Andrea Vedaldi

List of Publications by Year
in descending order

73	15,380	567281	610901
papers	citations	15	24
		h-index	g-index

73	73	73	10689
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lifting 2D Object Locations to 3D by Discounting LiDAR Outliers across Objects and Views. , 2022, , .		2
2	Accurate brain age prediction with lightweight deep neural networks. Medical Image Analysis, 2021, 68, 101871.	11.6	233
3	Optimising a Simple Fully Convolutional Network for Accurate Brain Age Prediction in the PAC 2019 Challenge. Frontiers in Psychiatry, 2021, 12, 627996.	2.6	21
4	Goal-Conditioned End-to-End Visuomotor Control for Versatile Skill Primitives. , 2021, , .		3
5	Pedestrian and Ego-vehicle Trajectory Prediction from Monocular Camera. , 2021, , .		9
6	Real Time Monocular Vehicle Velocity Estimation using Synthetic Data. , 2021, , .		1
7	Moving SLAM: Fully Unsupervised Deep Learning in Non-Rigid Scenes. , 2021, , .		3
8	LSD-C: Linearly Separable Deep Clusters. , 2021, , .		6
9	NeuralDiff: Segmenting 3D objects that move in egocentric videos. , 2021, , .		12
10	Capturing the Geometry of Object Categories from Video Supervision. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 261-275.	13.9	4
11	Semi-Supervised Learning with Scarce Annotations. , 2020, , .		17
12	Unsupervised Learning of Probably Symmetric Deformable 3D Objects From Images in the Wild. , 2020, , .		122
13	Self-Supervised Learning of Interpretable Keypoints From Unlabelled Videos. , 2020, , .		42
14	There and Back Again: Revisiting Backpropagation Saliency Methods. , 2020, , .		52
15	Understanding Image Representations by Measuring Their Equivariance and Equivalence. International Journal of Computer Vision, 2019, 127, 456-476.	15.6	39
16	HPatches: A benchmark and evaluation of handcrafted and learned local descriptors. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	13.9	13
17	Small Steps and Giant Leaps: Minimal Newton Solvers for Deep Learning. , 2019, , .		3
18	Unsupervised Learning of Landmarks by Descriptor Vector Exchange. , 2019, , .		35

#	Article	IF	Citations
19	Explanations for Attributing Deep Neural Network Predictions. Lecture Notes in Computer Science, 2019, , 149-167.	1.3	22
20	Unsupervised Intuitive Physics from Visual Observations. Lecture Notes in Computer Science, 2019, , 700-716.	1.3	4
21	Action Recognition with Dynamic Image Networks. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2799-2813.	13.9	140
22	MapNet: An Allocentric Spatial Memory for Mapping Environments. , 2018, , .		68
23	Net2Vec: Quantifying and Explaining How Concepts are Encoded by Filters in Deep Neural Networks. , 2018, , .		104
24	Self-Supervised Learning of Geometrically Stable Features Through Probabilistic Introspection. , 2018, , .		35
25	Semi-convolutional Operators for Instance Segmentation. Lecture Notes in Computer Science, 2018, , 89-105.	1.3	49
26	Supervising the New with the Old: Learning SFM from SFM. Lecture Notes in Computer Science, 2018, , 713-728.	1.3	75
27	MatConvNet. ACM Multimedia, 2018, 10, 9-9.	0.1	8
28	Learning to Read by Spelling. , 2018, , .		8
29	Interpretable Explanations of Black Boxes by Meaningful Perturbation. , 2017, , .		658
30	AnchorNet: A Weakly Supervised Network to Learn Geometry-Sensitive Features for Semantic Matching. , 2017, , .		41
31	Learning 3D Object Categories by Looking Around Them. , 2017, , .		51
32	Dynamic Image Networks for Action Recognition. , 2016, , .		365
33	Synthetic Data for Text Localisation in Natural Images. , 2016, , .		906
34	Salient Deconvolutional Networks. Lecture Notes in Computer Science, 2016, , 120-135.	1.3	51
35	Deep Filter Banks for Texture Recognition, Description, and Segmentation. International Journal of Computer Vision, 2016, 118, 65-94.	15.6	270
36	Reading Text in the Wild with Convolutional Neural Networks. International Journal of Computer Vision, 2016, 116, 1-20.	15.6	831

#	Article	IF	Citations
37	Learning the Structure of Objects from Web Supervision. Lecture Notes in Computer Science, 2016, , 218-235.	1.3	2
38	Understanding image representations by measuring their equivariance and equivalence. , 2015, , .		186
39	Deep filter banks for texture recognition and segmentation. , 2015, , .		400
40	MatConvNet. , 2015, , .		1,654
41	Understanding deep image representations by inverting them. , 2015, , .		945
42	A coarse-to-fine approach for fast deformable object detection. Pattern Recognition, 2015, 48, 1844-1853.	8.1	41
43	Understanding Objects in Detail with Fine-Grained Attributes. , 2014, , .		62
44	Describing Textures in the Wild. , 2014, , .		821
45	Deep Features for Text Spotting. Lecture Notes in Computer Science, 2014, , 512-528.	1.3	339
46	A Compact and Discriminative Face Track Descriptor. , 2014, , .		90
47	Learning Local Feature Descriptors Using Convex Optimisation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1573-1585.	13.9	266
48	Speeding up Convolutional Neural Networks with Low Rank Expansions. , 2014, , .		615
49	Blocks That Shout: Distinctive Parts for Scene Classification. , 2013, , .		286
50	Fisher Vector Faces in the Wild. , 2013, , .		312
51	Cats and dogs. , 2012, , .		518
52	Sparse kernel approximations for efficient classification and detection. , 2012, , .		63
53	On-the-fly specific person retrieval. , 2012, , .		22
54	Efficient Additive Kernels via Explicit Feature Maps. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 480-492.	13.9	542

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55	Descriptor Learning Using Convex Optimisation. Lecture Notes in Computer Science, 2012, , 243-256.	1.3	33
56	Self-similar Sketch. Lecture Notes in Computer Science, 2012, , 87-100.	1.3	13
57	A coarse-to-fine approach for fast deformable object detection. , 2011, , .		96
58	Learning equivariant structured output SVM regressors. , 2011, , .		23
59	The truth about cats and dogs. , 2011, , .		87
60	The devil is in the details: an evaluation of recent feature encoding methods. , 2011, , .		595
61	Efficient additive kernels via explicit feature maps. , 2010, , .		171
62	Vlfeat. , 2010, , .		1,296
63	Knowing a Good Feature When You See It: Ground Truth and Methodology to Evaluate Local Features for Recognition. Studies in Computational Intelligence, 2010, , 27-49.	0.9	9
64	Generalized RBF feature maps for Efficient Detection. , 2010, , .		23
65	Multiple kernels for object detection. , 2009, , .		550
66	Class segmentation and object localization with superpixel neighborhoods. , 2009, , .		435
67	Localizing Objects with Smart Dictionaries. Lecture Notes in Computer Science, 2008, , 179-192.	1.3	92
68	Joint data alignment up to (lossy) transformations. , 2008, , .		24
69	Relaxed matching kernels for robust image comparison. , 2008, , .		12
70	Boosting Invariance and Efficiency in Supervised Learning. , 2007, , .		7
71	Objects in Context. , 2007, , .		432
72	Moving Forward in Structure From Motion. , 2007, , .		12

#	ARTICLE	IF	CITATIONS
73	Viewpoint Induced Deformation Statistics and the Design of Viewpoint Invariant Features: Singularities and Occlusions. Lecture Notes in Computer Science, 2006, , 360-373.	1.3	3