Lior Wolf

List of Publications by Year
in descending order

93 papers	6,997 citations	393982 19 h-index	276539 41 g-index
93 all docs	93 docs citations	93 times ranked	6559 citing authors

#	Article	IF	Citations
1	Robust Object Recognition with Cortex-Like Mechanisms. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 411-426.	9.7	1,408
2	Face recognition in unconstrained videos with matched background similarity. , 2011, , .		913
3	A Biologically Inspired System for Action Recognition. , 2007, , .		530
4	Plasmonic nanostructure design and characterization via Deep Learning. Light: Science and Applications, 2018, 7, 60.	7.7	414
5	Non-homogeneous Content-driven Video-retargeting. , 2007, , .		368
6	Local Trinary Patterns for human action recognition. , 2009, , .		235
7	Chest pathology detection using deep learning with non-medical training. , 2015, , .		220
8	Transformer Interpretability Beyond Attention Visualization. , 2021, , .		218
9	Optimizing Photo Composition. Computer Graphics Forum, 2010, 29, 469-478.	1.8	192
10	Associating neural word embeddings with deep image representations using Fisher Vectors. , 2015, , .		189
11	Improved Stereo Matching with Constant Highway Networks and Reflective Confidence Learning. , 2017, , .		132
12	A Critical View of Context. International Journal of Computer Vision, 2006, 69, 251-261.	10.9	126
13	Using Biologically Inspired Features for Face Processing. International Journal of Computer Vision, 2007, 76, 93-104.	10.9	121
14	Linking Image and Text with 2-Way Nets. , 2017, , .		118
15	Channel-level acceleration of deep face representations. IEEE Access, 2015, 3, 2163-2175.	2.6	110
16	Metabolic Associations of Reduced Proliferation and Oxidative Stress in Advanced Breast Cancer. Cancer Research, 2012, 72, 5712-5720.	0.4	108
17	Semi-automatic stereo extraction from video footage. , 2009, , .		100
18	The One-Shot similarity kernel. , 2009, , .		85

#	Article	IF	Citations
19	Recognition of the Cornelia de Lange syndrome phenotype with facial dysmorphology novel analysis. Clinical Genetics, 2016, 89, 557-563.	1.0	77
20	Prior Knowledge for Part Correspondence. Computer Graphics Forum, 2011, 30, 553-562.	1.8	76
21	A Dynamic Convolutional Layer for short rangeweather prediction. , 2015, , .		70
22	CNN-N-Gram for HandwritingWord Recognition. , 2016, , .		68
23	PatchBatch: A Batch Augmented Loss for Optical Flow. , 2016, , .		61
24	The SVM-Minus Similarity Score for Video Face Recognition. , 2013, , .		55
25	Gene Expression in the Rodent Brain is Associated with Its Regional Connectivity. PLoS Computational Biology, 2011, 7, e1002040.	1.5	54
26	Wide Baseline Matching between Unsynchronized Video Sequences. International Journal of Computer Vision, 2006, 68, 43-52.	10.9	45
27	Title is missing!. International Journal of Computer Vision, 2002, 48, 53-67.	10.9	44
28	A Simple and Fast Word Spotting Method. , 2014, , .		44
29	Live Repetition Counting. , 2015, , .		44
30	Propagating Waves of Directionality and Coordination Orchestrate Collective Cell Migration. PLoS Computational Biology, 2014, 10, e1003747.	1.5	43
31	Cell Motility Dynamics: A Novel Segmentation Algorithm to Quantify Multi-Cellular Bright Field Microscopy Images. PLoS ONE, 2011, 6, e27593.	1.1	38
32	End-To-End Supervised Product Quantization for Image Search and Retrieval. , 2019, , .		38
33	Modeling Appearances with Low-Rank SVM. , 2007, , .		37
34	Identifying Join Candidates in the Cairo Genizah. International Journal of Computer Vision, 2011, 94, 118-135.	10.9	34
35	Velopharyngeal Anatomy in Patients With Obstructive Sleep Apnea Versus Normal Subjects. Journal of Oral and Maxillofacial Surgery, 2014, 72, 1350-1372.	0.5	32
36	Glucose tolerance female-specific QTL mapped in collaborative cross mice. Mammalian Genome, 2017, 28, 20-30.	1.0	31

#	Article	IF	Citations
37	InterpoNet, a Brain Inspired Neural Network for Optical Flow Dense Interpolation. , 2017, , .		31
38	Relative Attributing Propagation: Interpreting the Comparative Contributions of Individual Units in Deep Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 2501-2508.	3.6	30
39	Chest pathology identification using deep feature selection with non-medical training. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 259-263.	1.3	29
40	An eye for an eye: A single camera gaze-replacement method. , 2010, , .		27
41	Unsupervised Creation of Parameterized Avatars. , 2017, , .		25
42	Temporal Tessellation: A Unified Approach for Video Analysis. , 2017, , .		23
43	Deep learning model of fMRI connectivity predicts PTSD symptom trajectories in recent trauma survivors. NeuroImage, 2021, 238, 118242.	2.1	19
44	When standard RANSAC is not enough: cross-media visual matching with hypothesis relevancy. Machine Vision and Applications, 2014, 25, 971-983.	1.7	18
45	The Virtual Director: a Correlation€Based Online Viewing of Human Motion. Computer Graphics Forum, 2010, 29, 595-604.	1.8	17
46	Male preference for sexual signalling over crypsis is associated with alternative mating tactics. Animal Behaviour, 2016, 117, 43-49.	0.8	16
47	Diorama Construction From a Single Image. Computer Graphics Forum, 2007, 26, 599-608.	1.8	15
48	Computerized paleography: Tools for historical manuscripts. , 2011, , .		15
49	Supervised and Unsupervised Learning of Parameterized Color Enhancement. , 2020, , .		14
50	Evaluation Metrics for Conditional Image Generation. International Journal of Computer Vision, 2021, 129, 1712-1731.	10.9	14
51	OCR-Free Transcript Alignment. , 2013, , .		12
52	Confidence Prediction for Lexicon-Free OCR. , 2018, , .		12
53	Domain Intersection and Domain Difference. , 2019, , .		12
54	Machine learning for nanophotonics. MRS Bulletin, 2020, 45, 221-229.	1.7	12

#	ARTICLE	IF	CITATIONS
55	Content aware video manipulation. Computer Vision and Image Understanding, 2011, 115, 1662-1678.	3.0	11
56	Alternative Mating Tactics in Male Chameleons (Chamaeleo chamaeleon) Are Evident in Both Long-Term Body Color and Short-Term Courtship Pattern. PLoS ONE, 2016, 11, e0159032.	1.1	11
57	A theoretical framework for deep transfer learning. Information and Inference, 2016, 5, 159-209.	0.9	11
58	Generating Master Faces for Dictionary Attacks with a Network-Assisted Latent Space Evolution. , 2021, , .		11
59	The Multiverse Loss for Robust Transfer Learning. , 2016, , .		9
60	Structural Analogy from a Single Image Pair. Computer Graphics Forum, 2021, 40, 249-265.	1.8	9
61	Effectively using unsupervised machine learning in next generation astronomical surveys. Astronomy and Computing, 2021, 34, 100437.	0.8	8
62	Inverse design of unparametrized nanostructures by generating images from spectra. Optics Letters, 2021, 46, 2087.	1.7	8
63	Scale-Localized Abstract Reasoning. , 2021, , .		8
64	Optical Flow Requires Multiple Strategies (but Only One Network). , 2017, , .		7
65	The automatic recognition of ceramics from only one photo: The ArchAIDE app. Journal of Archaeological Science: Reports, 2021, 36, 102788.	0.2	7
66	Scene Graph tO Image Generation with Contextualized Object Layout Refinement. , 2021, , .		7
67	Pseudo contrastive labeling for predicting IVF embryo developmental potential. Scientific Reports, 2022, 12, 2488.	1.6	7
68	Automatic extraction of catalog data from digital images of historical manuscripts. Literary and Linguistic Computing, 2013, 28, 315-330.	0.6	6
69	I know that voice: Identifying the voice actor behind the voice. , 2015, , .		6
70	Predicting Affect Classification in Mental Status Examination Using Machine Learning Face Action Recognition System: A Pilot Study in Schizophrenia Patients. Frontiers in Psychiatry, 2019, 10, 288.	1.3	6
71	End to End Lip Synchronization with a Temporal AutoEncoder. , 2020, , .		6
72	Active clustering of document fragments using information derived from both images and catalogs. , 2011, , .		5

#	Article	IF	Citations
73	Characterization of facial phenotypes of children with congenital hypopituitarism and their parents: A matched case–control study. American Journal of Medical Genetics, Part A, 2015, 167, 1525-1533.	0.7	4
74	Improving OCR for an under-resourced script using unsupervised word-spotting. , 2015, , .		4
75	Integrating Copies Obtained from Old and New Preservation Efforts. , 2013, , .		3
76	Viewing the Viewers. Journal of Attention Disorders, 2014, 18, 585-593.	1.5	3
77	Deep learning based reconstruction of directional coupler geometry from electromagnetic near-field distribution. OSA Continuum, 2020, 3, 2222.	1.8	3
78	Artificial Complex Cells via the Tropical Semiring. , 2007, , .		2
79	Automatically identifying join candidates in the Cairo Genizah. , 2009, , .		2
80	Congruency-Based Reranking. , 2014, , .		2
81	Processing Judeo-Arabic Texts. , 2015, , .		2
82	Qumran Letter Restoration by Rotation and Reflection Modified PixelCNN. , 2017, , .		2
83	Detect the Unexpected: Novelty Detection in Large Astrophysical Surveys using Fisher Vectors. , 2019, , .		2
84	Visual recognition using mappings that replicate margins. , 2010, , .		1
85	Automatic Cephalometric Evaluation of Patients Suffering from Sleep-Disordered Breathing. Lecture Notes in Computer Science, 2010, 13, 642-649.	1.0	1
86	Combined neuroimaging and gene expression analysis of the genetic basis of brain plasticity indicates across species homology. Human Brain Mapping, 2014, 35, 5888-5902.	1.9	1
87	A Piggyback Representation for Action Recognition. , 2014, , .		1
88	Relating Articles Textually and Visually. , 2017, , .		1
89	A Method for Segmentation, Matching and Alignment of Dead Sea Scrolls. , 2018, , .		1
90	Softbot: Software-based lead-through for rigid servo robots. , 2016, , .		0

#	Article	IF	Citations
91	Adaptive Gradient Balancing for Undersampled MRI Reconstruction and Image-to-Image Translation. , 2021, , .		0
92	Natural Statistics Of Network Activations And Implications For Knowledge Distillation. , 2021, , .		0
93	Tolerance is tolerance of similarities: behavioral and computational evidence for a view-tolerant identity representation in face-space. Journal of Vision, 2012, 12, 497-497.	0.1	0