

Hananel Hazan

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

524
citations

1478505

6
h-index

1058476

14
g-index

27
all docs

27
docs citations

27
times ranked

546
citing authors

#	ARTICLE	IF	CITATIONS
1	BindsNET: A Machine Learning-Oriented Spiking Neural Networks Library in Python. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 89.	2.5	166
2	Improved robustness of reinforcement learning policies upon conversion to spiking neuronal network platforms applied to Atari Breakout game. <i>Neural Networks</i> , 2019, 120, 108-115.	5.9	51
3	Unsupervised Learning with Self-Organizing Spiking Neural Networks. , 2018, , .		49
4	Decoding the Formation of New Semantics: MVPA Investigation of Rapid Neocortical Plasticity during Associative Encoding through Fast Mapping. <i>Neural Plasticity</i> , 2015, 2015, 1-17.	2.2	46
5	Locally connected spiking neural networks for unsupervised feature learning. <i>Neural Networks</i> , 2019, 119, 332-340.	5.9	46
6	Early diagnosis of Parkinson's disease via machine learning on speech data. , 2012, , .		35
7	Computational Diagnosis of Parkinson's Disease Directly from Natural Speech Using Machine Learning Techniques. , 2014, , .		34
8	Topological constraints and robustness in liquid state machines. <i>Expert Systems With Applications</i> , 2012, 39, 1597-1606.	7.6	25
9	Lattice map spiking neural networks (LM-SNNs) for clustering and classifying image data. <i>Annals of Mathematics and Artificial Intelligence</i> , 2020, 88, 1237-1260.	1.3	13
10	Dynamic clamp constructed phase diagram for the Hodgkin and Huxley model of excitability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3575-3582.	7.1	11
11	Closed Loop Experiment Manager (CLEM) – An Open and Inexpensive Solution for Multichannel Electrophysiological Recordings and Closed Loop Experiments. <i>Frontiers in Neuroscience</i> , 2017, 11, 579.	2.8	7
12	Stability and Topology in Reservoir Computing. <i>Lecture Notes in Computer Science</i> , 2010, , 245-256.	1.3	6
13	Two hemispheres – two networks: a computational model explaining hemispheric asymmetries while reading ambiguous words. <i>Annals of Mathematics and Artificial Intelligence</i> , 2010, 59, 125-147.	1.3	5
14	Learning BOLD Response in fMRI by Reservoir Computing. , 2011, , .		4
15	Training a spiking neuronal network model of visual-motor cortex to play a virtual racket-ball game using reinforcement learning. <i>PLoS ONE</i> , 2022, 17, e0265808.	2.5	4
16	Temporal pattern recognition via temporal networks of temporal neurons. , 2012, , .		3
17	Recognizing deep grammatical information during reading from event related fMRI. , 2014, , .		3
18	Non-parametric temporal modeling of the hemodynamic response function via a liquid state machine. <i>Neural Networks</i> , 2015, 70, 61-73.	5.9	3

#	ARTICLE	IF	CITATIONS
19	The Existence of Two Variant Processes in Human Declarative Memory: Evidence Using Machine Learning Classification Techniques in Retrieval Tasks. Lecture Notes in Computer Science, 2016, , 117-133.	1.3	2
20	Classification from generation: Recognizing deep grammatical information during reading from rapid event-related fMRI. , 2016, , .		2
21	Machine Learning Techniques and the Existence of Variant Processes in Humans Declarative Memory. , 2015, , .		2
22	Differences and Interactions Between Cerebral Hemispheres When Processing Ambiguous Words. Lecture Notes in Computer Science, 2007, , 367-380.	1.3	1
23	Towards Classifying Human Phonemes without Encodings via Spatiotemporal Liquid State Machines: Extended Abstract. , 2014, , .		0
24	THE LIQUID STATE MACHINE IS NOT ROBUST TO PROBLEMS IN ITS COMPONENTS BUT TOPOLOGICAL CONSTRAINTS CAN RESTORE ROBUSTNESS. , 2010, , .		0