

Thomas Natschl ger

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

4,782
citations

516710

16
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677142

22
g-index

24
all docs

24
docs citations

24
times ranked

3965
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Computing Without Stable States: A New Framework for Neural Computation Based on Perturbations. <i>Neural Computation</i> , 2002, 14, 2531-2560.	2.2	2,887
2	Simulation of networks of spiking neurons: A review of tools and strategies. <i>Journal of Computational Neuroscience</i> , 2007, 23, 349-398.	1.0	639
3	Real-Time Computation at the Edge of Chaos in Recurrent Neural Networks. <i>Neural Computation</i> , 2004, 16, 1413-1436.	2.2	584
4	Spatial and temporal pattern analysis via spiking neurons. <i>Network: Computation in Neural Systems</i> , 1998, 9, 319-332.	3.6	84
5	PCSIM: A Parallel Simulation Environment for Neural Circuits Fully Integrated with Python. <i>Frontiers in Neuroinformatics</i> , 2009, 3, 11.	2.5	74
6	Spatial and temporal pattern analysis via spiking neurons. <i>Network: Computation in Neural Systems</i> , 1998, 9, 319-332.	3.6	72
7	Fading memory and kernel properties of generic cortical microcircuit models. <i>Journal of Physiology (Paris)</i> , 2004, 98, 315-330.	2.1	69
8	Robust unsupervised domain adaptation for neural networks via moment alignment. <i>Information Sciences</i> , 2019, 483, 174-191.	6.9	58
9	Generalized online transfer learning for climate control in residential buildings. <i>Energy and Buildings</i> , 2017, 139, 63-71.	6.7	43
10	Spiking neurons and the induction of finite state machines. <i>Theoretical Computer Science</i> , 2002, 287, 251-265.	0.9	37
11	Computer Models and Analysis Tools for Neural Microcircuits. , 2003, , 123-138.		29
12	Networks of spiking neurons can emulate arbitrary Hopfield nets in temporal coding. <i>Network: Computation in Neural Systems</i> , 1997, 8, 355-371.	3.6	28
13	Sensitivity Analysis and Validation of an EnergyPlus Model of a House in Upper Austria. <i>Energy Procedia</i> , 2014, 62, 472-481.	1.8	28
14	A Model for Fast Analog Computation Based on Unreliable Synapses. <i>Neural Computation</i> , 2000, 12, 1679-1704.	2.2	26
15	Multi-Domain Transfer Component Analysis for Domain Generalization. <i>Neural Processing Letters</i> , 2017, 46, 845-855.	3.2	25
16	Networks of spiking neurons can emulate arbitrary Hopfield nets in temporal coding. <i>Network: Computation in Neural Systems</i> , 1997, 8, 355-371.	3.6	25
17	Multi-source transfer learning of time series in cyclical manufacturing. <i>Journal of Intelligent Manufacturing</i> , 2020, 31, 777-787.	7.3	19
18	Computing the Optimally Fitted Spike Train for a Synapse. <i>Neural Computation</i> , 2001, 13, 2477-2494.	2.2	16

#	ARTICLE	IF	CITATIONS
19	Domain Generalization Based on Transfer Component Analysis. Lecture Notes in Computer Science, 2015, , 325-334.	1.3	11
20	Exact VC-dimension of Boolean monomials. Information Processing Letters, 1996, 59, 19-20.	0.6	10
21	Dynamics of information and emergent computation in generic neural microcircuit models. Neural Networks, 2005, 18, 1301-1308.	5.9	8
22	Associative Memory with Networks of Spiking Neurons in Temporal Coding. Progress in Neural Processing, 1998, , 21-32.	0.3	5
23	Online Clustering with Spiking Neurons Using Temporal Coding. Progress in Neural Processing, 1998, , 33-42.	0.3	3
24	Online transfer learning for climate control in residential buildings. , 2016, , .		2