

# Mehrtash T Harandi

## List of Publications by Year in descending order

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Version: 2024-02-01

104  
papers

4,077  
citations

394421

19  
h-index

289244

40  
g-index

106  
all docs

106  
docs citations

106  
times ranked

2866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Going deeper into action recognition: A survey. Image and Vision Computing, 2017, 60, 4-21.	4.5	451
2	Unsupervised Domain Adaptation by Domain Invariant Projection. , 2013, , .		286
3	Adaptive Subspaces for Few-Shot Learning. , 2020, , .		234
4	Graph embedding discriminant analysis on Grassmannian manifolds for improved image set matching. , 2011, , .		202
5	Kernel Methods on the Riemannian Manifold of Symmetric Positive Definite Matrices. , 2013, , .		175
6	Kernel Methods on Riemannian Manifolds with Gaussian RBF Kernels. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2464-2477.	13.9	160
7	Dimensionality Reduction on SPD Manifolds: The Emergence of Geometry-Aware Methods. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 48-62.	13.9	133
8	Spatio-temporal covariance descriptors for action and gesture recognition. , 2013, , .		118
9	Deep Unsupervised Saliency Detection: A Multiple Noisy Labeling Perspective. , 2018, , .		99
10	Bilinear Attention Networks for Person Retrieval. , 2019, , .		99
11	Dictionary Learning and Sparse Coding on Grassmann Manifolds: An Extrinsic Solution. , 2013, , .		98
12	Domain Adaptation on the Statistical Manifold. , 2014, , .		98
13	From Manifold to Manifold: Geometry-Aware Dimensionality Reduction for SPD Matrices. Lecture Notes in Computer Science, 2014, , 17-32.	1.3	92
14	Sparse Coding and Dictionary Learning for Symmetric Positive Definite Matrices: A Kernel Approach. Lecture Notes in Computer Science, 2012, , 216-229.	1.3	86
15	Fisher tensors for classifying human epithelial cells. Pattern Recognition, 2014, 47, 2348-2359.	8.1	79
16	Semantic-aware Knowledge Distillation for Few-Shot Class-Incremental Learning. , 2021, , .		78
17	Learning an Invariant Hilbert Space for Domain Adaptation. , 2017, , .		71
18	Extrinsic Methods for Coding and Dictionary Learning on Grassmann Manifolds. International Journal of Computer Vision, 2015, 114, 113-136.	15.6	69

#	ARTICLE	IF	CITATIONS
19	Kernel analysis over Riemannian manifolds for visual recognition of actions, pedestrians and textures. , 2012, , .		68
20	Bregman Divergences for Infinite Dimensional Covariance Matrices. , 2014, , .		65
21	Face Recognition from Still Images to Video Sequences: A Local-Feature-Based Framework. Eurasip Journal on Image and Video Processing, 2011, 2011, 1-14.	2.6	61
22	Improved Image Set Classification via Joint Sparse Approximated Nearest Subspaces. , 2013, , .		58
23	Riemannian coding and dictionary learning: Kernels to the rescue. , 2015, , .		54
24	Sparse Coding on Symmetric Positive Definite Manifolds Using Bregman Divergences. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1294-1306.	11.3	53
25	Generalized Rank Pooling for Activity Recognition. , 2017, , .		52
26	Kernel analysis on Grassmann manifolds for action recognition. Pattern Recognition Letters, 2013, 34, 1906-1915.	4.2	48
27	Expanding the Family of Grassmannian Kernels: An Embedding Perspective. Lecture Notes in Computer Science, 2014, , 408-423.	1.3	48
28	On Learning the Geodesic Path for Incremental Learning. , 2021, , .		40
29	Discriminative Non-Linear Stationary Subspace Analysis for Video Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 2353-2366.	13.9	37
30	Optimal Local Basis: A Reinforcement Learning Approach for Face Recognition. International Journal of Computer Vision, 2009, 81, 191-204.	15.6	36
31	Domain Adaptation by Joint Distribution Invariant Projections. IEEE Transactions on Image Processing, 2020, 29, 8264-8277.	9.8	35
32	Beyond Gauss: Image-Set Matching on the Riemannian Manifold of PDFs. , 2015, , .		33
33	More about VLAD: A leap from Euclidean to Riemannian manifolds. , 2015, , .		32
34	Toward Efficient Action Recognition: Principal Backpropagation for Training Two-Stream Networks. IEEE Transactions on Image Processing, 2019, 28, 1773-1782.	9.8	31
35	Clustering on Grassmann manifolds via kernel embedding with application to action analysis. , 2012, , .		30
36	Synthesized Feature based Few-Shot Class-Incremental Learning on a Mixture of Subspaces. , 2021, , .		27

#	ARTICLE	IF	CITATIONS
37	Museum Exhibit Identification Challenge for the Supervised Domain Adaptation and Beyond. Lecture Notes in Computer Science, 2018, , 815-833.	1.3	26
38	Reinforced Attention for Few-Shot Learning and Beyond. , 2021, , .		25
39	Siamese Networks: The Tale of Two Manifolds. , 2019, , .		24
40	A Robust Distance Measure for Similarity-Based Classification on the SPD Manifold. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 3230-3244.	11.3	24
41	Revisiting Bilinear Pooling: A Coding Perspective. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3954-3961.	4.9	23
42	Devon: Deformable Volume Network for Learning Optical Flow. , 2020, , .		23
43	On Modulating the Gradient for Meta-learning. Lecture Notes in Computer Science, 2020, , 556-572.	1.3	21
44	A Framework for Shape Analysis via Hilbert Space Embedding. , 2013, , .		20
45	Approximate infinite-dimensional Region Covariance Descriptors for image classification. , 2015, , .		20
46	Combining Multiple Manifold-Valued Descriptors for Improved Object Recognition. , 2013, , .		18
47	Optimizing over Radial Kernels on Compact Manifolds. , 2014, , .		18
48	Geometry Aware Constrained Optimization Techniques for Deep Learning. , 2018, , .		17
49	Duo-SegNet: Adversarial Dual-Views for Semi-supervised Medical Image Segmentation. Lecture Notes in Computer Science, 2021, , 428-438.	1.3	17
50	Cross-Correlated Attention Networks for Person Re-Identification. Image and Vision Computing, 2020, 100, 103931.	4.5	15
51	Meta-Learning for Multi-Label Few-Shot Classification. , 2022, , .		15
52	Curvature Generation in Curved Spaces for Few-Shot Learning. , 2021, , .		15
53	On robust biometric identity verification via sparse encoding of faces: Holistic vs local approaches. , 2012, , .		14
54	Sparse Coding and Dictionary Learning with Linear Dynamical Systems. , 2016, , .		14

#	ARTICLE	IF	CITATIONS
55	Image set classification by symmetric positive semi-definite matrices. , 2016, , .		14
56	Attention in Attention Networks for Person Retrieval. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	14
57	Kernel Methods in Hyperbolic Spaces. , 2021, , .		14
58	No fuss metric learning, a Hilbert space scenario. Pattern Recognition Letters, 2017, 98, 83-89.	4.2	13
59	Semi-Supervised Domain Adaptation via Asymmetric Joint Distribution Matching. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5708-5722.	11.3	13
60	Scalable Deep k-Subspace Clustering. Lecture Notes in Computer Science, 2019, , 466-481.	1.3	12
61	Multi-shot person re-identification via relational Stein divergence. , 2013, , .		11
62	Object tracking via non-Euclidean geometry: A Grassmann approach. , 2014, , .		11
63	Combined Learning of Salient Local Descriptors and Distance Metrics for Image Set Face Verification. , 2012, , .		10
64	Material Classification on Symmetric Positive Definite Manifolds. , 2015, , .		10
65	Unsupervised Deep Metric Learning via Orthogonality Based Probabilistic Loss. IEEE Transactions on Artificial Intelligence, 2020, 1, 74-84.	4.7	10
66	Directional Space-Time Oriented Gradients for 3D Visual Pattern Analysis. Lecture Notes in Computer Science, 2012, , 736-749.	1.3	10
67	On robust face recognition via sparse coding: the good, the bad and the ugly. IET Biometrics, 2014, 3, 176-189.	2.5	9
68	A Comprehensive Look at Coding Techniques on Riemannian Manifolds. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5701-5712.	11.3	8
69	Using temporal information for recognizing actions from still images. Pattern Recognition, 2019, 96, 106989.	8.1	8
70	Learning to Optimize on SPD Manifolds. , 2020, , .		8
71	Domain Neural Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8630-8641.	11.3	8
72	Large-Scale Metric Learning: A Voyage From Shallow to Deep. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4339-4346.	11.3	7

#	ARTICLE	IF	CITATIONS
73	Image-set face recognition based on transductive learning. , 2010, , .		6
74	Directed Random Subspace Method for Face Recognition. , 2010, , .		6
75	Novelty detection in human tracking based on spatiotemporal oriented energies. Pattern Recognition, 2015, 48, 812-826.	8.1	6
76	Learning Discriminative $\hat{I}^2$ -Divergences for Positive Definite Matrices. , 2017, , .		6
77	Learning Saliency from Single Noisy Labelling: A Robust Model Fitting Perspective. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 43, 1-1.	13.9	6
78	A Hierarchical Face Identification System Based on Facial Components. , 2007, , .		5
79	K-tangent spaces on Riemannian manifolds for improved pedestrian detection. , 2012, , .		5
80	Relational divergence based classification on Riemannian manifolds. , 2013, , .		5
81	Min-Max Statistical Alignment for Transfer Learning. , 2019, , .		5
82	Characterizing Subtle Facial Movements via Riemannian Manifold. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-24.	4.3	5
83	Unsupervised Metric Learning with Synthetic Examples. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 3834-3841.	4.9	5
84	Learning Domain Invariant Embeddings by Matching Distributions. Advances in Computer Vision and Pattern Recognition, 2017, , 95-114.	1.3	4
85	Constrained Stochastic Gradient Descent: The Good Practice. , 2017, , .		4
86	Learning from Noisy Labels via Discrepant Collaborative Training. , 2020, , .		4
87	Set Augmented Triplet Loss for Video Person Re-Identification. , 2021, , .		4
88	Dictionary Learning on Grassmann Manifolds. Advances in Computer Vision and Pattern Recognition, 2016, , 145-172.	1.3	3
89	An Input Residual Connection for Simplifying Gated Recurrent Neural Networks. , 2020, , .		3
90	Plastic and Stable Gated Classifiers for Continual Learning. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
91	Learning Online for Unified Segmentation and Tracking Models. , 2021, , .		3
92	A hybrid model for face recognition using facial components. , 2007, , .		2
93	Coordinate Coding on the Riemannian Manifold of Symmetric Positive-Definite Matrices for Image Classification. , 2016, , 345-361.		2
94	Devon: Deformable Volume Network for Learning Optical Flow. Lecture Notes in Computer Science, 2019, , 673-677.	1.3	2
95	Bags of Affine Subspaces for Robust Object Tracking. , 2015, , .		1
96	Machine Learning Applications in Computer Vision. , 2012, , 99-132.		1
97	Graph-Embedding Discriminant Analysis on Riemannian Manifolds for Visual Recognition. , 2013, , 157-175.		1
98	Ensemble of furthest subspace pairs for enhanced image set matching. , 2011, , .		0
99	When VLAD Met Hilbert. , 2016, , .		0
100	M2SGD: Learning to Learn Important Weights. , 2020, , .		0
101	Discrepant collaborative training by Sinkhorn divergences. Image and Vision Computing, 2021, 112, 104213.	4.5	0
102	Learning Log-Determinant Divergences for Positive Definite Matrices. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	0
103	Channel Recurrent Attention Networks for Video Pedestrian Retrieval. Lecture Notes in Computer Science, 2021, , 427-443.	1.3	0
104	Machine Learning Applications in Computer Vision. , 0, , 896-926.		0