

Matthew Cook

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12138188/publications.pdf>

Version: 2024-02-01

16
papers

2,003
citations

1040056

9
h-index

1199594

12
g-index

16
all docs

16
docs citations

16
times ranked

1681
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsupervised learning of digit recognition using spike-timing-dependent plasticity. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 99.	2.1	906
2	Fast-classifying, high-accuracy spiking deep networks through weight and threshold balancing. , 2015, , .		555
3	Computation with finite stochastic chemical reaction networks. <i>Natural Computing</i> , 2008, 7, 615-633.	3.0	201
4	Programmability of Chemical Reaction Networks. <i>Natural Computing Series</i> , 2009, , 543-584.	2.2	83
5	Automatic detection of synaptic partners in a whole-brain <i>Drosophila</i> electron microscopy data set. <i>Nature Methods</i> , 2021, 18, 771-774.	19.0	81
6	Self-Assembled Circuit Patterns. <i>Lecture Notes in Computer Science</i> , 2004, , 91-107.	1.3	67
7	Efficient implementation of STDP rules on SpiNNaker neuromorphic hardware. , 2014, , .		23
8	Combining self-healing and proofreading in self-assembly. <i>Natural Computing</i> , 2008, 7, 203-218.	3.0	21
9	Structural Plasticity Denoises Responses and Improves Learning Speed. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 93.	2.1	18
10	Anatomical Constraints on Lateral Competition in Columnar Cortical Architectures. <i>Neural Computation</i> , 2014, 26, 1624-1666.	2.2	16
11	Synaptic Partner Prediction from Point Annotations in Insect Brains. <i>Lecture Notes in Computer Science</i> , 2018, , 309-316.	1.3	13
12	Toward joint approximate inference of visual quantities on cellular processor arrays. , 2015, , .		8
13	Recurrent competitive networks can learn locally excitatory topologies. , 2012, , .		6
14	A cellular automaton for blocking queen games. <i>Natural Computing</i> , 2017, 16, 397-410.	3.0	3
15	Factorized Computation: What the Neocortex Can Tell Us About the Future of Computing. <i>Frontiers in Computational Neuroscience</i> , 2018, 12, 54.	2.1	1
16	A Cellular Automaton for Blocking Queen Games. <i>Lecture Notes in Computer Science</i> , 2015, , 71-84.	1.3	1