

Bernabe Dorrnsoro

List of Publications by Citations

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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.

119
papers

2,004
citations

20
h-index

41
g-index

149
ext. papers

2,344
ext. citations

2.5
avg, IF

5.1
L-index

#	Paper	IF	Citations
119	. <i>IEEE Transactions on Evolutionary Computation</i> , 2005 , 9, 126-142	15.6	294
118	AbYSS: Adapting Scatter Search to Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2008 , 12, 439-457	15.6	230
117	MOCell: A cellular genetic algorithm for multiobjective optimization. <i>International Journal of Intelligent Systems</i> , 2009 , 24, 726-746	8.4	176
116	Improving Classical and Decentralized Differential Evolution With New Mutation Operator and Population Topologies. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 67-98	15.6	125
115	A cellular multi-objective genetic algorithm for optimal broadcasting strategy in metropolitan MANETs. <i>Computer Communications</i> , 2007 , 30, 685-697	5.1	64
114	Energy-Aware Scheduling on Multicore Heterogeneous Grid Computing Systems. <i>Journal of Grid Computing</i> , 2013 , 11, 653-680	4.2	60
113	Computing nine new best-so-far solutions for Capacitated VRP with a cellular Genetic Algorithm. <i>Information Processing Letters</i> , 2006 , 98, 225-230	0.8	57
112	A novel multi-objective evolutionary algorithm with fuzzy logic based adaptive selection of operators: FAME. <i>Information Sciences</i> , 2019 , 471, 233-251	7.7	49
111	Design Issues in a Multiobjective Cellular Genetic Algorithm 2007 , 126-140		41
110	Introduction to Cellular Genetic Algorithms. <i>Operations Research/Computer Science Interfaces Series</i> , 2008 , 3-20	0.3	41
109	Solving the Vehicle Routing Problem by Using Cellular Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2004 , 11-20	0.9	39
108	Achieving super-linear performance in parallel multi-objective evolutionary algorithms by means of cooperative coevolution. <i>Computers and Operations Research</i> , 2013 , 40, 1552-1563	4.6	36
107	Towards a Reliable Comparison and Evaluation of Network Intrusion Detection Systems Based on Machine Learning Approaches. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1775	2.6	34
106	Solving very large instances of the scheduling of independent tasks problem on the GPU. <i>Journal of Parallel and Distributed Computing</i> , 2013 , 73, 101-110	4.4	33
105	Efficient Batch Job Scheduling in Grids Using Cellular Memetic Algorithms. <i>Mathematical Modelling and Algorithms</i> , 2008 , 7, 217-236		33
104	Multi-objective evolutionary algorithms for energy-aware scheduling on distributed computing systems. <i>Applied Soft Computing Journal</i> , 2014 , 24, 432-446	7.5	32
103	Information dissemination in VANETs based upon a tree topology. <i>Ad Hoc Networks</i> , 2012 , 10, 111-127	4.8	30

102	Comparison of Green Light Optimal Speed Advisory approaches 2013 ,		29
101	Efficient Heuristics for Profit Optimization of Virtual Cloud Brokers. <i>IEEE Computational Intelligence Magazine</i> , 2015 , 10, 33-43	5.6	23
100	2014 ,		23
99	A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. <i>Journal of Parallel and Distributed Computing</i> , 2018 , 112, 111-125	4.4	20
98	A two-phase heuristic for the energy-efficient scheduling of independent tasks on computational grids. <i>Cluster Computing</i> , 2013 , 16, 421-433	2.1	20
97	A Survey on the Application of Evolutionary Algorithms for Mobile Multihop Ad Hoc Network Optimization Problems. <i>International Journal of Distributed Sensor Networks</i> , 2016 , 12, 2082496	1.7	19
96	A hierarchical approach for energy-efficient scheduling of large workloads in multicore distributed systems. <i>Sustainable Computing: Informatics and Systems</i> , 2014 , 4, 252-261	3	19
95	A power efficient genetic algorithm for resource allocation in cloud computing data centers 2014 ,		19
94	Multiobjective evolutionary algorithms for energy and service level scheduling in a federation of distributed datacenters. <i>International Transactions in Operational Research</i> , 2017 , 24, 199-228	2.9	14
93	A Cellular Genetic Algorithm for scheduling applications and energy-aware communication optimization 2010 ,		14
92	A Survey of Decomposition Methods for Multi-objective Optimization. <i>Studies in Computational Intelligence</i> , 2014 , 453-465	0.8	14
91	Solving the multi-objective flexible job shop scheduling problem with a novel parallel branch and bound algorithm. <i>Swarm and Evolutionary Computation</i> , 2020 , 53, 100632	9.8	14
90	Cellular genetic algorithms without additional parameters. <i>Journal of Supercomputing</i> , 2013 , 63, 816-835	2.5	13
89	Hierarchical Cellular Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2006 , 111-122	0.9	13
88	A self-adaptive cellular memetic algorithm for the DNA fragment assembly problem 2008 ,		12
87	Parallel Genetic Algorithms 2005 , 105-125		12
86	Efficient Batch Job Scheduling in Grids Using Cellular Memetic Algorithms. <i>Studies in Computational Intelligence</i> , 2008 , 273-299	0.8	12
85	A Hybrid Cellular Genetic Algorithm for the Capacitated Vehicle Routing Problem. <i>Studies in Computational Intelligence</i> , 2008 , 379-422	0.8	11

84	Optimisation of the enhanced distance based broadcasting protocol for MANETs. <i>Journal of Supercomputing</i> , 2012 , 62, 1213-1240	2.5	10
83	Multi-objective Cooperative Coevolutionary Evolutionary Algorithms for Continuous and Combinatorial Optimization. <i>Studies in Computational Intelligence</i> , 2011 , 49-74	0.8	10
82	Design and evaluation of tabu search method for job scheduling in distributed environments. <i>Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on</i> , 2008 ,		10
81	A Simple Cellular Genetic Algorithm for Continuous Optimization		10
80	Efficient Batch Job Scheduling in Grids using Cellular Memetic Algorithms 2007 ,		10
79	Combining Machine Learning and Genetic Algorithms to Solve the Independent Tasks Scheduling Problem 2017 ,		9
78	The influence of grid shape and asynchronicity on cellular evolutionary algorithms		9
77	Using simulation-based optimization in the context of IT service management change process. <i>Decision Support Systems</i> , 2018 , 112, 35-47	5.6	9
76	The sandpile scheduler. <i>Cluster Computing</i> , 2014 , 17, 191-204	2.1	8
75	A Parallel Hybrid Evolutionary Algorithm for the Optimization of Broker Virtual Machines Subletting in Cloud Systems 2013 ,		8
74	A new parallel asynchronous cellular genetic algorithm for scheduling in grids 2010 ,		8
73	Cellular Genetic Algorithms. <i>Operations Research/ Computer Science Interfaces Series</i> , 2008 ,	0.3	8
72	Optimising small-world properties in VANETs: Centralised and distributed overlay approaches. <i>Applied Soft Computing Journal</i> , 2014 , 21, 637-646	7.5	7
71	A Study of the Combination of Variation Operators in the NSGA-II Algorithm. <i>Lecture Notes in Computer Science</i> , 2013 , 269-278	0.9	7
70	Advanced models of cellular genetic algorithms evaluated on SAT 2005 ,		7
69	Plane Separation: A method to solve dynamic multi-objective optimization problems with incorporated preferences. <i>Future Generation Computer Systems</i> , 2020 , 110, 864-875	7.5	7
68	Multiobjective Workflow Scheduling in a Federation of Heterogeneous Green-Powered Data Centers 2016 ,		7
67	Theory and Practice of Cellular UMDA for Discrete Optimization. <i>Lecture Notes in Computer Science</i> , 2006 , 242-251	0.9	7

66	Finding scalable configurations for AEDB broadcasting protocol using multi-objective evolutionary algorithms. <i>Cluster Computing</i> , 2013 , 16, 527-544	2.1	6
65	Savant: Automatic generation of a parallel scheduling heuristic for map-reduce. <i>International Journal of Hybrid Intelligent Systems</i> , 2014 , 11, 287-302	0.9	6
64	Adaptive Neighborhoods for Cellular Genetic Algorithms 2011 ,		6
63	An asynchronous parallel implementation of a cellular genetic algorithm for combinatorial optimization 2009 ,		6
62	Differential Evolution Algorithms with Cellular Populations 2010 , 320-330		6
61	Evolutionary Algorithms Based on Game Theory and Cellular Automata with Coalitions. <i>Intelligent Systems Reference Library</i> , 2013 , 481-503	0.8	6
60	Micro-Genetic algorithm with fuzzy selection of operators for multi-Objective optimization: BAME. <i>Swarm and Evolutionary Computation</i> , 2021 , 61, 100818	9.8	6
59	The State of the Art in Cellular Evolutionary Algorithms. <i>Operations Research/ Computer Science Interfaces Series</i> , 2008 , 21-34	0.3	6
58	VoIP service model for multi-objective scheduling in cloud infrastructure. <i>International Journal of Metaheuristics</i> , 2015 , 4, 185	0.8	5
57	Computational intelligence for cloud management current trends and opportunities 2013 ,		5
56	Multi-objective robust static mapping of independent tasks on grids 2010 ,		5
55	A New Parallel Asynchronous Cellular Genetic Algorithm for de Novo Genomic Sequencing 2009 ,		5
54	Novel efficient asynchronous cooperative co-evolutionary multi-objective algorithms 2012 ,		5
53	Towards connectivity improvement in VANETs using bypass links 2009 ,		5
52	A cellular multi-objective genetic algorithm for optimal broadcasting strategy in metropolitan MANETs		5
51	Estimation of Distribution Algorithms 2006 , 87-108		5
50	The Virtual Savant: Automatic generation of parallel solvers. <i>Information Sciences</i> , 2018 , 432, 411-430	7.7	4
49	Study of different small-world topology generation mechanisms for Genetic Algorithms 2012 ,		4

48	Decentralized Cellular Evolutionary Algorithms. <i>Chapman & Hall/CRC Computer and Information Science Series</i> , 2005 , 7-103-7-120		4
47	APPLICATION OF POPULATION EVOLVABILITY IN A HYPER-HEURISTIC FOR DYNAMIC MULTI-OBJECTIVE OPTIMIZATION. <i>Technological and Economic Development of Economy</i> , 2019 , 25, 951-978	4.7	4
46	Optimal Broadcasting in Metropolitan MANETs Using Multiobjective Scatter Search. <i>Lecture Notes in Computer Science</i> , 2006 , 255-266	0.9	4
45	A Comparison Between Memetic Algorithm and Seeded Genetic Algorithm for Multi-objective Independent Task Scheduling on Heterogeneous Machines. <i>Studies in Computational Intelligence</i> , 2015 , 377-389	0.8	3
44	A Parallel Multi-objective Local Search for AEDB Protocol Tuning 2013 ,		3
43	Designing a Self-Organized Approach for Scheduling Bag-of-Tasks 2012 ,		3
42	Multi-objective Optimization for Information Sharing in Vehicular Ad Hoc Networks. <i>Communications in Computer and Information Science</i> , 2009 , 58-70	0.3	3
41	Evolutionary Algorithms for Optimizing Cost and QoS on Cloud-based Content Distribution Networks. <i>Programming and Computer Software</i> , 2019 , 45, 544-556	0.8	3
40	Virtual Savant for the Heterogeneous Computing Scheduling Problem 2018 ,		3
39	Finding a robust configuration for the AEDB information dissemination protocol for mobile ad hoc networks. <i>Applied Soft Computing Journal</i> , 2015 , 32, 494-508	7.5	2
38	AEDB protocol tuning with a fast efficient parallel multi-objective local search. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2014 , 17, 144	0.7	2
37	Optimization and Performance Analysis of the AEDB Broadcasting Algorithm 2011 ,		2
36	Metaheuristics for the Virtual Machine Mapping Problem in Clouds. <i>Informatica</i> , 2015 , 26, 111-134	2.9	2
35	Using Complex Network Topologies and Self-Organizing Maps for Time Series Prediction. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 323-332	0.4	2
34	Optimizing the Profit and QoS of Virtual Brokers in the Cloud. <i>Computer Communications and Networks</i> , 2017 , 277-300	0.5	2
33	Oversized Populations and Cooperative Selection: Dealing with Massive Resources in Parallel Infrastructures. <i>Lecture Notes in Computer Science</i> , 2013 , 444-449	0.9	2
32	Multiobjective Energy-Aware Workflow Scheduling in Distributed Datacenters. <i>Communications in Computer and Information Science</i> , 2016 , 79-93	0.3	2
31	A parallel cooperative coevolutionary SMPSO algorithm for multi-objective optimization 2016 ,		2

30	Virtual Savant as a generic learning approach applied to the basic independent Next Release Problem. <i>Applied Soft Computing Journal</i> , 2021 , 108, 107374	7.5	2
29	Design of Cellular Memetic Algorithms. <i>Operations Research/ Computer Science Interfaces Series</i> , 2008 , 101-114	0.3	2
28	Learning to optimize timetables for efficient transfers in public transportation systems. <i>Applied Soft Computing Journal</i> , 2022 , 119, 108616	7.5	2
27	Support Vector Machine Acceleration for Intel Xeon Phi Manycore Processors. <i>Communications in Computer and Information Science</i> , 2018 , 277-290	0.3	1
26	Analyzing the Influence of LLVM Code Optimization Passes on Software Performance. <i>Communications in Computer and Information Science</i> , 2018 , 272-283	0.3	1
25	A Novel CAD Tool for Electric Educational Diagrams. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 810	2.6	1
24	Savant: Automatic parallelization of a scheduling heuristic with machine learning 2013 ,		1
23	An Overlay Approach for Optimising Small-World Properties in VANETs. <i>Lecture Notes in Computer Science</i> , 2013 , 32-41	0.9	1
22	Iterated Local Search for de Novo Genomic Sequencing. <i>Lecture Notes in Computer Science</i> , 2010 , 428-436.9		1
21	Parallel virtual savant for the heterogeneous computing scheduling problem. <i>Journal of Computational Science</i> , 2020 , 39, 101048	3.4	1
20	Assessing the Impact of Batch-Based Data Aggregation Techniques for Feature Engineering on Machine Learning-Based Network IDSs. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 116-125	0.4	1
19	A novel multi-objective optimization approach to guarantee quality of service and energy efficiency in a heterogeneous bus fleet system. <i>Engineering Optimization</i> , 1-17	2	1
18	Cost and QoS Optimization of Cloud-Based Content Distribution Networks Using Evolutionary Algorithms. <i>Communications in Computer and Information Science</i> , 2019 , 293-306	0.3	0
17	Introduction to Evolutionary Algorithms 2014 , 27-47		0
16	A Comparative Analysis of Accurate and Robust Bi-objective Scheduling Heuristics for Datacenters. <i>Communications in Computer and Information Science</i> , 2018 , 223-235	0.3	
15	Realistic Vehicular Mobility 2014 , 191-207		
14	Proposed Optimization Framework 2014 , 105-134		
13	Broadcasting Protocol 2014 , 135-152		

12 Energy Management **2014**, 153-171

11 Survey on Optimization Problems for Mobile Ad Hoc Networks **2014**, 49-78

10 Intelligent Electric Drive Management for Plug-in Hybrid Buses. *Communications in Computer and Information Science*, **2020**, 85-97 0.3

9 Including Dynamic Adaptive Topology to Particle Swarm Optimization Algorithms. *Lecture Notes in Management and Industrial Engineering*, **2021**, 517-531 0.3

8 Two novel branch and bound algorithms for the vertex bisection problem. *Expert Systems With Applications*, **2022**, 190, 116169 7.8

7 Finding the Most Influential Parameters of Coalitions in a PSO-CO Algorithm. *Communications in Computer and Information Science*, **2018**, 284-296 0.3

6 Learning Variables Structure Using Evolutionary Algorithms to Improve Predictive Performance. *Communications in Computer and Information Science*, **2020**, 58-68 0.3

5 Efficient Hierarchical Task Scheduling on GRIDS Accounting for Computation and Communications. *Studies in Computational Intelligence*, **2011**, 25-47 0.8

4 Optimizing AEDB Broadcasting Protocol with Parallel Multi-objective Cooperative Coevolutionary NSGA-II. *Lecture Notes in Computer Science*, **2014**, 39-50 0.9

3 It's Not a Bug, It's a Feature: Wait-Free Asynchronous Cellular Genetic Algorithm. *Lecture Notes in Computer Science*, **2014**, 361-370 0.9

2 Optimization Models with Coalitional Cellular Automata. *Emergence, Complexity and Computation*, **2018**, 139-169 0.1

1 A Study on the Use of Hyper-heuristics Based on Meta-Heuristics for Dynamic Optimization. *Studies in Computational Intelligence*, **2021**, 295-314 0.8