

Alberto Prieto Espinosa

List of Publications by Year in descending order

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77
papers

2,339
citations

218677

26
h-index

233421

45
g-index

82
all docs

82
docs citations

82
times ranked

1828
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural networks: An overview of early research, current frameworks and new challenges. Neurocomputing, 2016, 214, 242-268.	5.9	217
2	Time series analysis using normalized PG-RBF network with regression weights. Neurocomputing, 2002, 42, 267-285.	5.9	131
3	Proteinotopic feature maps. Neurocomputing, 1994, 6, 443-454.	5.9	128
4	G-Prop: Global optimization of multilayer perceptrons using GAs. Neurocomputing, 2000, 35, 149-163.	5.9	125
5	Self-organized fuzzy system generation from training examples. IEEE Transactions on Fuzzy Systems, 2000, 8, 23-36.	9.8	125
6	Daily living activity recognition based on statistical feature quality group selection. Expert Systems With Applications, 2012, 39, 8013-8021.	7.6	117
7	A new clustering technique for function approximation. IEEE Transactions on Neural Networks, 2002, 13, 132-142.	4.2	105
8	A systematic approach to a self-generating fuzzy rule-table for function approximation. IEEE Transactions on Systems, Man, and Cybernetics, 2000, 30, 431-447.	5.0	91
9	Recursive prediction for long term time series forecasting using advanced models. Neurocomputing, 2007, 70, 2870-2880.	5.9	64
10	TaSe, a Taylor series-based fuzzy system model that combines interpretability and accuracy. Fuzzy Sets and Systems, 2005, 153, 403-427.	2.7	60
11	Evolving Multilayer Perceptrons. Neural Processing Letters, 2000, 12, 115-128.	3.2	58
12	Statistical analysis of the parameters of a neuro-genetic algorithm. IEEE Transactions on Neural Networks, 2002, 13, 1374-1394.	4.2	53
13	A Quantitative Study of Fault Tolerance, Noise Immunity, and Generalization Ability of MLPs. Neural Computation, 2000, 12, 2941-2964.	2.2	51
14	Improved RAN sequential prediction using orthogonal techniques. Neurocomputing, 2001, 41, 153-172.	5.9	48
15	Structure identification in complete rule-based fuzzy systems. IEEE Transactions on Fuzzy Systems, 2002, 10, 349-359.	9.8	47
16	Real-Time System for High-Image Resolution Disparity Estimation. IEEE Transactions on Image Processing, 2007, 16, 280-285.	9.8	46
17	Neural net approach for blind separation of sources based on geometric properties. Neurocomputing, 1998, 18, 141-164.	5.9	40
18	Use of Phase in Brain-Computer Interfaces based on Steady-State Visual Evoked Potentials. Neural Processing Letters, 2010, 32, 1-9.	3.2	39

#	ARTICLE	IF	CITATIONS
19	AN AUDITORY BRAIN-COMPUTER INTERFACE WITH ACCURACY PREDICTION. International Journal of Neural Systems, 2012, 22, 1250009.	5.2	37
20	Separation of sources: A geometry-based procedure for reconstruction of n-valued signals. Signal Processing, 1995, 46, 267-284.	3.7	36
21	Customized stimulation enhances performance of independent binary SSVEP-BCIs. Clinical Neurophysiology, 2011, 122, 128-133.	1.5	36
22	Obtaining Fault Tolerant Multilayer Perceptrons Using an Explicit Regularization. Neural Processing Letters, 2000, 12, 107-113.	3.2	35
23	Improving the tolerance of multilayer perceptrons by minimizing the statistical sensitivity to weight deviations. Neurocomputing, 2000, 31, 87-103.	5.9	31
24	Online Global Learning in Direct Fuzzy Controllers. IEEE Transactions on Fuzzy Systems, 2004, 12, 218-229.	9.8	31
25	Using fuzzy logic to improve a clustering technique for function approximation. Neurocomputing, 2007, 70, 2853-2860.	5.9	28
26	Analysis of the operators involved in the definition of the implication functions and in the fuzzy inference process. International Journal of Approximate Reasoning, 1998, 19, 367-389.	3.3	27
27	A neural learning algorithm for blind separation of sources based on geometric properties. Signal Processing, 1998, 64, 315-331.	3.7	27
28	Analysis of the Functional Block Involved in the Design of Radial Basis Function Networks. Neural Processing Letters, 2000, 12, 1-17.	3.2	27
29	Asynchronous distributed genetic algorithms with Javascript and JSON. , 2008, , .		26
30	CMOS current-mode multivalued PLAs. IEEE Transactions on Circuits and Systems, 1991, 38, 434-441.	0.9	25
31	Analog CMOS implementation of a discrete time CNN with programmable cloning templates. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1993, 40, 215-218.	2.2	25
32	An adaptive geometrical procedure for blind separation of sources. Neural Processing Letters, 1995, 2, 23-27.	3.2	25
33	General Logarithmic Image Processing Convolution. IEEE Transactions on Image Processing, 2006, 15, 3602-3608.	9.8	25
34	Statistical analysis of the main parameters in the fuzzy inference process. Fuzzy Sets and Systems, 1999, 102, 157-173.	2.7	23
35	Statistical Characterization of Steady-State Visual Evoked Potentials and Their Use in Brain-Computer Interfaces. Neural Processing Letters, 2009, 29, 179-187.	3.2	21
36	Deploying intelligent e-health services in a mobile gateway. Expert Systems With Applications, 2013, 40, 1231-1239.	7.6	21

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37	New methodology for the development of adaptive and self-learning fuzzy controllers in real time. International Journal of Approximate Reasoning, 1999, 21, 109-136.	3.3	19
38	Current-mode analogue defuzzifier. Electronics Letters, 1993, 29, 743.	1.0	17
39	An Accurate Measure for Multilayer Perceptron Tolerance to Weight Deviations. Neural Processing Letters, 1999, 10, 121-130.	3.2	17
40	VLSI Implementation of a Neural Model Using Spikes. Analog Integrated Circuits and Signal Processing, 1997, 13, 111-121.	1.4	16
41	Multidimensional and multideme genetic algorithms for the construction of fuzzy systems. International Journal of Approximate Reasoning, 2001, 26, 179-210.	3.3	14
42	Test-pattern generation based on Reed-Muller coefficients. IEEE Transactions on Computers, 1993, 42, 968-980.	3.4	12
43	Title is missing!. Neural Processing Letters, 1998, 8, 55-65.	3.2	12
44	Bio-inspired systems: Computational and ambient intelligence. Neurocomputing, 2011, 74, 2591-2593.	5.9	11
45	Visualizing the evolution of a web-based social network. Journal of Network and Computer Applications, 2008, 31, 677-698.	9.1	10
46	Method for prediction of proteinâ€“protein interactions in yeast using genomics/proteomics information and feature selection. Neurocomputing, 2011, 74, 2683-2690.	5.9	10
47	Generalized Hopfield neural network for concurrent testing. IEEE Transactions on Computers, 1993, 42, 898-912.	3.4	9
48	Affinity-Based Network Interfaces for Efficient Communication on Multicore Architectures. Journal of Computer Science and Technology, 2013, 28, 508-524.	1.5	9
49	Focal-Plane and Multiple Chip VLSI Approaches to CNNs. Analog Integrated Circuits and Signal Processing, 1998, 15, 263-275.	1.4	8
50	Motion-Driven Segmentation by Competitive Neural Processing. Neural Processing Letters, 2005, 22, 125-147.	3.2	8
51	A low-power CMOS implementation of programmable CNN's with embedded photosensors. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 149-153.	0.1	7
52	Protocol offload analysis by simulation. Journal of Systems Architecture, 2009, 55, 25-42.	4.3	7
53	C.M.O.S. circuit for implementation of unary operators in ternary logic. Electronics Letters, 1980, 16, 161.	1.0	6
54	VLSI implementations of CNNs for image processing and vision tasks: single and multiple chip approaches. , 0, , .		6

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55	Area efficient implementations of fixed-template CNN's. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 968-973.	0.1	5
56	Network interfaces for programmable NICs and multicore platforms. Computer Networks, 2010, 54, 357-376.	5.1	5
57	Implementation of the unary operators in ternary logic : A universal CMOS circuit. International Journal of Electronics, 1982, 52, 307-311.	1.4	4
58	Geometric approach for blind separation of signals. Electronics Letters, 1997, 33, 835.	1.0	4
59	Parallel Coarse Grain Computing of Boltzmann Machines. Neural Processing Letters, 1998, 7, 169-184.	3.2	4
60	Design and evaluation of a reconfigurable digital architecture for self-organizing maps. , 0, , .		4
61	Design of active circuits with non-linear transfer characteristics. International Journal of Electronics, 1983, 54, 813-824.	1.4	3
62	Some improvements in the implementation of multithreshold and multivalued I2.L circuits. International Journal of Electronics, 1989, 66, 19-34.	1.4	3
63	Using Reedâ€™Muller coefficients to synthesise optimal prediction modules for concurrent testing. Electronics Letters, 1991, 27, 1243.	1.0	2
64	Compact CMOS fuzzy controllers using the normalised product of adaptive membership functions. Electronics Letters, 1997, 33, 221.	1.0	2
65	Optimization of web newspaper layout in real time. Computer Networks, 2001, 36, 311-321.	5.1	2
66	Numerical calculation of some potential distributions in non-linear dielectrics. Journal of Electrostatics, 1982, 13, 139-150.	1.9	1
67	Calculation of potential distribution in homogeneous anisotropic nonlinear dielectrics. Journal of Applied Physics, 1983, 54, 6610-6614.	2.5	1
68	Multithreshold logic circuits implemented with operational amplifiers. International Journal of Electronics, 1985, 58, 395-406.	1.4	1
69	Universal built-in self-test procedure for CMOS PLA's. IEEE Transactions on Circuits and Systems, 1991, 38, 941-945.	0.9	1
70	Implementation and applications of multivalued decoders. International Journal of Electronics, 1991, 70, 785-794.	1.4	1
71	Implementation of adaptable and hierarchical fuzzy T-norm. Electronics Letters, 1999, 35, 2150.	1.0	1
72	Competitive and Temporal Inhibition Structures with Spiking Neurons. Neural Processing Letters, 2000, 11, 197-208.	3.2	1

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73	New trends in computational intelligence. Neurocomputing, 2017, 250, 1-4.	5.9	1
74	Distribution of natural frequencies in electrical ladder networks. Proceedings of the IEEE, 1983, 71, 773-775.	21.3	0
75	Characterization and design of hybrid-mode CMOS circuits. International Journal of Electronics, 1991, 71, 591-607.	1.4	0
76	Self-Organization by Temporal Inhibition (SOTI). Neural Processing Letters, 2000, 12, 199-213.	3.2	0
77	Neural network for demixing super-Gaussian signals. Electronics Letters, 2000, 36, 1474.	1.0	0