

Frédéric Alexandre

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

554
citations

759233

12
h-index

677142

22
g-index

40
all docs

40
docs citations

40
times ranked

722
citing authors

#	ARTICLE	IF	CITATIONS
1	Knowledge extraction from the learning of sequences in a long short term memory (LSTM) architecture. Knowledge-Based Systems, 2022, 235, 107657.	7.1	6
2	Reinforcement Symbolic Learning. Lecture Notes in Computer Science, 2021, , 608-612.	1.3	0
3	A global framework for a systemic view of brain modeling. Brain Informatics, 2021, 8, 3.	3.0	6
4	Why, What and How to Help Each Citizen to Understand Artificial Intelligence?. KI - Kunstliche Intelligenz, 2021, 35, 191-199.	3.2	3
5	Formalizing Problem Solving in Computational Thinking : an Ontology approach. , 2021, , .		3
6	Pattern separation in the hippocampus: distinct circuits under different conditions. Brain Structure and Function, 2018, 223, 2785-2808.	2.3	25
7	Bio-inspired Analysis of Deep Learning on Not-So-Big Data Using Data-Prototypes. Frontiers in Computational Neuroscience, 2018, 12, 100.	2.1	7
8	A biologically inspired neuronal model of reward prediction error computation. , 2017, , .		2
9	Sustainable computational science: the ReScience initiative. PeerJ Computer Science, 2017, 3, e142.	4.5	86
10	Implicit Knowledge Extraction and Structuration from Electrical Diagrams. Lecture Notes in Computer Science, 2017, , 235-241.	1.3	0
11	Modeling the sensory roles of noradrenaline in action selection. , 2016, , .		0
12	A System-Level Model of Noradrenergic Function. Lecture Notes in Computer Science, 2016, , 214-221.	1.3	1
13	Modeling Neuromodulation as a Framework to Integrate Uncertainty in General Cognitive Architectures. Lecture Notes in Computer Science, 2016, , 324-333.	1.3	2
14	Beyond Machine Learning: Autonomous Learning. , 2016, , .		0
15	A pavlovian model of the amygdala and its influence within the medial temporal lobe. Frontiers in Systems Neuroscience, 2015, 9, 41.	2.5	35
16	Integration of exteroceptive and interoceptive information within the hippocampus: a computational study. Frontiers in Systems Neuroscience, 2015, 9, 87.	2.5	16
17	A parsimonious computational model of visual target position encoding in the superior colliculus. Biological Cybernetics, 2015, 109, 549-559.	1.3	15
18	Postsynaptic dysfunction is associated with spatial and object recognition memory loss in a natural model of Alzheimerâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13835-13840.	7.1	113

#	ARTICLE	IF	CITATIONS
19	Visual Target Selection Emerges from a Bio-inspired Network Topology. <i>Studies in Computational Intelligence</i> , 2012, , 317-330.	0.9	0
20	Can self-organisation emerge through dynamic neural fields computation?. <i>Connection Science</i> , 2011, 23, 1-31.	3.0	9
21	No clock to rule them all. <i>Journal of Physiology (Paris)</i> , 2011, 105, 83-90.	2.1	6
22	A Dynamic Neural Field Approach to the Covert and Overt Deployment of Spatial Attention. <i>Cognitive Computation</i> , 2011, 3, 279-293.	5.2	27
23	Incremental data-driven learning of a novelty detection model for one-class classification with application to high-dimensional noisy data. <i>Machine Learning</i> , 2009, 74, 191-234.	5.4	23
24	Cortical basis of communication: Local computation, coordination, attention. <i>Neural Networks</i> , 2009, 22, 126-133.	5.9	3
25	Is there continuity between categorical and coordinate spatial relations coding?. <i>Neuropsychologia</i> , 2008, 46, 576-594.	1.6	38
26	Spatio-temporal biologically inspired models for clean and noisy speech recognition. <i>Neurocomputing</i> , 2007, 71, 131-136.	5.9	4
27	From physiological principles to computational models of the cortex. <i>Journal of Physiology (Paris)</i> , 2007, 101, 32-39.	2.1	7
28	A model of contextual effect on reproduced extents in recall tasks: the issue of the imputed motion hypothesis. <i>Biological Cybernetics</i> , 2005, 92, 303-315.	1.3	4
29	A Distributed Model of Spatial Visual Attention. <i>Lecture Notes in Computer Science</i> , 2005, , 54-72.	1.3	18
30	Knowledge Recovery for Continental-Scale Mineral Exploration by Neural Networks. <i>Natural Resources Research</i> , 2003, 12, 173-181.	4.7	25
31	From a biological to a computational model for the autonomous behavior of an animat. <i>Information Sciences</i> , 2002, 144, 1-43.	6.9	11
32	Unsupervised connectionist algorithms for clustering an environmental data set: A comparison. <i>Neurocomputing</i> , 1999, 28, 177-189.	5.9	2
33	A Library to Implement Neural Networks on MIMD Machines†. <i>Lecture Notes in Computer Science</i> , 1999, , 935-938.	1.3	2
34	How OWE architectures encode contextual effects in artificial neural networks. <i>Mathematics and Computers in Simulation</i> , 1996, 41, 63-74.	4.4	2
35	An on-line learning algorithm for the orthogonal weight estimation of MLP. <i>Neural Processing Letters</i> , 1994, 1, 21-24.	3.2	8
36	The cortical column: A new processing unit for multilayered networks. <i>Neural Networks</i> , 1991, 4, 15-25.	5.9	35