

Carlos M Fonseca

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

7,857
citations

257101

24
h-index

233125

45
g-index

60
all docs

60
docs citations

60
times ranked

4847
citing authors

#	ARTICLE	IF	CITATIONS
1	The Hypervolume Indicator. ACM Computing Surveys, 2022, 54, 1-42.	16.1	59
2	A Compressive Receding Horizon Approach for Smart Home Energy Management. IEEE Access, 2021, 9, 100407-100435.	2.6	2
3	An analysis of the Hypervolume Sharpe-Ratio Indicator. European Journal of Operational Research, 2020, 283, 614-629.	3.5	15
4	Guest Editorial Special Issue on Theoretical Foundations of Evolutionary Computation. IEEE Transactions on Evolutionary Computation, 2020, 24, 993-994.	7.5	0
5	On the rectangular knapsack problem: approximation of a specific quadratic knapsack problem. Mathematical Methods of Operations Research, 2020, 92, 107-132.	0.4	8
6	Energy-efficient multigroup communication. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3232.	2.6	1
7	Geometric Crossover in Syntactic Space. Lecture Notes in Computer Science, 2018, , 237-252.	1.0	1
8	Computing and Updating Hypervolume Contributions in Up to Four Dimensions. IEEE Transactions on Evolutionary Computation, 2018, 22, 449-463.	7.5	33
9	A box decomposition algorithm to compute the hypervolume indicator. Computers and Operations Research, 2017, 79, 347-360.	2.4	48
10	Methodology to select solutions for multiobjective optimization problems: Weighted stress function method. Journal of Multi-Criteria Decision Analysis, 2017, 24, 103-120.	1.0	6
11	Easy to say they are Hard, but Hard to see they are Easy- Towards a Categorization of Tractable Multiobjective Combinatorial Optimization Problems. Journal of Multi-Criteria Decision Analysis, 2017, 24, 82-98.	1.0	11
12	Unsure when to stop?. , 2017, , .		8
13	Computing 3-D Expected Hypervolume Improvement and Related Integrals in Asymptotically Optimal Time. Lecture Notes in Computer Science, 2017, , 685-700.	1.0	17
14	Tutorials at PPSN 2016. Lecture Notes in Computer Science, 2016, , 1012-1022.	1.0	0
15	Arbitrarily Close Alignments in the Error Space. , 2016, , .		7
16	Hypervolume Sharpe-Ratio Indicator: Formalization and First Theoretical Results. Lecture Notes in Computer Science, 2016, , 814-823.	1.0	6
17	A Multicriteria Generalization of Bayesian Global Optimization. Springer Optimization and Its Applications, 2016, , 229-242.	0.6	32
18	Greedy Hypervolume Subset Selection in Low Dimensions. Evolutionary Computation, 2016, 24, 521-544.	2.3	42

#	ARTICLE	IF	CITATIONS
19	Hypervolume Subset Selection in Two Dimensions: Formulations and Algorithms. <i>Evolutionary Computation</i> , 2016, 24, 411-425.	2.3	45
20	A Comparative Study of Algorithms for Solving the Multiobjective Open-Pit Mining Operational Planning Problems. <i>Lecture Notes in Computer Science</i> , 2015, , 433-447.	1.0	2
21	Greedy Hypervolume Subset Selection in the Three-Objective Case. , 2015, , .		13
22	Representation of the non-dominated set in biobjective discrete optimization. <i>Computers and Operations Research</i> , 2015, 63, 172-186.	2.4	24
23	Semantic Learning Machine: A Feedforward Neural Network Construction Algorithm Inspired by Geometric Semantic Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2015, , 280-285.	1.0	5
24	On the Generalization Ability of Geometric Semantic Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2015, , 41-52.	1.0	26
25	On the performance of linkage-tree genetic algorithms for the multidimensional knapsack problem. <i>Neurocomputing</i> , 2014, 146, 17-29.	3.5	26
26	A Portfolio Optimization Approach to Selection in Multiobjective Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2014, , 672-681.	1.0	21
27	The Relationship between the Covered Fraction, Completeness and Hypervolume Indicators. <i>Lecture Notes in Computer Science</i> , 2012, , 25-36.	1.0	6
28	On the Computation of the Empirical Attainment Function. <i>Lecture Notes in Computer Science</i> , 2011, , 106-120.	1.0	25
29	Computing Hypervolume Contributions in Low Dimensions: Asymptotically Optimal Algorithm and Complexity Results. <i>Lecture Notes in Computer Science</i> , 2011, , 121-135.	1.0	36
30	Nonlinear Network Optimization – An Embedding Vector Space Approach. <i>IEEE Transactions on Evolutionary Computation</i> , 2010, 14, 206-226.	7.5	33
31	Penalized likelihood and multi-objective spatial scans for the detection and inference of irregular clusters. <i>International Journal of Health Geographics</i> , 2010, 9, 55.	1.2	34
32	The Attainment-Function Approach to Stochastic Multiobjective Optimizer Assessment and Comparison. , 2010, , 103-130.		14
33	Assessing the quality of the relation between scalarizing function parameters and solutions in multiobjective optimization. , 2009, , .		6
34	On the Complexity of Computing the Hypervolume Indicator. <i>IEEE Transactions on Evolutionary Computation</i> , 2009, 13, 1075-1082.	7.5	220
35	A Multi-Quantile Approach for Open-Loop Stochastic Dynamic Programming Problems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 52-57.	0.4	1
36	A multi-objective evolutionary algorithm to exploit the similarities of resource allocation problems. <i>Journal of Scheduling</i> , 2008, 11, 405-419.	1.3	24

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37	Power distribution network expansion scheduling using dynamic programming genetic algorithm. IET Generation, Transmission and Distribution, 2008, 2, 444.	1.4	35
38	A New Methodology to Select the Preferred Solutions from the Pareto-optimal Set: Application to Polymer Extrusion. AIP Conference Proceedings, 2007, , .	0.3	1
39	Methodology to select solutions from the pareto-optimal set. , 2007, , .		42
40	On the roles of redundancy and neutrality in evolutionary optimization. , 2007, , .		3
41	A unified model of optimisation problems. , 2007, , .		0
42	How redundancy and neutrality may affect evolution on NK fitness landscapes. , 2007, , .		3
43	Multi-objective Evolutionary Algorithms for Resource Allocation Problems. , 2007, , 401-416.		4
44	A preliminary comparison of tree encoding schemes for evolutionary algorithms. , 2007, , .		14
45	Multi-Objective Evolutionary Algorithm for University Class Timetabling Problem. Studies in Computational Intelligence, 2007, , 197-236.	0.7	14
46	Bi-objective Combined Facility Location and Network Design. , 2007, , 486-500.		6
47	Decision Making in Evolutionary Optimization (Abstract of Invited Talk). , 2007, , 3-3.		0
48	Exploring the Performance of Stochastic Multiobjective Optimisers with the Second-Order Attainment Function. Lecture Notes in Computer Science, 2005, , 250-264.	1.0	41
49	Identifying the Structure of NonLinear Dynamic Systems Using Multiobjective Genetic Programming. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2004, 34, 531-545.	3.4	89
50	On Optimization and Extreme Value Theory. Methodology and Computing in Applied Probability, 2003, 5, 183-195.	0.7	8
51	Nonlinear identification of aircraft gas-turbine dynamics. Neurocomputing, 2003, 55, 551-579.	3.5	50
52	Performance assessment of multiobjective optimizers: an analysis and review. IEEE Transactions on Evolutionary Computation, 2003, 7, 117-132.	7.5	3,206
53	A link between the multivariate cumulative distribution function and the hitting function for random closed sets. Statistics and Probability Letters, 2002, 57, 179-182.	0.4	2
54	Inferential Performance Assessment of Stochastic Optimisers and the Attainment Function. Lecture Notes in Computer Science, 2001, , 213-225.	1.0	115

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55	Multiobjective optimization and multiple constraint handling with evolutionary algorithms. II. Application example. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1998, 28, 38-47.	3.4	310
56	Multiobjective optimization and multiple constraint handling with evolutionary algorithms. I. A unified formulation. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1998, 28, 26-37.	3.4	960
57	Non-Linear System Identification with Multiobjective Genetic Algorithms. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 1169-1174.	0.4	15
58	An Overview of Evolutionary Algorithms in Multiobjective Optimization. Evolutionary Computation, 1995, 3, 1-16.	2.3	1,865