

Sylvain Saighi

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

1,363
citations

840119

11
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1125271

13
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docs citations

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times ranked

1693
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Optimized Real-Time Biomimetic Neural Network on FPGA for Bio-hybridization. <i>Frontiers in Neuroscience</i> , 2019, 13, 377. | 1.4 | 33 |
| 2 | Digital implementation of Hodgkin-Huxley neuron model for neurological diseases studies. <i>Artificial Life and Robotics</i> , 2018, 23, 10-14. | 0.7 | 24 |
| 3 | 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 |
| 4 | Real-time biomimetic Central Pattern Generators in an FPGA for hybrid experiments. <i>Frontiers in Neuroscience</i> , 2013, 7, 215. | 1.4 | 59 |
| 5 | 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 |
| 6 | Neuromorphic Silicon Neuron Circuits. <i>Frontiers in Neuroscience</i> , 2011, 5, 73. | 1.4 | 1,004 |
| 7 | 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 |
| 8 | Tunable neuromimetic integrated system for emulating cortical neuron models. <i>Frontiers in Neuroscience</i> , 2011, 5, 134. | 1.4 | 26 |
| 9 | 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 |
| 10 | Real-Time Simulation of Biologically Realistic Stochastic Neurons in VLSI. <i>IEEE Transactions on Neural Networks</i> , 2010, 21, 1511-1517. | 4.8 | 38 |
| 11 | Real-time multi-board architecture for analog spiking neural networks. , 2010, , . | | 3 |
| 12 | 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 |
| 13 | Adjusting the neurons models in neuromimetic ICs using the voltage-clamp technique. , 2008, , . | | 8 |
| 14 | 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 |