

Zhongyuan Wang

List of Publications by Year in descending order

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Version: 2024-02-01

133
papers

4,446
citations

159358

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times ranked

2997
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Multi-Scale Hybrid Fusion Network for Single Image Deraining. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3594-3608.	7.2	21
3	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
4	Dual-Path Deep Fusion Network for Face Image Hallucination. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 378-391.	7.2	51
5	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
6	VP-Net: An Interpretable Deep Network for Variational Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	15
7	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
8	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
9	Rethinking Lightweight: Multiple Angle Strategy for Efficient Video Action Recognition. IEEE Signal Processing Letters, 2022, 29, 498-502.	2.1	4
10	Few-Shot Semantic Segmentation via Frequency Guided Neural Network. IEEE Signal Processing Letters, 2022, 29, 1092-1096.	2.1	4
11	Spatiotemporal two-stream LSTM network for unsupervised video summarization. Multimedia Tools and Applications, 2022, 81, 40489-40510.	2.6	3
12	Realistic frontal face reconstruction using coupled complementarity of far-near-sighted face images. Pattern Recognition, 2022, 129, 108754.	5.1	1
13	DANet: Image Deraining via Dynamic Association Learning. , 2022, , .		7
14	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
15	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
16	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
17	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
18	Online Optimal Control of Robotic Systems with Single Critic NN-Based Reinforcement Learning. Complexity, 2021, 2021, 1-7.	0.9	4

#	ARTICLE	IF	CITATIONS
19	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
20	Low-quality watermarked face inpainting with discriminative residual learning. , 2021, , .		0
21	Uncovering Abnormal Behavior Patterns from Mobility Trajectories. Sensors, 2021, 21, 3520.	2.1	3
22	Research on Intelligent Algorithm of Identity Authentication Based on Facial Features. Wireless Communications and Mobile Computing, 2021, 2021, 1-11.	0.8	4
23	News Video Summarization Combining SURF and Color Histogram Features. Entropy, 2021, 23, 982.	1.1	6
24	From Semantic to Spatial Awareness: Vehicle Reidentification With Multiple Attention Mechanisms. IEEE MultiMedia, 2021, 28, 32-41.	1.5	4
25	A Tilt-Angle Face Dataset And Its Validation. , 2021, , .		5
26	PCNET: Progressive Coupled Network for Real-Time Image Deraining. , 2021, , .		3
27	Silicone mask face anti-spoofing detection based on visual saliency and facial motion. Neurocomputing, 2021, 458, 416-427.	3.5	12
28	Driving Behavior-Aware Network for 3D Object Tracking in Complex Traffic Scenes. IEEE Access, 2021, 9, 51550-51560.	2.6	2
29	Seeing in the Dark by Component-GAN. IEEE Signal Processing Letters, 2021, 28, 1250-1254.	2.1	10
30	Face Hallucination via Split-Attention in Split-Attention Network. , 2021, , .		37
31	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
32	Face Hallucination Based on Degradation Analysis for Robust Manifold. Neurocomputing, 2021, 482, 116-116.	3.5	2
33	Masked Face Recognition Datasets and Validation. , 2021, , .		17
34	Omniscient Video Super-Resolution. , 2021, , .		40
35	Cross-View Gait Recognition Based on Feature Fusion. , 2021, , .		1
36	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

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37	Ultra-dense GAN for satellite imagery super-resolution. Neurocomputing, 2020, 398, 328-337.	3.5	48
38	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
39	ATMFN: Adaptive-Threshold-Based Multi-Model Fusion Network for Compressed Face Hallucination. IEEE Transactions on Multimedia, 2020, 22, 2734-2747.	5.2	72
40	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
41	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
42	Tell The Truth From The Front: Anti-Disguise Vehicle Re-Identification. , 2020, , .		4
43	Single image de-raining via clique recursive feedback mechanism. Neurocomputing, 2020, 417, 142-154.	3.5	5
44	Cartoon-Texture Decomposition-Based Variational Pansharpening. , 2020, , .		2
45	Robust CBCT Reconstruction Based On Low-Rank Tensor Decomposition And Total Variation Regularization. , 2020, , .		0
46	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
47	Multi-Scale Progressive Fusion Network for Single Image Deraining. , 2020, , .		321
48	BRRNet: A Fully Convolutional Neural Network for Automatic Building Extraction From High-Resolution Remote Sensing Images. Remote Sensing, 2020, 12, 1050.	1.8	146
49	Fusionndvi: A Novel Fusion Method for NDVI in Remote Sensing. , 2020, , .		2
50	Hierarchical dense recursive network for image super-resolution. Pattern Recognition, 2020, 107, 107475.	5.1	144
51	Attention-Guided Deraining Network Via Stage-Wise Learning. , 2020, , .		3
52	Image Super-Resolution Using Residual Global Context Network. , 2020, , .		0
53	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
54	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

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55	Lightweight Progressive Residual Clique Network for Image Super-Resolution. , 2020, , .		0
56	Rain Streak Removal via Multi-scale Mixture Exponential Power Model. , 2019, , .		2
57	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
58	Deep Segmentation Domain Adaptation Network With Weighted Boundary Constraint. IEEE Access, 2019, 7, 93909-93918.	2.6	2
59	Satellite Image Super-Resolution via Multi-Scale Residual Deep Neural Network. Remote Sensing, 2019, 11, 1588.	1.8	75
60	GAN-Based Multi-level Mapping Network for Satellite Imagery Super-Resolution. , 2019, , .		5
61	Multi-speakers Speech Separation Based on Modified Attractor Points Estimation and GMM Clustering. , 2019, , .		3
62	Multi-Source Evidence Data Fusion Approach to Detect Daily Distribution and Coverage of <i>Ulva</i> <i>prolifera</i> in the Yellow Sea, China. IEEE Access, 2019, 7, 115214-115228.	2.6	11
63	Separability and Compactness Network for Image Recognition and Superresolution. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3275-3286.	7.2	63
64	User Identification across Asynchronous Mobility Trajectories. Sensors, 2019, 19, 2102.	2.1	17
65	Blind Quality Assessment for 3D-synthesized Images by Measuring Geometric Distortions and Image Complexity. , 2019, , .		4
66	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
67	Artist-Net: Decorating the Inferred Content With Unified Style for Image Inpainting. IEEE Access, 2019, 7, 36921-36933.	2.6	16
68	Long Term Background Reference Based Satellite Video Coding. , 2019, , .		1
69	A Lossless Recompression Approach for Video Streaming Transmission. IEEE Access, 2019, 7, 35162-35172.	2.6	8
70	Edge-Enhanced GAN for Remote Sensing Image Superresolution. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5799-5812.	2.7	324
71	Identifying Users by Asynchronous Mobility Trajectories. , 2019, , .		0
72	AIM 2019 Challenge on Video Extreme Super-Resolution: Methods and Results. , 2019, , .		7

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73	Progressive Fusion Video Super-Resolution Network via Exploiting Non-Local Spatio-Temporal Correlations. , 2019, , .		144
74	Multi-Memory Convolutional Neural Network for Video Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 2530-2544.	6.0	135
75	Multisource surveillance video data coding with hierarchical knowledge library. Multimedia Tools and Applications, 2019, 78, 14705-14731.	2.6	3
76	Multi-Source Deep Residual Fusion Network for Depth Image Super-resolution. , 2019, , .		1
77	Deep Structural Feature Learning. , 2019, , .		0
78	Smart Monitoring Cameras Driven Intelligent Processing to Big Surveillance Video Data. IEEE Transactions on Big Data, 2018, 4, 105-116.	4.4	95
79	Improving Convolutional Neural Networks Via Compacting Features. , 2018, , .		4
80	Video Saliency Detection Using Spatiotemporal Cues. IEICE Transactions on Information and Systems, 2018, E101.D, 2201-2208.	0.4	0
81	Rectangular-Normalized Superpixel Entropy Index for Image Quality Assessment. Entropy, 2018, 20, 947.	1.1	7
82	Deep Distillation Recursive Network for Remote Sensing Imagery Super-Resolution. Remote Sensing, 2018, 10, 1700.	1.8	88
83	Feature Matching Based on Top K Rank Similarity. , 2018, , .		4
84	A Progressively Enhanced Network for Video Satellite Imagery Superresolution. IEEE Signal Processing Letters, 2018, 25, 1630-1634.	2.1	54
85	Face Hallucination Using Manifold-Regularized Group Locality-Constrained Representation. , 2018, , .		3
86	Super-Resolution for "jilin-1" Satellite Video Imagery via a Convolutional Network. Sensors, 2018, 18, 1194.	2.1	47
87	Virtual Background Reference Frame Based Satellite Video Coding. IEEE Signal Processing Letters, 2018, 25, 1445-1449.	2.1	20
88	SeaShips: A Large-Scale Precisely Annotated Dataset for Ship Detection. IEEE Transactions on Multimedia, 2018, 20, 2593-2604.	5.2	198
89	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
90	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

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91	Efficient mode decision for noisy video transcoding. , 2017, , .		0
92	Single Image Super-Resolution via Locally Regularized Anchored Neighborhood Regression and Nonlocal Means. IEEE Transactions on Multimedia, 2017, 19, 15-26.	5.2	140
93	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
94	Video Satellite Imagery Super Resolution via Convolutional Neural Networks. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2398-2402.	1.4	89
95	Face hallucination using region-based deep convolutional networks. , 2017, , .		8
96	Non-rigid feature matching for image retrieval using global and local regularizations. , 2017, , .		0
97	Knowledge-Based Coding of Objects for Multisource Surveillance Video Data. IEEE Transactions on Multimedia, 2016, 18, 1691-1706.	5.2	38
98	Depth image in-loop filter via graph cut. , 2016, , .		1
99	Sparse unmixing of hyperspectral data based on robust linear mixing model. , 2016, , .		1
100	L1-L1 norms for face super-resolution with mixed Gaussian-impulse noise. , 2016, , .		12
101	Hyperspectral image denoising based on low-rank representation and superpixel segmentation. , 2016, , .		7
102	Filling Kinect depth holes via position-guided matrix completion. Neurocomputing, 2016, 215, 48-52.	3.5	7
103	Proof of Nondeterministic Polynomial-Time Complete Problem for Soil Slope-Stability Evaluation. International Journal of Geomechanics, 2016, 16, .	1.3	9
104	Heteroskedasticity tuned mixed-norm sparse regularization for face hallucination. Multimedia Tools and Applications, 2016, 75, 17273-17301.	2.6	8
105	3D hybrid just noticeable distortion modeling for depth image-based rendering. Multimedia Tools and Applications, 2015, 74, 10457-10478.	2.6	4
106	Face Hallucination via Trend-Constrained Regularization. Journal of Signal Processing Systems, 2015, 79, 105-111.	1.4	0
107	Locally regularized Anchored Neighborhood Regression for fast Super-Resolution. , 2015, , .		4
108	Face Hallucination Via Weighted Adaptive Sparse Regularization. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 802-813.	5.6	86

#	ARTICLE	IF	CITATIONS
109	Structure tensor based in-loop filter for depth video coding. Electronics Letters, 2014, 50, 274-276.	0.5	0
110	Cloud Model-Based Dynamic Texture Synthesis for Video Coding. , 2014, , .		0
111	AVS2 speech and audio coding scheme for high quality at low bitrates. , 2014, , .		0
112	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
113	Adaptive Learning Based View Synthesis Prediction for Multi-View Video Coding. Journal of Signal Processing Systems, 2014, 74, 115-126.	1.4	0
114	Fast Synopsis for Moving Objects Using Compressed Video. IEEE Signal Processing Letters, 2014, 21, 834-838.	2.1	29
115	Face hallucination via re-identified K-nearest neighbors embedding. , 2014, , .		3
116	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
117	Noise Robust Face Hallucination via Locality-Constrained Representation. IEEE Transactions on Multimedia, 2014, 16, 1268-1281.	5.2	252
118	Manifold regularized sparse support regression for single image super-resolution. , 2013, , .		8
119	Support-driven sparse coding for face hallucination. , 2013, , .		1
120	Face hallucination based on stepwise sparse reconstruction. , 2013, , .		0
121	Locality-constraint iterative neighbor embedding for face hallucination. , 2013, , .		30
122	Demo paper: Video retrieval synopsis for moving objects. , 2013, , .		3
123	LBP-Guided Depth Image Filter. , 2013, , .		3
124	Face hallucination via weighted sparse representation. , 2013, , .		3
125	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
126	A face super-resolution approach using shape semantic mode regularization. , 2010, , .		4

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127	Temporal color Just Noticeable Distortion model and its application for video coding. , 2010, , .		13
128	Video coding using dynamic texture synthesis. , 2010, , .		8
129	Intra coding and refresh based on video epitomic analysis. , 2010, , .		7
130	A Novel Frame Error Concealment Algorithm Based on Dynamic Texture Synthesis. , 2010, , .		2
131	Spatially Scalable Video Coding Based on Hybrid Epitomic Resizing. , 2010, , .		1
132	Embedded video surveillance system for vehicle over WLAN and CDMA1X. , 0, , .		2
133	Single-channel Multi-speakers Speech Separation Based on Isolated Speech Segments. Neural Processing Letters, 0, , .	2.0	0