Christoph Von Der Malsburg

List of Publications by Year
in descending order

50	2,732	331670 21	214800 47
papers	citations	h-index	g-index

52	52	52	1450
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The What and Why of Binding. Neuron, 1999, 24, 95-104.	8.1	432
2	Binding in models of perception and brain function. Current Opinion in Neurobiology, 1995, 5, 520-526.	4.2	372
3	The Correlation Theory of Brain Function. Physics of Neural Networks, 1994, , 95-119.	0.1	326
4	Sensory segmentation with coupled neural oscillators. Biological Cybernetics, 1992, 67, 233-242.	1.3	211
5	Pattern Segmentation in Associative Memory. Neural Computation, 1990, 2, 94-106.	2.2	207
6	Democratic Integration: Self-Organized Integration of Adaptive Cues. Neural Computation, 2001, 13, 2049-2074.	2.2	153
7	Pattern recognition by labeled graph matching. Neural Networks, 1988, 1, 141-148.	5.9	133
8	A fast dynamic link matching algorithm for invariant pattern recognition. Neural Networks, 1994, 7, 1019-1030.	5.9	90
9	Classification of hand postures against complex backgrounds using elastic graph matching. Image and Vision Computing, 2002, 20, 937-943.	4.5	76
10	Outline of a theory for the ontogenesis of iso-orientation domains in visual cortex. Biological Cybernetics, 1982, 45, 49-56.	1.3	75
11	Learning to Generalize from Single Examples in the Dynamic Link Architecture. Neural Computation, 1993, 5, 719-735.	2.2	57
12	Recognizing Faces by Dynamic Link Matching. NeuroImage, 1996, 4, S14-S18.	4.2	56
13	Predicting the psychophysical similarity of faces and non-face complex shapes by image-based measures. Vision Research, 2012, 55, 41-46.	1.4	48
14	GripSee: A Gesture-Controlled Robot for Object Perception and Manipulation. Autonomous Robots, 1999, 6, 203-221.	4.8	46
15	The role of complex cells in object recognition. Vision Research, 2002, 42, 2547-2554.	1.4	46
16	Rapid Processing and Unsupervised Learning in a Model of the Cortical Macrocolumn. Neural Computation, 2004, 16, 501-533.	2.2	43
17	A NEURAL SYSTEM FOR THE RECOGNITION OF PARTIALLY OCCLUDED OBJECTS IN CLUTTERED SCENES: A PILOT STUDY. International Journal of Pattern Recognition and Artificial Intelligence, 1993, 07, 935-948.	1.2	38
18	Establishment of a Scaffold for Orientation Maps in Primary Visual Cortex of Higher Mammals. Journal of Neuroscience, 2008, 28, 249-257.	3.6	33

#	Article	IF	Citations
19	Improving object recognition by transforming Gabor filter responses. Network: Computation in Neural Systems, 1996, 7, 341-347.	3.6	28
20	A recurrent dynamic model for correspondence-based face recognition. Journal of Vision, 2008, 8, 34.	0.3	23
21	An applet for the Gabor similarity scaling of the differences between complex stimuli. Attention, Perception, and Psychophysics, 2016, 78, 2298-2306.	1.3	19
22	Maplets for correspondence-based object recognition. Neural Networks, 2004, 17, 1311-1326.	5.9	15
23	Rapid Convergence to Feature Layer Correspondences. Neural Computation, 2008, 20, 2441-2463.	2.2	14
24	Self-Organization of Topographic Bilinear Networks for Invariant Recognition. Neural Computation, 2011, 23, 2770-2797.	2.2	13
25	How to measure the pose robustness of object views. Image and Vision Computing, 2002, 20, 249-256.	4.5	12
26	Glial cells for information routing?. Cognitive Systems Research, 2007, 8, 28-35.	2.7	12
27	What Is the Optimal Architecture for Visual Information Routing?. Neural Computation, 2007, 19, 3293-3309.	2.2	11
28	Improving object recognition by transforming Gabor filter responses. Network: Computation in Neural Systems, 1996, 7, 341-347.	3.6	10
29	Towards Imitation Learning of Grasping Movements by an Autonomous Robot. Lecture Notes in Computer Science, 1999, , 73-84.	1.3	9
30	Image Representation by Complex Cell Responses. Neural Computation, 2004, 16, 2563-2575.	2.2	8
31	Experience-driven formation of parts-based representations in a model of layered visual memory. Frontiers in Computational Neuroscience, 2009, 3, 15.	2.1	8
32	Self-Organization of Control Circuits for Invariant Fiber Projections. Neural Computation, 2015, 27, 1005-1032.	2.2	7
33	Acquisition of visual shape primitives. Vision Research, 2002, 42, 2105-2122.	1.4	6
34	Analysis of Cluttered Scenes Using an Elastic Matching Approach for Stereo Images. Neural Computation, 2006, 18, 1441-1471.	2.2	5
35	Dynamic Link Matching between Feature Columns for Different Scale and Orientation. Lecture Notes in Computer Science, 2008, , 385-394.	1.3	5
36	Self-Organization of Steerable Topographic Mappings as Basis for Translation Invariance. Lecture Notes in Computer Science, 2010, , 414-419.	1.3	4

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37	Learning the Topology of Object Views. Lecture Notes in Computer Science, 2002, , 747-760.	1.3	3
38	Associative memory of connectivity patterns. Neurocomputing, 2006, 69, 1305-1308.	5.9	3
39	Figure-Ground Separation by Cue Integration. Neural Computation, 2008, 20, 1452-1472.	2.2	3
40	Pose-Independent Object Representation by 2-D Views. Lecture Notes in Computer Science, 2000, , 276-285.	1.3	3
41	Self-organized Evaluation of Dynamic Hand Gestures for Sign Language Recognition. Understanding Complex Systems, 2009, , 321-342.	0.6	3
42	Toward understanding the neural code of the brain. Biological Cybernetics, 2021, 115, 439-449.	1.3	3
43	A Marker-Based Model for the Ontogenesis of Routing Circuits. Lecture Notes in Computer Science, 2007, , 1-8.	1.3	2
44	How to measure the pose robustness of object views. Image and Vision Computing, 2002, 20, 341-348.	4.5	1
45	Steps toward numerical mode analysis of organizing systems. Journal of Mathematical Biology, 2009, 59, 359-376.	1.9	1
46	A Bilinear Model for Consistent Topographic Representations. Lecture Notes in Computer Science, 2010, , 72-81.	1.3	1
47	A Bayesian Algorithm for Motion and Structure Estimation from Image Sequences. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
48	9 Zum Neuronalen Code des Bewusstseins. , 2017, , 137-152.		0
49	Visual Object Detection by Specifying the Scale and Rotation Transformations. Lecture Notes in Computer Science, 2010, , 616-624.	1.3	0
50	Vorbild GehirnÂâ€“ Randbedingungen fÃ¼r eine kognitive Architektur. , 2020, , 3-30.		0