

Julio Ortega

List of Publications by Year in descending order

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125
papers

2,324
citations

331538

21
h-index

243529

44
g-index

131
all docs

131
docs citations

131
times ranked

1984
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural networks: An overview of early research, current frameworks and new challenges. <i>Neurocomputing</i> , 2016, 214, 242-268.	3.5	217
2	Multiobjective evolutionary optimization of the size, shape, and position parameters of radial basis function networks for function approximation. <i>IEEE Transactions on Neural Networks</i> , 2003, 14, 1478-1495.	4.8	168
3	Feature selection by multi-objective optimisation: Application to network anomaly detection by hierarchical self-organising maps. <i>Knowledge-Based Systems</i> , 2014, 71, 322-338.	4.0	150
4	PCA filtering and probabilistic SOM for network intrusion detection. <i>Neurocomputing</i> , 2015, 164, 71-81.	3.5	141
5	Self-organized fuzzy system generation from training examples. <i>IEEE Transactions on Fuzzy Systems</i> , 2000, 8, 23-36.	6.5	125
6	A hybrid meta-heuristic for multi-objective vehicle routing problems with time windows. <i>Computers and Industrial Engineering</i> , 2013, 65, 286-296.	3.4	118
7	A new clustering technique for function approximation. <i>IEEE Transactions on Neural Networks</i> , 2002, 13, 132-142.	4.8	105
8	A Simulated Annealing-based parallel multi-objective approach to vehicle routing problems with time windows. <i>Expert Systems With Applications</i> , 2013, 40, 1696-1707.	4.4	101
9	A new multi-objective wrapper method for feature selection " Accuracy and stability analysis for BCI. <i>Neurocomputing</i> , 2019, 333, 407-418.	3.5	92
10	A systematic approach to a self-generating fuzzy rule-table for function approximation. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2000, 30, 431-447.	5.5	91
11	A single front genetic algorithm for parallel multi-objective optimization in dynamic environments. <i>Neurocomputing</i> , 2009, 72, 3570-3579.	3.5	69
12	Improved RAN sequential prediction using orthogonal techniques. <i>Neurocomputing</i> , 2001, 41, 153-172.	3.5	48
13	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. <i>PLoS ONE</i> , 2020, 15, e0234178.	1.1	45
14	Accelerating OpenFlow switching with network processors. , 2009, , .		40
15	Parallel alternatives for evolutionary multi-objective optimization in unsupervised feature selection. <i>Expert Systems With Applications</i> , 2015, 42, 4239-4252.	4.4	38
16	Obtaining Fault Tolerant Multilayer Perceptrons Using an Explicit Regularization. <i>Neural Processing Letters</i> , 2000, 12, 107-113.	2.0	35
17	Parallel Processing for Multi-objective Optimization in Dynamic Environments. , 2007, , .		30
18	Dyslexia Diagnosis by EEG Temporal and Spectral Descriptors: An Anomaly Detection Approach. <i>International Journal of Neural Systems</i> , 2020, 30, 2050029.	3.2	28

#	ARTICLE	IF	CITATIONS
19	A Hybrid Meta-Heuristic for Multi-Objective Optimization: MOSATS. <i>Mathematical Modelling and Algorithms</i> , 2007, 6, 213-230.	0.5	27
20	Network Anomaly Classification by Support Vector Classifiers Ensemble and Non-linear Projection Techniques. <i>Lecture Notes in Computer Science</i> , 2013, , 103-111.	1.0	27
21	Classification of motor imagery tasks for BCI with multiresolution analysis and multiobjective feature selection. <i>BioMedical Engineering OnLine</i> , 2016, 15, 73.	1.3	27
22	Analog CMOS implementation of a discrete time CNN with programmable cloning templates. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1993, 40, 215-218.	2.3	25
23	A Parallel Multilevel Metaheuristic for Graph Partitioning. <i>Journal of Heuristics</i> , 2004, 10, 315-336.	1.1	25
24	A new hybrid methodology for cooperative-coevolutionary optimization of radial basis function networks. <i>Soft Computing</i> , 2007, 11, 655-668.	2.1	24
25	A Mixed Heuristic for Circuit Partitioning. <i>Computational Optimization and Applications</i> , 2002, 23, 321-340.	0.9	23
26	Multilevel Heuristic Algorithm for Graph Partitioning. <i>Lecture Notes in Computer Science</i> , 2003, , 143-153.	1.0	22
27	Approaching Dynamic Multi-Objective Optimization Problems by Using Parallel Evolutionary Algorithms. <i>Studies in Computational Intelligence</i> , 2010, , 63-86.	0.7	22
28	Assessing the Noise Immunity and Generalization of Radial Basis Function Networks. <i>Neural Processing Letters</i> , 2003, 18, 35-48.	2.0	21
29	Comparison of parallel multi-objective approaches to protein structure prediction. <i>Journal of Supercomputing</i> , 2011, 58, 253-260.	2.4	18
30	Analysis of OpenMP and MPI implementations of meta-heuristics for vehicle routing problems. <i>Applied Soft Computing Journal</i> , 2016, 43, 262-275.	4.1	18
31	Solution of switching equations based on a tabular algebra. <i>IEEE Transactions on Computers</i> , 1993, 42, 591-596.	2.4	17
32	An Accurate Measure for Multilayer Perceptron Tolerance to Weight Deviations. <i>Neural Processing Letters</i> , 1999, 10, 121-130.	2.0	17
33	PITAGORAS-PSP: Including domain knowledge in a multi-objective approach for protein structure prediction. <i>Neurocomputing</i> , 2011, 74, 2675-2682.	3.5	15
34	Optimization of Deep Architectures for EEG Signal Classification: An AutoML Approach Using Evolutionary Algorithms. <i>Sensors</i> , 2021, 21, 2096.	2.1	15
35	Evolutionary Algorithms for Multiobjective and Multimodal Optimization of Diagnostic Schemes. <i>IEEE Transactions on Biomedical Engineering</i> , 2006, 53, 178-189.	2.5	13
36	Ant Colony Optimization for Water Distribution Network Design: A Comparative Study. <i>Lecture Notes in Computer Science</i> , 2011, , 300-307.	1.0	12

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37	Performance Measures for Dynamic Multi-Objective Optimization. Lecture Notes in Computer Science, 2009, , 760-767.	1.0	11
38	Method for prediction of proteinâ€“protein interactions in yeast using genomics/proteomics information and feature selection. Neurocomputing, 2011, 74, 2683-2690.	3.5	10
39	Leveraging cooperation for parallel multiâ€“objective feature selection in highâ€“dimensional EEG data. Concurrency Computation Practice and Experience, 2015, 27, 5476-5499.	1.4	10
40	Parallel high-dimensional multi-objective feature selection for EEG classification with dynamic workload balancing on CPUâ€“GPU architectures. Cluster Computing, 2017, 20, 1881-1897.	3.5	10
41	Parallel VLSI test in a shared-memory multiprocessor. Concurrency and Computation: Practice and Experience, 2000, 12, 311-326.	0.6	9
42	Protocol Offload Evaluation Using Simics. , 2006, , .		9
43	Affinity-Based Network Interfaces for Efficient Communication on Multicore Architectures. Journal of Computer Science and Technology, 2013, 28, 508-524.	0.9	9
44	Feature selection in high-dimensional EEG data by parallel multi-objective optimization. , 2014, , .		9
45	Parallel combinatorial optimization with evolutionary cooperation between processors. , 0, , .		8
46	Two-level Hash/Table approach for metadata management in distributed file systems. Journal of Supercomputing, 2013, 64, 144-155.	2.4	8
47	Algebraic test-pattern generation based on the Reedâ€“Muller spectrum. IEE Proceedings: Computers and Digital Techniques, 1998, 145, 308.	1.6	7
48	Protocol offload analysis by simulation. Journal of Systems Architecture, 2009, 55, 25-42.	2.5	7
49	A Pareto-based memetic algorithm for optimization of looped water distribution systems. Engineering Optimization, 2010, 42, 223-240.	1.5	7
50	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.	1.4	7
51	SSA, SVD, QR-cp, and RBF Model Reduction. Lecture Notes in Computer Science, 2002, , 589-594.	1.0	7
52	A New Offloaded/Onloaded Network Interface for High Performance Communication. , 2009, , .		6
53	System performance evaluation by combining RTC and VHDL simulation: A case study on NICs. Journal of Systems Architecture, 2013, 59, 1277-1298.	2.5	6
54	Multi-objective Optimization Evolutionary Algorithms Applied to Paroxysmal Atrial Fibrillation Diagnosis Based on the k-Nearest Neighbours Classifier. Lecture Notes in Computer Science, 2002, , 313-318.	1.0	6

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55	Performance of Message-Passing MATLAB Toolboxes. Lecture Notes in Computer Science, 2003, , 228-242.	1.0	6
56	Nondeterministic AND-EXOR minimisation by using rewrite rules and simulated annealing. IEE Proceedings: Computers and Digital Techniques, 1999, 146, 1.	1.6	6
57	Component-Based Derivation of a Parallel Stiff ODE Solver Implemented in a Cluster of Computers. International Journal of Parallel Programming, 2002, 30, 99-148.	1.1	5
58	XMLP: a Feed-Forward Neural Network with Two-Dimensional Layers and Partial Connectivity. Lecture Notes in Computer Science, 2003, , 89-96.	1.0	5
59	Network interfaces for programmable NICs and multicore platforms. Computer Networks, 2010, 54, 357-376.	3.2	5
60	High-throughput multi-multicast transfers in data center networks. Journal of Supercomputing, 2017, 73, 152-163.	2.4	5
61	A lexicographic cooperative co-evolutionary approach for feature selection. Neurocomputing, 2021, 463, 59-76.	3.5	5
62	Improving Memory Accesses for Heterogeneous Parallel Multi-objective Feature Selection on EEG Classification. Lecture Notes in Computer Science, 2017, , 372-383.	1.0	5
63	Deep Belief Networks and Multiobjective Feature Selection for BCI with Multiresolution Analysis. Lecture Notes in Computer Science, 2017, , 28-39.	1.0	5
64	Parallel Coarse Grain Computing of Boltzmann Machines. Neural Processing Letters, 1998, 7, 169-184.	2.0	4
65	On-line optimization of radial basis function networks with orthogonal techniques. Lecture Notes in Computer Science, 1999, , 467-477.	1.0	4
66	Parallel single front genetic algorithm: performance analysis in a cluster system. , 0, , .		4
67	Comparison of Onloading and Offloading Strategies to Improve Network Interfaces. , 2008, , .		4
68	A Multi-Threaded Network Interface Using Network Processors. , 2009, , .		4
69	A Label-Aided Filter Method for Multi-objective Feature Selection in EEG Classification for BCI. Lecture Notes in Computer Science, 2015, , 133-144.	1.0	4
70	Time-energy analysis of multilevel parallelism in heterogeneous clusters: the case of EEG classification in BCI tasks. Journal of Supercomputing, 2019, 75, 3397-3425.	2.4	4
71	Modeling Network Behaviour By Full-System Simulation. Journal of Software, 2007, 2, .	0.6	4
72	An efficient OS support for communication on Linux clusters. , 0, , .		3

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73	Parallel dynamic water supply scheduling in a cluster of computers. Concurrency Computation Practice and Experience, 2001, 13, 1281-1302.	1.4	3
74	Genetic algorithm approach to nonlinear blind source separation. , 0, , .		3
75	A parallel evolutionary algorithm for circuit partitioning. , 2003, , .		3
76	The lightweight protocol CLIC on Gigabit Ethernet. , 0, , .		3
77	Comparing Real-Time Calculus with the existing analytical approaches for the performance evaluation of network interfaces. , 2011, , .		3
78	Issues on GPU Parallel Implementation of Evolutionary High-Dimensional Multi-objective Feature Selection. Lecture Notes in Computer Science, 2017, , 773-788.	1.0	3
79	Multi-objective feature selection for EEG classification with multi-level parallelism on heterogeneous CPU-GPU clusters. , 2018, , .		3
80	Non-invasive Atrial Disease Diagnosis Using Decision Rules: A Multi-objective Optimization Approach. Lecture Notes in Computer Science, 2003, , 638-647.	1.0	3
81	Evolutionary Multiobjective Feature Selection in Multiresolution Analysis for BCI. Lecture Notes in Computer Science, 2015, , 347-359.	1.0	3
82	Addressing High Dimensional Multi-objective Optimization Problems by Coevolutionary Islands with Overlapping Search Spaces. Lecture Notes in Computer Science, 2016, , 107-117.	1.0	3
83	Method for Prediction of Protein-Protein Interactions in Yeast Using Genomics/Proteomics Information and Feature Selection. Lecture Notes in Computer Science, 2009, , 853-860.	1.0	3
84	The Parallel Single Front Genetic Algorithm (PSFGA) in Dynamic Multi-objective Optimization. Lecture Notes in Computer Science, 2007, , 300-307.	1.0	3
85	A modified backpropagation algorithm to tolerate weight errors. Lecture Notes in Computer Science, 1997, , 763-771.	1.0	2
86	Application of ANOVA to a Cooperative-Coevolutionary Optimization of RBFNs. Lecture Notes in Computer Science, 2005, , 297-305.	1.0	2
87	Analyzing the benefits of protocol offload by full-system simulation. , 2007, , .		2
88	Fault tolerant PVFS2 based on data replication. , 2010, , .		2
89	Improving IPS by network processors. Journal of Supercomputing, 2011, 57, 99-108.	2.4	2
90	Evaluation of redundant data storage in clusters based on multi-multicast and local storage. Journal of Supercomputing, 2017, 73, 576-590.	2.4	2

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91	New Method for Filtered ICA Signals Applied To Volatile Time Series.. Lecture Notes in Computer Science, 2003, , 433-440.	1.0	2
92	Many-Objective Cooperative Co-evolutionary Feature Selection: A Lexicographic Approach. Lecture Notes in Computer Science, 2019, , 463-474.	1.0	2
93	A Hybrid Scheme to Solve the Protein Structure Prediction Problem. Advances in Intelligent and Soft Computing, 2010, , 233-240.	0.2	2
94	Network Anomaly Detection with Bayesian Self-Organizing Maps. Lecture Notes in Computer Science, 2013, , 530-537.	1.0	2
95	Assesing the Noise Immunity of Radial Basis Function Neural Networks. Lecture Notes in Computer Science, 2001, , 136-143.	1.0	2
96	A New Scalable Approach for Distributed Metadata in HPC. Lecture Notes in Computer Science, 2016, , 106-117.	1.0	2
97	A Parallel Island Approach to Multiobjective Feature Selection for Brain-Computer Interfaces. Lecture Notes in Computer Science, 2017, , 16-27.	1.0	2
98	Parallel test pattern generation using circuit partitioning in a shared-memory multiprocessor. Lecture Notes in Computer Science, 1998, , 167-171.	1.0	1
99	Client cache for PVFS2. , 2010, , .		1
100	Accelerating network applications by distributed interfaces on heterogeneous multiprocessor architectures. Journal of Supercomputing, 2011, 58, 302-313.	2.4	1
101	Leveraging bandwidth improvements to web servers through enhanced network interfaces. Journal of Supercomputing, 2013, 65, 1020-1036.	2.4	1
102	Speedup and Energy Analysis of EEG Classification for BCI Tasks on CPU-GPU Clusters. , 2018, , .		1
103	A Power&Performance Perspective to Multiobjective Electroencephalogram Feature Selection on Heterogeneous Parallel Platforms. Journal of Computational Biology, 2018, 25, 882-893.	0.8	1
104	Multiprotocol Authentication Device for HPC and Cloud Environments Based on Elliptic Curve Cryptography. Electronics (Switzerland), 2020, 9, 1148.	1.8	1
105	Paroxysmal Atrial Fibrillation Prediction Application Using Genetic Algorithms. Lecture Notes in Computer Science, 2003, , 1011-1019.	1.0	1
106	A New Pareto-Based Algorithm for Multi-objective Graph Partitioning. Lecture Notes in Computer Science, 2004, , 779-788.	1.0	1
107	Performance Analysis of Parallel Strategies for Bi-objective Network Partitioning. Advances in Intelligent and Soft Computing, 2006, , 291-300.	0.2	1
108	Studying the Convergence of the CFA Algorithm. Lecture Notes in Computer Science, 2003, , 550-557.	1.0	1

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109	Comparison of Frameworks for Parallel Multiobjective Evolutionary Optimization in Dynamic Problems. <i>Studies in Computational Intelligence</i> , 2012, , 101-123.	0.7	1
110	Modified Boltzmann machine for an efficient distributed implementation. <i>Lecture Notes in Computer Science</i> , 1997, , 1221-1232.	1.0	0
111	Improving Dynamic Web Servers by Affinity-Based Network Interfaces. , 2011, , .		0
112	Energy-Time Analysis of Convolutional Neural Networks Distributed on Heterogeneous Clusters for EEG Classification. <i>Lecture Notes in Computer Science</i> , 2019, , 895-907.	1.0	0
113	Recurrent Neural Networks and Efficiency in High-Dimensional EEG Classification. <i>Lecture Notes in Computer Science</i> , 2021, , 297-310.	1.0	0
114	Hybrid Framework for Neuro-Dynamic Programming Application to Water Supply Networks. <i>Lecture Notes in Computer Science</i> , 2001, , 719-727.	1.0	0
115	Analyzing Boltzmann Machine Parameters for Fast Convergence. <i>Lecture Notes in Computer Science</i> , 2001, , 144-151.	1.0	0
116	Designing a Phenotypic Distance Index for Radial Basis Function Neural Networks. <i>Lecture Notes in Computer Science</i> , 2003, , 454-461.	1.0	0
117	Synthesis of Hybrid CBL/CMOS Cell Using Multiobjective Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2005, , 629-637.	1.0	0
118	Improving the Performance of Bandwidth-Demanding Applications by a Distributed Network Interface. <i>Lecture Notes in Computer Science</i> , 2009, , 462-465.	1.0	0
119	Protein Structure Prediction by Evolutionary Multi-objective Optimization: Search Space Reduction by Using Rotamers. <i>Lecture Notes in Computer Science</i> , 2009, , 861-868.	1.0	0
120	Parallel Cooperation for Large-Scale Multiobjective Optimization on Feature Selection Problems. <i>Lecture Notes in Computer Science</i> , 2015, , 693-705.	1.0	0
121	Adapting Multi-Objective Meta-Heuristics for Graph Partitioning. , 2006, , 123-132.		0
122	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
123	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
124	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0
125	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. , 2020, 15, e0234178.		0