

Julio Ortega

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

1,720
citations

20
h-index

39
g-index

131
ext. papers

2,022
ext. citations

2.2
avg, IF

4.6
L-index

#	Paper	IF	Citations
128	Energy-Time Profiling for Machine Learning Methods to EEG Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 311-322	0.9	
127	Recurrent Neural Networks and Efficiency in High-Dimensional EEG Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 297-310	0.9	
126	Performance Study of Ant Colony Optimization for Feature Selection in EEG Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 323-336	0.9	
125	Optimization of Deep Architectures for EEG Signal Classification: An AutoML Approach Using Evolutionary Algorithms. <i>Sensors</i> , 2021 , 21,	3.8	2
124	A lexicographic cooperative co-evolutionary approach for feature selection. <i>Neurocomputing</i> , 2021 , 463, 59-76	5.4	0
123	Dyslexia Diagnosis by EEG Temporal and Spectral Descriptors: An Anomaly Detection Approach. <i>International Journal of Neural Systems</i> , 2020 , 30, 2050029	6.2	8
122	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. <i>PLoS ONE</i> , 2020 , 15, e0234178	3.7	25
121	Multiprotocol Authentication Device for HPC and Cloud Environments Based on Elliptic Curve Cryptography. <i>Electronics (Switzerland)</i> , 2020 , 9, 1148	2.6	1
120	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off 2020 , 15, e0234178		
119	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off 2020 , 15, e0234178		
118	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off 2020 , 15, e0234178		
117	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off 2020 , 15, e0234178		
116	A new multi-objective wrapper method for feature selection [Accuracy and stability analysis for BCI. <i>Neurocomputing</i> , 2019 , 333, 407-418	5.4	49
115	Energy-Time Analysis of Convolutional Neural Networks Distributed on Heterogeneous Clusters for EEG Classification. <i>Lecture Notes in Computer Science</i> , 2019 , 895-907	0.9	
114	Time-energy analysis of multilevel parallelism in heterogeneous clusters: the case of EEG classification in BCI tasks. <i>Journal of Supercomputing</i> , 2019 , 75, 3397-3425	2.5	2
113	Many-Objective Cooperative Co-evolutionary Feature Selection: A Lexicographic Approach. <i>Lecture Notes in Computer Science</i> , 2019 , 463-474	0.9	1
112	Energy-aware load balancing of parallel evolutionary algorithms with heavy fitness functions in heterogeneous CPU-GPU architectures. <i>Concurrency Computation Practice and Experience</i> , 2019 , 31, e4688	1.4	3

111	A Power-Performance Perspective to Multiobjective Electroencephalogram Feature Selection on Heterogeneous Parallel Platforms. <i>Journal of Computational Biology</i> , 2018 , 25, 882-893	1.7	1
110	Multi-objective feature selection for EEG classification with multi-level parallelism on heterogeneous CPU-GPU clusters 2018 ,		2
109	Speedup and Energy Analysis of EEG Classification for BCI Tasks on CPU-GPU Clusters 2018 ,		1
108	High-throughput multi-multicast transfers in data center networks. <i>Journal of Supercomputing</i> , 2017 , 73, 152-163	2.5	4
107	Issues on GPU Parallel Implementation of Evolutionary High-Dimensional Multi-objective Feature Selection. <i>Lecture Notes in Computer Science</i> , 2017 , 773-788	0.9	3
106	Parallel high-dimensional multi-objective feature selection for EEG classification with dynamic workload balancing on CPU-GPU architectures. <i>Cluster Computing</i> , 2017 , 20, 1881-1897	2.1	8
105	Evaluation of redundant data storage in clusters based on multi-multicast and local storage. <i>Journal of Supercomputing</i> , 2017 , 73, 576-590	2.5	0
104	Improving Memory Accesses for Heterogeneous Parallel Multi-objective Feature Selection on EEG Classification. <i>Lecture Notes in Computer Science</i> , 2017 , 372-383	0.9	4
103	Deep Belief Networks and Multiobjective Feature Selection for BCI with Multiresolution Analysis. <i>Lecture Notes in Computer Science</i> , 2017 , 28-39	0.9	4
102	A Parallel Island Approach to Multiobjective Feature Selection for Brain-Computer Interfaces. <i>Lecture Notes in Computer Science</i> , 2017 , 16-27	0.9	0
101	Classification of motor imagery tasks for BCI with multiresolution analysis and multiobjective feature selection. <i>BioMedical Engineering OnLine</i> , 2016 , 15 Suppl 1, 73	4.1	22
100	Neural networks: An overview of early research, current frameworks and new challenges. <i>Neurocomputing</i> , 2016 , 214, 242-268	5.4	144
99	Analysis of OpenMP and MPI implementations of meta-heuristics for vehicle routing problems. <i>Applied Soft Computing Journal</i> , 2016 , 43, 262-275	7.5	10
98	Addressing High Dimensional Multi-objective Optimization Problems by Coevolutionary Islands with Overlapping Search Spaces. <i>Lecture Notes in Computer Science</i> , 2016 , 107-117	0.9	2
97	A New Scalable Approach for Distributed Metadata in HPC. <i>Lecture Notes in Computer Science</i> , 2016 , 106-117	0.9	2
96	Assessing Parallel Heterogeneous Computer Architectures for Multiobjective Feature Selection on EEG Classification. <i>Lecture Notes in Computer Science</i> , 2016 , 277-289	0.9	7
95	PCA filtering and probabilistic SOM for network intrusion detection. <i>Neurocomputing</i> , 2015 , 164, 71-81	5.4	99
94	Leveraging cooperation for parallel multi-objective feature selection in high-dimensional EEG data. <i>Concurrency Computation Practice and Experience</i> , 2015 , 27, 5476-5499	1.4	9

93	A Label-Aided Filter Method for Multi-objective Feature Selection in EEG Classification for BCI. <i>Lecture Notes in Computer Science</i> , 2015 , 133-144	0.9	1
92	Parallel alternatives for evolutionary multi-objective optimization in unsupervised feature selection. <i>Expert Systems With Applications</i> , 2015 , 42, 4239-4252	7.8	31
91	Evolutionary Multiobjective Feature Selection in Multiresolution Analysis for BCI. <i>Lecture Notes in Computer Science</i> , 2015 , 347-359	0.9	2
90	Parallel Cooperation for Large-Scale Multiobjective Optimization on Feature Selection Problems. <i>Lecture Notes in Computer Science</i> , 2015 , 693-705	0.9	
89	Feature selection in high-dimensional EEG data by parallel multi-objective optimization 2014 ,		5
88	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	7.3	112
87	Hybrid MPI/OpenMP Parallel Evolutionary Algorithms for Vehicle Routing Problems. <i>Lecture Notes in Computer Science</i> , 2014 , 653-664	0.9	2
86	Leveraging bandwidth improvements to web servers through enhanced network interfaces. <i>Journal of Supercomputing</i> , 2013 , 65, 1020-1036	2.5	1
85	Two-level Hash/Table approach for metadata management in distributed file systems. <i>Journal of Supercomputing</i> , 2013 , 64, 144-155	2.5	5
84	Affinity-Based Network Interfaces for Efficient Communication on Multicore Architectures. <i>Journal of Computer Science and Technology</i> , 2013 , 28, 508-524	1.7	6
83	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	7.8	83
82	Network Anomaly Classification by Support Vector Classifiers Ensemble and Non-linear Projection Techniques. <i>Lecture Notes in Computer Science</i> , 2013 , 103-111	0.9	15
81	System performance evaluation by combining RTC and VHDL simulation: A case study on NICs. <i>Journal of Systems Architecture</i> , 2013 , 59, 1277-1298	5.5	4
80	A hybrid meta-heuristic for multi-objective vehicle routing problems with time windows. <i>Computers and Industrial Engineering</i> , 2013 , 65, 286-296	6.4	91
79	Network Anomaly Detection with Bayesian Self-Organizing Maps. <i>Lecture Notes in Computer Science</i> , 2013 , 530-537	0.9	2
78	Comparison of Frameworks for Parallel Multiobjective Evolutionary Optimization in Dynamic Problems. <i>Studies in Computational Intelligence</i> , 2012 , 101-123	0.8	1
77	Method for prediction of protein-protein interactions in yeast using genomics/proteomics information and feature selection. <i>Neurocomputing</i> , 2011 , 74, 2683-2690	5.4	7
76	PITAGORAS-PSP: Including domain knowledge in a multi-objective approach for protein structure prediction. <i>Neurocomputing</i> , 2011 , 74, 2675-2682	5.4	13

75	Comparison of parallel multi-objective approaches to protein structure prediction. <i>Journal of Supercomputing</i> , 2011 , 58, 253-260	2.5	13
74	Improving IPS by network processors. <i>Journal of Supercomputing</i> , 2011 , 57, 99-108	2.5	2
73	Accelerating network applications by distributed interfaces on heterogeneous multiprocessor architectures. <i>Journal of Supercomputing</i> , 2011 , 58, 302-313	2.5	1
72	Comparing Real-Time Calculus with the existing analytical approaches for the performance evaluation of network interfaces 2011 ,		2
71	Ant Colony Optimization for Water Distribution Network Design: A Comparative Study. <i>Lecture Notes in Computer Science</i> , 2011 , 300-307	0.9	8
70	Network Intrusion Prevention by Using Hierarchical Self-Organizing Maps and Probability-Based Labeling. <i>Lecture Notes in Computer Science</i> , 2011 , 232-239	0.9	1
69	Fault tolerant PVFS2 based on data replication 2010 ,		1
68	A Pareto-based memetic algorithm for optimization of looped water distribution systems. <i>Engineering Optimization</i> , 2010 , 42, 223-240	2	6
67	Network interfaces for programmable NICs and multicore platforms. <i>Computer Networks</i> , 2010 , 54, 357-376	3.76	4
66	Approaching Dynamic Multi-Objective Optimization Problems by Using Parallel Evolutionary Algorithms. <i>Studies in Computational Intelligence</i> , 2010 , 63-86	0.8	14
65	A Hybrid Scheme to Solve the Protein Structure Prediction Problem. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 233-240		1
64	A single front genetic algorithm for parallel multi-objective optimization in dynamic environments. <i>Neurocomputing</i> , 2009 , 72, 3570-3579	5.4	54
63	Protocol offload analysis by simulation. <i>Journal of Systems Architecture</i> , 2009 , 55, 25-42	5.5	6
62	Accelerating OpenFlow switching with network processors 2009 ,		29
61	2009 ,		4
60	A Multi-Threaded Network Interface Using Network Processors 2009 ,		4
59	Method for Prediction of Protein-Protein Interactions in Yeast Using Genomics/Proteomics Information and Feature Selection. <i>Lecture Notes in Computer Science</i> , 2009 , 853-860	0.9	1
58	Performance Measures for Dynamic Multi-Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2009 , 760-767	0.9	7

57	Improving the Performance of Bandwidth-Demanding Applications by a Distributed Network Interface. <i>Lecture Notes in Computer Science</i> , 2009 , 462-465	0.9	
56	Protein Structure Prediction by Evolutionary Multi-objective Optimization: Search Space Reduction by Using Rotamers. <i>Lecture Notes in Computer Science</i> , 2009 , 861-868	0.9	
55	Comparison of Onloading and Offloading Strategies to Improve Network Interfaces 2008 ,		4
54	Analyzing the benefits of protocol offload by full-system simulation 2007 ,		2
53	A Hybrid Meta-Heuristic for Multi-Objective Optimization: MOSATS. <i>Mathematical Modelling and Algorithms</i> , 2007 , 6, 213-230		26
52	A new hybrid methodology for cooperative-coevolutionary optimization of radial basis function networks. <i>Soft Computing</i> , 2007 , 11, 655-668	3.5	17
51	Parallel Processing for Multi-objective Optimization in Dynamic Environments 2007 ,		23
50	Modeling Network Behaviour By Full-System Simulation. <i>Journal of Software</i> , 2007 , 2,	3	3
49	The Parallel Single Front Genetic Algorithm (PSFGA) in Dynamic Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2007 , 300-307	0.9	1
48	Evolutionary algorithms for multiobjective and multimodal optimization of diagnostic schemes. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 178-89	5	13
47	Protocol Offload Evaluation Using Simics 2006 ,		7
46	Adapting Multi-Objective Meta-Heuristics for Graph Partitioning 2006 , 123-132		
45	Performance Analysis of Parallel Strategies for Bi-objective Network Partitioning. <i>Advances in Intelligent and Soft Computing</i> , 2006 , 291-300		1
44	Application of ANOVA to a Cooperative-Coevolutionary Optimization of RBFNs. <i>Lecture Notes in Computer Science</i> , 2005 , 297-305	0.9	1
43	Synthesis of Hybrid CBL/CMOS Cell Using Multiobjective Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2005 , 629-637	0.9	
42	A Parallel Multilevel Metaheuristic for Graph Partitioning. <i>Journal of Heuristics</i> , 2004 , 10, 315-336	1.9	22
41	A New Pareto-Based Algorithm for Multi-objective Graph Partitioning. <i>Lecture Notes in Computer Science</i> , 2004 , 779-788	0.9	1
40	Assessing the Noise Immunity and Generalization of Radial Basis Function Networks. <i>Neural Processing Letters</i> , 2003 , 18, 35-48	2.4	18

39	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, 1478-95		135
38	A parallel evolutionary algorithm for circuit partitioning 2003 ,		2
37	XMLP: a Feed-Forward Neural Network with Two-Dimensional Layers and Partial Connectivity. <i>Lecture Notes in Computer Science</i> , 2003 , 89-96	0.9	5
36	Studying the Convergence of the CFA Algorithm. <i>Lecture Notes in Computer Science</i> , 2003 , 550-557	0.9	1
35	Designing a Phenotypic Distance Index for Radial Basis Function Neural Networks. <i>Lecture Notes in Computer Science</i> , 2003 , 454-461	0.9	
34	Genetic Algorithm applied to Paroxysmal Atrial Fibrillation Prediction. <i>Lecture Notes in Computer Science</i> , 2003 , 345-352	0.9	
33	Performance of Message-Passing MATLAB Toolboxes. <i>Lecture Notes in Computer Science</i> , 2003 , 228-242	0.9	6
32	Multilevel Heuristic Algorithm for Graph Partitioning. <i>Lecture Notes in Computer Science</i> , 2003 , 143-153	0.9	19
31	Non-invasive Atrial Disease Diagnosis Using Decision Rules: A Multi-objective Optimization Approach. <i>Lecture Notes in Computer Science</i> , 2003 , 638-647	0.9	2
30	Paroxysmal Atrial Fibrillation Prediction Application Using Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2003 , 1011-1019	0.9	1
29	New Method for Filtered ICA Signals Applied To Volatile Time Series.. <i>Lecture Notes in Computer Science</i> , 2003 , 433-440	0.9	1
28	Component-Based Derivation of a Parallel Stiff ODE Solver Implemented in a Cluster of Computers. <i>International Journal of Parallel Programming</i> , 2002 , 30, 99-148	1.5	3
27	A Mixed Heuristic for Circuit Partitioning. <i>Computational Optimization and Applications</i> , 2002 , 23, 321-340	0.4	20
26	A new clustering technique for function approximation. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 132-42		81
25	Multi-objective Optimization Evolutionary Algorithms Applied to Paroxysmal Atrial Fibrillation Diagnosis Based on the k-Nearest Neighbours Classifier. <i>Lecture Notes in Computer Science</i> , 2002 , 313-318	0.9	3
24	SSA, SVD, QR-cp, and RBF Model Reduction. <i>Lecture Notes in Computer Science</i> , 2002 , 589-594	0.9	5
23	Parallel dynamic water supply scheduling in a cluster of computers. <i>Concurrency Computation Practice and Experience</i> , 2001 , 13, 1281-1302	1.4	3
22	Improved RAN sequential prediction using orthogonal techniques. <i>Neurocomputing</i> , 2001 , 41, 153-172	5.4	42

21	Assesing the Noise Immunity of Radial Basis Function Neural Networks. <i>Lecture Notes in Computer Science</i> , 2001 , 136-143	0.9	1
20	Hybrid Framework for Neuro-Dynamic Programming Application to Water Supply Networks. <i>Lecture Notes in Computer Science</i> , 2001 , 719-727	0.9	
19	Analyzing Boltzmann Machine Parameters for Fast Convergence. <i>Lecture Notes in Computer Science</i> , 2001 , 144-151	0.9	
18	Parallel VLSI test in a shared-memory multiprocessor. <i>Concurrency and Computation: Practice and Experience</i> , 2000 , 12, 311-326		7
17	Obtaining Fault Tolerant Multilayer Perceptrons Using an Explicit Regularization. <i>Neural Processing Letters</i> , 2000 , 12, 107-113	2.4	31
16	A systematic approach to a self-generating fuzzy rule-table for function approximation. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2000 , 30, 431-47		84
15	. <i>IEEE Transactions on Fuzzy Systems</i> , 2000 , 8, 23-36	8.3	98
14	An Accurate Measure for Multilayer Perceptron Tolerance to Weight Deviations. <i>Neural Processing Letters</i> , 1999 , 10, 121-130	2.4	11
13	On-line optimization of radial basis function networks with orthogonal techniques. <i>Lecture Notes in Computer Science</i> , 1999 , 467-477	0.9	3
12	Nondeterministic AND-EXOR minimisation by using rewrite rules and simulated annealing. <i>IEE Proceedings: Computers and Digital Techniques</i> , 1999 , 146, 1		5
11	Parallel Coarse Grain Computing of Boltzmann Machines. <i>Neural Processing Letters</i> , 1998 , 7, 169-184	2.4	4
10	Algebraic test-pattern generation based on the ReedMuller spectrum. <i>IEE Proceedings: Computers and Digital Techniques</i> , 1998 , 145, 308		5
9	Parallel test pattern generation using circuit partitioning in a shared-memory multiprocessor. <i>Lecture Notes in Computer Science</i> , 1998 , 167-171	0.9	1
8	A modified backpropagation algorithm to tolerate weight errors. <i>Lecture Notes in Computer Science</i> , 1997 , 763-771	0.9	1
7	Modified Boltzmann machine for an efficient distributed implementation. <i>Lecture Notes in Computer Science</i> , 1997 , 1221-1232	0.9	
6	. <i>IEEE Transactions on Computers</i> , 1993 , 42, 591-596	2.5	12
5	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1993 , 40, 215-218		19
4	Parallel single front genetic algorithm: performance analysis in a cluster system		3

3	The lightweight protocol CLIC on Gigabit Ethernet	3
2	Genetic algorithm approach to nonlinear blind source separation	3
1	Parallel combinatorial optimization with evolutionary cooperation between processors	6