Paolo Del Giudice

List of Publications by Year
in descending order

42	1,628	394421 19	330143 37
papers	citations	h-index	g-index

44	44	44	1632
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mean Field Approach for Configuring Population Dynamics on a Biohybrid Neuromorphic System. Journal of Signal Processing Systems, 2020, 92, 1303-1321.	2.1	2
2	Scaling of a Large-Scale Simulation of Synchronous Slow-Wave and Asynchronous Awake-Like Activity of a Cortical Model With Long-Range Interconnections. Frontiers in Systems Neuroscience, 2019, 13, 33.	2.5	7
3	Slow Waves in Cortical Slices: How Spontaneous Activity is Shaped by Laminar Structure. Cerebral Cortex, 2019, 29, 319-335.	2.9	68
4	Spontaneous activity emerging from an inferred network model captures complex spatio-temporal dynamics of spike data. Scientific Reports, 2018, 8, 17056.	3.3	10
5	The associative brain at work: Evidence from paired associative stimulation studies in humans. Clinical Neurophysiology, 2017, 128, 2140-2164.	1.5	120
6	Density-based clustering: A â€˜landscape viewâ€™ of multi-channel neural data for inference and dynamic complexity analysis. PLoS ONE, 2017, 12, e0174918.	2.5	0
7	Real time unsupervised learning of visual stimuli in neuromorphic VLSI systems. Scientific Reports, 2015, 5, 14730.	3.3	22
8	A neuro-inspired model-based closed-loop neuroprosthesis for the substitution of a cerebellar learning function in anesthetized rats. Scientific Reports, 2015, 5, 8451.	3.3	20
9	Network Events on Multiple Space and Time Scales in Cultured Neural Networks and in a Stochastic Rate Model. PLoS Computational Biology, 2015, 11, e1004547.	3.2	29
10	Inferring Synaptic Structure in Presence of Neural Interaction Time Scales. PLoS ONE, 2015, 10, e0118412.	2.5	19
11	iTBS-Induced LTP-Like Plasticity Parallels Oscillatory Activity Changes in the Primary Sensory and Motor Areas of Macaque Monkeys. PLoS ONE, 2014, 9, e112504.	2.5	18
12	A new dynamic tactile display for reconfigurable braille: implementation and tests. Frontiers in Neuroengineering, 2014, 7, 6.	4.8	9
13	Heterogeneous Attractor Cell Assemblies for Motor Planning in Premotor Cortex. Journal of Neuroscience, 2013, 33, 11155-11168.	3.6	83
14	Learning selective top-down control enhances performance in a visual categorization task. Journal of Neurophysiology, 2012, 108, 3124-3137.	1.8	9
15	A VLSI Field-Programmable Mixed-Signal Array to Perform Neural Signal Processing and Neural Modeling in a Prosthetic System. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 455-467.	4.9	18
16	Robust Working Memory in an Asynchronously Spiking Neural Network Realized with Neuromorphic VLSI. Frontiers in Neuroscience, 2012, 5, 149.	2.8	43
17	Self-sustained activity in attractor networks using neuromorphic VLSI. , 2010, , .		3
18	Dissociated multi-unit activity and local field potentials: A theory inspired analysis of a motor decision task. NeuroImage, 2010, 52, 812-823.	4.2	34

#	Article	IF	Citations
19	Classification of Correlated Patterns with a Configurable Analog VLSI Neural Network of Spiking Neurons and Self-Regulating Plastic Synapses. Neural Computation, 2009, 21, 3106-3129.	2.2	23
20	Bistable Perception Modeled as Competing Stochastic Integrations at Two Levels. PLoS Computational Biology, 2009, 5, e1000430.	3.2	75
21	A network of reverberating neuronal populations encodes motor decision in macaque premotor cortex. BMC Neuroscience, 2009, 10, .	1.9	0
22	A Fluctuation-Driven Mechanism for Slow Decision Processes in Reverberant Networks. PLoS ONE, 2008, 3, e2534.	2.5	68
23	A Multichip Pulse-Based Neuromorphic Infrastructure and Its Application to a Model of Orientation Selectivity. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 981-993.	0.1	108
24	Frequency-dependent response properties of adapting spiking neurons. Mathematical Biosciences, 2007, 207, 336-351.	1.9	19
25	Diverse Population-Bursting Modes of Adapting Spiking Neurons. Physical Review Letters, 2007, 98, 148101.	7.8	77
26	Learning to Attend: Modeling the Shaping of Selectivity in Infero-temporal Cortex in a Categorization Task. Biological Cybernetics, 2006, 94, 351-365.	1.3	21
27	Reward-biased probabilistic decision-making: Mean-field predictions and spiking simulations. Neurocomputing, 2006, 69, 1175-1178.	5.9	5
28	Finite-size dynamics of inhibitory and excitatory interacting spiking neurons. Physical Review E, 2004, 70, 052903.	2.1	64
29	IMRT optimization: Variability of solutions and its radiobiological impact. Medical Physics, 2004, 31, 1052-1060.	3.0	7
30	Modelling the formation of working memory with networks of integrate-and-fire neurons connected by plastic synapses. Journal of Physiology (Paris), 2003, 97, 659-681.	2.1	64
31	Pentamer vocabularies characterizing introns and intron-like intergenic tracts from Caenorhabditis elegans and Drosophila melanogaster. Gene, 2003, 304, 183-192.	2.2	26
32	A vlsi recurrent network of integrate-and-fire neurons connected by plastic synapses with long-term memory. IEEE Transactions on Neural Networks, 2003, 14, 1297-1307.	4.2	164
33	Population dynamics of interacting spiking neurons. Physical Review E, 2002, 66, 051917.	2.1	223
34	Mean-Field Population Dynamics of Spiking Neurons with Random Synaptic Delays. Lecture Notes in Computer Science, 2002, , 111-116.	1.3	1
35	Efficient Event-Driven Simulation of Large Networks of Spiking Neurons and Dynamical Synapses. Neural Computation, 2000, 12, 2305-2329.	2.2	144
36	Learning attractors in an asynchronous, stochastic electronic neural network. Network: Computation in Neural Systems, 1998, 9, 183-205.	3.6	1

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37	Maximization of mutual information in a linear noisy network: a detailed study. Network: Computation in Neural Systems, 1995, 6, 449-468.	3.6	11
38	Maximization of mutual information in a linear noisy network: a detailed study. Network: Computation in Neural Systems, 1995, 6, 449-468.	3.6	10
39	NEURAL NETWORKS AS OPTIMAL INFORMATION PROCESSORS. International Journal of Modern Physics C, 1994, 05, 855-862.	1.7	2
40	CAN NEURAL NETWORKS BE USED AS MODELS FOR NEUROPSYCHOLOGICAL DYSFUNCTIONS?. International Journal of Neural Systems, 1992, 03, 163-168.	5.2	1
41	NEURAL NETWORKS FOR PHYSICS ANALYSIS IN DELPHI. International Journal of Neural Systems, 1992, 03, 255-265.	5.2	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