Mahmood Amiri

List of Publications by Year
in descending order

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44 papers	1,009 citations	471509 17 h-index	434195 31 g-index
44 all docs	44 docs citations	44 times ranked	791 citing authors

#	Article	IF	Citations
1	Wavelet-based emotion recognition system using EEG signal. Neural Computing and Applications, 2017, 28, 1985-1990.	5.6	249
2	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
3	Functional contributions of astrocytes in synchronization of a neuronal network model. Journal of Theoretical Biology, 2012, 292, 60-70.	1.7	63
4	A digital implementation of neuronâ€“astrocyte interaction for neuromorphic applications. Neural Networks, 2015, 66, 79-90.	5.9	52
5	Multiplier-less digital implementation of neuronâ€“astrocyte signalling on FPGA. Neurocomputing, 2015, 164, 281-292.	5.9	48
6	On the role of astrocytes in synchronization of two coupled neurons: a mathematical perspective. Biological Cybernetics, 2011, 105, 153-166.	1.3	42
7	Feedback associative memory based on a new hybrid model of generalized regression and self-feedback neural networks. Neural Networks, 2010, 23, 892-904.	5.9	32
8	On the role of astrocytes in epilepsy: A functional modeling approach. Neuroscience Research, 2012, 72, 172-180.	1.9	30
9	A digital neurmorphic circuit for a simplified model of astrocyte dynamics. Neuroscience Letters, 2014, 582, 21-26.	2.1	29
10	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
11	APPLICATION OF ARTIFICIAL NEURAL NETWORKS IN CONTROLLED DRUG DELIVERY SYSTEMS. Applied Artificial Intelligence, 2010, 24, 807-820.	3.2	26
12	Functional modeling of astrocytes in epilepsy: a feedback system perspective. Neural Computing and Applications, 2011, 20, 1131-1139.	5.6	26
13	A Digital Hardware Realization for Spiking Model of Cutaneous Mechanoreceptor. Frontiers in Neuroscience, 2018, 12, 322.	2.8	25
14	A phase plane analysis of neuronâ€“astrocyte interactions. Neural Networks, 2013, 44, 157-165.	5.9	24
15	A novel digital implementation of neuronâ€“astrocyte interactions. Journal of Computational Electronics, 2015, 14, 227-239.	2.5	23
16	BAM Learning of Nonlinearly Separable Tasks by Using an Asymmetrical Output Function and Reinforcement Learning. IEEE Transactions on Neural Networks, 2009, 20, 1281-1292.	4.2	21
17	Bifurcation analysis of the PoincarÃ© map function of intracranial EEG signals in temporal lobe epilepsy patients. Mathematics and Computers in Simulation, 2011, 81, 2471-2491.	4.4	21
18	An analog astrocyteâ€“neuron interaction circuit for neuromorphic applications. Journal of Computational Electronics, 2015, 14, 694-706.	2.5	17

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19	Analog implementation of neuronâ€“astrocyte interaction in tripartite synapse. Journal of Computational Electronics, 2016, 15, 311-323.	2.5	15
20	A functional spiking neuronal network for tactile sensing pathway to process edge orientation. Scientific Reports, 2021, 11, 1320.	3.3	13
21	A Neuromorphic Digital Circuit for Neuronal Information Encoding Using Astrocytic Calcium Oscillations. Frontiers in Neuroscience, 2019, 13, 998.	2.8	12
22	Astrocyte-inspired controller design for desynchronization of two coupled limit-cycle oscillators. , 2011, , .		11
23	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
24	Analysis of the dynamical behavior of a feedback auto-associative memory. Neurocomputing, 2008, 71, 486-494.	5.9	10
25	On the role of astrocyte analog circuit in neural frequency adaptation. Neural Computing and Applications, 2017, 28, 1109-1121.	5.6	10
26	Recurrence quantification analysis of EEG signals for tactile roughness discrimination. International Journal of Machine Learning and Cybernetics, 2021, 12, 1115-1136.	3.6	9
27	Sharpness recognition based on synergy between bio-inspired nociceptors and tactile mechanoreceptors. Scientific Reports, 2021, 11, 2109.	3.3	9
28	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
29	A bio-inspired stimulator to desynchronize epileptic cortical population models: A digital implementation framework. Neural Networks, 2015, 67, 74-83.	5.9	8
30	A neural-network-based controller for a single-link flexible manipulator: Comparison of FFNN and DRNN controllers. , 2008, , .		7
31	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
32	A Neuromorphic CMOS Circuit With Self-Repairing Capability. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2246-2258.	11.3	7
33	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
34	A Digital Hardware System for Spiking Network of Tactile Afferents. Frontiers in Neuroscience, 2019, 13, 1330.	2.8	6
35	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
36	Spike train analysis in a digital neuromorphic system of cutaneous mechanoreceptor. Neurocomputing, 2020, 379, 343-355.	5.9	4

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37	A neuromimetic realization of hippocampal CA1 for theta wave generation. Neural Networks, 2021, 142, 548-563.	5.9	4
38	Auto-associative memory based on a new hybrid model of SFNN and GRNN: Performance comparison with NDRAM, ART2 and MLP. , 2008, , .		3
39	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
40	A novel digital circuit for astrocyte-inspired stimulator to desynchronize two coupled oscillators. , 2014, , .		2
41	Fast and Efficient Fourâ€'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
42	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
43	Astrocyte stimulation as a new technique to desynchronize two coupled neurons. , 2015, , .		0
44	Improving the performance of P300-based brain-computer interface. , 2016, , .		0