Miguel Atencia

List of Publications by Year
in descending order

36 papers	508 citations	933264 10 h-index	677027 22 g-index
42 all docs	42 docs citations	42 times ranked	395 citing authors

#	ARTICLE	IF	CITATIONS
1	Hopfield neural networks for optimization: study of the different dynamics. Neurocomputing, 2002, 43, 219-237.	3.5	232
2	Dynamical Analysis of Continuous Higher-Order Hopfield Networks for Combinatorial Optimization. Neural Computation, 2005, 17, 1802-1819.	1.3	34
3	Hopfield Neural Networks for Parametric Identification of Dynamical Systems. Neural Processing Letters, 2005, 21, 143-152.	2.0	27
4	Parametric identification of robotic systems with stable time-varying Hopfield networks. Neural Computing and Applications, 2004, 13, 270-280.	3.2	26
5	FPGA implementation of a systems identification module based upon Hopfield networks. Neurocomputing, 2007, 70, 2828-2835.	3.5	21
6	Automated Detection of Presymptomatic Conditions in Spinocerebellar Ataxia Type 2 Using Monte Carlo Dropout and Deep Neural Network Techniques with Electrooculogram Signals. Sensors, 2020, 20, 3032.	2.1	20
7	Identification of noisy dynamical systems with parameter estimation based on Hopfield neural networks. Neurocomputing, 2013, 121, 14-24.	3.5	17
8	Ranking Information Extracted from Uncertainty Quantification of the Prediction of a Deep Learning Model on Medical Time Series Data. Mathematics, 2020, 8, 1078.	1.1	12
9	A discrete gradient method to enhance the numerical behaviour of Hopfield networks. Neurocomputing, 2015, 164, 45-55.	3.5	10
10	Associating arbitrary-order energy functions to an artificial neural network. Neurocomputing, 1997, 14, 139-156.	3.5	7
11	Hopfield networks for identification of delay differential equations with an application to dengue fever epidemics in Cuba. Neurocomputing, 2011, 74, 2691-2697.	3.5	7
12	Modelling the HIV-AIDS Cuban Epidemics with Hopfield Neural Networks. Lecture Notes in Computer Science, 2003, , 449-456.	1.0	7
13	Deep Learning for the Detection of Frames of Interest in Fetal Heart Assessment from First Trimester Ultrasound. Lecture Notes in Computer Science, 2021, , 3-14.	1.0	6
14	Application of high-order hopfield neural networks to the solution of diophantine equations. , 1991, , 395-400.		5
15	A Learning Rule to Model the Development of Orientation Selectivity in Visual Cortex. Neural Processing Letters, 2005, 21, 1-20.	2.0	5
16	Estimation of the Rate of Detection of Infected Individuals in an Epidemiological Model. Lecture Notes in Computer Science, 2007, , 948-955.	1.0	5
17	Estimation of parameters based on artificial neural networks and threshold of HIV/AIDS epidemic system in Cuba. Mathematical and Computer Modelling, 2013, 57, 2971-2983.	2.0	5
18	Uncertainty Quantification through Dropout in Time Series Prediction by Echo State Networks. Mathematics, 2020, 8, 1374.	1.1	5

#	ARTICLE	IF	CITATIONS
19	Hopfield neural network applied to optimization problems: Some theoretical and simulation results. Lecture Notes in Computer Science, 1997, , 556-565.	1.0	4
20	A Formal Model for Definition and Simulation of Generic Neural Networks. Neural Processing Letters, 2000, 11, 87-105.	2.0	4
21	Hopfield networks: from optimization to adaptive control. , 2015, , .		4
22	A hybrid unsupervised–Deep learning tandem for electrooculography time series analysis. PLoS ONE, 2020, 15, e0236401.	1.1	4
23	Optimization of distributed generation penetration in distributed power electric systems. , 2011, , .		2
24	Dynamic Clustering of Time Series with Echo State Networks. Lecture Notes in Computer Science, 2019, , 73-83.	1.0	2
25	Time Series Clustering with Deep Reservoir Computing. Lecture Notes in Computer Science, 2020, , 482-493.	1.0	2
26	New trends in computational intelligence. Neurocomputing, 2017, 250, 1-4.	3.5	1
27	Unsupervised Learning as a Complement to Convolutional Neural Network Classification in the Analysis of Saccadic Eye Movement in Spino-Cerebellar Ataxia Type 2. Lecture Notes in Computer Science, 2019, , 26-37.	1.0	1
28	Advances in computational intelligence. Neural Computing and Applications, 2020, 32, 309-311.	3.2	1
29	The ratio of hidden HIV infection in Cuba. Mathematical Biosciences and Engineering, 2013, 10, 959-977.	1.0	1
30	Spurious minima and basins of attraction in higher-order Hopfield networks. Lecture Notes in Computer Science, 2003, , 350-357.	1.0	1
31	System Identification of Dengue Fever Epidemics in Cuba. Lecture Notes in Computer Science, 2009, , 901-908.	1.0	1
32	Cluster Analysis of Finger-to-nose Test for Spinocerebellar Ataxia Assessment. Lecture Notes in Computer Science, 2015, , 524-535.	1.0	1
33	Modelling Dengue Epidemics with Autoregressive Switching Markov Models (AR-HMM). Lecture Notes in Computer Science, 2009, , 886-892.	1.0	0
34	Continuous-State Hopfield Dynamics Based on Implicit Numerical Methods. Lecture Notes in Computer Science, 2002, , 1365-1370.	1.0	0
35	A learning rule to model the development of orientation selectivity in visual cortex. Lecture Notes in Computer Science, 2003, , 190-197.	1.0	0
36	Fixed Points of the Abe Formulation of Stochastic Hopfield Networks. Lecture Notes in Computer Science, 2007, , 599-608.	1.0	0