Wang-Meng Zuo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163 papers	12,472 citations	48 h-index	111 g-index
196 ext. papers	17,706 ext. citations	5.9 avg, IF	7.36 L-index

#	Paper	IF	Citations
163	Deepfake Forensics via an Adversarial Game.. *IEEE Transactions on Image Processing*, **2022**, 31, 3541-3552	8.7	2
162	Deep CNNs Meet Global Covariance Pooling: Better Representation and Generalization. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 2582-2597	13.3	21
161	Learning Content-Weighted Deep Image Compression. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 3446-3461	13.3	9
160	Constrained Online Cut-Paste for Object Detection. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 31, 4071-4083	6.4	4
159	Learning Semantic Person Image Generation by Region-Adaptive Normalization **2021**,		4
158	Palmprint Recognition **2021**, 1-7		
157	Towards Learning Multi-domain Crowd Counting. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	4
156	A Polyhedral Annexation Algorithm for Aligning Partially Overlapping Point Sets. *IEEE Access*, **2021**, 9, 166750-166761	3.5	
155	. *IEEE Transactions on Multimedia*, **2021**, 23, 1489-1502	6.6	55
154	Learning to Acquire the Quality of Human Pose Estimation. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 31, 1555-1568	6.4	6
153	Multi-scale structural kernel representation for object detection. *Pattern Recognition*, **2021**, 110, 107593	7.7	6
152	Semi-Supervised Face Frontalization in the Wild. *IEEE Transactions on Information Forensics and Security*, **2021**, 16, 909-922	8	1
151	Simultaneous Fidelity and Regularization Learning for Image Restoration. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2021**, 43, 284-299	13.3	32
150	Scaled Simplex Representation for Subspace Clustering. *IEEE Transactions on Cybernetics*, **2021**, 51, 1493-1505	10.5	10
149	Learning Context-Based Nonlocal Entropy Modeling for Image Compression. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	1
148	Deep Likelihood Network for Image Restoration With Multiple Degradation Levels. *IEEE Transactions on Image Processing*, **2021**, 30, 2669-2681	8.7	
147	Asymmetric CNN for Image Superresolution. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-13	7.3	13

146	. *IEEE Transactions on Multimedia*, **2021**, 1-1	6.6	7
145	Uncertainty Guided Multi-Scale Attention Network for Raindrop Removal From a Single Image. *IEEE Transactions on Image Processing*, **2021**, 30, 4828-4839	8.7	2
144	Designing and training of a dual CNN for image denoising. *Knowledge-Based Systems*, **2021**, 226, 106949	7.3	16
143	IIT-GAT: Instance-level image transformation via unsupervised generative attention networks with disentangled representations. *Knowledge-Based Systems*, **2021**, 225, 107122	7.3	1
142	Efficient and Effective Context-Based Convolutional Entropy Modeling for Image Compression. *IEEE Transactions on Image Processing*, **2020**,	8.7	16
141	Confidence-Based Large-Scale Dense Multi-View Stereo. *IEEE Transactions on Image Processing*, **2020**, 29, 7176-7191	8.7	9
140	. *IEEE Transactions on Multimedia*, **2020**, 22, 3180-3195	6.6	21
139	Unsupervised image-to-image translation using intra-domain reconstruction loss. *International Journal of Machine Learning and Cybernetics*, **2020**, 11, 2077-2088	3.8	2
138	Face attribute editing based on generative adversarial networks. *Signal, Image and Video Processing* , **2020**, 14, 1217-1225	1.6	4
137	. *IEEE Transactions on Multimedia*, **2020**, 22, 2420-2433	6.6	14
136	Single Image Deraining Using Bilateral Recurrent Network. *IEEE Transactions on Image Processing*, **2020**, 29, 6852-6863	8.7	29
135	Deep Plug-and-Play Video Super-Resolution. *Lecture Notes in Computer Science*, **2020**, 114-130	0.9	
134	Blind Face Restoration via Deep Multi-scale Component Dictionaries. *Lecture Notes in Computer Science*, **2020**, 399-415	0.9	15
133	Learning Flow-Based Feature Warping for Face Frontalization with Illumination Inconsistent Supervision. *Lecture Notes in Computer Science*, **2020**, 558-574	0.9	6
132	Image denoising using deep CNN with batch renormalization. *Neural Networks*, **2020**, 121, 461-473	9.1	151
131	Attention-guided CNN for image denoising. *Neural Networks*, **2020**, 124, 117-129	9.1	158
130	Learning cascaded convolutional networks for blind single image super-resolution. *Neurocomputing* , **2020**, 417, 371-383	5.4	4
129	Lightweight image super-resolution with enhanced CNN. *Knowledge-Based Systems*, **2020**, 205, 106235	7.3	45

128	Learning Symmetry Consistent Deep CNNs for Face Completion. *IEEE Transactions on Image Processing*, **2020**, 29, 7641-7655	8.7	8
127	NTIRE 2020 Challenge on Real Image Denoising: Dataset, Methods and Results **2020**,		18
126	Dark and Bright Channel Prior Embedded Network for Dynamic Scene Deblurring. *IEEE Transactions on Image Processing*, **2020**, 29, 6885-6897	8.7	20
125	Deep learning on image denoising: An overview. *Neural Networks*, **2020**, 131, 251-275	9.1	169
124	. *IEEE Transactions on Image Processing*, **2020**, 29, 7045-7060	8.7	4
123	Neural Blind Deconvolution Using Deep Priors **2020**,		39
122	Blind Quality Assessment for Cartoon Images. *IEEE Transactions on Circuits and Systems for Video Technology*, **2020**, 30, 3282-3288	6.4	6
121	Multi-scale generative adversarial inpainting network based on cross-layer attention transfer mechanism. *Knowledge-Based Systems*, **2020**, 196, 105778	7.3	8
120	Multi-Level Wavelet Convolutional Neural Networks. *IEEE Access*, **2019**, 7, 74973-74985	3.5	57
119	Manifold Criterion Guided Transfer Learning via Intermediate Domain Generation. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**,	10.3	54
118	Learned Dynamic Guidance for Depth Image Reconstruction. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**,	13.3	8
117	Image restoration using spatially variant hyper-Laplacian prior. *Signal, Image and Video Processing*, **2019**, 13, 155-162	1.6	9
116	Visual Tracking via Dynamic Graph Learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 2770-2782	13.3	30
115	AttGAN: Facial Attribute Editing by Only Changing What You Want. *IEEE Transactions on Image Processing*, **2019**, 28, 5464-5478	8.7	199
114	Accurate Transmission Estimation for Removing Haze and Noise from a Single Image. *IEEE Transactions on Image Processing*, **2019**,	8.7	20
113	Class-specific Reconstruction Transfer Learning for Visual Recognition Across Domains. *IEEE Transactions on Image Processing*, **2019**,	8.7	41
112	Video-based multiscale identification approach for tower vibration of a cable-stayed bridge model under earthquake ground motions. *Structural Control and Health Monitoring*, **2019**, 26, e2314	4.5	9
111	**2019**,		194

110	Blind Super-Resolution With Iterative Kernel Correction **2019**,		126
109	Toward Convolutional Blind Denoising of Real Photographs **2019**,		242
108	Deep Plug-And-Play Super-Resolution for Arbitrary Blur Kernels **2019**,		116
107	Uncertainty-optimized deep learning model for small-scale person re-identification. *Science China Information Sciences*, **2019**, 62, 1	3.4	20
106	Robust Deep Softmax Regression Against Label Noise for Unsupervised Domain Adaptation. *International Journal of Pattern Recognition and Artificial Intelligence*, **2019**, 33, 1940002	1.1	2
105	Deep Reconstruction of Least Significant Bits for Bit-Depth Expansion. *IEEE Transactions on Image Processing*, **2019**,	8.7	15
104	Weighted Graph Embedding-Based Metric Learning for Kinship Verification. *IEEE Transactions on Image Processing*, **2019**, 28, 1149-1162	8.7	26
103	Face Frontalization Using an Appearance-Flow-Based Convolutional Neural Network. *IEEE Transactions on Image Processing*, **2019**, 28, 2187-2199	8.7	18
102	Hierarchical Scene Parsing by Weakly Supervised Learning with Image Descriptions. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 596-610	13.3	6
101	Surface fatigue crack identification in steel box girder of bridges by a deep fusion convolutional neural network based on consumer-grade camera images. *Structural Health Monitoring*, **2019**, 18, 653-674	4.4	95
100	Learning Support Correlation Filters for Visual Tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 1158-1172	13.3	44
99	Partial Deconvolution With Inaccurate Blur Kernel. *IEEE Transactions on Image Processing*, **2018**, 27, 511-524	8.7	17
98	Discriminative Local Feature Fusion for Ear Recognition Problem **2018**,		6
97	Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 1924-1934	5	40
96	End-to-End Blind Image Quality Assessment Using Deep Neural Networks. *IEEE Transactions on Image Processing*, **2018**, 27, 1202-1213	8.7	214
95	F-SVM: Combination of Feature Transformation and SVM Learning via Convex Relaxation. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 5185-5199	10.3	41
94	Robust Online Matrix Factorization for Dynamic Background Subtraction. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2018**, 40, 1726-1740	13.3	89
93	Image to Video Person Re-Identification by Learning Heterogeneous Dictionary Pair With Feature Projection Matrix. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 717-732	8	44

92	Learning pairwise SVM on hierarchical deep features for ear recognition. *IET Biometrics*, **2018**, 7, 557-566	2.9	22
91	LATE: A Level-Set Method Based on Local Approximation of Taylor Expansion for Segmenting Intensity Inhomogeneous Images. *IEEE Transactions on Image Processing*, **2018**, 27, 5016-5031	8.7	33
90	GCP-SLAM: LSD-SLAM with Learning-Based Confidence Estimation. *Lecture Notes in Computer Science*, **2018**, 262-275	0.9	
89	Joint Representation and Truncated Inference Learning for Correlation Filter Based Tracking. *Lecture Notes in Computer Science*, **2018**, 560-575	0.9	16
88	Learning Warped Guidance for Blind Face Restoration. *Lecture Notes in Computer Science*, **2018**, 278-296	0.9	34
87	Multi-level Wavelet-CNN for Image Restoration **2018**,		227
86	NTIRE 2018 Challenge on Single Image Super-Resolution: Methods and Results **2018**,		99
85	Deep Cocktail Network: Multi-source Unsupervised Domain Adaptation with Category Shift **2018**,		102
84	Guest Editorial Introduction to the Special Issue on Large Scale and Nonlinear Similarity Learning for Intelligent Video Analysis. *IEEE Transactions on Circuits and Systems for Video Technology*, **2018**, 28, 2441-2448	6.4	1
83	Learning Spatial-Temporal Regularized Correlation Filters for Visual Tracking **2018**,		316
82	Learning Convolutional Networks for Content-Weighted Image Compression **2018**,		125
81	Learning a Single Convolutional Super-Resolution Network for Multiple Degradations **2018**,		311
80	Multi-scale Location-Aware Kernel Representation for Object Detection **2018**,		38
79	Shift-Net: Image Inpainting via Deep Feature Rearrangement. *Lecture Notes in Computer Science*, **2018**, 3-19	0.9	109
78	Iterative quality enhancement via residual-artifact learning networks for low-dose CT. *Physics in Medicine and Biology*, **2018**, 63, 215004	3.8	18
77	Learning LogDet Divergence for Ear Recognition **2018**,		4
76	Metric Learning with Dynamically Generated Pairwise Constraints for Ear Recognition. *Information (Switzerland)*, **2018**, 9, 215	2.6	6
75	Convolutional Neural Networks for Image Denoising and Restoration. *Advances in Computer Vision and Pattern Recognition*, **2018**, 93-123	1.1	6

74	FFDNet: Toward a Fast and Flexible Solution for CNN based Image Denoising. *IEEE Transactions on Image Processing*, **2018**,	8.7	731
73	Non-convex regularized self-representation for unsupervised feature selection. *Image and Vision Computing*, **2017**, 60, 22-29	3.7	27
72	Beyond a Gaussian Denoiser: Residual Learning of Deep CNN for Image Denoising. *IEEE Transactions on Image Processing*, **2017**, 26, 3142-3155	8.7	2526
71	Convolutional Neural Networks Based Intra Prediction for HEVC **2017**,		20
70	Palmprint Recognition Based on Complete Direction Representation. *IEEE Transactions on Image Processing*, **2017**, 26, 4483-4498	8.7	87
69	A Coordinate Descent Method for Total Variation Minimization. *Mathematical Problems in Engineering*, **2017**, 2017, 1-13	1.1	3
68	Image Restoration: From Sparse and Low-Rank Priors to Deep Priors [Lecture Notes]. *IEEE Signal Processing Magazine*, **2017**, 34, 172-179	9.4	57
67	NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results **2017**,		322
66	Distance Metric Learning via Iterated Support Vector Machines. *IEEE Transactions on Image Processing*, **2017**, 26, 4937-4950	8.7	16
65	A composite visualization method for electrophysiology-morphous merging of human heart. *BioMedical Engineering OnLine*, **2017**, 16, 70	4.1	2
64	Weighted Nuclear Norm Minimization and Its Applications to Low Level Vision. *International Journal of Computer Vision*, **2017**, 121, 183-208	10.6	353
63	Mind the Class Weight Bias: Weighted Maximum Mean Discrepancy for Unsupervised Domain Adaptation **2017**,		178
62	Learning Deep CNN Denoiser Prior for Image Restoration **2017**,		647
61	From Face Recognition to Kinship Verification: An Adaptation Approach **2017**,		14
60	Class-Specific Reconstruction Transfer Learning via Sparse Low-Rank Constraint **2017**,		6
59	Joint Convolutional Analysis and Synthesis Sparse Representation for Single Image Layer Separation **2017**,		86
58	Learning Dynamic Guidance for Depth Image Enhancement **2017**,		39
57	A Novel 3D CAD Model Retrieval Method Based on Vertices Classification and Weights Combination Optimization. *Mathematical Problems in Engineering*, **2017**, 2017, 1-12	1.1	3

56	Weighted Schatten p -Norm Minimization for Image Denoising and Background Subtraction. *IEEE Transactions on Image Processing*, **2016**, 25, 4842-4857	8.7	185
55	Image Deblurring via Enhanced Low-Rank Prior. *IEEE Transactions on Image Processing*, **2016**, 25, 3426-3437	8.7	106
54	LSDT: Latent Sparse Domain Transfer Learning for Visual Adaptation. *IEEE Transactions on Image Processing*, **2016**, 25, 1177-91	8.7	175
53	Joint Learning of Multiple Regressors for Single Image Super-Resolution. *IEEE Signal Processing Letters*, **2016**, 23, 102-106	3.2	30
52	An Approach to Streaming Video Segmentation With Sub-Optimal Low-Rank Decomposition. *IEEE Transactions on Image Processing*, **2016**, 25, 1947-60	8.7	38
51	Towards effective codebookless model for image classification. *Pattern Recognition*, **2016**, 59, 63-71	7.7	23
50	Learning Iteration-wise Generalized Shrinkage-Thresholding Operators for Blind Deconvolution. *IEEE Transactions on Image Processing*, **2016**, 25, 1751-64	8.7	52
49	A Deep Structured Model with Radius-Margin Bound for 3D Human Activity Recognition. *International Journal of Computer Vision*, **2016**, 118, 256-273	10.6	64
48	An Effective Approach of Teeth Segmentation within the 3D Cone Beam Computed Tomography Image Based on Deformable Surface Model. *Mathematical Problems in Engineering*, **2016**, 2016, 1-10	1.1	2
47	Depth Attenuation Degree Based Visualization for Cardiac Ischemic Electrophysiological Feature Exploration. *BioMed Research International*, **2016**, 2016, 2979081	3	2
46	Deep Structured Scene Parsing by Learning with Image Descriptions **2016**,		17
45	A Probabilistic Collaborative Representation Based Approach for Pattern Classification **2016**,		133
44	Joint Learning of Single-Image and Cross-Image Representations for Person Re-identification **2016**,		198
43	Dictionary Pair Classifier Driven Convolutional Neural Networks for Object Detection **2016**,		24
42	Multiview stereo and silhouette fusion via minimizing generalized reprojection error. *Image and Vision Computing*, **2015**, 33, 1-14	3.7	3
41	Unsupervised feature selection by regularized self-representation. *Pattern Recognition*, **2015**, 48, 438-446	7.7	182
40	SOLD: Sub-optimal low-rank decomposition for efficient video segmentation **2015**,		1
39	Weighted Nuclear Norm Minimization Based Tongue Specular Reflection Removal. *Mathematical Problems in Engineering*, **2015**, 2015, 1-15	1.1	3

38	**2015**,		24
37	Convolutional Sparse Coding for Image Super-Resolution **2015**,		154
36	Patch Group Based Nonlocal Self-Similarity Prior Learning for Image Denoising **2015**,		169
35	Non-convex Regularized Self-representation for Unsupervised Feature Selection. *Lecture Notes in Computer Science*, **2015**, 55-65	0.9	2
34	Gradient histogram estimation and preservation for texture enhanced image denoising. *IEEE Transactions on Image Processing*, **2014**, 23, 2459-72	8.7	75
33	A Compound Pressure Signal Acquisition System for Multichannel Wrist Pulse Signal Analysis. *IEEE Transactions on Instrumentation and Measurement*, **2014**, 63, 1556-1565	5.2	37
32	Image Set-Based Collaborative Representation for Face Recognition. *IEEE Transactions on Information Forensics and Security*, **2014**, 9, 1120-1132	8	100
31	Multi-boundary cardiac data visualization based on multidimensional transfer function with ray distance. *Bio-Medical Materials and Engineering*, **2014**, 24, 3025-32	1	5
30	An additive convolution model for fast restoration of nonuniform blurred images. *International Journal of Computer Mathematics*, **2014**, 91, 2446-2466	1.2	4
29	Fast neighbourhood component analysis with spatially smooth regulariser for robust noisy face recognition. *IET Biometrics*, **2014**, 3, 278-290	2.9	1
28	Weighted Nuclear Norm Minimization with Application to Image Denoising **2014**,		760
27	Design and implementation of a multi-channel pulse signal acquisition system **2012**,		8
26	A generalized accelerated proximal gradient approach for total-variation-based image restoration. *IEEE Transactions on Image Processing*, **2011**, 20, 2748-59	8.7	73
25	A fast and efficient nearest neighbor method for protein secondary structure prediction **2011**,		2
24	Effective transfer function for interactive visualization and multivariate volume data **2011**,		2
23	Real-time interactive heart illustration platform via hardware accelerated rendering **2011**,		2
22	An augmented Lagrangian method for fast gradient vector flow computation **2011**,		4
21	Learning with multiple Gaussian distance kernels for time series classification **2011**,		1

20	Exploratory tongue color analysis with manifold learning **2010**,		1
19	Gaussian ERP Kernel Classifier for Pulse Waveforms Classification **2010**,		5
18	ICP registration using principal line and orientation features for palmprint alignment **2010**,		6
17	Time Series Classification Using Support Vector Machine with Gaussian Elastic Metric Kernel **2010**,		26
16	Orientation selection using modified FCM for competitive code-based palmprint recognition. *Pattern Recognition*, **2009**, 42, 2841-2849	7.7	58
15	Palmprint verification using binary orientation co-occurrence vector. *Pattern Recognition Letters*, **2009**, 30, 1219-1227	4.7	181
14	Palmprint verification using consistent orientation coding **2009**,		1
13	A performance evaluation of filter design and coding schemes for palmprint recognition **2008**,		12
12	Biomedical Image Processing: A Cross-Discipline Course for Undergraduate Computer Science and Technology Major **2008**,		2
11	Multiscale competitive code for efficient palmprint recognition **2008**,		25
10	On kernel difference-weighted k-nearest neighbor classification. *Pattern Analysis and Applications*, **2008**, 11, 247-257	2.3	68
9	Theoretical Investigation on Post-Processed LDA for Face and Palmprint Recognition **2007**,		2
8	A snake-based approach to automated segmentation of tongue image using polar edge detector. *International Journal of Imaging Systems and Technology*, **2006**, 16, 103-112	2.5	19
7	Bidirectional PCA with assembled matrix distance metric for image recognition. *IEEE Transactions on Systems, Man, and Cybernetics*, **2006**, 36, 863-72		75
6	Bi-directional PCA with assembled matrix distance metric **2005**,		1
5	Combination of polar edge detection and active contour model for automated tongue segmentation		2
4	Robust 3D reconstruction from uncalibrated small motion clips. *Visual Computer*,1	2.3	0
3	CSHE: network pruning by using cluster similarity and matrix eigenvalues. *International Journal of Machine Learning and Cybernetics*,1	3.8	4

2	Network pruning via probing the importance of filters. *International Journal of Machine Learning and Cybernetics*,1	3.8	2
1	Delayed rectification of discriminative correlation filters for visual tracking. *Visual Computer*,1	2.3	0