Jesús González

List of Publications by Year in descending order

106 papers	1,323 citations	331670 21 h-index	377865 34 g-index
113 all docs	113 docs citations	113 times ranked	1069 citing authors

#	Article	IF	Citations
1	Unified electrical model for the contact regions of staggered Thin Film Transistors. Organic Electronics, 2021, 92, 106129.	2.6	3
2	(Invited) Versatile Compact Model and Evolutionary Parameter Extraction Method for Organic Thin-Film Transistors. ECS Meeting Abstracts, 2021, MA2021-01, 1066-1066.	0.0	0
3	A lexicographic cooperative co-evolutionary approach for feature selection. Neurocomputing, 2021, 463, 59-76.	5.9	5
4	Recurrent Neural Networks and Efficiency in High-Dimensional EEG Classification. Lecture Notes in Computer Science, 2021, , 297-310.	1.3	0
5	Versatile model for the contact region of organic thin-film transistors. Organic Electronics, 2020, 77, 105523.	2.6	4
6	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. PLoS ONE, 2020, 15, e0234178.	2.5	45
7	Cost-Efficiency of Convolutional Neural Networks for High-Dimensional EEG Classification. Lecture Notes in Computer Science, 2020, , 774-785.	1.3	0
8	A parallel and distributed multi-population GA with asynchronous migrations. , 2020, , .		0
9	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
10	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
11	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
12	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
13	Time-energy analysis of multilevel parallelism in heterogeneous clusters: the case of EEG classification in BCI tasks. Journal of Supercomputing, 2019, 75, 3397-3425.	3.6	4
14	Distributed multi-objective evolutionary optimization using island-based selective operator application. Applied Soft Computing Journal, 2019, 85, 105757.	7.2	6
15	Evolutionary Computation for Parameter Extraction of Organic Thin-Film Transistors Using Newly Synthesized Liquid Crystalline Nickel Phthalocyanine. Micromachines, 2019, 10, 683.	2.9	3
16	A new multi-objective wrapper method for feature selection â€" Accuracy and stability analysis for BCI. Neurocomputing, 2019, 333, 407-418.	5.9	92
17	Compact modeling of the effects of illumination on the contact region of organic phototransistors. Organic Electronics, 2019, 70, 113-121.	2.6	4
18	Energyâ€aware load balancing of parallel evolutionary algorithms with heavy fitness functions in heterogeneous CPUâ€GPU architectures. Concurrency Computation Practice and Experience, 2019, 31, e4688.	2.2	7

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19	Many-Objective Cooperative Co-evolutionary Feature Selection: A Lexicographic Approach. Lecture Notes in Computer Science, 2019, , 463-474.	1.3	2
20	(Invited) Evolutionary Parameter Extraction for Organic TFT Compact Models Including Contact Effects. ECS Meeting Abstracts, 2019, , .	0.0	0
21	Classification of Breast Cancer Histopathological Images Using KAZE Features. Lecture Notes in Computer Science, 2018, , 276-286.	1.3	18
22	Speedup and Energy Analysis of EEG Classification for BCI Tasks on CPU-GPU Clusters. , 2018, , .		1
23	A Powerâ€"Performance Perspective to Multiobjective Electroencephalogram Feature Selection on Heterogeneous Parallel Platforms. Journal of Computational Biology, 2018, 25, 882-893.	1.6	1
24	Multi-objective feature selection for EEG classification with multi-level parallelism on heterogeneous CPU-GPU clusters. , 2018, , .		3
25	Prediction of energy consumption in a NSGA-II-based evolutionary algorithm. , 2018, , .		0
26	Evolutionary parameter extraction for an organic TFT compact model including contact effects. Organic Electronics, 2018, 61, 242-253.	2.6	11
27	Issues on GPU Parallel Implementation of Evolutionary High-Dimensional Multi-objective Feature Selection. Lecture Notes in Computer Science, 2017, , 773-788.	1.3	3
28	Parallel high-dimensional multi-objective feature selection for EEG classification with dynamic workload balancing on CPUâ€"GPU architectures. Cluster Computing, 2017, 20, 1881-1897.	5.0	10
29	Power-Performance Evaluation of Parallel Multi-objective EEG Feature Selection on CPU-GPU Platforms. Lecture Notes in Computer Science, 2017, , 580-590.	1.3	2
30	Statistical Analysis of the Main Configuration Parameters of the Network Dynamic and Adaptive Radio Protocol (DARP). Sensors, 2017, 17, 1502.	3.8	1
31	mDARAL: A Multi-Radio Version for the DARAL Routing Algorithm. Sensors, 2017, 17, 324.	3.8	2
32	Improving Memory Accesses for Heterogeneous Parallel Multi-objective Feature Selection on EEG Classification. Lecture Notes in Computer Science, 2017, , 372-383.	1.3	5
33	DARAL: A Dynamic and Adaptive Routing Algorithm for Wireless Sensor Networks. Sensors, 2016, 16, 960.	3.8	8
34	Studying the effect of population size in distributed evolutionary algorithms on heterogeneous clusters. Applied Soft Computing Journal, 2016, 38, 530-547.	7.2	7
35	Addressing High Dimensional Multi-objective Optimization Problems by Coevolutionary Islands with Overlapping Search Spaces. Lecture Notes in Computer Science, 2016, , 107-117.	1.3	3
36	Fine-Tuning the DARP Wireless Sensor Routing Protocol. Lecture Notes in Computer Science, 2016, , 193-204.	1.3	0

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37	Enabling Validation of IEEE 802.15.4 Performance through a New Dual-Radio Omnet++ Model. Elektronika Ir Elektrotechnika, 2016, 22, .	0.8	3
38	DARP: dynamic and adaptive radio protocol for wireless sensor networks. Electronics Letters, 2014, 50, 122-123.	1.0	4
39	Tree Depth Influence in Genetic Programming for Generation of Competitive Agents for RTS Games. Lecture Notes in Computer Science, 2014, , 411-421.	1.3	7
40	Service oriented evolutionary algorithms. Soft Computing, 2013, 17, 1059-1075.	3.6	21
41	The Use of Video-Gaming Devices as a Motivation for Learning Embedded Systems Programming. IEEE Transactions on Education, 2013, 56, 199-207.	2.4	9
42	Deploying intelligent e-health services in a mobile gateway. Expert Systems With Applications, 2013, 40, 1231-1239.	7.6	21
43	Identification of saccadic components in spinocerebellar ataxia applying an independent component analysis algorithm. Neurocomputing, 2013, 121, 53-63.	5.9	1
44	Developing services in a service oriented architecture for evolutionary algorithms. , 2013, , .		3
45	Preface to the special issue on: Emerging Applications of Embedded Systems Research. Journal of Systems Architecture, 2011, 57, 867-868.	4.3	0
46	Context-Awareness in a Service Oriented e-Health Platform. Lecture Notes in Computer Science, 2011, , 172-179.	1.3	1
47	Pulse Component Modification Detection in Spino Cerebellar Ataxia 2 Using ICA. Lecture Notes in Computer Science, 2011, , 323-328.	1.3	0
48	Local-global neuro-fuzzy system for color change modelling. International Journal of Hybrid Intelligent Systems, 2010, 7, 299-311.	1.2	1
49	Predicting marital dissolutions using radial basis function neural networks. , 2010, , .		4
50	Evolution of XPath Lists for Document Data Selection. , 2010, , 341-350.		0
51	Modifications in saccadic pulse and step components in Cuban ataxia SCA2 patients. International Journal of Psychophysiology, 2010, 77, 249-250.	1.0	2
52	Applying independent component analysis to the evaluation of saccadic waveform changes in patients of spino cerebellar ataxia (SCA-2). International Journal of Psychophysiology, 2010, 77, 250-250.	1.0	0
53	A Distributed Service Oriented Framework for Metaheuristics Using a Public Standard. Studies in Computational Intelligence, 2010, , 211-222.	0.9	9
54	Parallel multiobjective memetic RBFNNs design and feature selection for function approximation problems. Neurocomputing, 2009, 72, 3541-3555.	5.9	35

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55	A Data Mining Approach Based on a Local-Global Fuzzy Modelling for Prediction of Color Change after Tooth Bleaching Using Vita Classical Shades. , 2009, , .		2
56	Independent Component Analysis Aided Diagnosis of Cuban Spino Cerebellar Ataxia 2. Lecture Notes in Computer Science, 2009, , 259-266.	1.3	0
57	Using UN/CEFACTâ€™S Modelling Methodology (UMM) in e-Health Projects. Lecture Notes in Computer Science, 2009, , 925-932.	1.3	0
58	A New Multiobjective RBFNNs Designer and Feature Selector for a Mineral Reduction Application. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	0
59	Improving the accuracy while preserving the interpretability of fuzzy function approximators by means of multi-objective evolutionary algorithms. International Journal of Approximate Reasoning, 2007, 44, 32-44.	3.3	36
60	Using fuzzy logic to improve a clustering technique for function approximation. Neurocomputing, 2007, 70, 2853-2860.	5.9	28
61	Multigrid-based fuzzy systems for time series prediction: CATS competition. Neurocomputing, 2007, 70, 2410-2425.	5.9	13
62	Output value-based initialization for radial basis function neural networks. Neural Processing Letters, 2007, 25, 209-225.	3.2	26
63	Studying possibility in a clustering algorithm for RBFNN design for function approximation. Neural Computing and Applications, 2007, 17, 75-89.	5.6	22
64	Parallel Multi-objective Memetic RBFNNs Design and Feature Selection for Function Approximation Problems. , 2007, , 341-350.		2
65	Boosting the Performance of a Multiobjective Algorithm to Design RBFNNs Through Parallelization. Lecture Notes in Computer Science, 2007, , 85-92.	1.3	2
66	General Logarithmic Image Processing Convolution. IEEE Transactions on Image Processing, 2006, 15, 3602-3608.	9.8	25
67	Adaptive fuzzy controller: Application to the control of the temperature of a dynamic room in real time. Fuzzy Sets and Systems, 2006, 157, 2241-2258.	2.7	44
68	Multi-objective evolution of fuzzy systems. Soft Computing, 2006, 10, 735-748.	3.6	8
69	Supervised RBFNN Centers and Radii Initialization for Function Approximation Problems. , 2006, , .		3
70	Multiobjective RBFNNs Designer for Function Approximation: An Application for Mineral Reduction. Lecture Notes in Computer Science, 2006, , 511-520.	1.3	5
71	New Technique for Initialization of Centres in TSK Clustering-Based Fuzzy Systems. Lecture Notes in Computer Science, 2005, , 980-991.	1.3	0
72	Approximating I/O Data Using Radial Basis Functions: A New Clustering-Based Approach. Lecture Notes in Computer Science, 2005, , 289-296.	1.3	0

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73	Designing a Fast Convolution Under the LIP Paradigm Applied to Edge Detection. Lecture Notes in Computer Science, 2005, , 560-569.	1.3	5
74	Interpretable Rule Extraction and Function Approximation from Numerical Input/Output Data Using the Modified Fuzzy TSK Model, TaSe Model. Lecture Notes in Computer Science, 2005, , 402-411.	1.3	1
75	Online Global Learning in Direct Fuzzy Controllers. IEEE Transactions on Fuzzy Systems, 2004, 12, 218-229.	9.8	31
76	Function Approximation through Fuzzy Systems Using Taylor Series Expansion-Based Rules: Interpretability and Parameter Tuning. Lecture Notes in Computer Science, 2004, , 508-516.	1.3	2
77	The Synergy between Classical and Soft-Computing Techniques for Time Series Prediction. Lecture Notes in Computer Science, 2004, , 30-39.	1.3	5
78	Assessing the Noise Immunity and Generalization of Radial Basis Function Networks. Neural Processing Letters, 2003, 18, 35-48.	3.2	21
79	Multiobjective evolutionary optimization of the size, shape, and position parameters of radial basis function networks for function approximation. IEEE Transactions on Neural Networks, 2003, 14, 1478-1495.	4.2	168
80	Performance of Message-Passing MATLAB Toolboxes. Lecture Notes in Computer Science, 2003, , 228-242.	1.3	6
81	Automatic Construction of Fuzzy Rule-Based Systems: A trade-off between complexity and accuracy maintaining interpretability. Studies in Fuzziness and Soft Computing, 2003, , 193-219.	0.8	1
82	Studying the Convergence of the CFA Algorithm. Lecture Notes in Computer Science, 2003, , 550-557.	1.3	1
83	Designing a Phenotypic Distance Index for Radial Basis Function Neural Networks. Lecture Notes in Computer Science, 2003, , 454-461.	1.3	0
84	Application of Artificial Aging Techniques to Samples of Rum and Comparison with Traditionally Aged Rums by Analysis with Artificial Neural Nets. Journal of Agricultural and Food Chemistry, 2002, 50, 1470-1477.	5.2	24
85	A new clustering technique for function approximation. IEEE Transactions on Neural Networks, 2002, 13, 132-142.	4.2	105
86	Structure identification in complete rule-based fuzzy systems. IEEE Transactions on Fuzzy Systems, 2002, 10, 349-359.	9.8	47
87	Statistical analysis of the main parameters involved in the design of a genetic algorithm. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2002, 32, 31-37.	2.9	83
88	Web newspaper layout optimization using simulated annealing. IEEE Transactions on Systems, Man, and Cybernetics, 2002, 32, 686-691.	5.0	25
89	A two-stage approach to self-learning direct fuzzy controllers. International Journal of Approximate Reasoning, 2002, 29, 267-289.	3.3	24
90	Neural Networks, Clustering Techniques, and Function Approximation Problems. Lecture Notes in Computer Science, 2002, , 553-558.	1.3	4

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91	Evolutionary Training of Neuro-fuzzy Patches for Function Approximation. Lecture Notes in Computer Science, 2002, , 559-564.	1.3	0
92	Evolutive Identification of Fuzzy Systems for Time-Series Prediction. Lecture Notes in Computer Science, 2002, , 517-526.	1.3	2
93	Multidimensional and multideme genetic algorithms for the construction of fuzzy systems. International Journal of Approximate Reasoning, 2001, 26, 179-210.	3.3	14
94	Optimization of web newspaper layout in real time. Computer Networks, 2001, 36, 311-321.	5.1	2
95	A Novel Approach to Self-Adaptation of Neuro-Fuzzy Controllers in Real Time. Lecture Notes in Computer Science, 2001, , 530-537.	1.3	0
96	Assesing the Noise Immunity of Radial Basis Function Neural Networks. Lecture Notes in Computer Science, 2001, , 136-143.	1.3	2
97	Analysis of the Functional Block Involved in the Design of Radial Basis Function Networks. Neural Processing Letters, 2000, 12, 1-17.	3.2	27
98	SHORT-TERM PREDICTION OF CHAOTIC TIME SERIES BY USING RBF NETWORK WITH REGRESSION WEIGHTS. International Journal of Neural Systems, 2000, 10, 353-364.	5.2	10
99	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
100	SA-prop: Optimization of multilayer perceptron parameters using simulated annealing. Lecture Notes in Computer Science, 1999, , 661-670.	1.3	14
101	G-Prop-II: global optimization of multilayer perceptrons using GAs. , 0, , .		7
102	Multigrid-based fuzzy systems for time series prediction: CATS competition. , 0, , .		1
103	Fine control of monotonic systems using a global self-learning adaptive fuzzy controller. , 0, , .		0
104	Self-adaptive robot control using fuzzy logic. , 0, , .		1
105	Soft-computing techniques for the development of adaptive helicopter flight controller. , 0, , .		0
106	Understanding Power Quality using IoT-based Smart Analyzers and Advanced Software Tools. Renewable Energy and Power Quality Journal, 0, 19, 356-361.	0.2	0