

Richard R Carrillo

List of Publications by Year in descending order

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19
papers

474
citations

840776
11
h-index

794594
19
g-index

21
all docs

21
docs citations

21
times ranked

417
citing authors

#	ARTICLE	IF	CITATIONS
1	A real-time spiking cerebellum model for learning robot control. <i>BioSystems</i> , 2008, 94, 18-27.	2.0	96
2	Adaptive Robotic Control Driven by a Versatile Spiking Cerebellar Network. <i>PLoS ONE</i> , 2014, 9, e112265.	2.5	70
3	A Spiking Neural Simulator Integrating Event-Driven and Time-Driven Computation Schemes Using Parallel CPU-GPU Co-Processing: A Case Study. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 1567-1574.	11.3	46
4	Fast convergence of learning requires plasticity between inferior olive and deep cerebellar nuclei in a manipulation task: a closed-loop robotic simulation. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 97.	2.1	39
5	Distributed Cerebellar Motor Learning: A Spike-Timing-Dependent Plasticity Model. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 17.	2.1	37
6	Cerebellar Input Configuration Toward Object Model Abstraction in Manipulation Tasks. <i>IEEE Transactions on Neural Networks</i> , 2011, 22, 1321-1328.	4.2	34
7	Event- and Time-Driven Techniques Using Parallel CPU-GPU Co-processing for Spiking Neural Networks. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 7.	2.5	23
8	A cerebellar-based solution to the nondeterministic time delay problem in robotic control. <i>Science Robotics</i> , 2021, 6, eabf2756.	17.6	22
9	Spike burst-pause dynamics of Purkinje cells regulate sensorimotor adaptation. <i>PLoS Computational Biology</i> , 2019, 15, e1006298.	3.2	20
10	Reconfigurable cyber-physical system for critical infrastructure protection in smart cities via smart video-surveillance. <i>Pattern Recognition Letters</i> , 2020, 140, 303-309.	4.2	19
11	Event-driven simulation of neural population synchronization facilitated by electrical coupling. <i>BioSystems</i> , 2007, 87, 275-280.	2.0	13
12	Integrated neural and robotic simulations. Simulation of cerebellar neurobiological substrate for an object-oriented dynamic model abstraction process. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1702-1716.	5.1	13
13	Event-driven simulation of cerebellar granule cells. <i>BioSystems</i> , 2008, 94, 10-17.	2.0	9
14	Event and Time Driven Hybrid Simulation of Spiking Neural Networks. <i>Lecture Notes in Computer Science</i> , 2011, , 554-561.	1.3	9
15	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 2. <i>BMC Neuroscience</i> , 2017, 18, .	1.9	7
16	A Metric for Evaluating Neural Input Representation in Supervised Learning Networks. <i>Frontiers in Neuroscience</i> , 2018, 12, 913.	2.8	5
17	On the Use of a Multimodal Optimizer for Fitting Neuron Models. Application to the Cerebellar Granule Cell. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 663797.	2.5	3
18	CPU-GPU hybrid platform for efficient spiking neural-network simulation. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	1

#	ARTICLE	IF	CITATIONS
19	Context Separability Mediated by the Granular Layer in a Spiking Cerebellum Model for Robot Control. Lecture Notes in Computer Science, 2011, , 537-546.	1.3	0