

# 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	Postsynaptic dysfunction is associated with spatial and object recognition memory loss in a natural model of Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13835-13840.	7.1	113
2	Sustainable computational science: the ReScience initiative. PeerJ Computer Science, 2017, 3, e142.	4.5	86
3	Is there continuity between categorical and coordinate spatial relations coding?. Neuropsychologia, 2008, 46, 576-594.	1.6	38
4	The cortical column: A new processing unit for multilayered networks. Neural Networks, 1991, 4, 15-25.	5.9	35
5	A pavlovian model of the amygdala and its influence within the medial temporal lobe. Frontiers in Systems Neuroscience, 2015, 9, 41.	2.5	35
6	A Dynamic Neural Field Approach to the Covert and Overt Deployment of Spatial Attention. Cognitive Computation, 2011, 3, 279-293.	5.2	27
7	Knowledge Recovery for Continental-Scale Mineral Exploration by Neural Networks. Natural Resources Research, 2003, 12, 173-181.	4.7	25
8	Pattern separation in the hippocampus: distinct circuits under different conditions. Brain Structure and Function, 2018, 223, 2785-2808.	2.3	25
9	Incremental data-driven learning of a novelty detection model for one-class classification with application to high-dimensional noisy data. Machine Learning, 2009, 74, 191-234.	5.4	23
10	A Distributed Model of Spatial Visual Attention. Lecture Notes in Computer Science, 2005, , 54-72.	1.3	18
11	Integration of exteroceptive and interoceptive information within the hippocampus: a computational study. Frontiers in Systems Neuroscience, 2015, 9, 87.	2.5	16
12	A parsimonious computational model of visual target position encoding in the superior colliculus. Biological Cybernetics, 2015, 109, 549-559.	1.3	15
13	From a biological to a computational model for the autonomous behavior of an animat. Information Sciences, 2002, 144, 1-43.	6.9	11
14	Can self-organisation emerge through dynamic neural fields computation?. Connection Science, 2011, 23, 1-31.	3.0	9
15	An on-line learning algorithm for the orthogonal weight estimation of MLP. Neural Processing Letters, 1994, 1, 21-24.	3.2	8
16	From physiological principles to computational models of the cortex. Journal of Physiology (Paris), 2007, 101, 32-39.	2.1	7
17	Bio-inspired Analysis of Deep Learning on Not-So-Big Data Using Data-Prototypes. Frontiers in Computational Neuroscience, 2018, 12, 100.	2.1	7
18	No clock to rule them all. Journal of Physiology (Paris), 2011, 105, 83-90.	2.1	6

#	ARTICLE	IF	CITATIONS
19	A global framework for a systemic view of brain modeling. Brain Informatics, 2021, 8, 3.	3.0	6
20	Knowledge extraction from the learning of sequences in a long short term memory (LSTM) architecture. Knowledge-Based Systems, 2022, 235, 107657.	7.1	6
21	A model of contextual effect on reproduced extents in recall tasks: the issue of the imputed motion hypothesis. Biological Cybernetics, 2005, 92, 303-315.	1.3	4
22	Spatio-temporal biologically inspired models for clean and noisy speech recognition. Neurocomputing, 2007, 71, 131-136.	5.9	4
23	Cortical basis of communication: Local computation, coordination, attention. Neural Networks, 2009, 22, 126-133.	5.9	3
24	Why, What and How to Help Each Citizen to Understand Artificial Intelligence?. KI - Kunstliche Intelligenz, 2021, 35, 191-199.	3.2	3
25	Formalizing Problem Solving in Computational Thinking : an Ontology approach. , 2021, , .		3
26	How OWE architectures encode contextual effects in artificial neural networks. Mathematics and Computers in Simulation, 1996, 41, 63-74.	4.4	2
27	Unsupervised connectionist algorithms for clustering an environmental data set: A comparison. Neurocomputing, 1999, 28, 177-189.	5.9	2
28	A biologically inspired neuronal model of reward prediction error computation. , 2017, , .		2
29	Modeling Neuromodulation as a Framework to Integrate Uncertainty in General Cognitive Architectures. Lecture Notes in Computer Science, 2016, , 324-333.	1.3	2
30	A Library to Implement Neural Networks on MIMD Machines†. Lecture Notes in Computer Science, 1999, , 935-938.	1.3	2
31	A System-Level Model of Noradrenergic Function. Lecture Notes in Computer Science, 2016, , 214-221.	1.3	1
32	Modeling the sensory roles of noradrenaline in action selection. , 2016, , .		0
33	Reinforcement Symbolic Learning. Lecture Notes in Computer Science, 2021, , 608-612.	1.3	0
34	Visual Target Selection Emerges from a Bio-inspired Network Topology. Studies in Computational Intelligence, 2012, , 317-330.	0.9	0
35	Beyond Machine Learning: Autonomous Learning. , 2016, , .		0
36	Implicit Knowledge Extraction and Structuration from Electrical Diagrams. Lecture Notes in Computer Science, 2017, , 235-241.	1.3	0