De-Yu Meng

List of Publications by Year
in descending order

148 papers	14,015 citations	87723 38 h-index	29081 104 g-index
149 all docs	149 docs citations	149 times ranked	9467 citing authors

#	Article	IF	Citations
1	A Probabilistic Formulation for Meta-Weight-Net. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1194-1208.	7.2	2
2	A Tensor-Based Online RPCA Model for Compressive Background Subtraction. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10668-10682.	7.2	7
3	Plenty is Plague: Fine-Grained Learning for Visual Question Answering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 697-709.	9.7	7
4	Context-Based Multiscale Unified Network for Missing Data Reconstruction in Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	8
5	Multinetwork Collaborative Feature Learning for Semisupervised Person Reidentification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4826-4839.	7.2	7
6	Sparsity-Enhanced Convolutional Decomposition: A Novel Tensor-Based Paradigm for Blind Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	32
7	Noise-Generating-Mechanism-Driven Unsupervised Learning for Low-Dose CT Sinogram Recovery. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 404-414.	2.7	5
8	Deep Spatial-Spectral Global Reasoning Network for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	49
9	Dirichlet Process Mixture of Generalized Inverted Dirichlet Distributions for Positive Vector Data With Extended Variational Inference. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6089-6102.	7.2	3
10	Infrared Action Detection in the Dark via Cross-Stream Attention Mechanism. IEEE Transactions on Multimedia, 2022, 24, 288-300.	5.2	12
11	MHF-Net: An Interpretable Deep Network for Multispectral and Hyperspectral Image Fusion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1457-1473.	9.7	95
12	PanCSC-Net: A Model-Driven Deep Unfolding Method for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	28
13	Two-Stream Graph Convolutional Network for Intra-Oral Scanner Image Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 826-835.	5.4	13
14	Investigating Bi-Level Optimization for Learning and Vision From a Unified Perspective: A Survey and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 10045-10067.	9.7	37
15	DICDNet: Deep Interpretable Convolutional Dictionary Network for Metal Artifact Reduction in CT Images. IEEE Transactions on Medical Imaging, 2022, 41, 869-880.	5.4	19
16	Dual-Pyramidal Image Inpainting With Dynamic Normalization. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 5975-5988.	5.6	11
17	Survey on rain removal from videos or a single image. Science China Information Sciences, 2022, 65, 1.	2.7	11
18	Robust Online CSI Estimation in a Complex Environment. IEEE Transactions on Wireless Communications, 2022, 21, 8322-8336.	6.1	26

#	Article	IF	Citations
19	A deep variational Bayesian framework for blind image deblurring. Knowledge-Based Systems, 2022, 249, 109008.	4.0	5
20	MLR-SNet: Transferable LR Schedules for Heterogeneous Tasks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-16.	9.7	3
21	Efficient Pyramidal GAN for Versatile Missing Data Reconstruction in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	2.7	4
22	Unsupervised Representation Learning for Tissue Segmentation in Histopathological Images: From Global to Local Contrast. IEEE Transactions on Medical Imaging, 2022, 41, 3611-3623.	5.4	6
23	Structural residual learning for single image rain removal. Knowledge-Based Systems, 2021, 213, 106595.	4.0	19
24	A dynamic CNN pruning method based on matrix similarity. Signal, Image and Video Processing, 2021, 15, 381-389.	1.7	16
25	Pairwise learning for medical image segmentation. Medical Image Analysis, 2021, 67, 101876.	7.0	13
26	Variational Bayes' Method for Functions with Applications to Some Inverse Problems. SIAM Journal of Scientific Computing, 2021, 43, A355-A383.	1.3	8
27	Scaled Simplex Representation for Subspace Clustering. IEEE Transactions on Cybernetics, 2021, 51, 1493-1505.	6.2	43
28	SPLBoost: An Improved Robust Boosting Algorithm Based on Self-Paced Learning. IEEE Transactions on Cybernetics, 2021, 51, 1556-1570.	6.2	17
29	Unsupervised Learning of Local Discriminative Representation for Medical Images. Lecture Notes in Computer Science, 2021, , 373-385.	1.0	4
30	Fast Aerial Image Geolocalization Using the Projective-Invariant Contour Feature. Remote Sensing, 2021, 13, 490.	1.8	4
31	Infrared and Visible Cross-Modal Image Retrieval Through Shared Features. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4485-4496.	5.6	15
32	Immune checkpoint inhibitors-related myocarditis in patients with cancer: an analysis of international spontaneous reporting systems. BMC Cancer, 2021, 21, 38.	1.1	17
33	InDuDoNet: An Interpretable Dual Domain Network for CT Metal Artifact Reduction. Lecture Notes in Computer Science, 2021, , 107-118.	1.0	13
34	Hyperspectral Image Restoration Combining Intrinsic Image Characterization With Robust Noise Modeling. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1628-1644.	2.3	4
35	Uncertainty Guided Multi-Scale Attention Network for Raindrop Removal From a Single Image. IEEE Transactions on Image Processing, 2021, 30, 4828-4839.	6.0	19
36	Multimodal GANs: Toward Crossmodal Hyperspectralâ€"Multispectral Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5103-5113.	2.7	71

#	Article	IF	Citations
37	Online Rain/Snow Removal From Surveillance Videos. IEEE Transactions on Image Processing, 2021, 30, 2029-2044.	6.0	27
38	Neighbor Matching for Semi-supervised Learning. Lecture Notes in Computer Science, 2021, , 439-449.	1.0	7
39	Continuous Multi-Angle Remote Sensing and Its Application in Urban Land Cover Classification. Remote Sensing, 2021, 13, 413.	1.8	6
40	From Rain Generation to Rain Removal. , 2021, , .		47
41	Learning An Explicit Weighting Scheme for Adapting Complex HSI Noise. , 2021, , .		7
42	TSGCNet: Discriminative Geometric Feature Learning with Two-Stream Graph Convolutional Network for 3D Dental Model Segmentation. , 2021, , .		19
43	Multilinear Multitask Learning by Rank-Product Regularization. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1336-1350.	7.2	5
44	Robust Multiview Subspace Learning With Nonindependently and Nonidentically Distributed Complex Noise. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1070-1083.	7.2	14
45	Single image rain streaks removal: a review and an exploration. International Journal of Machine Learning and Cybernetics, 2020, 11, 853-872.	2.3	21
46	Discovering influential factors in variational autoencoders. Pattern Recognition, 2020, 100, 107166.	5.1	7
47	Contrast-Medium Anisotropy-Aware Tensor Total Variation Model for Robust Cerebral Perfusion CT Reconstruction With Low-Dose Scans. IEEE Transactions on Computational Imaging, 2020, 6, 1375-1388.	2.6	7
48	TSASNet: Tooth segmentation on dental panoramic X-ray images by Two-Stage Attention Segmentation Network. Knowledge-Based Systems, 2020, 206, 106338.	4.0	66
49	Enhanced 3DTV Regularization and Its Applications on HSI Denoising and Compressed Sensing. IEEE Transactions on Image Processing, 2020, 29, 7889-7903.	6.0	69
50	Color and direction-invariant nonlocal self-similarity prior and its application to color image denoising. Science China Information Sciences, 2020, 63, 1.	2.7	6
51	A Model-Driven Deep Neural Network for Single Image Rain Removal. , 2020, , .		187
52	Spectral-Fidelity Convolutional Neural Networks for Hyperspectral Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5898-5914.	2.3	32
53	Hyperspectral and Multispectral Image Fusion via Nonlocal Low-Rank Tensor Decomposition and Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7654-7671.	2.7	27
54	Remote Sensing Image Denoising via Low-Rank Tensor Approximation and Robust Noise Modeling. Remote Sensing, 2020, 12, 1278.	1.8	12

#	Article	IF	Citations
55	Full-Spectrum-Knowledge-Aware Tensor Model for Energy-Resolved CT Iterative Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 2831-2843.	5.4	10
56	Hyperspectral Image Classification With Convolutional Neural Network and Active Learning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4604-4616.	2.7	214
57	Cross-Attention in Coupled Unmixing Nets for Unsupervised Hyperspectral Super-Resolution. Lecture Notes in Computer Science, 2020, , 208-224.	1.0	79
58	Single Image Deraining Using Bilateral Recurrent Network. IEEE Transactions on Image Processing, 2020, 29, 6852-6863.	6.0	65
59	Rectifying Supporting Regions With Mixed and Active Supervision for Rib Fracture Recognition. IEEE Transactions on Medical Imaging, 2020, 39, 3843-3854.	5.4	17
60	Momentum Batch Normalization for Deep Learning with Small Batch Size. Lecture Notes in Computer Science, 2020, , 224-240.	1.0	19
61	Dual Adversarial Network: Toward Real-World Noise Removal and Noise Generation. Lecture Notes in Computer Science, 2020, , 41-58.	1.0	90
62	Few-Example Object Detection with Model Communication. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1641-1654.	9.7	104
63	Decomposition-Based Evolutionary Multiobjective Optimization to Self-Paced Learning. IEEE Transactions on Evolutionary Computation, 2019, 23, 288-302.	7.5	32
64	An Efficient Iterative Cerebral Perfusion CT Reconstruction via Low-Rank Tensor Decomposition With Spatial–Temporal Total Variation Regularization. IEEE Transactions on Medical Imaging, 2019, 38, 360-370.	5.4	27
65	Spectral-Spatial Hyperspectral Image Classification via Robust Low-Rank Feature Extraction and Markov Random Field. Remote Sensing, 2019, 11, 1565.	1.8	21
66	A Multiobjective Approach Based on Gaussian Mixture Clustering for Sparse Reconstruction. IEEE Access, 2019, 7, 22684-22697.	2.6	6
67	Discriminative Feature Learning With Foreground Attention for Person Re-Identification. IEEE Transactions on Image Processing, 2019, 28, 4671-4684.	6.0	48
68	Progressive Image Deraining Networks: A Better and Simpler Baseline. , 2019, , .		470
69	Multispectral and Hyperspectral Image Fusion by MS/HS Fusion Net. , 2019, , .		172
70	Semi-Supervised Transfer Learning for Image Rain Removal. , 2019, , .		243
71	Leveraging Prior-Knowledge for Weakly Supervised Object Detection Under a Collaborative Self-Paced Curriculum Learning Framework. International Journal of Computer Vision, 2019, 127, 363-380.	10.9	114
72	Nonconvex-Sparsity and Nonlocal-Smoothness-Based Blind Hyperspectral Unmixing. IEEE Transactions on Image Processing, 2019, 28, 2991-3006.	6.0	117

#	Article	IF	Citations
73	Weakly Supervised Lesion Detection From Fundus Images. IEEE Transactions on Medical Imaging, 2019, 38, 1501-1512.	5.4	29
74	Some New Trends of Deep Learning Research. Chinese Journal of Electronics, 2019, 28, 1087-1091.	0.7	12
75	Contrast-medium anisotropy-aware tensor total variation model for robust cerebral perfusion CT reconstruction with weak radiation: a preliminary study. , 2019, , .		2
76	Infrared small-dim target detection based on Markov random field guided noise modeling. Pattern Recognition, 2018, 76, 463-475.	5.1	143
77	Hyperspectral Image Restoration Via Total Variation Regularized Low-Rank Tensor Decomposition. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1227-1243.	2.3	276
78	Hyperspectral Image Classification With Markov Random Fields and a Convolutional Neural Network. IEEE Transactions on Image Processing, 2018, 27, 2354-2367.	6.0	252
79	A Generalized Model for Robust Tensor Factorization With Noise Modeling by Mixture of Gaussians. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5380-5393.	7.2	44
80	Active Self-Paced Learning for Cost-Effective and Progressive Face Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 7-19.	9.7	110
81	Robust Online Matrix Factorization for Dynamic Background Subtraction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1726-1740.	9.7	117
82	Deep self-paced learning for person re-identification. Pattern Recognition, 2018, 76, 739-751.	5.1	57
83	Robust subspace clustering via penalized mixture of Gaussians. Neurocomputing, 2018, 278, 4-11.	3.5	19
84	Denoising Hyperspectral Image With Non-i.i.d. Noise Structure. IEEE Transactions on Cybernetics, 2018, 48, 1054-1066.	6.2	134
85	Kronecker-Basis-Representation Based Tensor Sparsity and Its Applications to Tensor Recovery. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1888-1902.	9.7	191
86	Photon Counting Computed Tomography Image Restoration via Mixture Gaussian Noise Model: Initial Study. , 2018, , .		0
87	Hyperspectral Image Restoration under Complex Multi-Band Noises. Remote Sensing, 2018, 10, 1631.	1.8	7
88	Video Rain Streak Removal by Multiscale Convolutional Sparse Coding. , 2018, , .		128
89	Iterative quality enhancement via residual-artifact learning networks for low-dose CT. Physics in Medicine and Biology, 2018, 63, 215004.	1.6	31
90	Descriptor Selection via Log-Sum Regularization for the Biological Activities of Chemical Structure. International Journal of Molecular Sciences, 2018, 19, 30.	1.8	15

#	Article	IF	Citations
91	On Convergence Properties of Implicit Self-paced Objective. Information Sciences, 2018, 462, 132-140.	4.0	10
92	PM-GANs: Discriminative Representation Learning for Action Recognition Using Partial-Modalities. Lecture Notes in Computer Science, 2018, , 389-406.	1.0	19
93	Understanding self-paced learning under Concave Conjugacy Theory. Communications in Information and Systems, 2018, 18, 1-35.	0.3	5
94	Co-Saliency Detection via a Self-Paced Multiple-Instance Learning Framework. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 865-878.	9.7	441
95	Instance Annotation via Optimal BoW for Weakly Supervised Object Localization. IEEE Transactions on Cybernetics, 2017, 47, 1313-1324.	6.2	15
96	Beyond a Gaussian Denoiser: Residual Learning of Deep CNN for Image Denoising. IEEE Transactions on Image Processing, 2017, 26, 3142-3155.	6.0	4,738
97	Robust Multi-Exposure Image Fusion: A Structural Patch Decomposition Approach. IEEE Transactions on Image Processing, 2017, 26, 2519-2532.	6.0	250
98	A theoretical understanding of self-paced learning. Information Sciences, 2017, 414, 319-328.	4.0	87
99	Integration of 3-dimensional discrete wavelet transform and Markov random field for hyperspectral image classification. Neurocomputing, 2017, 226, 90-100.	3.5	87
100	A new semi-supervised learning model combined with Cox and SP-AFT models in cancer survival analysis. Scientific Reports, 2017, 7, 13053.	1.6	18
101	A Dual-Network Progressive Approach to Weakly Supervised Object Detection. , 2017, , .		25
102	Distance Metric Learning via Iterated Support Vector Machines. IEEE Transactions on Image Processing, 2017, 26, 4937-4950.	6.0	29
103	Weighted Nuclear Norm Minimization and Its Applications to Low Level Vision. International Journal of Computer Vision, 2017, 121, 183-208.	10.9	566
104	Compressive Sensing of Hyperspectral Images via Joint Tensor Tucker Decomposition and Weighted Total Variation Regularization. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2457-2461.	1.4	59
105	A co-training approach to the classification of local climate zones with multi-source data. , 2017, , .		7
106	Should We Encode Rain Streaks in Video as Deterministic or Stochastic?. , 2017, , .		103
107	Low-Dose Dynamic Cerebral Perfusion Computed Tomography Reconstruction via Kronecker-Basis-Representation Tensor Sparsity Regularization. IEEE Transactions on Medical Imaging, 2017, 36, 2546-2556.	5.4	27
108	Robust Low-Dose CT Sinogram Preprocessing via Exploiting Noise-Generating Mechanism. IEEE Transactions on Medical Imaging, 2017, 36, 2487-2498.	5.4	44

#	Article	IF	Citations
109	Joint Convolutional Analysis and Synthesis Sparse Representation for Single Image Layer Separation. , 2017, , .		141
110	Multispectral Images Denoising by Intrinsic Tensor Sparsity Regularization. , 2016, , .		166
111	Robust Tensor Factorization with Unknown Noise. , 2016, , .		19
112	InfAR dataset: Infrared action recognition at different times. Neurocomputing, 2016, 212, 36-47.	3.5	58
113	Robust Low-Rank Matrix Factorization Under General Mixture Noise Distributions. IEEE Transactions on Image Processing, 2016, 25, 4677-4690.	6.0	145
114	Total Variation Regularized Tensor RPCA for Background Subtraction From Compressive Measurements. IEEE Transactions on Image Processing, 2016, 25, 4075-4090.	6.0	135
115	Multi-view stereo via depth map fusion: A coordinate decent optimization method. Neurocomputing, 2016, 178, 46-61.	3.5	8
116	Text-to-video: a semantic search engine for internet videos. International Journal of Multimedia Information Retrieval, 2016, 5, 3-18.	3.6	1
117	[Invited Paper] Strategies for Searching Video Content with Text Queries or Video Examples. ITE Transactions on Media Technology and Applications, 2016, 4, 227-238.	0.3	3
118	A Self-Paced Multiple-Instance Learning Framework for Co-Saliency Detection. , 2015, , .		89
119	Low-Rank Matrix Factorization under General Mixture Noise Distributions. , 2015, , .		59
120	A Novel Sparsity Measure for Tensor Recovery. , 2015, , .		34
121	Convolutional Sparse Coding for Image Super-Resolution. , 2015, , .		225
122	Densityâ€based region search with arbitrary shape for object localisation. IET Computer Vision, 2015, 9, 943-949.	1.3	1
123	A block coordinate descent approach for sparse principal component analysis. Neurocomputing, 2015, 153, 180-190.	3.5	10
124	<inline-formula> <tex-math notation="LaTeX">L_{1} </tex-math></inline-formula>-Norm Low-Rank Matrix Factorization by Variational Bayesian Method. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 825-839.	7.2	82
125	Robust low-rank tensor factorization by cyclic weighted median. Science China Information Sciences, 2015, 58, 1-11.	2.7	7
126	Spatial and Temporal Image Fusion via Regularized Spatial Unmixing. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1362-1366.	1.4	45

#	Article	IF	Citations
127	FastMMD: Ensemble of Circular Discrepancy for Efficient Two-Sample Test. Neural Computation, 2015, 27, 1345-1372.	1.3	22
128	Bridging the Ultimate Semantic Gap. , 2015, , .		43
129	Fast and Accurate Content-based Semantic Search in 100M Internet Videos. , 2015, , .		39
130	Towards Efficient Learning of Optimal Spatial Bag-of-Words Representations. , 2014, , .		12
131	Easy Samples First. , 2014, , .		173
132	Decomposable Nonlocal Tensor Dictionary Learning for Multispectral Image Denoising. , 2014, , .		237
133	Robust sparse principal component analysis. Science China Information Sciences, 2014, 57, 1-14.	2.7	13
134	Evaluation of a Spatial Relationship by the Concept of Intrinsic Spatial Distance. Geographical Analysis, 2013, 45, 380-400.	1.9	4
135	Following the entire solution path of sparse principal component analysis by coordinate-pairwise algorithm. Data and Knowledge Engineering, 2013, 88, 25-36.	2.1	4
136	Passage method for nonlinear dimensionality reduction of data on multi-cluster manifolds. Pattern Recognition, 2013, 46, 2175-2186.	5.1	6
137	Learning dictionary from signals under global sparsity constraint. Neurocomputing, 2013, 119, 308-318.	3.5	6
138	The strong convergence of visual classification method and its applications. Information Sciences, 2013, 249, 85-95.	4.0	1
139	Infrared Patch-Image Model for Small Target Detection in a Single Image. IEEE Transactions on Image Processing, 2013, 22, 4996-5009.	6.0	658
140	Detecting Intrinsic Loops Underlying Data Manifold. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 337-347.	4.0	9
141	Joint recognition / segmentation with cascaded multi-level feature classification and confidence propagation. , 2013, , .		1
142	Robust Matrix Factorization with Unknown Noise. , 2013, , .		137
143	Improve robustness of sparse PCA by L1-norm maximization. Pattern Recognition, 2012, 45, 487-497.	5.1	115
144	Incremental Alignment Manifold Learning. Journal of Computer Science and Technology, 2011, 26, 153-165.	0.9	12

#	ARTICLE	IF	CITATIONS
145	A new quality assessment criterion for nonlinear dimensionality reduction. Neurocomputing, 2011, 74, 941-948.	3.5	22
146	Fast and Efficient Strategies for Model Selection of Gaussian Support Vector Machine. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1292-1307.	5.5	70
147	Improving geodesic distance estimation based on locally linear assumption. Pattern Recognition Letters, 2008, 29, 862-870.	2.6	13
148	Nonlinear Dimensionality Reduction of Data Lying on the Multicluster Manifold. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 1111-1122.	5.5	19