

# Chris Christodoulou

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

931  
citations

840585

11  
h-index

454834

30  
g-index

50  
all docs

50  
docs citations

50  
times ranked

780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing Different Classifiers for Automatic Age Estimation. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 621-628.	5.5	463
2	Artificial neural networks for earthquake prediction using time series magnitude data or Seismic Electric Signals. Expert Systems With Applications, 2011, 38, 15032-15039.	4.4	99
3	Role of Temporal Integration and Fluctuation Detection in the Highly Irregular Firing of a Leaky Integrator Neuron Model with Partial Reset. Neural Computation, 1997, 9, 985-1000.	1.3	69
4	Coefficient of variation vs. mean interspike interval curves: What do they tell us about the brain?. Neurocomputing, 2001, 38-40, 1141-1149.	3.5	38
5	Neural networks: the panacea in fraud detection?. Managerial Auditing Journal, 2010, 25, 659-678.	1.4	32
6	A spiking neuron model: applications and learning. Neural Networks, 2002, 15, 891-908.	3.3	29
7	Near Poisson-type firing produced by concurrent excitation and inhibition. BioSystems, 2000, 58, 41-48.	0.9	23
8	Speaker identification for security systems using reinforcement-trained pRAM neural network architectures. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2001, 31, 65-76.	3.3	23
9	A Biophysical Model of Endocannabinoid-Mediated Short Term Depression in Hippocampal Inhibition. PLoS ONE, 2013, 8, e58926.	1.1	20
10	Multiagent Reinforcement Learning: Spiking and Nonspiking Agents in the Iterated Prisoner's Dilemma. IEEE Transactions on Neural Networks, 2011, 22, 639-653.	4.8	19
11	Self-control with spiking and non-spiking neural networks playing games. Journal of Physiology (Paris), 2010, 104, 108-117.	2.1	12
12	A Comparative Study on Filtering Protein Secondary Structure Prediction. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 731-739.	1.9	11
13	Does High Firing Irregularity Enhance Learning?. Neural Computation, 2011, 23, 656-663.	1.3	10
14	Protein Secondary Structure Prediction with Bidirectional Recurrent Neural Nets: Can Weight Updating for Each Residue Enhance Performance?. International Federation for Information Processing, 2010, , 128-137.	0.4	10
15	Neural network methods for one-to-many multi-valued mapping problems. Neural Computing and Applications, 2011, 20, 775-785.	3.2	9
16	Behavioral plasticity through the modulation of switch neurons. Neural Networks, 2016, 74, 35-51.	3.3	7
17	Distinguishing the Causes of Firing with the Membrane Potential Slope. Neural Computation, 2012, 24, 2318-2345.	1.3	6
18	One-to-many neural network mapping techniques for face image synthesis. Expert Systems With Applications, 2012, 39, 9778-9787.	4.4	6

#	ARTICLE	IF	CITATIONS
19	Toward Nonlinear Local Reinforcement Learning Rules Through Neuroevolution. <i>Neural Computation</i> , 2013, 25, 3020-3043.	1.3	5
20	Multiagent Reinforcement Learning with Spiking and Non-Spiking Agents in the Iterated Prisoner's Dilemma. <i>Lecture Notes in Computer Science</i> , 2009, , 737-746.	1.0	5
21	Modelling of the high firing variability of real cortical neurons with the temporal noisy-leaky integrator neuron model. , 0, , .		4
22	Multiagent Reinforcement Learning in the Iterated Prisoner's Dilemma: Fast cooperation through evolved payoffs. , 2010, , .		4
23	Measuring input synchrony in the Ornstein-Uhlenbeck neuronal model through input parameter estimation. <i>Brain Research</i> , 2013, 1536, 97-106.	1.1	4
24	Is self-control a learned strategy employed by a reward maximizing brain?. <i>BMC Neuroscience</i> , 2009, 10, .	0.8	2
25	Learning optimisation by high firing irregularity. <i>Brain Research</i> , 2012, 1434, 115-122.	1.1	2
26	Integrator or Coincidence Detector: A Novel Measure Based on the Discrete Reverse Correlation to Determine a Neuron's Operational Mode. <i>Neural Computation</i> , 2016, 28, 2091-2128.	1.3	2
27	Integrator or coincidence detector -- what shapes the relation of stimulus synchrony and the operational mode of a neuron?. <i>Mathematical Biosciences and Engineering</i> , 2016, 13, 521-535.	1.0	2
28	Spiking Neural Networks with Different Reinforcement Learning (RL) Schemes in a Multiagent Setting. <i>Chinese Journal of Physiology</i> , 2010, 53, 447-453.	0.4	2
29	A temporal noisy-leaky integrator neuron constructed using pRAMs. , 1992, , 1475-1478.		2
30	The noisy-leaky integrator model implemented using pRAMs. , 0, , .		1
31	On the firing variability of the integrate-and-fire neurons with partial reset in the presence of inhibition. <i>Neurocomputing</i> , 2002, 44-46, 81-84.	3.5	1
32	On learning time delays between the spikes from different input neurons in a biophysical model of a pyramidal neuron. <i>BioSystems</i> , 2015, 136, 80-89.	0.9	1
33	Convolutional Neural Networks in Combination with Support Vector Machines for Complex Sequential Data Classification. <i>Lecture Notes in Computer Science</i> , 2018, , 444-455.	1.0	1
34	A review on the stochastic firing behaviour of real neurons and how it can be modelled. <i>Lecture Notes in Computer Science</i> , 1995, , 223-230.	1.0	1
35	CAN SELF-CONTROL BE EXPLAINED THROUGH GAMES?. , 2005, , .		0
36	A biophysical model of endocannabinoid-mediated short term depression of excitation in hippocampus. <i>BMC Neuroscience</i> , 2013, 14, .	0.8	0

#	ARTICLE	IF	CITATIONS
37	Synchrony measure for a neuron driven by excitatory and inhibitory inputs and its adaptation to experimentally-recorded data. <i>BioSystems</i> , 2017, 161, 46-56.	0.9	0
38	Editorial. <i>BioSystems</i> , 2017, 161, 1-2.	0.9	0
39	Editorial. <i>BioSystems</i> , 2020, 187, 104049.	0.9	0
40	Isolating Stock Prices Variation with Neural Networks. <i>Communications in Computer and Information Science</i> , 2009, , 401-408.	0.4	0
41	ON THE PSYCHOLOGY AND MODELLING OF SELF-CONTROL. , 2009, , .		0
42	Automatic Landmark Location for Analysis of Cardiac MRI Images. <i>Communications in Computer and Information Science</i> , 2012, , 203-212.	0.4	0
43	An Extension of a Hierarchical Reinforcement Learning Algorithm for Multiagent Settings. <i>Lecture Notes in Computer Science</i> , 2012, , 261-272.	1.0	0
44	Solving the Protein Secondary Structure Prediction Problem With the Hessian Free Optimization Algorithm. <i>IEEE Access</i> , 2022, 10, 27759-27770.	2.6	0