Sylvain Chartier

List of Publications by Year
in descending order

67 papers	1,212 citations	623574 14 h-index	377752 34 g-index
70 all docs	70 docs citations	70 times ranked	1328 citing authors

#	Article	IF	Citations
1	Embodied working memory during ongoing input streams. PLoS ONE, 2021, 16, e0244822.	1.1	1
2	Combining electroencephalography with plethysmography for classification of deviant sexual preferences.. , 2021, , .		0
3	Embodied working memory during ongoing input streams. , 2021, 16, e0244822.		0
4	Embodied working memory during ongoing input streams. , 2021, 16, e0244822.		0
5	Embodied working memory during ongoing input streams. , 2021, 16, e0244822.		0
6	Embodied working memory during ongoing input streams. , 2021, 16, e0244822.		0
7	Revisiting the XOR problem: a neurorobotic implementation. Neural Computing and Applications, 2020, 32, 9965-9973.	3.2	5
8	Should I Stay or Should I Grow? A Dynamic Self-Governed Growth for Determining Hidden Layer Size in a Multilayer Perceptron. , 2020, , .		1
9	Task Allocation for Heterogeneous Robots Using a Self-Organizing Contextual Map. , 2019, , .		1
10	Discrimination of Motion Direction in a Robot Using a Phenomenological Model of Synaptic Plasticity. Computational Intelligence and Neuroscience, 2019, 2019, 1-14.	1.1	1
11	Is There a Purpose to Network Redundancy?. , 2018, , .		1
12	Generating Cognitive Context with Feature-Extracting Bidirectional Associative Memory. Procedia Computer Science, 2018, 145, 428-436.	1.2	2
13	Distinguishing Highly Correlated Patterns using a Context Based Aproach in Bidirectional Associative Memory. , 2018, , .		2
14	Spiking Neurons Integrating Visual Stimuli Orientation and Direction Selectivity in a Robotic Context. Frontiers in Neurorobotics, 2018, 12, 75.	1.6	2
15	Associative Memory: An Spiking Neural Network Robotic Implementation. Lecture Notes in Computer Science, 2018, , 32-41.	1.0	1
16	Spike Neural Models Part II: Abstract Neural Models. The Quantitative Methods for Psychology, 2018, 14, 1-16.	0.6	2
17	A Brain-Inspired Method of Facial Expression Generation Using Chaotic Feature Extracting Bidirectional Associative Memory. Neural Processing Letters, 2017, 46, 943-960.	2.0	6
18	Model Derived Spike Time Dependent Plasticity. Lecture Notes in Computer Science, 2017, , 345-353.	1.0	0

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19	Are recurrent associative memories good models of decision making? Modelling discrimination decisions from different perspectives. , 2017, , .		1
20	Synergy between short-term and long-term plasticity explains direction-selectivity in visual cortex. , 2017, , .		1
21	The Neurodynamics of Categorization. , 2017, , 1053-1076.		0
22	Spike neural models (part I): The Hodgkin-Huxley model. The Quantitative Methods for Psychology, 2017, 13, 105-119.	0.6	6
23	Encoding sparse features in a Bidirectional Associative Memory. , 2016, , .		1
24	Visual choice behavior by bumblebees (Bombus impatiens) confirms unsupervised neural network's predictions.. Journal of Comparative Psychology (Washington, D C: 1983), 2015, 129, 229-236.	0.3	2
25	Unsupervised Neural Network Quantifies the Cost of Visual Information Processing. PLoS ONE, 2015, 10, e0132218.	1.1	2
26	Saliency model of auditory attention based on frequency, amplitude and spatial location. , 2015, , .		1
27	Learning valid categorical syllogisms using an associative memory. , 2015, , .		0
28	Partial Least Squares tutorial for analyzing neuroimaging data. The Quantitative Methods for Psychology, 2014, 10, 200-215.	0.6	24
29	Exploring Information Categories and Artificial Neural Networks Numerical Algorithms in S&P500 Trend Prediction. International Journal of Strategic Decision Sciences, 2014, 5, 76-94.	0.0	16
30	System Factorial Technology Applied to Artificial Neural Network Information Processing. Lecture Notes in Computer Science, 2014, , 258-261.	1.0	0
31	Increasing Accuracy in a Bidirectional Associative Memory through Expended Databases. Lecture Notes in Computer Science, 2014, , 53-62.	1.0	1
32	Using immersive virtual reality and ecological psychology to probe into child molesters' phenomenology. Journal of Sexual Aggression, 2013, 19, 102-120.	0.7	34
33	Controlling deterministic output variability in a feature extracting chaotic BAM. Neurocomputing, 2013, 120, 298-309.	3.5	2
34	Information fusion and S&P500 trend prediction. , 2013, , .		0
35	The k-means clustering technique: General considerations and implementation in Mathematica. Tutorials in Quantitative Methods for Psychology, 2013, 9, 15-24.	2.8	175
36	A Supervised Classification System of Financial Data Based on Wavelet Packet and Neural Networks. International Journal of Strategic Decision Sciences, 2013, 4, 72-84.	0.0	13

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37	Performing complex associations using a generalised bidirectional associative memory. Journal of Experimental and Theoretical Artificial Intelligence, 2012, 24, 23-42.	1.8	3
38	Depth of treatment sensitive noise resistant dynamic artificial neural networks model of recall in people with prosopagnosia. Neural Networks, 2012, 32, 46-56.	3.3	1
39	A Chaotic Feature Extracting BAM and Its Application in Implementing Memory Search. Neural Processing Letters, 2012, 36, 69-99.	2.0	4
40	What Does the Mean Mean?. Journal of Statistics Education, 2011, 19, .	1.4	13
41	Modeling prosopagnosia using dynamic artificial neural networks. , 2011, , .		2
42	Encoding Static and Temporal Patterns with a Bidirectional Heteroassociative Memory. Journal of Applied Mathematics, 2011, 2011, 1-34.	0.4	10
43	Feedback associative memory based on a new hybrid model of generalized regression and self-feedback neural networks. Neural Networks, 2010, 23, 892-904.	3.3	32
44	Reinforcement learning using associative memory networks. , 2010, , .		0
45	One-shot training algorithm for self-feedback neural networks. , 2010, , .		2
46	An Introduction to Independent Component Analysis: InfoMax and FastICA algorithms. Tutorials in Quantitative Methods for Psychology, 2010, 6, 31-38.	2.8	135
47	Outliers detection and treatment: a review.. International Journal of Psychological Research, 2010, 3, 58-67.	0.3	393
48	Sexual affordances, perceptual-motor invariance extraction and intentional nonlinear dynamics: sexually deviant and non-deviant patterns in male subjects. Nonlinear Dynamics, Psychology, and Life Sciences, 2010, 14, 463-89.	0.2	5
49	Bidirectional Associative Memories, Self-Organizing Maps and k-Winners-Take-All: Uniting feature extraction and topological principles. , 2009, , .		6
50	A new bidirectional heteroassociative memory encompassing correlational, competitive and topological properties. Neural Networks, 2009, 22, 568-578.	3.3	20
51	BAM Learning of Nonlinearly Separable Tasks by Using an Asymmetrical Output Function and Reinforcement Learning. IEEE Transactions on Neural Networks, 2009, 20, 1281-1292.	4.8	21
52	A nonlinear dynamic artificial neural network model of memory. New Ideas in Psychology, 2008, 26, 252-277.	1.2	33
53	Auto-associative memory based on a new hybrid model of SFNN and GRNN: Performance comparison with NDRAM, ART2 and MLP. , 2008, , .		3
54	An online noise filter for eye-tracker data recorded in a virtual environment. , 2008, , .		4

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55	General Linear Models: An Integrated Approach to Statistics. Tutorials in Quantitative Methods for Psychology, 2008, 4, 65-78.	2.8	9
56	Presence as Determined by Fractal Perceptual-Motor Dynamics. Cyberpsychology, Behavior and Social Networking, 2007, 10, 122-130.	2.2	14
57	FEBAM: A Feature-Extracting Bidirectional Associative Memory. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	19
58	Power Estimation in Multivariate Analysis of Variance. Tutorials in Quantitative Methods for Psychology, 2007, 3, 70-78.	2.8	6
59	Are unsupervised neural networks ignorant? Sizing the effect of environmental distributions on unsupervised learning. Cognitive Systems Research, 2006, 7, 357-371.	1.9	7
60	Mesures et rétroactions psychophysiologiques en immersion virtuelle. , 2006, , .		5
61	A Bidirectional Heteroassociative Memory for Binary and Grey-Level Patterns. IEEE Transactions on Neural Networks, 2006, 17, 385-396.	4.8	69
62	A Sequential Dynamic Heteroassociative Memory for Multistep Pattern Recognition and One-to-Many Association. IEEE Transactions on Neural Networks, 2006, 17, 59-68.	4.8	24
63	Scene Perception, Gaze Behavior, and Perceptual Learning in Virtual Environments. Cyberpsychology, Behavior and Social Networking, 2005, 8, 592-600.	2.2	13
64	NDRAM: Nonlinear Dynamic Recurrent Associative Memory for Learning Bipolar and Nonbipolar Correlated Patterns. IEEE Transactions on Neural Networks, 2005, 16, 1393-1400.	4.8	50
65	Embodied and Embedded: The Dynamics of Extracting Perceptual Visual Invariants. , 0, , 177-205.		1
66	Computing Mixed-Design (Split-Plot) ANOVA. The Mathematica Journal, 0, 13, .	0.2	2
67	The Use of Virtual Reality in Clinical Psychology Research. , 0, , 231-251.		1