

Christoph Von Der Malsburg

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,732
citations

331670

21
h-index

214800

47
g-index

52
all docs

52
docs citations

52
times ranked

1450
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward understanding the neural code of the brain. <i>Biological Cybernetics</i> , 2021, 115, 439-449.	1.3	3
2	Vorbild Gehirn“ Randbedingungen für eine kognitive Architektur. , 2020, , 3-30.		0
3	9 Zum Neuronalen Code des Bewusstseins. , 2017, , 137-152.		0
4	An applet for the Gabor similarity scaling of the differences between complex stimuli. <i>Attention, Perception, and Psychophysics</i> , 2016, 78, 2298-2306.	1.3	19
5	Self-Organization of Control Circuits for Invariant Fiber Projections. <i>Neural Computation</i> , 2015, 27, 1005-1032.	2.2	7
6	Predicting the psychophysical similarity of faces and non-face complex shapes by image-based measures. <i>Vision Research</i> , 2012, 55, 41-46.	1.4	48
7	Self-Organization of Topographic Bilinear Networks for Invariant Recognition. <i>Neural Computation</i> , 2011, 23, 2770-2797.	2.2	13
8	Self-Organization of Steerable Topographic Mappings as Basis for Translation Invariance. <i>Lecture Notes in Computer Science</i> , 2010, , 414-419.	1.3	4
9	A Bilinear Model for Consistent Topographic Representations. <i>Lecture Notes in Computer Science</i> , 2010, , 72-81.	1.3	1
10	Visual Object Detection by Specifying the Scale and Rotation Transformations. <i>Lecture Notes in Computer Science</i> , 2010, , 616-624.	1.3	0
11	Experience-driven formation of parts-based representations in a model of layered visual memory. <i>Frontiers in Computational Neuroscience</i> , 2009, 3, 15.	2.1	8
12	Steps toward numerical mode analysis of organizing systems. <i>Journal of Mathematical Biology</i> , 2009, 59, 359-376.	1.9	1
13	Self-organized Evaluation of Dynamic Hand Gestures for Sign Language Recognition. <i>Understanding Complex Systems</i> , 2009, , 321-342.	0.6	3
14	A recurrent dynamic model for correspondence-based face recognition. <i>Journal of Vision</i> , 2008, 8, 34.	0.3	23
15	Establishment of a Scaffold for Orientation Maps in Primary Visual Cortex of Higher Mammals. <i>Journal of Neuroscience</i> , 2008, 28, 249-257.	3.6	33
16	Figure-Ground Separation by Cue Integration. <i>Neural Computation</i> , 2008, 20, 1452-1472.	2.2	3
17	Rapid Convergence to Feature Layer Correspondences. <i>Neural Computation</i> , 2008, 20, 2441-2463.	2.2	14
18	Dynamic Link Matching between Feature Columns for Different Scale and Orientation. <i>Lecture Notes in Computer Science</i> , 2008, , 385-394.	1.3	5

#	ARTICLE	IF	CITATIONS
19	A Bayesian Algorithm for Motion and Structure Estimation from Image Sequences. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
20	What Is the Optimal Architecture for Visual Information Routing?. Neural Computation, 2007, 19, 3293-3309.	2.2	11
21	Glial cells for information routing?. Cognitive Systems Research, 2007, 8, 28-35.	2.7	12
22	A Marker-Based Model for the Ontogenesis of Routing Circuits. Lecture Notes in Computer Science, 2007, , 1-8.	1.3	2
23	Associative memory of connectivity patterns. Neurocomputing, 2006, 69, 1305-1308.	5.9	3
24	Analysis of Cluttered Scenes Using an Elastic Matching Approach for Stereo Images. Neural Computation, 2006, 18, 1441-1471.	2.2	5
25	Rapid Processing and Unsupervised Learning in a Model of the Cortical Macrocolumn. Neural Computation, 2004, 16, 501-533.	2.2	43
26	Image Representation by Complex Cell Responses. Neural Computation, 2004, 16, 2563-2575.	2.2	8
27	Maplets for correspondence-based object recognition. Neural Networks, 2004, 17, 1311-1326.	5.9	15
28	Learning the Topology of Object Views. Lecture Notes in Computer Science, 2002, , 747-760.	1.3	3
29	Acquisition of visual shape primitives. Vision Research, 2002, 42, 2105-2122.	1.4	6
30	The role of complex cells in object recognition. Vision Research, 2002, 42, 2547-2554.	1.4	46
31	How to measure the pose robustness of object views. Image and Vision Computing, 2002, 20, 249-256.	4.5	12
32	Classification of hand postures against complex backgrounds using elastic graph matching. Image and Vision Computing, 2002, 20, 937-943.	4.5	76
33	How to measure the pose robustness of object views. Image and Vision Computing, 2002, 20, 341-348.	4.5	1
34	Democratic Integration: Self-Organized Integration of Adaptive Cues. Neural Computation, 2001, 13, 2049-2074.	2.2	153
35	Pose-Independent Object Representation by 2-D Views. Lecture Notes in Computer Science, 2000, , 276-285.	1.3	3
36	GripSee: A Gesture-Controlled Robot for Object Perception and Manipulation. Autonomous Robots, 1999, 6, 203-221.	4.8	46

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37	The What and Why of Binding. <i>Neuron</i> , 1999, 24, 95-104.	8.1	432
38	Towards Imitation Learning of Grasping Movements by an Autonomous Robot. <i>Lecture Notes in Computer Science</i> , 1999, , 73-84.	1.3	9
39	Recognizing Faces by Dynamic Link Matching. <i>NeuroImage</i> , 1996, 4, S14-S18.	4.2	56
40	Improving object recognition by transforming Gabor filter responses. <i>Network: Computation in Neural Systems</i> , 1996, 7, 341-347.	3.6	10
41	Improving object recognition by transforming Gabor filter responses. <i>Network: Computation in Neural Systems</i> , 1996, 7, 341-347.	3.6	28
42	Binding in models of perception and brain function. <i>Current Opinion in Neurobiology</i> , 1995, 5, 520-526.	4.2	372
43	A fast dynamic link matching algorithm for invariant pattern recognition. <i>Neural Networks</i> , 1994, 7, 1019-1030.	5.9	90
44	The Correlation Theory of Brain Function. <i>Physics of Neural Networks</i> , 1994, , 95-119.	0.1	326
45	A NEURAL SYSTEM FOR THE RECOGNITION OF PARTIALLY OCCLUDED OBJECTS IN CLUTTERED SCENES: A PILOT STUDY. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1993, 07, 935-948.	1.2	38
46	Learning to Generalize from Single Examples in the Dynamic Link Architecture. <i>Neural Computation</i> , 1993, 5, 719-735.	2.2	57
47	Sensory segmentation with coupled neural oscillators. <i>Biological Cybernetics</i> , 1992, 67, 233-242.	1.3	211
48	Pattern Segmentation in Associative Memory. <i>Neural Computation</i> , 1990, 2, 94-106.	2.2	207
49	Pattern recognition by labeled graph matching. <i>Neural Networks</i> , 1988, 1, 141-148.	5.9	133
50	Outline of a theory for the ontogenesis of iso-orientation domains in visual cortex. <i>Biological Cybernetics</i> , 1982, 45, 49-56.	1.3	75