

# De-Yu Meng

## List of Publications by Year in descending order

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148  
papers

14,015  
citations

87888

38  
h-index

29157

104  
g-index

149  
all docs

149  
docs citations

149  
times ranked

9467  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond a Gaussian Denoiser: Residual Learning of Deep CNN for Image Denoising. IEEE Transactions on Image Processing, 2017, 26, 3142-3155.	9.8	4,738
2	Infrared Patch-Image Model for Small Target Detection in a Single Image. IEEE Transactions on Image Processing, 2013, 22, 4996-5009.	9.8	658
3	Weighted Nuclear Norm Minimization and Its Applications to Low Level Vision. International Journal of Computer Vision, 2017, 121, 183-208.	15.6	566
4	Progressive Image Deraining Networks: A Better and Simpler Baseline. , 2019, , .		470
5	Co-Saliency Detection via a Self-Paced Multiple-Instance Learning Framework. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 865-878.	13.9	441
6	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.	4.9	276
7	Hyperspectral Image Classification With Markov Random Fields and a Convolutional Neural Network. IEEE Transactions on Image Processing, 2018, 27, 2354-2367.	9.8	252
8	Robust Multi-Exposure Image Fusion: A Structural Patch Decomposition Approach. IEEE Transactions on Image Processing, 2017, 26, 2519-2532.	9.8	250
9	Semi-Supervised Transfer Learning for Image Rain Removal. , 2019, , .		243
10	Decomposable Nonlocal Tensor Dictionary Learning for Multispectral Image Denoising. , 2014, , .		237
11	Convolutional Sparse Coding for Image Super-Resolution. , 2015, , .		225
12	Hyperspectral Image Classification With Convolutional Neural Network and Active Learning. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4604-4616.	6.3	214
13	Kronecker-Basis-Representation Based Tensor Sparsity and Its Applications to Tensor Recovery. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1888-1902.	13.9	191
14	A Model-Driven Deep Neural Network for Single Image Rain Removal. , 2020, , .		187
15	Easy Samples First. , 2014, , .		173
16	Multispectral and Hyperspectral Image Fusion by MS/HS Fusion Net. , 2019, , .		172
17	Multispectral Images Denoising by Intrinsic Tensor Sparsity Regularization. , 2016, , .		166
18	Robust Low-Rank Matrix Factorization Under General Mixture Noise Distributions. IEEE Transactions on Image Processing, 2016, 25, 4677-4690.	9.8	145

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19	Infrared small-dim target detection based on Markov random field guided noise modeling. Pattern Recognition, 2018, 76, 463-475.	8.1	143
20	Joint Convolutional Analysis and Synthesis Sparse Representation for Single Image Layer Separation. , 2017, , .		141
21	Robust Matrix Factorization with Unknown Noise. , 2013, , .		137
22	Total Variation Regularized Tensor RPCA for Background Subtraction From Compressive Measurements. IEEE Transactions on Image Processing, 2016, 25, 4075-4090.	9.8	135
23	Denoising Hyperspectral Image With Non-i.i.d. Noise Structure. IEEE Transactions on Cybernetics, 2018, 48, 1054-1066.	9.5	134
24	Video Rain Streak Removal by Multiscale Convolutional Sparse Coding. , 2018, , .		128
25	Robust Online Matrix Factorization for Dynamic Background Subtraction. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 1726-1740.	13.9	117
26	Nonconvex-Sparsity and Nonlocal-Smoothness-Based Blind Hyperspectral Unmixing. IEEE Transactions on Image Processing, 2019, 28, 2991-3006.	9.8	117
27	Improve robustness of sparse PCA by L1-norm maximization. Pattern Recognition, 2012, 45, 487-497.	8.1	115
28	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.	15.6	114
29	Active Self-Paced Learning for Cost-Effective and Progressive Face Identification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 7-19.	13.9	110
30	Few-Example Object Detection with Model Communication. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1641-1654.	13.9	104
31	Should We Encode Rain Streaks in Video as Deterministic or Stochastic?. , 2017, , .		103
32	MHF-Net: An Interpretable Deep Network for Multispectral and Hyperspectral Image Fusion. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1457-1473.	13.9	95
33	Dual Adversarial Network: Toward Real-World Noise Removal and Noise Generation. Lecture Notes in Computer Science, 2020, , 41-58.	1.3	90
34	A Self-Paced Multiple-Instance Learning Framework for Co-Saliency Detection. , 2015, , .		89
35	A theoretical understanding of self-paced learning. Information Sciences, 2017, 414, 319-328.	6.9	87
36	Integration of 3-dimensional discrete wavelet transform and Markov random field for hyperspectral image classification. Neurocomputing, 2017, 226, 90-100.	5.9	87

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37	$\ell_1$ -Norm Low-Rank Matrix Factorization by Variational Bayesian Method. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 825-839.	11.3	82
38	Cross-Attention in Coupled Unmixing Nets for Unsupervised Hyperspectral Super-Resolution. Lecture Notes in Computer Science, 2020, , 208-224.	1.3	79
39	Multimodal GANs: Toward Crossmodal Hyperspectral "Multispectral Image Segmentation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5103-5113.	6.3	71
40	Fast and Efficient Strategies for Model Selection of Gaussian Support Vector Machine. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1292-1307.	5.0	70
41	Enhanced 3DTV Regularization and Its Applications on HSI Denoising and Compressed Sensing. IEEE Transactions on Image Processing, 2020, 29, 7889-7903.	9.8	69
42	TSASNet: Tooth segmentation on dental panoramic X-ray images by Two-Stage Attention Segmentation Network. Knowledge-Based Systems, 2020, 206, 106338.	7.1	66
43	Single Image Deraining Using Bilateral Recurrent Network. IEEE Transactions on Image Processing, 2020, 29, 6852-6863.	9.8	65
44	Low-Rank Matrix Factorization under General Mixture Noise Distributions. , 2015, , .		59
45	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.	3.1	59
46	InfAR dataset: Infrared action recognition at different times. Neurocomputing, 2016, 212, 36-47.	5.9	58
47	Deep self-paced learning for person re-identification. Pattern Recognition, 2018, 76, 739-751.	8.1	57
48	Deep Spatial-Spectral Global Reasoning Network for Hyperspectral Image Denoising. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	49
49	Discriminative Feature Learning With Foreground Attention for Person Re-Identification. IEEE Transactions on Image Processing, 2019, 28, 4671-4684.	9.8	48
50	From Rain Generation to Rain Removal. , 2021, , .		47
51	Spatial and Temporal Image Fusion via Regularized Spatial Unmixing. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1362-1366.	3.1	45
52	Robust Low-Dose CT Sinogram Preprocessing via Exploiting Noise-Generating Mechanism. IEEE Transactions on Medical Imaging, 2017, 36, 2487-2498.	8.9	44
53	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.	11.3	44
54	Bridging the Ultimate Semantic Gap. , 2015, , .		43

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55	Scaled Simplex Representation for Subspace Clustering. IEEE Transactions on Cybernetics, 2021, 51, 1493-1505.	9.5	43
56	Fast and Accurate Content-based Semantic Search in 100M Internet Videos. , 2015, , .		39
57	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.	13.9	37
58	A Novel Sparsity Measure for Tensor Recovery. , 2015, , .		34
59	Decomposition-Based Evolutionary Multiobjective Optimization to Self-Paced Learning. IEEE Transactions on Evolutionary Computation, 2019, 23, 288-302.	10.0	32
60	Spectral-Fidelity Convolutional Neural Networks for Hyperspectral Pansharpening. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 5898-5914.	4.9	32
61	Sparsity-Enhanced Convolutional Decomposition: A Novel Tensor-Based Paradigm for Blind Hyperspectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	32
62	Iterative quality enhancement via residual-artifact learning networks for low-dose CT. Physics in Medicine and Biology, 2018, 63, 215004.	3.0	31
63	Distance Metric Learning via Iterated Support Vector Machines. IEEE Transactions on Image Processing, 2017, 26, 4937-4950.	9.8	29
64	Weakly Supervised Lesion Detection From Fundus Images. IEEE Transactions on Medical Imaging, 2019, 38, 1501-1512.	8.9	29
65	PanCSC-Net: A Model-Driven Deep Unfolding Method for Pansharpening. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	28
66	Low-Dose Dynamic Cerebral Perfusion Computed Tomography Reconstruction via Kronecker-Basis-Representation Tensor Sparsity Regularization. IEEE Transactions on Medical Imaging, 2017, 36, 2546-2556.	8.9	27
67	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.	8.9	27
68	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.	6.3	27
69	Online Rain/Snow Removal From Surveillance Videos. IEEE Transactions on Image Processing, 2021, 30, 2029-2044.	9.8	27
70	Robust Online CSI Estimation in a Complex Environment. IEEE Transactions on Wireless Communications, 2022, 21, 8322-8336.	9.2	26
71	A Dual-Network Progressive Approach to Weakly Supervised Object Detection. , 2017, , .		25
72	A new quality assessment criterion for nonlinear dimensionality reduction. Neurocomputing, 2011, 74, 941-948.	5.9	22

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73	FastMMD: Ensemble of Circular Discrepancy for Efficient Two-Sample Test. <i>Neural Computation</i> , 2015, 27, 1345-1372.	2.2	22
74	Spectral-Spatial Hyperspectral Image Classification via Robust Low-Rank Feature Extraction and Markov Random Field. <i>Remote Sensing</i> , 2019, 11, 1565.	4.0	21
75	Single image rain streaks removal: a review and an exploration. <i>International Journal of Machine Learning and Cybernetics</i> , 2020, 11, 853-872.	3.6	21
76	Nonlinear Dimensionality Reduction of Data Lying on the Multicenter Manifold. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008, 38, 1111-1122.	5.0	19
77	Robust Tensor Factorization with Unknown Noise. , 2016, , .		19
78	Robust subspace clustering via penalized mixture of Gaussians. <i>Neurocomputing</i> , 2018, 278, 4-11.	5.9	19
79	Structural residual learning for single image rain removal. <i>Knowledge-Based Systems</i> , 2021, 213, 106595.	7.1	19
80	Uncertainty Guided Multi-Scale Attention Network for Raindrop Removal From a Single Image. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 4828-4839.	9.8	19
81	PM-GANs: Discriminative Representation Learning for Action Recognition Using Partial-Modalities. <i>Lecture Notes in Computer Science</i> , 2018, , 389-406.	1.3	19
82	Momentum Batch Normalization for Deep Learning with Small Batch Size. <i>Lecture Notes in Computer Science</i> , 2020, , 224-240.	1.3	19
83	TSGCNet: Discriminative Geometric Feature Learning with Two-Stream Graph Convolutional Network for 3D Dental Model Segmentation. , 2021, , .		19
84	DICDNet: Deep Interpretable Convolutional Dictionary Network for Metal Artifact Reduction in CT Images. <i>IEEE Transactions on Medical Imaging</i> , 2022, 41, 869-880.	8.9	19
85	A new semi-supervised learning model combined with Cox and SP-AFT models in cancer survival analysis. <i>Scientific Reports</i> , 2017, 7, 13053.	3.3	18
86	SPLBoost: An Improved Robust Boosting Algorithm Based on Self-Paced Learning. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 1556-1570.	9.5	17
87	Immune checkpoint inhibitors-related myocarditis in patients with cancer: an analysis of international spontaneous reporting systems. <i>BMC Cancer</i> , 2021, 21, 38.	2.6	17
88	Rectifying Supporting Regions With Mixed and Active Supervision for Rib Fracture Recognition. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 3843-3854.	8.9	17
89	A dynamic CNN pruning method based on matrix similarity. <i>Signal, Image and Video Processing</i> , 2021, 15, 381-389.	2.7	16
90	Instance Annotation via Optimal BoW for Weakly Supervised Object Localization. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 1313-1324.	9.5	15

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91	Descriptor Selection via Log-Sum Regularization for the Biological Activities of Chemical Structure. International Journal of Molecular Sciences, 2018, 19, 30.	4.1	15
92	Infrared and Visible Cross-Modal Image Retrieval Through Shared Features. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4485-4496.	8.3	15
93	Robust Multiview Subspace Learning With Nonindependently and Nonidentically Distributed Complex Noise. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1070-1083.	11.3	14
94	Improving geodesic distance estimation based on locally linear assumption. Pattern Recognition Letters, 2008, 29, 862-870.	4.2	13
95	Robust sparse principal component analysis. Science China Information Sciences, 2014, 57, 1-14.	4.3	13
96	Pairwise learning for medical image segmentation. Medical Image Analysis, 2021, 67, 101876.	11.6	13
97	InDuDoNet: An Interpretable Dual Domain Network for CT Metal Artifact Reduction. Lecture Notes in Computer Science, 2021, , 107-118.	1.3	13
98	Two-Stream Graph Convolutional Network for Intra-Oral Scanner Image Segmentation. IEEE Transactions on Medical Imaging, 2022, 41, 826-835.	8.9	13
99	Incremental Alignment Manifold Learning. Journal of Computer Science and Technology, 2011, 26, 153-165.	1.5	12
100	Towards Efficient Learning of Optimal Spatial Bag-of-Words Representations. , 2014, , .		12
101	Remote Sensing Image Denoising via Low-Rank Tensor Approximation and Robust Noise Modeling. Remote Sensing, 2020, 12, 1278.	4.0	12
102	Infrared Action Detection in the Dark via Cross-Stream Attention Mechanism. IEEE Transactions on Multimedia, 2022, 24, 288-300.	7.2	12
103	Some New Trends of Deep Learning Research. Chinese Journal of Electronics, 2019, 28, 1087-1091.	1.5	12
104	Dual-Pyramidal Image Inpainting With Dynamic Normalization. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 5975-5988.	8.3	11
105	Survey on rain removal from videos or a single image. Science China Information Sciences, 2022, 65, 1.	4.3	11
106	A block coordinate descent approach for sparse principal component analysis. Neurocomputing, 2015, 153, 180-190.	5.9	10
107	On Convergence Properties of Implicit Self-paced Objective. Information Sciences, 2018, 462, 132-140.	6.9	10
108	Full-Spectrum-Knowledge-Aware Tensor Model for Energy-Resolved CT Iterative Reconstruction. IEEE Transactions on Medical Imaging, 2020, 39, 2831-2843.	8.9	10

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109	Detecting Intrinsic Loops Underlying Data Manifold. IEEE Transactions on Knowledge and Data Engineering, 2013, 25, 337-347.	5.7	9
110	Multi-view stereo via depth map fusion: A coordinate decent optimization method. Neurocomputing, 2016, 178, 46-61.	5.9	8
111	Context-Based Multiscale Unified Network for Missing Data Reconstruction in Remote Sensing Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	8
112	Variational Bayes' Method for Functions with Applications to Some Inverse Problems. SIAM Journal of Scientific Computing, 2021, 43, A355-A383.	2.8	8
113	Robust low-rank tensor factorization by cyclic weighted median. Science China Information Sciences, 2015, 58, 1-11.	4.3	7
114	A co-training approach to the classification of local climate zones with multi-source data. , 2017, , .		7
115	Hyperspectral Image Restoration under Complex Multi-Band Noises. Remote Sensing, 2018, 10, 1631.	4.0	7
116	Plenty is Plague: Fine-Grained Learning for Visual Question Answering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 697-709.	13.9	7
117	Discovering influential factors in variational autoencoders. Pattern Recognition, 2020, 100, 107166.	8.1	7
118	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.	4.4	7
119	Multinetwork Collaborative Feature Learning for Semisupervised Person Reidentification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4826-4839.	11.3	7
120	Neighbor Matching for Semi-supervised Learning. Lecture Notes in Computer Science, 2021, , 439-449.	1.3	7
121	Learning An Explicit Weighting Scheme for Adapting Complex HSI Noise. , 2021, , .		7
122	A Tensor-Based Online RPCA Model for Compressive Background Subtraction. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10668-10682.	11.3	7
123	Passage method for nonlinear dimensionality reduction of data on multi-cluster manifolds. Pattern Recognition, 2013, 46, 2175-2186.	8.1	6
124	Learning dictionary from signals under global sparsity constraint. Neurocomputing, 2013, 119, 308-318.	5.9	6
125	A Multiobjective Approach Based on Gaussian Mixture Clustering for Sparse Reconstruction. IEEE Access, 2019, 7, 22684-22697.	4.2	6
126	Color and direction-invariant nonlocal self-similarity prior and its application to color image denoising. Science China Information Sciences, 2020, 63, 1.	4.3	6



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127	Continuous Multi-Angle Remote Sensing and Its Application in Urban Land Cover Classification. Remote Sensing, 2021, 13, 413.	4.0	6
128	Unsupervised Representation Learning for Tissue Segmentation in Histopathological Images: From Global to Local Contrast. IEEE Transactions on Medical Imaging, 2022, 41, 3611-3623.	8.9	6
129	Multilinear Multitask Learning by Rank-Product Regularization. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1336-1350.	11.3	5
130	Noise-Generating-Mechanism-Driven Unsupervised Learning for Low-Dose CT Sinogram Recovery. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 404-414.	3.7	5
131	Understanding self-paced learning under Concave Conjugacy Theory. Communications in Information and Systems, 2018, 18, 1-35.	0.5	5
132	A deep variational Bayesian framework for blind image deblurring. Knowledge-Based Systems, 2022, 249, 109008.	7.1	5
133	Evaluation of a Spatial Relationship by the Concept of Intrinsic Spatial Distance. Geographical Analysis, 2013, 45, 380-400.	3.5	4
134	Following the entire solution path of sparse principal component analysis by coordinate-pairwise algorithm. Data and Knowledge Engineering, 2013, 88, 25-36.	3.4	4
135	Unsupervised Learning of Local Discriminative Representation for Medical Images. Lecture Notes in Computer Science, 2021, , 373-385.	1.3	4
136	Fast Aerial Image Geolocalization Using the Projective-Invariant Contour Feature. Remote Sensing, 2021, 13, 490.	4.0	4
137	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.	4.9	4
138	Efficient Pyramidal GAN for Versatile Missing Data Reconstruction in Remote Sensing Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	4
139	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.	11.3	3
140	[Invited Paper] Strategies for Searching Video Content with Text Queries or Video Examples. IEEE Transactions on Media Technology and Applications, 2016, 4, 227-238.	0.5	3
141	MLR-SNet: Transferable LR Schedules for Heterogeneous Tasks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-16.	13.9	3
142	A Probabilistic Formulation for Meta-Weight-Net. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 1194-1208.	11.3	2
143	Contrast-medium anisotropy-aware tensor total variation model for robust cerebral perfusion CT reconstruction with weak radiation: a preliminary study. , 2019, , .		2
144	The strong convergence of visual classification method and its applications. Information Sciences, 2013, 249, 85-95.	6.9	1

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145	Joint recognition / segmentation with cascaded multi-level feature classification and confidence propagation. , 2013, , .		1
146	Density-based region search with arbitrary shape for object localisation. IET Computer Vision, 2015, 9, 943-949.	2.0	1
147	Text-to-video: a semantic search engine for internet videos. International Journal of Multimedia Information Retrieval, 2016, 5, 3-18.	5.2	1
148	Photon Counting Computed Tomography Image Restoration via Mixture Gaussian Noise Model: Initial Study. , 2018, , .		0