

Sylvain Saighi

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

1,363
citations

840119

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docs citations

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times ranked

1693
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuromorphic Silicon Neuron Circuits. <i>Frontiers in Neuroscience</i> , 2011, 5, 73.	1.4	1,004
2	Real-time biomimetic Central Pattern Generators in an FPGA for hybrid experiments. <i>Frontiers in Neuroscience</i> , 2013, 7, 215.	1.4	59
3	A Library of Analog Operators Based on the Hodgkin-Huxley Formalism for the Design of Tunable, Real-Time, Silicon Neurons. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2011, 5, 3-19.	2.7	45
4	Automated Parameter Estimation of the Hodgkin-Huxley Model Using the Differential Evolution Algorithm: Application to Neuromimetic Analog Integrated Circuits. <i>Neural Computation</i> , 2011, 23, 2599-2625.	1.3	40
5	Real-Time Simulation of Biologically Realistic Stochastic Neurons in VLSI. <i>IEEE Transactions on Neural Networks</i> , 2010, 21, 1511-1517.	4.8	38
6	Generation of Locomotor-Like Activity in the Isolated Rat Spinal Cord Using Intraspinal Electrical Microstimulation Driven by a Digital Neuromorphic CPG. <i>Frontiers in Neuroscience</i> , 2016, 10, 67.	1.4	36
7	Optimized Real-Time Biomimetic Neural Network on FPGA for Bio-hybridization. <i>Frontiers in Neuroscience</i> , 2019, 13, 377.	1.4	33
8	Global parameter estimation of an Hodgkin-Huxley formalism using membrane voltage recordings: Application to neuro-mimetic analog integrated circuits. <i>Neurocomputing</i> , 2012, 81, 75-85.	3.5	27
9	Tunable neuromimetic integrated system for emulating cortical neuron models. <i>Frontiers in Neuroscience</i> , 2011, 5, 134.	1.4	26
10	Digital implementation of Hodgkin-Huxley neuron model for neurological diseases studies. <i>Artificial Life and Robotics</i> , 2018, 23, 10-14.	0.7	24
11	Analog-digital simulations of full conductance-based networks of spiking neurons with spike timing dependent plasticity. <i>Network: Computation in Neural Systems</i> , 2006, 17, 211-233.	2.2	14
12	Adjusting the neurons models in neuromimetic ICs using the voltage-clamp technique. , 2008, , .		8
13	Real-time multi-board architecture for analog spiking neural networks. , 2010, , .		3
14	Convergence in an Adaptive Neural Network: The Influence of Noise Inputs Correlation. <i>Lecture Notes in Computer Science</i> , 2009, , 140-148.	1.0	1