biology*, **2018**, 63, 135015	3.8	7
75	Implementation of penalized-likelihood statistical reconstruction for polychromatic dual-energy CT **2009**,		7
74	The mathematical equivalence of consistency conditions in the divergent-beam computed tomography. *Journal of X-Ray Science and Technology*, **2012**, 20, 45-68	2.1	6
73	Dictionary Learning Based Low-Dose X-Ray CT Reconstruction **2014**, 99-119		5
72	Local binary pattern statistics feature for reduced reference image quality assessment **2013**,		5
71	Image quality assessment based on edge **2011**,		5
70	Weighted Total Variation constrained reconstruction for reduction of metal artifact in CT **2010**,		5
69	Statistical interior tomography **2010**,		5
68	Error analysis of calibration materials on dual-energy mammography **2007**, 10, 596-603		5
67	A CNN-Based Hybrid Ring Artifact Reduction Algorithm for CT Images. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2021**, 5, 253-260	4.2	5
66	Low Dose CT Image Reconstruction Based on Structure Tensor Total Variation Using Accelerated Fast Iterative Shrinkage Thresholding Algorithm. *Sensors*, **2020**, 20,	3.8	4
65	Algorithmic scatter correction in dual-energy digital mammography. *Medical Physics*, **2013**, 40, 111919	4.4	4
64	Metal artifact reduction based on beam hardening correction and statistical iterative reconstruction for X-ray computed tomography **2013**,		4

63	A robust x-ray tube spectra measuring method by attenuation data **2006**,		4
62	Joint Optimization for SSIM-Based CTU-Level Bit Allocation and Rate Distortion Optimization. *IEEE Transactions on Broadcasting*, **2021**, 67, 500-511	4.7	4
61	LoG acts as a good feature in the task of image quality assessment **2014**,		3
60	Dictionary learning based low-dose x-ray CT reconstruction using a balancing principle **2014**,		3
59	Reduced reference image quality assessment via sub-image similarity based redundancy measurement **2012**,		3
58	A psychovisual image Quality Metric based on multi-scale Structure Similarity **2008**,		3
57	Beam hardening correction based on HL consistency in polychromatic transmission tomography **2008**,		3
56	A beam hardening correction method based on HL consistency **2006**, 6318, 583		3
55	Video quality assessment based on motion structure partition similarity of spatiotemporal slice images. *Journal of Electronic Imaging*, **2018**, 27, 1	0.7	3
54	Deep Tomographic Image Reconstruction: Yesterday, Today, and Tomorrow□Editorial for the 2nd Special Issue □Machine Learning for Image Reconstruction□*IEEE Transactions on Medical Imaging*, **2021**, 40, 2956-2964	11.7	3
53	Learning No-Reference Quality Assessment of Multiply and Singly Distorted Images with Big Data. *IEEE Transactions on Image Processing*, **2019**,	8.7	3
52	Data correlation based noise level estimation for cone beam projection data. *Journal of X-Ray Science and Technology*, **2017**, 25, 907-926	2.1	2
51	Blind image quality assessment using statistical independence in the divisive normalization transform domain. *Journal of Electronic Imaging*, **2015**, 24, 063008	0.7	2
50	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	11.7	2
49	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	2.1	2
48	A comparison study of stationary and mobile eye tracking on EXITs design in a wayfinding system **2015**,		2
47	Low-dose CT reconstruction based on multiscale dictionary **2013**,		2
46	Block-layer bit allocation for quality constrained video encoding based on constant perceptual quality **2013**,		2

45	Beam hardening correction for fan-beam CT imaging with multiple materials **2010**,		2
44	A new implementation of UHF RFID reader **2009**,		2
43	Iterative scatter correction for x-ray cone-beam CT with semi-transparent beam stop array **2009**,		2
42	No-reference video quality assessment based on spatiotemporal slice images and deep convolutional neural networks **2019**,		2
41	An applicability research on JND model **2006**,		2
40	Medipix-based Spectral Micro-CT **2012**, 21, 583		2
39	A Reduced-Reference Image Quality Assessment Model Based on Joint-Distribution of Neighboring LOG Signals. *IS&T International Symposium on Electronic Imaging*, **2016**, 2016, 1-8	1	2
38	A statistical iterative reconstruction framework for dual energy computed tomography without knowing tube spectrum **2016**,		2
37	A novel method of micro-tomography geometric angle calibration with random phantom. *Journal of X-Ray Science and Technology*, **2017**,	2.1	1
36	A Simple but Effective Denoising Algorithm in Projection Domain of CBCT. *Lecture Notes in Computer Science*, **2015**, 462-469	0.9	1
35	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	0.6	1
34	Image quality assessment with mean squared error in a log based perceptual response domain **2014**,		1
33	No reference image quality assessment based on statistical distribution of local Sub-Image-Similarity **2012**,		1
32	A novel no-reference image quality assessment metric based on statistical independence **2012**,		1
31	Edge patterns extracted from natural images and their statistics for reduced-reference image quality assessment **2013**,		1
30	CT gradient image reconstruction directly from projections. *Journal of X-Ray Science and Technology* , **2011**, 19, 173-98	2.1	1
29	**2010**,		1
28	Adaptive beam hardening correction based on projection data consistency condition **2010**,		1

27	Recent progress in local reconstruction **2010**,		1
26	Image noise sensitivity of dual-energy digital mammography for calcification imaging **2011**,		1
25	Algorithmic scatter correction in dual-energy digital mammography for calcification imaging **2012**,		1
24	A novel contrast equalization method for chest radiograph **2006**, 6144, 2146		1
23	Registration for DSA Image Using Triangle Grid and Spatial Transformation Based on Stretching **2006**,		1
22	No-reference video quality assessment based on perceptual features extracted from multi-directional video spatiotemporal slices images **2018**,		1
21	Low-dose computed tomography image reconstruction via structure tensor total variation regularization **2018**,		1
20	Generative Low-Dose CT Image Denoising. *Advances in Computer Vision and Pattern Recognition*, **2019**, 277-297	1.1	1
19	A Full-Reference Image Quality Assessment Model Based on Quadratic Gradient Magnitude and LOG Signal. *Lecture Notes in Computer Science*, **2019**, 702-713	0.9	1
18	Survey on Eye Movement Based Authentication Systems. *Communications in Computer and Information Science*, **2015**, 144-159	0.3	1
17	Modified eigenvector-based feature extraction for hyperspectral image classification using limited samples. *Signal, Image and Video Processing*, **2020**, 14, 711-717	1.6	1
16	CycN-Net: A Convolutional Neural Network Specialized for 4D CBCT Images Refinement. *IEEE Transactions on Medical Imaging*, **2021**, 40, 3054-3064	11.7	1
15	. *IEEE Access*, **2021**, 1-1	3.5	1
14	Spatiotemporal structure-aware dictionary learning-based 4D CBCT reconstruction. *Medical Physics*, **2021**, 48, 6421-6436	4.4	1
13	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	2.1	1
12	A Novel Stationary CT Scheme Based on High-Density X-Ray Sources Device. *IEEE Access*, **2020**, 8, 112910-112921	3.5	0
11	Iterative Filtering and Structural Features for Hyperspectral Image Classification with Limited Samples. *Canadian Journal of Remote Sensing*, **2018**, 44, 575-587	1.8	0
10	Joint model of gradient magnitude and Gabor features via Spatio-Temporal slice. *Journal of Visual Communication and Image Representation*, **2021**, 79, 103204	2.7	0

9	QP Selection Optimization for Intra-Frame Encoding Based on Constant Perceptual Quality. *IEICE Transactions on Information and Systems*, **2016**, E99.D, 443-453	0.6
8	Reconstruction of Vessel Axis Based on the Matching of iterative Projection Algorithm and Analysis of Corresponding Points. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2005**, 2005, 3316-9	
7	Multi-domain residual encoder-decoder networks for generalized compression artifact reduction. *Journal of Visual Communication and Image Representation*, **2022**, 83, 103425	2.7
6	Segment Self-Guide Reconstruction Algorithm Based on Object-Oriented Quantization. *Lecture Notes in Computer Science*, **2003**, 457-465	0.9
5	Optimal superpixel selection for hyperspectral image classification of limited training samples. *International Journal of Remote Sensing*, **2021**, 42, 9059-9075	3.1
4	Decoupled Marginal Distribution of Gradient Magnitude and Laplacian of Gaussian for Texture Classification. *Communications in Computer and Information Science*, **2015**, 418-428	0.3
3	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
2	Conventional Mammographic Image Generation Method with Increased Calcification Sensitivity Based on Dual-Energy. *Lecture Notes in Computer Science*, **2014**, 460-467	0.9
1	Quality assessment of multiply and singly distorted stereoscopic images via adaptive construction of cyclopean views. *Signal Processing: Image Communication*, **2021**, 94, 116175	2.8