

Mahmood Amiri

List of Publications by Year in descending order

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44
papers

1,009
citations

471509

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434195

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44
all docs

44
docs citations

44
times ranked

791
citing authors

#	ARTICLE	IF	CITATIONS
1	A Neuromorphic CMOS Circuit With Self-Repairing Capability. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2246-2258.	11.3	7
2	Therapeutic efficacy of seizure onset zone-targeting high-definition cathodal tDCS in patients with drug-resistant focal epilepsy. Clinical Neurophysiology, 2022, 136, 219-227.	1.5	11
3	Recurrence quantification analysis of EEG signals for tactile roughness discrimination. International Journal of Machine Learning and Cybernetics, 2021, 12, 1115-1136.	3.6	9
4	Detection of static, dynamic, and no tactile friction based on nonlinear dynamics of EEG signals: A preliminary study. Chaos, Solitons and Fractals, 2021, 142, 110449.	5.1	1
5	A functional spiking neuronal network for tactile sensing pathway to process edge orientation. Scientific Reports, 2021, 11, 1320.	3.3	13
6	A neuromimetic realization of hippocampal CA1 for theta wave generation. Neural Networks, 2021, 142, 548-563.	5.9	4
7	Sharpness recognition based on synergy between bio-inspired nociceptors and tactile mechanoreceptors. Scientific Reports, 2021, 11, 2109.	3.3	9
8	A Biomimetic Circuit for Electronic Skin With Application in Hand Prosthesis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2333-2344.	4.9	6
9	Spike train analysis in a digital neuromorphic system of cutaneous mechanoreceptor. Neurocomputing, 2020, 379, 343-355.	5.9	4
10	A Neuromorphic Digital Circuit for Neuronal Information Encoding Using Astrocytic Calcium Oscillations. Frontiers in Neuroscience, 2019, 13, 998.	2.8	12
11	A Digital Hardware System for Spiking Network of Tactile Afferents. Frontiers in Neuroscience, 2019, 13, 1330.	2.8	6
12	Circuit modelling of 2-AG indirect pathway via astrocyte as a catalyst for synaptic self repair. Analog Integrated Circuits and Signal Processing, 2018, 95, 127-139.	1.4	7
13	A Digital Hardware Realization for Spiking Model of Cutaneous Mechanoreceptor. Frontiers in Neuroscience, 2018, 12, 322.	2.8	25
14	On the role of astrocyte analog circuit in neural frequency adaptation. Neural Computing and Applications, 2017, 28, 1109-1121.	5.6	10
15	Wavelet-based emotion recognition system using EEG signal. Neural Computing and Applications, 2017, 28, 1985-1990.	5.6	249
16	A multiplier-less digital design of a bio-inspired stimulator to suppress synchronized regime in a large-scale, sparsely connected neural network. Neural Computing and Applications, 2017, 28, 375-390.	5.6	3
17	Fast and Efficient Four-class Motor Imagery Electroencephalography Signal Analysis Using Common Spatial Pattern-Ridge Regression Algorithm for the Purpose of Brain-Computer Interface. Journal of Medical Signals and Sensors, 2017, 7, 80-85.	1.0	2
18	A new bio-inspired stimulator to suppress hyper-synchronized neural firing in a cortical network. Journal of Theoretical Biology, 2016, 410, 107-118.	1.7	6

#	ARTICLE	IF	CITATIONS
19	Analog implementation of neuron-astrocyte interaction in tripartite synapse. Journal of Computational Electronics, 2016, 15, 311-323.	2.5	15
20	Improving the performance of P300-based brain-computer interface. , 2016, , .		0
21	An analog astrocyte-neuron interaction circuit for neuromorphic applications. Journal of Computational Electronics, 2015, 14, 694-706.	2.5	17
22	Astrocyte stimulation as a new technique to desynchronize two coupled neurons. , 2015, , .		0
23	A bio-inspired stimulator to desynchronize epileptic cortical population models: A digital implementation framework. Neural Networks, 2015, 67, 74-83.	5.9	8
24	A digital implementation of neuron-astrocyte interaction for neuromorphic applications. Neural Networks, 2015, 66, 79-90.	5.9	52
25	Multiplier-less digital implementation of neuron-astrocyte signalling on FPGA. Neurocomputing, 2015, 164, 281-292.	5.9	48
26	A novel digital implementation of neuron-astrocyte interactions. Journal of Computational Electronics, 2015, 14, 227-239.	2.5	23
27	Nitric oxide in the nucleus raphe magnus modulates cutaneous blood flow in rats during hypothermia. Iranian Journal of Basic Medical Sciences, 2015, 18, 989-92.	1.0	9
28	A novel digital circuit for astrocyte-inspired stimulator to desynchronize two coupled oscillators. , 2014, , .		2
29	A digital neuromorphic circuit for a simplified model of astrocyte dynamics. Neuroscience Letters, 2014, 582, 21-26.	2.1	29
30	A phase plane analysis of neuron-astrocyte interactions. Neural Networks, 2013, 44, 157-165.	5.9	24
31	Astrocyte- neuron interaction as a mechanism responsible for generation of neural synchrony: a study based on modeling and experiments. Journal of Computational Neuroscience, 2013, 34, 489-504.	1.0	78
32	Modified thalamocortical model: A step towards more understanding of the functional contribution of astrocytes to epilepsy. Journal of Computational Neuroscience, 2012, 33, 285-299.	1.0	28
33	On the role of astrocytes in epilepsy: A functional modeling approach. Neuroscience Research, 2012, 72, 172-180.	1.9	30
34	Functional contributions of astrocytes in synchronization of a neuronal network model. Journal of Theoretical Biology, 2012, 292, 60-70.	1.7	63
35	Astrocyte-inspired controller design for desynchronization of two coupled limit-cycle oscillators. , 2011, , .		11
36	Functional modeling of astrocytes in epilepsy: a feedback system perspective. Neural Computing and Applications, 2011, 20, 1131-1139.	5.6	26

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37	On the role of astrocytes in synchronization of two coupled neurons: a mathematical perspective. <i>Biological Cybernetics</i> , 2011, 105, 153-166.	1.3	42
38	Bifurcation analysis of the Poincaré map function of intracranial EEG signals in temporal lobe epilepsy patients. <i>Mathematics and Computers in Simulation</i> , 2011, 81, 2471-2491.	4.4	21
39	Feedback associative memory based on a new hybrid model of generalized regression and self-feedback neural networks. <i>Neural Networks</i> , 2010, 23, 892-904.	5.9	32
40	APPLICATION OF ARTIFICIAL NEURAL NETWORKS IN CONTROLLED DRUG DELIVERY SYSTEMS. <i>Applied Artificial Intelligence</i> , 2010, 24, 807-820.	3.2	26
41	BAM Learning of Nonlinearly Separable Tasks by Using an Asymmetrical Output Function and Reinforcement Learning. <i>IEEE Transactions on Neural Networks</i> , 2009, 20, 1281-1292.	4.2	21
42	Analysis of the dynamical behavior of a feedback auto-associative memory. <i>Neurocomputing</i> , 2008, 71, 486-494.	5.9	10
43	A neural-network-based controller for a single-link flexible manipulator: Comparison of FFNN and DRNN controllers. , 2008, , .		7
44	Auto-associative memory based on a new hybrid model of SFNN and GRNN: Performance comparison with NDRAM, ART2 and MLP. , 2008, , .		3