Xiaohai He

List of Publications by Year in Descending Order

112 papers	947 citations	18 h-index	25 g-index
128 ext. papers	1,311 ext. citations	3.4 avg, IF	4.92 L-index

#	Paper	IF	Citations
112	BPGAN: Brain PET synthesis from MRI using generative adversarial network for multi-modal Alzheimer's disease diagnosis.. *Computer Methods and Programs in Biomedicine*, **2022**, 217, 106676	6.9	2
111	A two-stage deep generative adversarial quality enhancement network for real-world 3D CT images. *Expert Systems With Applications*, **2022**, 193, 116440	7.8	1
110	Feature separation and double causal comparison loss for visible and infrared person re-identification. *Knowledge-Based Systems*, **2022**, 239, 108042	7.3	0
109	Diagnosis of Alzheimer's disease based on regional attention with sMRI gray matter slices. *Journal of Neuroscience Methods*, **2022**, 365, 109376	3	4
108	Real-world single image super-resolution: A brief review. *Information Fusion*, **2022**, 79, 124-145	16.7	20
107	Weakly-supervised contrastive learning-based implicit degradation modeling for blind image super-resolution. *Knowledge-Based Systems*, **2022**, 108984	7.3	1
106	Unsupervised Real-World Image Super-Resolution via Dual Synthetic-to-Realistic and Realistic-to-Synthetic Translations. *IEEE Signal Processing Letters*, **2022**, 1-1	3.2	0
105	Learning Image Profile Enhancement and Denoising Statistics Priors for Single-Image Super-Resolution. *IEEE Transactions on Cybernetics*, **2021**, 51, 3535-3548	10.2	5
104	Adaptive Consistency Prior based Deep Network for Image Denoising **2021**,		18
103	Application of Machine Vision in Classifying Gait Frailty Among Older Adults. *Frontiers in Aging Neuroscience*, **2021**, 13, 757823	5.3	0
102	Lightweight deep residual network for alzheimer's disease classification using sMRI slices. *Journal of Intelligent and Fuzzy Systems*, **2021**, 1-9	1.6	1
101	A novel social distancing analysis in urban public space: A new online spatio-temporal trajectory approach. *Sustainable Cities and Society*, **2021**, 68, 102765	10.1	14
100	Super-resolution of compressed images using enhanced attention network. *Journal of Electronic Imaging*, **2021**, 30,	0.7	1
99	Reconstruction of 3D greyscale image for reservoir rock from a single image based on pattern dictionary. *Journal of Microscopy*, **2021**, 283, 202-218	1.9	0
98	Remote sensing image recovery via enhanced residual learning and dual-luminance scheme. *Knowledge-Based Systems*, **2021**, 222, 107013	7.3	2
97	Extracting relational facts based on hybrid Syntax-Guided transformer and pointer network. *Journal of Intelligent and Fuzzy Systems*, **2021**, 40, 12167-12183	1.6	1
96	Slice-to-voxel stochastic reconstructions on porous media with hybrid deep generative model. *Computational Materials Science*, **2021**, 186, 110018	3.2	14

95	Deep recursive network for image denoising with global non-linear smoothness constraint prior. *Neurocomputing*, **2021**, 426, 147-161	5.4	1
94	An improved R-rate control model based on joint spatial-temporal domain information and HVS characteristics. *Multimedia Tools and Applications*, **2021**, 80, 345-366	2.5	4
93	Enhanced Separable Convolution Network for Lightweight JPEG Compression Artifacts Reduction. *IEEE Signal Processing Letters*, **2021**, 28, 1280-1284	3.2	2
92	An enhanced siamese angular softmax network with dual joint-attention for person re-identification. *Applied Intelligence*, **2021**, 51, 6148-6166	4.9	1
91	Enhanced wide-activated residual network for efficient and accurate image deblocking. *Signal Processing: Image Communication*, **2021**, 96, 116283	2.8	
90	Compressed image restoration via deep deblocker driven unified framework. *Knowledge-Based Systems*, **2021**, 228, 107268	7.3	1
89	Multiscale modeling algorithm for core images. *Physical Review E*, **2020**, 101, 053303	2.4	0
88	Adaptive image coding efficiency enhancement using deep convolutional neural networks. *Information Sciences*, **2020**, 524, 298-317	7.7	2
87	An end-to-end three-dimensional reconstruction framework of porous media from a single two-dimensional image based on deep learning. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 368, 113043	5.7	27
86	Single Remote Sensing Image Super-Resolution with an Adaptive Joint Constraint Model. *Sensors*, **2020**, 20,	3.8	3
85	Super-resolution of real-world rock microcomputed tomography images using cycle-consistent generative adversarial networks. *Physical Review E*, **2020**, 101, 023305	2.4	17
84	EyesGAN: Synthesize human face from human eyes. *Neurocomputing*, **2020**, 404, 213-226	5.4	5
83	Reduction of JPEG compression artifacts based on DCT coefficients prediction. *Neurocomputing*, **2020**, 384, 335-345	5.4	6
82	A quality enhancement framework with noise distribution characteristics for high efficiency video coding. *Neurocomputing*, **2020**, 411, 428-441	5.4	3
81	Gray matter alteration in heroin-dependent men: An atlas-based magnetic resonance imaging study. *Psychiatry Research - Neuroimaging*, **2020**, 304, 111150	2.9	2
80	Zero-shot recognition with latent visual attributes learning. *Multimedia Tools and Applications*, **2020**, 79, 27321-27335	2.5	2
79	Visual Perception Enhancement for HEVC Compressed Video Using a Generative Adversarial Network **2020**,		2
78	An experimental study of relative total variation and probabilistic collaborative representation for iris recognition. *Multimedia Tools and Applications*, **2020**, 79, 31783-31801	2.5	0

77	Reconstruction of porous media from extremely limited information using conditional generative adversarial networks. *Physical Review E*, **2019**, 100, 033308	2.4	32
76	. *IEEE Transactions on Multimedia*, **2019**, 21, 3010-3023	6.6	7
75	Enhanced Non-Local Total Variation Model and Multi-Directional Feature Prediction Prior for Single Image Super Resolution. *IEEE Transactions on Image Processing*, **2019**, 28, 3778-3793	8.7	18
74	. *IEEE Transactions on Circuits and Systems for Video Technology*, **2019**, 29, 1488-1502	6.4	4
73	. *IEEE Transactions on Multimedia*, **2019**, 21, 731-745	6.6	19
72	CT-image of rock samples super resolution using 3D convolutional neural network. *Computers and Geosciences*, **2019**, 133, 104314	4.5	40
71	A Fast DVC to HEVC Transcoding for Mobile Video Communication **2019**,		1
70	Dictionary optimization and constraint neighbor embedding-based dictionary mapping for superdimension reconstruction of porous media. *Physical Review E*, **2019**, 99, 062134	2.4	11
69	Capturing the symptoms of malicious code in electronic documents by file's entropy signal combined with machine learning. *Applied Soft Computing Journal*, **2019**, 82, 105598	7.5	7
68	Joint Entity and Relation Extraction Based on Reinforcement Learning. *IEEE Access*, **2019**, 7, 125688-125699	3.9	5
67	Super-resolution for remote sensing images via dual-domain network learning. *Journal of Electronic Imaging*, **2019**, 28, 1	0.7	
66	Visible Infrared Cross-Modality Person Re-Identification Network Based on Adaptive Pedestrian Alignment. *IEEE Access*, **2019**, 7, 171485-171494	3.5	4
65	Deep Wide-Activated Residual Network Based Joint Blocking and Color Bleeding Artifacts Reduction for 4:2:0 JPEG-Compressed Images. *IEEE Signal Processing Letters*, **2019**, 26, 79-83	3.2	13
64	Machine learning-based H.264/AVC to HEVC transcoding via motion information reuse and coding mode similarity analysis. *IET Image Processing*, **2019**, 13, 34-43	1.7	2
63	CISRDCNN: Super-resolution of compressed images using deep convolutional neural networks. *Neurocomputing*, **2018**, 285, 204-219	5.4	23
62	Markov prior-based block-matching algorithm for superdimension reconstruction of porous media. *Physical Review E*, **2018**, 97, 043306	2.4	9
61	. *IEEE Transactions on Multimedia*, **2018**, 20, 1305-1320	6.6	22
60	A New Regularized Matrix Discriminant Analysis (R-MDA) Enabled Human-Centered EEG Monitoring Systems. *IEEE Access*, **2018**, 6, 13911-13920	3.5	5

59	From Eyes to Face Synthesis: a New Approach for Human-Centered Smart Surveillance. *IEEE Access*, **2018**, 6, 14567-14575	3.5	10
58	Nonlocal Similarity Modeling and Deep CNN Gradient Prior for Super Resolution. *IEEE Signal Processing Letters*, **2018**, 25, 916-920	3.2	11
57	SGCRSR: Sequential gradient constrained regression for single image super-resolution. *Signal Processing: Image Communication*, **2018**, 66, 1-18	2.8	9
56	Robust distributed video coding for wireless multimedia sensor networks. *Multimedia Tools and Applications*, **2018**, 77, 4453-4475	2.5	10
55	Video Super-Resolution via Residual Learning. *IEEE Access*, **2018**, 6, 23767-23777	3.5	21
54	Accelerating multi-point statistics reconstruction method for porous media via deep learning. *Acta Materialia*, **2018**, 159, 296-308	8.4	39
53	Image deblocking via joint domain learning. *Journal of Electronic Imaging*, **2018**, 27, 1	0.7	2
52	Image compression via multiple sampling-rate downsampling and super-resolution upconversion. *Journal of Electronic Imaging*, **2018**, 27, 1	0.7	
51	Adaptive Gradient Information and BFGS Based Inter Frame Rate Control for High Efficiency Video Coding. *Multimedia Tools and Applications*, **2018**, 77, 14557-14577	2.5	4
50	Scalable Distributed Video Coding for Wireless Video Sensor Networks. *IEICE Transactions on Information and Systems*, **2018**, E101.D, 20-27	0.6	2
49	DPW-SDNet: Dual Pixel-Wavelet Domain Deep CNNs for Soft Decoding of JPEG-Compressed Images **2018**,		25
48	Improved multipoint statistics method for reconstructing three-dimensional porous media from a two-dimensional image via porosity matching. *Physical Review E*, **2018**, 97, 063304	2.4	18
47	A New Progressively Refined Wyner-Ziv Video Coding for Low-Power Human-Centered Telehealth. *IEEE Access*, **2018**, 6, 38315-38325	3.5	
46	A Novel Solution to the Cognitive Radio Decision Engine Based on Improved Multi-Objective Artificial Bee Colony Algorithm and Fuzzy Reasoning. *Intelligent Automation and Soft Computing*, **2017**, 23, 643-651	2.6	3
45	Sparse representation-based volumetric super-resolution algorithm for 3D CT images of reservoir rocks. *Journal of Applied Geophysics*, **2017**, 144, 69-77	1.7	13
44	. *IEEE Transactions on Multimedia*, **2017**, 19, 1702-1717	6.6	34
43	Single Image Super-Resolution via Adaptive High-Dimensional Non-Local Total Variation and Adaptive Geometric Feature. *IEEE Transactions on Image Processing*, **2017**, 26, 90-106	8.7	29
42	Evaluating the morphological completeness of a training image. *Physical Review E*, **2017**, 95, 053306	2.4	4

41	Tree-structured Bayesian compressive sensing via generalised inverse Gaussian distribution. *IET Signal Processing*, **2017**, 11, 250-257	1.7	2
40	3D MRI image super-resolution for brain combining rigid and large diffeomorphic registration. *IET Image Processing*, **2017**, 11, 1291-1301	1.7	5
39	Error Resilient Video Coding for Wireless Visual Sensor Network *Proceedings (mdpi)*, **2017**, 1, 134	0.3	
38	Error Resilient Video Coding for Wireless Visual Sensor Network. *Proceedings (mdpi)*, **2017**, 1, 134	0.3	
37	Mobile Video Communications Based on Cloud Transcoding. *Proceedings (mdpi)*, **2017**, 1, 143	0.3	
36	Towards Information Ecosystem for Urban Planning The Application of Video Data. *Proceedings (mdpi)*, **2017**, 1, 153	0.3	0
35	Research on compression performance of ultrahigh-definition videos. *Journal of Electronic Imaging*, **2017**, 26, 1	0.7	
34	Rotation expanded dictionary-based single image super-resolution. *Neurocomputing*, **2016**, 216, 1-17	5.4	11
33	Pattern density function for reconstruction of three-dimensional porous media from a single two-dimensional image. *Physical Review E*, **2016**, 93, 012140	2.4	21
32	Adaptive bit allocation scheme for extremely low-delay intraframe rate control in high efficiency video coding. *Journal of Electronic Imaging*, **2016**, 25, 043008	0.7	5
31	Reconstruction algorithm using exact tree projection for tree-structured compressive sensing. *IET Signal Processing*, **2016**, 10, 566-573	1.7	7
30	Low bit rates image compression via adaptive block downsampling and super resolution. *Journal of Electronic Imaging*, **2016**, 25, 013004	0.7	3
29	Long-Range Motion Trajectories Extraction of Articulated Human Using Mesh Evolution. *IEEE Signal Processing Letters*, **2016**, 23, 507-511	3.2	1
28	Single Image Super-Resolution Using Local Geometric Duality and Non-Local Similarity. *IEEE Transactions on Image Processing*, **2016**, 25, 2168-86	8.7	43
27	Single image super resolution using local smoothness and nonlocal self-similarity priors. *Signal Processing: Image Communication*, **2016**, 43, 68-81	2.8	14
26	Single image super-resolution based on deep learning and gradient transformation **2016**,		4
25	Video super-resolution using joint regularization **2016**,		1
24	A New Framework for Container Code Recognition by Using Segmentation-Based and HMM-Based Approaches. *International Journal of Pattern Recognition and Artificial Intelligence*, **2015**, 29, 1550004	1.1	5

23	Reconstruction of three-dimensional porous media from a single two-dimensional image using three-step sampling. *Physical Review E*, **2015**, 91, 013308	2.4	37
22	A fast inter-prediction algorithm for HEVC based on temporal and spatial correlation. *Multimedia Tools and Applications*, **2015**, 74, 11023-11043	2.5	13
21	Measuring Crowd Collectiveness via Compressive Sensing. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2015**, E98.A, 2263-2266	0.4	2
20	Measuring Collectiveness in Crowded Scenes via Link Prediction. *IEICE Transactions on Information and Systems*, **2015**, E98.D, 1617-1620	0.6	2
19	Evaluation of Cross-Protocol Stability of a Fully Automated Brain Multi-Atlas Parcellation Tool. *PLoS ONE*, **2015**, 10, e0133533	3.7	24
18	Discriminative analysis of multivariate features from structural MRI and diffusion tensor images. *Magnetic Resonance Imaging*, **2014**, 32, 1043-51	3.3	30
17	Content-based group-of-picture size control in distributed video coding. *Signal Processing: Image Communication*, **2014**, 29, 332-344	2.8	2
16	An efficient approach for differentiating Alzheimer's disease from normal elderly based on multicenter MRI using gray-level invariant features. *PLoS ONE*, **2014**, 9, e105563	3.7	17
15	Stable-phase method for hierarchical annealing in the reconstruction of porous media images. *Physical Review E*, **2014**, 89, 013305	2.4	35
14	Texture-intensity-based fast coding unit size determination method for high-efficiency video coding intracoding. *Journal of Electronic Imaging*, **2014**, 23, 053005	0.7	5
13	A reconstruction method for three-dimensional pore space using multiple-point geology statistic based on statistical pattern recognition and microstructure characterization. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2013**, 37, 97-110	4	9
12	Subframe video synchronization by matching trajectories **2013**,		1
11	A Jointly Optimized Predictive-Adaptive Partitioned Block Transform for Video Coding. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2013**, E96.A, 2161-2168	0.4	
10	Multiple-point statistics method based on array structure for 3D reconstruction of Fontainebleau sandstone. *Journal of Petroleum Science and Engineering*, **2012**, 100, 71-80	4.4	12
9	Hidden-Markov-Model-Based Segmentation Confidence Applied to Container Code Character Extraction. *IEEE Transactions on Intelligent Transportation Systems*, **2011**, 12, 1147-1156	6.1	4
8	An Improved Iterative Back-Projection Algorithm for Video Super-Resolution Reconstruction **2010**,		9
7	Image Super-resolution Reconstruction Based on Sub-pixel Registration and Iterative Back Projection **2008**,		3
6	Progressively refined scheme for wireless video sensor networks. *Signal, Image and Video Processing*, 1	1.6	

5	UAMNer: uncertainty-aware multimodal named entity recognition in social media posts. *Applied Intelligence*,1	4.9	0
4	Cross-modal multi-relationship aware reasoning for image-text matching. *Multimedia Tools and Applications*,1	2.5	0
3	A video compression artifact reduction approach combined with quantization parameters estimation. *Journal of Supercomputing*,1	2.5	
2	A nonlocal HEVC in-loop filter using CNN-based compression noise estimation. *Applied Intelligence*,1	4.9	
1	Sequential Enhancement for Compressed Video Using Deep Convolutional Generative Adversarial Network. *Neural Processing Letters*,1	2.4	