

# Julio Ortega

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3831296/julio-ortega-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Neural networks: An overview of early research, current frameworks and new challenges. <i>Neurocomputing</i> , <b>2016</b> , 214, 242-268	5.4	144
127	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> , <b>2003</b> , 14, 1478-95		135
126	Feature selection by multi-objective optimisation: Application to network anomaly detection by hierarchical self-organising maps. <i>Knowledge-Based Systems</i> , <b>2014</b> , 71, 322-338	7.3	112
125	PCA filtering and probabilistic SOM for network intrusion detection. <i>Neurocomputing</i> , <b>2015</b> , 164, 71-81	5.4	99
124	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2000</b> , 8, 23-36	8.3	98
123	A hybrid meta-heuristic for multi-objective vehicle routing problems with time windows. <i>Computers and Industrial Engineering</i> , <b>2013</b> , 65, 286-296	6.4	91
122	A systematic approach to a self-generating fuzzy rule-table for function approximation. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2000</b> , 30, 431-47		84
121	A Simulated Annealing-based parallel multi-objective approach to vehicle routing problems with time windows. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 1696-1707	7.8	83
120	A new clustering technique for function approximation. <i>IEEE Transactions on Neural Networks</i> , <b>2002</b> , 13, 132-42		81
119	A single front genetic algorithm for parallel multi-objective optimization in dynamic environments. <i>Neurocomputing</i> , <b>2009</b> , 72, 3570-3579	5.4	54
118	A new multi-objective wrapper method for feature selection [Accuracy and stability analysis for BCI. <i>Neurocomputing</i> , <b>2019</b> , 333, 407-418	5.4	49
117	Improved RAN sequential prediction using orthogonal techniques. <i>Neurocomputing</i> , <b>2001</b> , 41, 153-172	5.4	42
116	Parallel alternatives for evolutionary multi-objective optimization in unsupervised feature selection. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 4239-4252	7.8	31
115	Obtaining Fault Tolerant Multilayer Perceptrons Using an Explicit Regularization. <i>Neural Processing Letters</i> , <b>2000</b> , 12, 107-113	2.4	31
114	Accelerating OpenFlow switching with network processors <b>2009</b> ,		29
113	A Hybrid Meta-Heuristic for Multi-Objective Optimization: MOSATS. <i>Mathematical Modelling and Algorithms</i> , <b>2007</b> , 6, 213-230		26
112	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off. <i>PLoS ONE</i> , <b>2020</b> , 15, e0234178	3.7	25

111	Parallel Processing for Multi-objective Optimization in Dynamic Environments <b>2007</b> ,		23
110	Classification of motor imagery tasks for BCI with multiresolution analysis and multiobjective feature selection. <i>BioMedical Engineering OnLine</i> , <b>2016</b> , 15 Suppl 1, 73	4.1	22
109	A Parallel Multilevel Metaheuristic for Graph Partitioning. <i>Journal of Heuristics</i> , <b>2004</b> , 10, 315-336	1.9	22
108	A Mixed Heuristic for Circuit Partitioning. <i>Computational Optimization and Applications</i> , <b>2002</b> , 23, 321-340.	4.4	20
107	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , <b>1993</b> , 40, 215-218		19
106	Multilevel Heuristic Algorithm for Graph Partitioning. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 143-153	0.9	19
105	Assessing the Noise Immunity and Generalization of Radial Basis Function Networks. <i>Neural Processing Letters</i> , <b>2003</b> , 18, 35-48	2.4	18
104	A new hybrid methodology for cooperative-coevolutionary optimization of radial basis function networks. <i>Soft Computing</i> , <b>2007</b> , 11, 655-668	3.5	17
103	Network Anomaly Classification by Support Vector Classifiers Ensemble and Non-linear Projection Techniques. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 103-111	0.9	15
102	Approaching Dynamic Multi-Objective Optimization Problems by Using Parallel Evolutionary Algorithms. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 63-86	0.8	14
101	PITAGORAS-PSP: Including domain knowledge in a multi-objective approach for protein structure prediction. <i>Neurocomputing</i> , <b>2011</b> , 74, 2675-2682	5.4	13
100	Comparison of parallel multi-objective approaches to protein structure prediction. <i>Journal of Supercomputing</i> , <b>2011</b> , 58, 253-260	2.5	13
99	Evolutionary algorithms for multiobjective and multimodal optimization of diagnostic schemes. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2006</b> , 53, 178-89	5	13
98	. <i>IEEE Transactions on Computers</i> , <b>1993</b> , 42, 591-596	2.5	12
97	An Accurate Measure for Multilayer Perceptron Tolerance to Weight Deviations. <i>Neural Processing Letters</i> , <b>1999</b> , 10, 121-130	2.4	11
96	Analysis of OpenMP and MPI implementations of meta-heuristics for vehicle routing problems. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 43, 262-275	7.5	10
95	Leveraging cooperation for parallel multi-objective feature selection in high-dimensional EEG data. <i>Concurrency Computation Practice and Experience</i> , <b>2015</b> , 27, 5476-5499	1.4	9
94	Parallel high-dimensional multi-objective feature selection for EEG classification with dynamic workload balancing on CPU/GPU architectures. <i>Cluster Computing</i> , <b>2017</b> , 20, 1881-1897	2.1	8

93	Dyslexia Diagnosis by EEG Temporal and Spectral Descriptors: An Anomaly Detection Approach. <i>International Journal of Neural Systems</i> , <b>2020</b> , 30, 2050029	6.2	8
92	Ant Colony Optimization for Water Distribution Network Design: A Comparative Study. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 300-307	0.9	8
91	Method for prediction of protein-protein interactions in yeast using genomics/proteomics information and feature selection. <i>Neurocomputing</i> , <b>2011</b> , 74, 2683-2690	5.4	7
90	Protocol Offload Evaluation Using Simics <b>2006</b> ,		7
89	Parallel VLSI test in a shared-memory multiprocessor. <i>Concurrency and Computation: Practice and Experience</i> , <b>2000</b> , 12, 311-326		7
88	Performance Measures for Dynamic Multi-Objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 760-767	0.9	7
87	Assessing Parallel Heterogeneous Computer Architectures for Multiobjective Feature Selection on EEG Classification. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 277-289	0.9	7
86	Affinity-Based Network Interfaces for Efficient Communication on Multicore Architectures. <i>Journal of Computer Science and Technology</i> , <b>2013</b> , 28, 508-524	1.7	6
85	A Pareto-based memetic algorithm for optimization of looped water distribution systems. <i>Engineering Optimization</i> , <b>2010</b> , 42, 223-240	2	6
84	Protocol offload analysis by simulation. <i>Journal of Systems Architecture</i> , <b>2009</b> , 55, 25-42	5.5	6
83	Parallel combinatorial optimization with evolutionary cooperation between processors		6
82	Performance of Message-Passing MATLAB Toolboxes. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 228-242	0.9	6
81	Two-level Hash/Table approach for metadata management in distributed file systems. <i>Journal of Supercomputing</i> , <b>2013</b> , 64, 144-155	2.5	5
80	Feature selection in high-dimensional EEG data by parallel multi-objective optimization <b>2014</b> ,		5
79	Algebraic test-pattern generation based on the Reed-Muller spectrum. <i>IEE Proceedings: Computers and Digital Techniques</i> , <b>1998</b> , 145, 308		5
78	XMLP: a Feed-Forward Neural Network with Two-Dimensional Layers and Partial Connectivity. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 89-96	0.9	5
77	Nondeterministic AND-EXOR minimisation by using rewrite rules and simulated annealing. <i>IEE Proceedings: Computers and Digital Techniques</i> , <b>1999</b> , 146, 1		5
76	SSA, SVD, QR-cp, and RBF Model Reduction. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 589-594	0.9	5

75	High-throughput multi-multicast transfers in data center networks. <i>Journal of Supercomputing</i> , <b>2017</b> , 73, 152-163	2.5	4
74	System performance evaluation by combining RTC and VHDL simulation: A case study on NICs. <i>Journal of Systems Architecture</i> , <b>2013</b> , 59, 1277-1298	5.5	4
73	<b>2009</b> ,		4
72	A Multi-Threaded Network Interface Using Network Processors <b>2009</b> ,		4
71	Network interfaces for programmable NICs and multicore platforms. <i>Computer Networks</i> , <b>2010</b> , 54, 357-376	3.46	4
70	Parallel Coarse Grain Computing of Boltzmann Machines. <i>Neural Processing Letters</i> , <b>1998</b> , 7, 169-184	2.4	4
69	Comparison of Onloading and Offloading Strategies to Improve Network Interfaces <b>2008</b> ,		4
68	Improving Memory Accesses for Heterogeneous Parallel Multi-objective Feature Selection on EEG Classification. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 372-383	0.9	4
67	Deep Belief Networks and Multiobjective Feature Selection for BCI with Multiresolution Analysis. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 28-39	0.9	4
66	Issues on GPU Parallel Implementation of Evolutionary High-Dimensional Multi-objective Feature Selection. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 773-788	0.9	3
65	Component-Based Derivation of a Parallel Stiff ODE Solver Implemented in a Cluster of Computers. <i>International Journal of Parallel Programming</i> , <b>2002</b> , 30, 99-148	1.5	3
64	Parallel single front genetic algorithm: performance analysis in a cluster system		3
63	The lightweight protocol CLIC on Gigabit Ethernet		3
62	Parallel dynamic water supply scheduling in a cluster of computers. <i>Concurrency Computation Practice and Experience</i> , <b>2001</b> , 13, 1281-1302	1.4	3
61	Genetic algorithm approach to nonlinear blind source separation		3
60	On-line optimization of radial basis function networks with orthogonal techniques. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 467-477	0.9	3
59	Modeling Network Behaviour By Full-System Simulation. <i>Journal of Software</i> , <b>2007</b> , 2,	3	3
58	Energy-aware load balancing of parallel evolutionary algorithms with heavy fitness functions in heterogeneous CPU-GPU architectures. <i>Concurrency Computation Practice and Experience</i> , <b>2019</b> , 31, e46884	1.4	3

57	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> , <b>2002</b> , 313-318 <sup>09</sup>		3
56	Multi-objective feature selection for EEG classification with multi-level parallelism on heterogeneous CPU-GPU clusters <b>2018</b> ,		2
55	Time-energy analysis of multilevel parallelism in heterogeneous clusters: the case of EEG classification in BCI tasks. <i>Journal of Supercomputing</i> , <b>2019</b> , 75, 3397-3425	2.5	2
54	Improving IPS by network processors. <i>Journal of Supercomputing</i> , <b>2011</b> , 57, 99-108	2.5	2
53	Comparing Real-Time Calculus with the existing analytical approaches for the performance evaluation of network interfaces <b>2011</b> ,		2
52	Analyzing the benefits of protocol offload by full-system simulation <b>2007</b> ,		2
51	A parallel evolutionary algorithm for circuit partitioning <b>2003</b> ,		2
50	Evolutionary Multiobjective Feature Selection in Multiresolution Analysis for BCI. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 347-359	0.9	2
49	Addressing High Dimensional Multi-objective Optimization Problems by Coevolutionary Islands with Overlapping Search Spaces. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 107-117	0.9	2
48	Network Anomaly Detection with Bayesian Self-Organizing Maps. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 530-537	0.9	2
47	Hybrid MPI/OpenMP Parallel Evolutionary Algorithms for Vehicle Routing Problems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 653-664	0.9	2
46	A New Scalable Approach for Distributed Metadata in HPC. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 106-117	0.9	2
45	Optimization of Deep Architectures for EEG Signal Classification: An AutoML Approach Using Evolutionary Algorithms. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
44	Non-invasive Atrial Disease Diagnosis Using Decision Rules: A Multi-objective Optimization Approach. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 638-647	0.9	2
43	A Power-Performance Perspective to Multiobjective Electroencephalogram Feature Selection on Heterogeneous Parallel Platforms. <i>Journal of Computational Biology</i> , <b>2018</b> , 25, 882-893	1.7	1
42	Leveraging bandwidth improvements to web servers through enhanced network interfaces. <i>Journal of Supercomputing</i> , <b>2013</b> , 65, 1020-1036	2.5	1
41	A Label-Aided Filter Method for Multi-objective Feature Selection in EEG Classification for BCI. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 133-144	0.9	1
40	Accelerating network applications by distributed interfaces on heterogeneous multiprocessor architectures. <i>Journal of Supercomputing</i> , <b>2011</b> , 58, 302-313	2.5	1

39	Fault tolerant PVFS2 based on data replication <b>2010</b> ,		1
38	A modified backpropagation algorithm to tolerate weight errors. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 763-771	0.9	1
37	Application of ANOVA to a Cooperative-Coevolutionary Optimization of RBFNs. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 297-305	0.9	1
36	Parallel test pattern generation using circuit partitioning in a shared-memory multiprocessor. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 167-171	0.9	1
35	Assesing the Noise Immunity of Radial Basis Function Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 136-143	0.9	1
34	Studying the Convergence of the CFA Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 550-557	0.9	1
33	The Parallel Single Front Genetic Algorithm (PSFGA) in Dynamic Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 300-307	0.9	1
32	Many-Objective Cooperative Co-evolutionary Feature Selection: A Lexicographic Approach. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 463-474	0.9	1
31	A New Pareto-Based Algorithm for Multi-objective Graph Partitioning. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 779-788	0.9	1
30	Performance Analysis of Parallel Strategies for Bi-objective Network Partitioning. <i>Advances in Intelligent and Soft Computing</i> , <b>2006</b> , 291-300		1
29	Method for Prediction of Protein-Protein Interactions in Yeast Using Genomics/Proteomics Information and Feature Selection. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 853-860	0.9	1
28	A Hybrid Scheme to Solve the Protein Structure Prediction Problem. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 233-240		1
27	Network Intrusion Prevention by Using Hierarchical Self-Organizing Maps and Probability-Based Labeling. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 232-239	0.9	1
26	Comparison of Frameworks for Parallel Multiobjective Evolutionary Optimization in Dynamic Problems. <i>Studies in Computational Intelligence</i> , <b>2012</b> , 101-123	0.8	1
25	Multiprotocol Authentication Device for HPC and Cloud Environments Based on Elliptic Curve Cryptography. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1148	2.6	1
24	Speedup and Energy Analysis of EEG Classification for BCI Tasks on CPU-GPU Clusters <b>2018</b> ,		1
23	Paroxysmal Atrial Fibrillation Prediction Application Using Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 1011-1019	0.9	1
22	New Method for Filtered ICA Signals Applied To Volatile Time Series.. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 433-440	0.9	1

21	Evaluation of redundant data storage in clusters based on multi-multicast and local storage. <i>Journal of Supercomputing</i> , <b>2017</b> , 73, 576-590	2.5	o
20	A Parallel Island Approach to Multiobjective Feature Selection for Brain-Computer Interfaces. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 16-27	0.9	o
19	A lexicographic cooperative co-evolutionary approach for feature selection. <i>Neurocomputing</i> , <b>2021</b> , 463, 59-76	5.4	o
18	Energy-Time Analysis of Convolutional Neural Networks Distributed on Heterogeneous Clusters for EEG Classification. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 895-907	0.9	
17	Modified Boltzmann machine for an efficient distributed implementation. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 1221-1232	0.9	
16	Adapting Multi-Objective Meta-Heuristics for Graph Partitioning <b>2006</b> , 123-132		
15	Energy-Time Profiling for Machine Learning Methods to EEG Classification. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 311-322	0.9	
14	Recurrent Neural Networks and Efficiency in High-Dimensional EEG Classification. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 297-310	0.9	
13	Performance Study of Ant Colony Optimization for Feature Selection in EEG Classification. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 323-336	0.9	
12	Hybrid Framework for Neuro-Dynamic Programming Application to Water Supply Networks. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 719-727	0.9	
11	Analyzing Boltzmann Machine Parameters for Fast Convergence. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 144-151	0.9	
10	Designing a Phenotypic Distance Index for Radial Basis Function Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 454-461	0.9	
9	Genetic Algorithm applied to Paroxysmal Atrial Fibrillation Prediction. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 345-352	0.9	
8	Synthesis of Hybrid CBL/CMOS Cell Using Multiobjective Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 629-637	0.9	
7	Parallel Cooperation for Large-Scale Multiobjective Optimization on Feature Selection Problems. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 693-705	0.9	
6	Improving the Performance of Bandwidth-Demanding Applications by a Distributed Network Interface. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 462-465	0.9	
5	Protein Structure Prediction by Evolutionary Multi-objective Optimization: Search Space Reduction by Using Rotamers. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 861-868	0.9	
4	Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off <b>2020</b> , 15, e0234178		



- 3 Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off **2020**, 15, e0234178
- 2 Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off **2020**, 15, e0234178
- 1 Deep learning for EEG-based Motor Imagery classification: Accuracy-cost trade-off **2020**, 15, e0234178