

Paolo Del Giudice

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,628
citations

394421

19
h-index

330143

37
g-index

44
all docs

44
docs citations

44
times ranked

1632
citing authors

#	ARTICLE	IF	CITATIONS
1	Population dynamics of interacting spiking neurons. <i>Physical Review E</i> , 2002, 66, 051917.	2.1	223
2	A vlsi recurrent network of integrate-and-fire neurons connected by plastic synapses with long-term memory. <i>IEEE Transactions on Neural Networks</i> , 2003, 14, 1297-1307.	4.2	164
3	Efficient Event-Driven Simulation of Large Networks of Spiking Neurons and Dynamical Synapses. <i>Neural Computation</i> , 2000, 12, 2305-2329.	2.2	144
4	The associative brain at work: Evidence from paired associative stimulation studies in humans. <i>Clinical Neurophysiology</i> , 2017, 128, 2140-2164.	1.5	120
5	A Multichip Pulse-Based Neuromorphic Infrastructure and Its Application to a Model of Orientation Selectivity. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2007, 54, 981-993.	0.1	108
6	Heterogeneous Attractor Cell Assemblies for Motor Planning in Premotor Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 11155-11168.	3.6	83
7	Diverse Population-Bursting Modes of Adapting Spiking Neurons. <i>Physical Review Letters</i> , 2007, 98, 148101.	7.8	77
8	Bistable Perception Modeled as Competing Stochastic Integrations at Two Levels. <i>PLoS Computational Biology</i> , 2009, 5, e1000430.	3.2	75
9	A Fluctuation-Driven Mechanism for Slow Decision Processes in Reverberant Networks. <i>PLoS ONE</i> , 2008, 3, e2534.	2.5	68
10	Slow Waves in Cortical Slices: How Spontaneous Activity is Shaped by Laminar Structure. <i>Cerebral Cortex</i> , 2019, 29, 319-335.	2.9	68
11	Modelling the formation of working memory with networks of integrate-and-fire neurons connected by plastic synapses. <i>Journal of Physiology (Paris)</i> , 2003, 97, 659-681.	2.1	64
12	Finite-size dynamics of inhibitory and excitatory interacting spiking neurons. <i>Physical Review E</i> , 2004, 70, 052903.	2.1	64
13	Robust Working Memory in an Asynchronously Spiking Neural Network Realized with Neuromorphic VLSI. <i>Frontiers in Neuroscience</i> , 2012, 5, 149.	2.8	43
14	Dissociated multi-unit activity and local field potentials: A theory inspired analysis of a motor decision task. <i>NeuroImage</i> , 2010, 52, 812-823.	4.2	34
15	Network Events on Multiple Space and Time Scales in Cultured Neural Networks and in a Stochastic Rate Model. <i>PLoS Computational Biology</i> , 2015, 11, e1004547.	3.2	29
16	Pentamer vocabularies characterizing introns and intron-like intergenic tracts from <i>Caenorhabditis elegans</i> and <i>Drosophila melanogaster</i> . <i>Gene</i> , 2003, 304, 183-192.	2.2	26
17	Classification of Correlated Patterns with a Configurable Analog VLSI Neural Network of Spiking Neurons and Self-Regulating Plastic Synapses. <i>Neural Computation</i> , 2009, 21, 3106-3129.	2.2	23
18	Real time unsupervised learning of visual stimuli in neuromorphic VLSI systems. <i>Scientific Reports</i> , 2015, 5, 14730.	3.3	22

#	ARTICLE	IF	CITATIONS
19	Learning to Attend: Modeling the Shaping of Selectivity in Infero-temporal Cortex in a Categorization Task. <i>Biological Cybernetics</i> , 2006, 94, 351-365.	1.3	21
20	A neuro-inspired model-based closed-loop neuroprosthesis for the substitution of a cerebellar learning function in anesthetized rats. <i>Scientific Reports</i> , 2015, 5, 8451.	3.3	20
21	Frequency-dependent response properties of adapting spiking neurons. <i>Mathematical Biosciences</i> , 2007, 207, 336-351.	1.9	19
22	Inferring Synaptic Structure in Presence of Neural Interaction Time Scales. <i>PLoS ONE</i> , 2015, 10, e0118412.	2.5	19
23	A VLSI Field-Programmable Mixed-Signal Array to Perform Neural Signal Processing and Neural Modeling in a Prosthetic System. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 455-467.	4.9	18
24	tTBS-Induced LTP-Like Plasticity Parallels Oscillatory Activity Changes in the Primary Sensory and Motor Areas of Macaque Monkeys. <i>PLoS ONE</i> , 2014, 9, e112504.	2.5	18
25	Maximization of mutual information in a linear noisy network: a detailed study. <i>Network: Computation in Neural Systems</i> , 1995, 6, 449-468.	3.6	11
26	Spontaneous activity emerging from an inferred network model captures complex spatio-temporal dynamics of spike data. <i>Scientific Reports</i> , 2018, 8, 17056.	3.3	10
27	Maximization of mutual information in a linear noisy network: a detailed study. <i>Network: Computation in Neural Systems</i> , 1995, 6, 449-468.	3.6	10
28	Learning selective top-down control enhances performance in a visual categorization task. <i>Journal of Neurophysiology</i> , 2012, 108, 3124-3137.	1.8	9
29	A new dynamic tactile display for reconfigurable braille: implementation and tests. <i>Frontiers in Neuroengineering</i> , 2014, 7, 6.	4.8	9
30	IMRT optimization: Variability of solutions and its radiobiological impact. <i>Medical Physics</i> , 2004, 31, 1052-1060.	3.0	7
31	Scaling of a Large-Scale Simulation of Synchronous Slow-Wave and Asynchronous Awake-Like Activity of a Cortical Model With Long-Range Interconnections. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 33.	2.5	7
32	Reward-biased probabilistic decision-making: Mean-field predictions and spiking simulations. <i>Neurocomputing</i> , 2006, 69, 1175-1178.	5.9	5
33	Self-sustained activity in attractor networks using neuromorphic VLSI. , 2010, , .		3
34	NEURAL NETWORKS AS OPTIMAL INFORMATION PROCESSORS. <i>International Journal of Modern Physics C</i> , 1994, 05, 855-862.	1.7	2
35	Mean Field Approach for Configuring Population Dynamics on a Biohybrid Neuromorphic System. <i>Journal of Signal Processing Systems</i> , 2020, 92, 1303-1321.	2.1	2
36	CAN NEURAL NETWORKS BE USED AS MODELS FOR NEUROPSYCHOLOGICAL DYSFUNCTIONS?. <i>International Journal of Neural Systems</i> , 1992, 03, 163-168.	5.2	1

#	ARTICLE	IF	CITATIONS
37	Mean-Field Population Dynamics of Spiking Neurons with Random Synaptic Delays. Lecture Notes in Computer Science, 2002, , 111-116.	1.3	1
38	Learning attractors in an asynchronous, stochastic electronic neural network. Network: Computation in Neural Systems, 1998, 9, 183-205.	3.6	1
39	NEURAL NETWORKS FOR PHYSICS ANALYSIS IN DELPHI. International Journal of Neural Systems, 1992, 03, 255-265.	5.2	0
40	A network of reverberating neuronal populations encodes motor decision in macaque premotor cortex. BMC Neuroscience, 2009, 10, .	1.9	0
41	Density-based clustering: A "landscape view" of multi-channel neural data for inference and dynamic complexity analysis. PLoS ONE, 2017, 12, e0174918.	2.5	0
42	Computational Strategy in the Premotor Cortex of the Monkey: A Neural Network Model. NATO ASI Series Series B: Physics, 1991, , 269-278.	0.2	0