

# Zhongyuan Wang

## List of Publications by Year in descending order

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133  
papers

4,446  
citations

159358

30  
h-index

128067

60  
g-index

133  
all docs

133  
docs citations

133  
times ranked

2997  
citing authors

#	ARTICLE	IF	CITATIONS
1	Edge-Enhanced GAN for Remote Sensing Image Superresolution. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5799-5812.	2.7	324
2	Multi-Scale Progressive Fusion Network for Single Image Deraining. , 2020, , .		321
3	Noise Robust Face Hallucination via Locality-Constrained Representation. IEEE Transactions on Multimedia, 2014, 16, 1268-1281.	5.2	252
4	SuperPCA: A Superpixelwise PCA Approach for Unsupervised Feature Extraction of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4581-4593.	2.7	233
5	Face Super-Resolution via Multilayer Locality-Constrained Iterative Neighbor Embedding and Intermediate Dictionary Learning. IEEE Transactions on Image Processing, 2014, 23, 4220-4231.	6.0	202
6	SeaShips: A Large-Scale Precisely Annotated Dataset for Ship Detection. IEEE Transactions on Multimedia, 2018, 20, 2593-2604.	5.2	198
7	BRRNet: A Fully Convolutional Neural Network for Automatic Building Extraction From High-Resolution Remote Sensing Images. Remote Sensing, 2020, 12, 1050.	1.8	146
8	Progressive Fusion Video Super-Resolution Network via Exploiting Non-Local Spatio-Temporal Correlations. , 2019, , .		144
9	Hierarchical dense recursive network for image super-resolution. Pattern Recognition, 2020, 107, 107475.	5.1	144
10	Single Image Super-Resolution via Locally Regularized Anchored Neighborhood Regression and Nonlocal Means. IEEE Transactions on Multimedia, 2017, 19, 15-26.	5.2	140
11	Multi-Memory Convolutional Neural Network for Video Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 2530-2544.	6.0	135
12	Saliency-Aware Convolution Neural Network for Ship Detection in Surveillance Video. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 781-794.	5.6	133
13	SRLSP: A Face Image Super-Resolution Algorithm Using Smooth Regression With Local Structure Prior. IEEE Transactions on Multimedia, 2017, 19, 27-40.	5.2	126
14	Smart Monitoring Cameras Driven Intelligent Processing to Big Surveillance Video Data. IEEE Transactions on Big Data, 2018, 4, 105-116.	4.4	95
15	Multi-Temporal Ultra Dense Memory Network for Video Super-Resolution. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 2503-2516.	5.6	94
16	Video Satellite Imagery Super Resolution via Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2398-2402.	1.4	89
17	Remote Sensing Image Super-Resolution Using Sparse Representation and Coupled Sparse Autoencoder. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 2663-2674.	2.3	89
18	Deep Distillation Recursive Network for Remote Sensing Imagery Super-Resolution. Remote Sensing, 2018, 10, 1700.	1.8	88

#	ARTICLE	IF	CITATIONS
19	Face Hallucination Via Weighted Adaptive Sparse Regularization. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 802-813.	5.6	86
20	Satellite Image Super-Resolution via Multi-Scale Residual Deep Neural Network. Remote Sensing, 2019, 11, 1588.	1.8	75
21	Real-Time and Accurate UAV Pedestrian Detection for Social Distancing Monitoring in COVID-19 Pandemic. IEEE Transactions on Multimedia, 2022, 24, 2069-2083.	5.2	75
22	ATMFN: Adaptive-Threshold-Based Multi-Model Fusion Network for Compressed Face Hallucination. IEEE Transactions on Multimedia, 2020, 22, 2734-2747.	5.2	72
23	Rain-Free and Residue Hand-in-Hand: A Progressive Coupled Network for Real-Time Image Deraining. IEEE Transactions on Image Processing, 2021, 30, 7404-7418.	6.0	64
24	Separability and Compactness Network for Image Recognition and Superresolution. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3275-3286.	7.2	63
25	A Progressively Enhanced Network for Video Satellite Imagery Superresolution. IEEE Signal Processing Letters, 2018, 25, 1630-1634.	2.1	54
26	Decomposition Makes Better Rain Removal: An Improved Attention-Guided Deraining Network. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 3981-3995.	5.6	54
27	Multiscale Locality and Rank Preservation for Robust Feature Matching of Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6462-6472.	2.7	52
28	Blind Quality Metric of DIBR-Synthesized Images in the Discrete Wavelet Transform Domain. IEEE Transactions on Image Processing, 2020, 29, 1802-1814.	6.0	51
29	Dual-Path Deep Fusion Network for Face Image Hallucination. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 378-391.	7.2	51
30	Ultra-dense GAN for satellite imagery super-resolution. Neurocomputing, 2020, 398, 328-337.	3.5	48
31	Super-Resolution for "Jilin" Satellite Video Imagery via a Convolutional Network. Sensors, 2018, 18, 1194.	2.1	47
32	Omniscient Video Super-Resolution. , 2021, , .		40
33	Knowledge-Based Coding of Objects for Multisource Surveillance Video Data. IEEE Transactions on Multimedia, 2016, 18, 1691-1706.	5.2	38
34	Face Hallucination via Split-Attention in Split-Attention Network. , 2021, , .		37
35	Locality-constraint iterative neighbor embedding for face hallucination. , 2013, , .		30
36	Fast Synopsis for Moving Objects Using Compressed Video. IEEE Signal Processing Letters, 2014, 21, 834-838.	2.1	29

#	ARTICLE	IF	CITATIONS
37	SCSCN: A Separated Channel-Spatial Convolution Net With Attention for Single-View Reconstruction. IEEE Transactions on Industrial Electronics, 2020, 67, 8649-8658.	5.2	27
38	A Progressive Fusion Generative Adversarial Network for Realistic and Consistent Video Super-Resolution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	9.7	25
39	Multi-Scale Hybrid Fusion Network for Single Image Deraining. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3594-3608.	7.2	21
40	Virtual Background Reference Frame Based Satellite Video Coding. IEEE Signal Processing Letters, 2018, 25, 1445-1449.	2.1	20
41	Reference-Free DIBR-Synthesized Video Quality Metric in Spatial and Temporal Domains. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1119-1132.	5.6	18
42	User Identification across Asynchronous Mobility Trajectories. Sensors, 2019, 19, 2102.	2.1	17
43	Masked Face Recognition Datasets and Validation. , 2021, , .		17
44	Artist-Net: Decorating the Inferred Content With Unified Style for Image Inpainting. IEEE Access, 2019, 7, 36921-36933.	2.6	16
45	VP-Net: An Interpretable Deep Network for Variational Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	15
46	Joint Segmentation and Identification Feature Learning for Occlusion Face Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10875-10888.	7.2	14
47	Understanding Dynamic Associations: Gait Recognition via Cross-view Spatiotemporal Aggregation Network. IEEE Transactions on Circuits and Systems for Video Technology, 2024, , 1-1.	5.6	14
48	Temporal color Just Noticeable Distortion model and its application for video coding. , 2010, , .		13
49	L1-L1 norms for face super-resolution with mixed Gaussian-impulse noise. , 2016, , .		12
50	Silicone mask face anti-spoofing detection based on visual saliency and facial motion. Neurocomputing, 2021, 458, 416-427.	3.5	12
51	Multi-Source Evidence Data Fusion Approach to Detect Daily Distribution and Coverage of <i>Ulva Prolifera</i> in the Yellow Sea, China. IEEE Access, 2019, 7, 115214-115228.	2.6	11
52	Seeing in the Dark by Component-GAN. IEEE Signal Processing Letters, 2021, 28, 1250-1254.	2.1	10
53	Proof of Nondeterministic Polynomial-Time Complete Problem for Soil Slope-Stability Evaluation. International Journal of Geomechanics, 2016, 16, .	1.3	9
54	A sensitive object-oriented approach to big surveillance data compression for social security applications in smart cities. Software - Practice and Experience, 2017, 47, 1061-1080.	2.5	9

#	ARTICLE	IF	CITATIONS
55	HyperFusion: A Computational Approach for Hyperspectral, Multispectral, and Panchromatic Image Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	9
56	Video coding using dynamic texture synthesis. , 2010, , .		8
57	Manifold regularized sparse support regression for single image super-resolution. , 2013, , .		8
58	Heteroskedasticity tuned mixed-norm sparse regularization for face hallucination. Multimedia Tools and Applications, 2016, 75, 17273-17301.	2.6	8
59	Face hallucination using region-based deep convolutional networks. , 2017, , .		8
60	A Lossless Recompression Approach for Video Streaming Transmission. IEEE Access, 2019, 7, 35162-35172.	2.6	8
61	Multi-Level Memory Compensation Network for Rain Removal via Divide-and-Conquer Strategy. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 216-228.	7.3	8
62	Intra coding and refresh based on video epitomic analysis. , 2010, , .		7
63	Low-Resolution and Low-Quality Face Super-Resolution in Monitoring Scene via Support-Driven Sparse Coding. Journal of Signal Processing Systems, 2014, 75, 245-256.	1.4	7
64	Hyperspectral image denoising based on low-rank representation and superpixel segmentation. , 2016, , .		7
65	Filling Kinect depth holes via position-guided matrix completion. Neurocomputing, 2016, 215, 48-52.	3.5	7
66	Rectangular-Normalized Superpixel Entropy Index for Image Quality Assessment. Entropy, 2018, 20, 947.	1.1	7
67	AIM 2019 Challenge on Video Extreme Super-Resolution: Methods and Results. , 2019, , .		7
68	“One-Shot” Super-Resolution via Backward Style Transfer for Fast High-Resolution Style Transfer. IEEE Signal Processing Letters, 2021, 28, 1485-1489.	2.1	7
69	DANet: Image Deraining via Dynamic Association Learning. , 2022, , .		7
70	News Video Summarization Combining SURF and Color Histogram Features. Entropy, 2021, 23, 982.	1.1	6
71	GAN-Based Multi-level Mapping Network for Satellite Imagery Super-Resolution. , 2019, , .		5
72	Single image de-raining via clique recursive feedback mechanism. Neurocomputing, 2020, 417, 142-154.	3.5	5

#	ARTICLE	IF	CITATIONS
73	A Tilt-Angle Face Dataset And Its Validation. , 2021, , .		5
74	A face super-resolution approach using shape semantic mode regularization. , 2010, , .		4
75	3D hybrid just noticeable distortion modeling for depth image-based rendering. Multimedia Tools and Applications, 2015, 74, 10457-10478.	2.6	4
76	Locally regularized Anchored Neighborhood Regression for fast Super-Resolution. , 2015, , .		4
77	Improving Convolutional Neural Networks Via Compacting Features. , 2018, , .		4
78	Feature Matching Based on Top K Rank Similarity. , 2018, , .		4
79	Blind Quality Assessment for 3D-synthesized Images by Measuring Geometric Distortions and Image Complexity. , 2019, , .		4
80	Tell The Truth From The Front: Anti-Disguise Vehicle Re-Identification. , 2020, , .		4
81	Online Optimal Control of Robotic Systems with Single Critic NN-Based Reinforcement Learning. Complexity, 2021, 2021, 1-7.	0.9	4
82	Research on Intelligent Algorithm of Identity Authentication Based on Facial Features. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	0.8	4
83	From Semantic to Spatial Awareness: Vehicle Reidentification With Multiple Attention Mechanisms. IEEE MultiMedia, 2021, 28, 32-41.	1.5	4
84	Rethinking Lightweight: Multiple Angle Strategy for Efficient Video Action Recognition. IEEE Signal Processing Letters, 2022, 29, 498-502.	2.1	4
85	Few-Shot Semantic Segmentation via Frequency Guided Neural Network. IEEE Signal Processing Letters, 2022, 29, 1092-1096.	2.1	4
86	Intracoding and Refresh With Compression-Oriented Video Epitomic Priors. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 714-726.	5.6	3
87	Demo paper: Video retrieval synopsis for moving objects. , 2013, , .		3
88	LBP-Guided Depth Image Filter. , 2013, , .		3
89	Face hallucination via weighted sparse representation. , 2013, , .		3
90	Face hallucination via re-identified K-nearest neighbors embedding. , 2014, , .		3

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91	Face Hallucination Using Manifold-Regularized Group Locality-Constrained Representation. , 2018, , .		3
92	Multi-speakers Speech Separation Based on Modified Attractor Points Estimation and GMM Clustering. , 2019, , .		3
93	Multisource surveillance video data coding with hierarchical knowledge library. Multimedia Tools and Applications, 2019, 78, 14705-14731.	2.6	3
94	Attention-Guided Deraining Network Via Stage-Wise Learning. , 2020, , .		3
95	Uncovering Abnormal Behavior Patterns from Mobility Trajectories. Sensors, 2021, 21, 3520.	2.1	3
96	PCNET: Progressive Coupled Network for Real-Time Image Deraining. , 2021, , .		3
97	Spatiotemporal two-stream LSTM network for unsupervised video summarization. Multimedia Tools and Applications, 2022, 81, 40489-40510.	2.6	3
98	Embedded video surveillance system for vehicle over WLAN and CDMA1X. , 0, , .		2
99	A Novel Frame Error Concealment Algorithm Based on Dynamic Texture Synthesis. , 2010, , .		2
100	Rain Streak Removal via Multi-scale Mixture Exponential Power Model. , 2019, , .		2
101	Deep Segmentation Domain Adaptation Network With Weighted Boundary Constraint. IEEE Access, 2019, 7, 93909-93918.	2.6	2
102	Cartoon-Texture Decomposition-Based Variational Pansharpener. , 2020, , .		2
103	Fusionndvi: A Novel Fusion Method for NDVI in Remote Sensing. , 2020, , .		2
104	Bidirectional Spatio-Temporal Association Between the Observed Results of <i>Ulva</i> Prolifera Green Tides in the Yellow Sea and the Social Response in Sina Weibo. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5988-6008.	2.3	2
105	Driving Behavior-Aware Network for 3D Object Tracking in Complex Traffic Scenes. IEEE Access, 2021, 9, 51550-51560.	2.6	2
106	Face Hallucination Based on Degradation Analysis for Robust Manifold. Neurocomputing, 2021, 482, 116-116.	3.5	2
107	Spatially Scalable Video Coding Based on Hybrid Epitomic Resizing. , 2010, , .		1
108	Support-driven sparse coding for face hallucination. , 2013, , .		1

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109	Depth image in-loop filter via graph cut. , 2016, , .		1
110	Sparse unmixing of hyperspectral data based on robust linear mixing model. , 2016, , .		1
111	Long Term Background Reference Based Satellite Video Coding. , 2019, , .		1
112	Single Channel multi-speaker speech Separation based on quantized ratio mask and residual network. Multimedia Tools and Applications, 2020, 79, 32225-32241.	2.6	1
113	Learning latent geometric consistency for 6D object pose estimation in heavily cluttered scenes. Journal of Visual Communication and Image Representation, 2020, 70, 102790.	1.7	1
114	Long-Term Background Redundancy Reduction for Earth Observatory Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 4309-4320.	5.6	1
115	Multi-Source Deep Residual Fusion Network for Depth Image Super-resolution. , 2019, , .		1
116	Cross-View Gait Recognition Based on Feature Fusion. , 2021, , .		1
117	Realistic frontal face reconstruction using coupled complementarity of far-near-sighted face images. Pattern Recognition, 2022, 129, 108754.	5.1	1
118	Face hallucination based on stepwise sparse reconstruction. , 2013, , .		0
119	Structure tensor based inâ€loop filter for depth video coding. Electronics Letters, 2014, 50, 274-276.	0.5	0
120	Cloud Model-Based Dynamic Texture Synthesis for Video Coding. , 2014, , .		0
121	AVS2 speech and audio coding scheme for high quality at low bitrates. , 2014, , .		0
122	Adaptive Learning Based View Synthesis Prediction for Multi-View Video Coding. Journal of Signal Processing Systems, 2014, 74, 115-126.	1.4	0
123	Face Hallucination via Trend-Constrained Regularization. Journal of Signal Processing Systems, 2015, 79, 105-111.	1.4	0
124	Efficient mode decision for noisy video transcoding. , 2017, , .		0
125	Non-rigid feature matching for image retrieval using global and local regularizations. , 2017, , .		0
126	Video Saliency Detection Using Spatiotemporal Cues. IEICE Transactions on Information and Systems, 2018, E101.D, 2201-2208.	0.4	0



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127	Identifying Users by Asynchronous Mobility Trajectories. , 2019, , .		0
128	Robust CBCT Reconstruction Based On Low-Rank Tensor Decomposition And Total Variation Regularization. , 2020, , .		0
129	Image Super-Resolution Using Residual Global Context Network. , 2020, , .		0
130	Low-quality watermarked face inpainting with discriminative residual learning. , 2021, , .		0
131	Deep Structural Feature Learning. , 2019, , .		0
132	Lightweight Progressive Residual Clique Network for Image Super-Resolution. , 2020, , .		0
133	Single-channel Multi-speakers Speech Separation Based on Isolated Speech Segments. Neural Processing Letters, 0, , .	2.0	0