

Roberto A Vazquez

List of Publications by Year in descending order

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61
papers

804
citations

759055

12
h-index

677027

22
g-index

67
all docs

67
docs citations

67
times ranked

629
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing Artificial Neural Networks Using Particle Swarm Optimization Algorithms. Computational Intelligence and Neuroscience, 2015, 2015, 1-20.	1.1	124
2	Classification of DNA microarrays using artificial neural networks and ABC algorithm. Applied Soft Computing Journal, 2016, 38, 548-560.	4.1	93
3	Training spiking neural models using cuckoo search algorithm. , 2011, , .		57
4	Design of artificial neural networks using a modified Particle Swarm Optimization algorithm. , 2009, , .		39
5	Artificial neural network synthesis by means of artificial bee colony (ABC) algorithm. , 2011, , .		38
6	A New Associative Model with Dynamical Synapses. Neural Processing Letters, 2008, 28, 189-207.	2.0	31
7	A Bidirectional Hetero-Associative Memory for True-Color Patterns. Neural Processing Letters, 2008, 28, 131-153.	2.0	27
8	Integrate and Fire neurons and their application in pattern recognition. , 2010, , .		25
9	Tuning the parameters of an integrate and fire neuron via a genetic algorithm for solving pattern recognition problems. Neurocomputing, 2015, 148, 187-197.	3.5	24
10	Training Spiking Neural Models Using Artificial Bee Colony. Computational Intelligence and Neuroscience, 2015, 2015, 1-14.	1.1	23
11	Design of Artificial Neural Networks Using Differential Evolution Algorithm. Lecture Notes in Computer Science, 2010, , 201-208.	1.0	20
12	Transforming Fundamental Set of Patterns to a Canonical Form to Improve Pattern Recall. Lecture Notes in Computer Science, 2004, , 687-696.	1.0	17
13	Behavior of morphological associative memories with true-color image patterns. Neurocomputing, 2009, 73, 225-244.	3.5	16
14	Pattern Recognition Using Spiking Neurons and Firing Rates. Lecture Notes in Computer Science, 2010, , 423-432.	1.0	16
15	Training Spiking Neurons by Means of Particle Swarm Optimization. Lecture Notes in Computer Science, 2011, , 242-249.	1.0	13
16	Evolving ant colony system for optimizing path planning in mobile robots. , 2007, , .		12
17	New Associative Memories to Recall Real-Valued Patterns. Lecture Notes in Computer Science, 2004, , 195-202.	1.0	12
18	Path Planning Optimization Using Bio-Inspired Algorithms. , 2006, , .		11

#	ARTICLE	IF	CITATIONS
19	Face Recognition Using Histogram Oriented Gradients. Communications in Computer and Information Science, 2016, , 125-133.	0.4	11
20	Evaluating spiking neural models in the classification of motor imagery EEG signals using short calibration sessions. Applied Soft Computing Journal, 2018, 67, 232-244.	4.1	10
21	Low Frequency Response and Random Feature Selection Applied to Face Recognition. Lecture Notes in Computer Science, 2007, , 818-830.	1.0	10
22	Visual attention using spiking neural maps. , 2011, , .		9
23	3D Object Recognition Based on Low Frequency Response and Random Feature Selection. Lecture Notes in Computer Science, 2007, , 694-704.	1.0	9
24	Associative Memories Applied to Image Categorization. Lecture Notes in Computer Science, 2006, , 549-558.	1.0	8
25	Malware Classification Using Euclidean Distance and Artificial Neural Networks. , 2013, , .		8
26	Random Features Applied to Face Recognition. , 2007, , .		7
27	Classification of motor imagery electroencephalography signals using spiking neurons with different input encoding strategies. Neural Computing and Applications, 2018, 30, 1289-1301.	3.2	7
28	Designing artificial neural networks using differential evolution for classifying DNA microarrays. , 2017, , .		6
29	Evaluating the effect of the cutoff frequencies during the pre-processing stage of motor imagery EEG signals classification. Biomedical Signal Processing and Control, 2019, 54, 101592.	3.5	6
30	Crop Classification Using Different Color Spaces and RBF Neural Networks. Lecture Notes in Computer Science, 2014, , 598-609.	1.0	6
31	Classification of DNA Microarrays Using Artificial Bee Colony (ABC) Algorithm. Lecture Notes in Computer Science, 2014, , 207-214.	1.0	6
32	Study of the Influence of Noise in the Values of a Median Associative Memory. Lecture Notes in Computer Science, 2007, , 55-62.	1.0	6
33	Real-valued pattern classification based on extended associative memory. , 0, , .		5
34	A New Bi-directional Associative Memory. Lecture Notes in Computer Science, 2006, , 367-380.	1.0	5
35	A computational approach for modeling the infant vision system in object and face recognition. BMC Neuroscience, 2007, 8, .	0.8	5
36	3D Object Recognition Based on Some Aspects of the Infant Vision System and Associative Memory. Cognitive Computation, 2010, 2, 86-96.	3.6	5

#	ARTICLE	IF	CITATIONS
37	An Evolutionary Feature-Based Visual Attention Model Applied to Face Recognition. Lecture Notes in Computer Science, 2010, , 376-384.	1.0	5
38	Behavioural study of median associative memory under true-colour image patterns. Neurocomputing, 2011, 74, 2985-2997.	3.5	4
39	Spiking Neural Networks Trained with Particle Swarm Optimization for Motor Imagery Classification. Lecture Notes in Computer Science, 2016, , 245-252.	1.0	4
40	EEG Channel Selection using Fractal Dimension and Artificial Bee Colony Algorithm. , 2018, , .		4
41	Crop Classification Using Artificial Bee Colony (ABC) Algorithm. Lecture Notes in Computer Science, 2016, , 171-178.	1.0	4
42	Hetero-Associative Memories for Voice Signal and Image Processing. Lecture Notes in Computer Science, 2008, , 659-666.	1.0	4
43	A computational approach for modeling the biological olfactory system during an odor discrimination task using spiking neuron. BMC Neuroscience, 2011, 12, .	0.8	3
44	Locating seismic-sense stations through genetic algorithm. , 2011, , .		3
45	A new objective function to build seismic networks using differential evolution. , 2012, , .		3
46	Creation of spiking neuron models applied in pattern recognition problems. , 2013, , .		3
47	Classification of EEG signals using fractal dimension features and artificial neural networks. , 2017, , .		3
48	Associative Memories Applied to Pattern Recognition. Lecture Notes in Computer Science, 2008, , 111-120.	1.0	2
49	Facing High EEG Signals Variability during Classification Using Fractal Dimension and Different Cutoff Frequencies. Computational Intelligence and Neuroscience, 2019, 2019, 1-12.	1.1	2
50	Voice Translator Based on Associative Memories. Lecture Notes in Computer Science, 2008, , 341-350.	1.0	2
51	Diseño automático de redes neuronales artificiales mediante el uso del algoritmo de evolución diferencial (ED). Polibits, 0, 46, 13-27.	0.0	2
52	Morphological auto-associative memories applied to true-color image patterns. , 2009, , .		1
53	A computational approach for modeling the role of the focus visual attention in an object categorization task. BMC Neuroscience, 2009, 10, .	0.8	1
54	Implementation of configurable and multipurpose spiking neural networks on GPUs. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
55	Generalized neurons and its application in DNA microarray classification. , 2016, , .		1
56	Automatic Diet Generation by Artificial Bee Colony Algorithm. Lecture Notes in Computer Science, 2019, , 299-309.	1.0	1
57	Invariant Descriptions and Associative Processing Applied to Object Recognition Under Occlusions. Lecture Notes in Computer Science, 2005, , 318-327.	1.0	1
58	Face Recognition Using Some Aspects of the Infant Vision System and Associative Memories. , 2007, , 437-446.		1
59	Spiking Neuron Model approximation using GEP. , 2013, , .		0
60	A New Generalized Neuron Model Applied to DNA Microarray Classification. Communications in Computer and Information Science, 2019, , 125-136.	0.4	0
61	Spiking Neural Models and Their Application in DNA Microarrays Classification. Lecture Notes in Computer Science, 2019, , 164-172.	1.0	0