JosÃ© M Jerez

List of Publications by Year
in descending order

65 papers	1,981 citations	304368 22 h-index	264894 42 g-index
71 all docs	71 docs citations	71 times ranked	2718 citing authors

#	Article	IF	Citations
1	Missing data imputation using statistical and machine learning methods in a real breast cancer problem. Artificial Intelligence in Medicine, 2010, 50, 105-115.	3.8	381
2	A combined neural network and decision trees model for prognosis of breast cancer relapse. Artificial Intelligence in Medicine, 2003, 27, 45-63.	3.8	184
3	Triple negative breast cancer subtypes and pathologic complete response rate to neoadjuvant chemotherapy. Oncotarget, 2018, 9, 26406-26416.	0.8	136
4	Improving classification accuracy using data augmentation on small data sets. Expert Systems With Applications, 2020, 161, 113696.	4.4	104
5	Pattern of recurrence of early breast cancer is different according to intrinsic subtype and proliferation index. Breast Cancer Research, 2013, 15, R98.	2.2	91
6	Forward Noise Adjustment Scheme for Data Augmentation. , 2018, , .		74
7	Neuronal selectivity, population sparseness, and ergodicity in the inferior temporal visual cortex. Biological Cybernetics, 2007, 96, 547-560.	0.6	73
8	A microRNA Signature Associated with Early Recurrence in Breast Cancer. PLoS ONE, 2014, 9, e91884.	1.1	72
9	Layer multiplexing FPGA implementation for deep back-propagation learning. Integrated Computer-Aided Engineering, 2017, 24, 171-185.	2.5	66
10	Efficient Implementation of the Backpropagation Algorithm in FPGAs and Microcontrollers. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1840-1850.	7.2	62
11	Transfer learning with convolutional neural networks for cancer survival prediction using gene-expression data. PLoS ONE, 2020, 15, e0230536.	1.1	60
12	Improvement of breast cancer relapse prediction in high risk intervals using artificial neural networks. Breast Cancer Research and Treatment, 2005, 94, 265-272.	1.1	53
13	A New Decomposition Algorithm for Threshold Synthesis and Generalization of Boolean Functions. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3188-3196.	3.5	38
14	Neural Network Architecture Selection: Can Function Complexity Help?. Neural Processing Letters, 2009, 30, 71-87.	2.0	37
15	FPGA Implementation of the C-Mantec Neural Network Constructive Algorithm. IEEE Transactions on Industrial Informatics, 2014, 10, 1154-1161.	7.2	36
16	Information in the first spike, the order of spikes, and the number of spikes provided by neurons in the inferior temporal visual cortex. Vision Research, 2006, 46, 4193-4205.	0.7	31
17	Optimal prediction of mortality after abdominal aortic aneurysm repair with statistical models. Journal of Vascular Surgery, 2006, 43, 467-473.e3.	0.6	29
18	C-Mantec: A novel constructive neural network algorithm incorporating competition between neurons. Neural Networks, 2012, 26, 130-140.	3.3	28

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19	Differential outcome of concurrent radiotherapy plus epidermal growth factor receptor inhibitors versus radiotherapy plus cisplatin in patients with human papillomavirus-related head and neck cancer. BMC Cancer, 2013, 13, 26.	1.1	28
20	Serum protein levels following surgery in breast cancer patients: A protein microarray approach. International Journal of Oncology, 2012, 41, 2200-2206.	1.4	25
21	Robust gene signatures from microarray data using genetic algorithms enriched with biological pathway keywords. Journal of Biomedical Informatics, 2014, 49, 32-44.	2.5	24
22	Application of genetic algorithms and constructive neural networks for the analysis of microarray cancer data. Theoretical Biology and Medical Modelling, 2014, 11, S7.	2.1	24
23	Smart sensor/actuator node reprogramming in changing environments using a neural network model. Engineering Applications of Artificial Intelligence, 2014, 30, 179-188.	4.3	23
24	Addressing critical issues in the development of an Oncology Information System. International Journal of Medical Informatics, 2013, 82, 398-407.	1.6	21
25	A self-organizing map to improve vehicle detection in flow monitoring systems. Soft Computing, 2015, 19, 2499-2509.	2.1	20
26	Constructive Neural Network Algorithms for Feedforward Architectures Suitable for Classification Tasks. Studies in Computational Intelligence, 2009, , 1-23.	0.7	18
27	Multiclass Pattern Recognition Extension for the New C-Mantec Constructive Neural Network Algorithm. Cognitive Computation, 2010, 2, 285-290.	3.6	18
28	High precision FPGA implementation of neural network activation functions. , 2014, , .		17
29	Male breast cancer: correlation between immunohistochemical subtyping and PAM50 intrinsic subtypes, and the subsequent clinical outcomes. Modern Pathology, 2018, 31, 299-306.	2.9	17
30	Computational Intelligence Techniques in Medicine. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-2.	0.7	14
31	A Neural Network Based Model for Prognosis of Early Breast Cancer. Applied Intelligence, 2004, 20, 231-238.	3.3	12
32	Machine learning and natural language processing (NLP) approach to predict early progression to first-line treatment in real-world hormone receptor-positive (HR+)/HER2-negative advanced breast cancer patients. European Journal of Cancer, 2021, 144, 224-231.	1.3	12
33	FPGA Hardware Acceleration of Monte Carlo Simulations for the Ising Model. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2618-2627.	4.0	11
34	Different Pathological Complete Response Rates According to PAM50 Subtype in HER2+ Breast Cancer Patients Treated With Neoadjuvant Pertuzumab/Trastuzumab vs. Trastuzumab Plus Standard Chemotherapy: An Analysis of Real-World Data. Frontiers in Oncology, 2019, 9, 1178.	1.3	10
35	Transformers for Clinical Coding in Spanish. IEEE Access, 2021, 9, 72387-72397.	2.6	9
36	Early Breast Cancer Prognosis Prediction and Rule Extraction Using a New Constructive Neural Network Algorithm. , 2007, , 1004-1011.		8

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37	Stable Neural Attractors Formation: Learning Rules and Network Dynamics. Neural Processing Letters, 2003, 18, 1-16.	2.0	7
38	Concurrent radiotherapy plus epidermal growth factor receptor inhibitors in patients with human papillomavirus-related head and neck cancer. Clinical and Translational Oncology, 2014, 16, 418-424.	1.2	7
39	A Transfer-Learning Approach to Feature Extraction from Cancer Transcriptomes with Deep Autoencoders. Lecture Notes in Computer Science, 2019, , 912-924.	1.0	7
40	PREDICTION OF CARBON MONOXIDE (CO) ATMOSPHERIC POLLUTION CONCENTRATIONS USING METEROLOGICAL VARIABLES. , 2017, , .		7
41	A Learning Rule to Model the Development of Orientation Selectivity in Visual Cortex. Neural Processing Letters, 2005, 21, 1-20.	2.0	5
42	Implementation of the C-Mantec Neural Network Constructive Algorithm in an Arduino Uno Microcontroller. Lecture Notes in Computer Science, 2013, , 80-87.	1.0	5
43	FPGA Implementation of Neurocomputational Models: Comparison Between Standard Back-Propagation and C-Mantec Constructive Algorithm. Neural Processing Letters, 2017, 46, 899-914.	2.0	5
44	Ocular surface characterization after allogeneic stem cell transplantation: A prospective study in a referral center. Indian Journal of Ophthalmology, 2020, 68, 1556.	0.5	5
45	WIMP: Web server tool for missing data imputation. Computer Methods and Programs in Biomedicine, 2012, 108, 1247-1254.	2.6	4
46	Supervised discretization can discover risk groups in cancer survival analysis. Computer Methods and Programs in Biomedicine, 2016, 136, 11-19.	2.6	4
47	Classification of high dimensional data using LASSO ensembles. , 2017, , .		4
48	Neural Network Architecture Selection: Size Depends on Function Complexity. Lecture Notes in Computer Science, 2006, , 122-129.	1.0	4
49	Active Learning Using a Constructive Neural Network Algorithm. Lecture Notes in Computer Science, 2008, , 803-811.	1.0	4
50	GAN-Based Data Augmentation forÂPrediction Improvement Using Gene Expression Data inÂCancer. Lecture Notes in Computer Science, 2022, , 28-42.	1.0	4
51	FPGA Implementation Comparison Between C-Mantec and Back-Propagation Neural Network Algorithms. Lecture Notes in Computer Science, 2015, , 197-208.	1.0	3
52	Improving learning and generalization capabilities of the C-Mantec constructive neural network algorithm. Neural Computing and Applications, 2020, 32, 8955-8963.	3.2	3
53	Deep neural networks architecture driven by problem-specific information. Neural Computing and Applications, 2021, 33, 9403-9423.	3.2	3
54	Active Learning Using a Constructive Neural Network Algorithm. Studies in Computational Intelligence, 2009, , 193-206.	0.7	3

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55	RealNet: a neural network architecture for real-time systems scheduling. Neural Computing and Applications, 2004, 13, 281-287.	3.2	2
56	The Generalization Complexity Measure for Continuous Input Data. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	2
57	$$L_1$$-regularization Model Enriched with Biological Knowledge. Lecture Notes in Computer Science, 2017, , 579-590.	1.0	2
58	Advanced Online Survival Analysis Tool for Predictive Modelling in Clinical Data Science. PLoS ONE, 2016, 11, e0161135.	1.1	1
59	Deep Neural Network Architecture Implementation on FPGAs Using a Layer Multiplexing Scheme. Advances in Intelligent Systems and Computing, 2016, , 79-86.	0.5	1
60	MetODeep: A Deep Learning Approach for Prediction of Methionine Oxidation Sites in Proteins. , 2019, , .		1
61	Extension of the Generalization Complexity Measure to Real Valued Input Data Sets. Lecture Notes in Computer Science, 2010, , 86-94.	1.0	0
62	MaxSet: An Algorithm for Finding a Good Approximation for the Largest Linearly Separable Set. Lecture Notes in Computer Science, 2007, , 648-656.	1.0	0
63	Use of q-values to Improve a Genetic Algorithm to Identify Robust Gene Signatures. Lecture Notes in Computer Science, 2015, , 199-206.	1.0	0
64	Thermal comfort estimation using a neurocomputational model. , 2016, , .		0
65	Solving Scheduling Problems with Genetic Algorithms Using a Priority Encoding Scheme. Lecture Notes in Computer Science, 2017, , 52-61.	1.0	0