

Daniel Molina Cabrera

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4394827/publications.pdf>

Version: 2024-02-01

58
papers

11,652
citations

331538

21
h-index

330025

37
g-index

59
all docs

59
docs citations

59
times ranked

8665
citing authors

#	ARTICLE	IF	CITATIONS
1	A practical tutorial on the use of nonparametric statistical tests as a methodology for comparing evolutionary and swarm intelligence algorithms. <i>Swarm and Evolutionary Computation</i> , 2011, 1, 3-18.	4.5	4,070
2	Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. <i>Information Fusion</i> , 2020, 58, 82-115.	11.7	3,332
3	A study on the use of non-parametric tests for analyzing the evolutionary algorithms' behaviour: a case study on the CEC 2005 Special Session on Real Parameter Optimization. <i>Journal of Heuristics</i> , 2009, 1.1, 15, 617-644.		1,454
4	Bio-inspired computation: Where we stand and what's next. <i>Swarm and Evolutionary Computation</i> , 2019, 48, 220-250.	4.5	430
5	Global and local real-coded genetic algorithms based on parent-centric crossover operators. <i>European Journal of Operational Research</i> , 2008, 185, 1088-1113.	3.5	288
6	Real-Coded Memetic Algorithms with Crossover Hill-Climbing. <i>Evolutionary Computation</i> , 2004, 12, 273-302.	2.3	285
7	Memetic Algorithms for Continuous Optimisation Based on Local Search Chains. <i>Evolutionary Computation</i> , 2010, 18, 27-63.	2.3	155
8	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. <i>Swarm and Evolutionary Computation</i> , 2021, 64, 100888.	4.5	154
9	Editorial scalability of evolutionary algorithms and other metaheuristics for large-scale continuous optimization problems. <i>Soft Computing</i> , 2011, 15, 2085-2087.	2.1	147
10	Comprehensive Taxonomies of Nature- and Bio-inspired Optimization: Inspiration Versus Algorithmic Behavior, Critical Analysis Recommendations. <i>Cognitive Computation</i> , 2020, 12, 897-939.	3.6	125
11	MA-SW-Chains: Memetic algorithm based on local search chains for large scale continuous global optimization. , 2010, , .		112
12	Memetic algorithms based on local search chains for large scale continuous optimisation problems: MA-SSW-Chains. <i>Soft Computing</i> , 2011, 15, 2201-2220.	2.1	88
13	A panoramic view and swot analysis of artificial intelligence for achieving the sustainable development goals by 2030: progress and prospects. <i>Applied Intelligence</i> , 2021, 51, 6497-6527.	3.3	75
14	A prescription of methodological guidelines for comparing bio-inspired optimization algorithms. <i>Swarm and Evolutionary Computation</i> , 2021, 67, 100973.	4.5	73
15	Adaptive Local Search Parameters for Real-Coded Memetic Algorithms. , 0, , .		70
16	A Walk into Metaheuristics for Engineering Optimization: Principles, Methods and Recent Trends. <i>International Journal of Computational Intelligence Systems</i> , 2015, 8, 606.	1.6	69
17	Since CEC 2005 competition on real-parameter optimisation: a decade of research, progress and comparative analysis's weakness. <i>Soft Computing</i> , 2017, 21, 5573-5583.	2.1	66
18	An Insight into Bio-inspired and Evolutionary Algorithms for Global Optimization: Review, Analysis, and Lessons Learnt over a Decade of Competitions. <i>Cognitive Computation</i> , 2018, 10, 517-544.	3.6	66

#	ARTICLE	IF	CITATIONS
19	Continuous scatter search: An analysis of the integration of some combination methods and improvement strategies. <i>European Journal of Operational Research</i> , 2006, 169, 450-476.	3.5	60
20	SHADE with Iterative Local Search for Large-Scale Global Optimization. , 2018, , .		55
21	Iterated greedy for the maximum diversity problem. <i>European Journal of Operational Research</i> , 2011, 214, 31-38.	3.5	52
22	Performance evaluation of automatically tuned continuous optimizers on different benchmark sets. <i>Applied Soft Computing Journal</i> , 2015, 27, 490-503.	4.1	44
23	Iterative hybridization of DE with local search for the CEC'2015 special session on large scale global optimization. , 2015, , .		31
24	Variable mesh optimization for continuous optimization problems. <i>Soft Computing</i> , 2012, 16, 511-525.	2.1	30
25	A coral reefs optimization algorithm with substrate layers and local search for large scale global optimization. , 2016, , .		27
26	A high performance memetic algorithm for extremely high-dimensional problems. <i>Information Sciences</i> , 2015, 293, 35-58.	4.0	25
27	Lights and shadows in Evolutionary Deep Learning: Taxonomy, critical methodological analysis, cases of study, learned lessons, recommendations and challenges. <i>Information Fusion</i> , 2021, 67, 161-194.	11.7	21
28	Variable mesh optimization for the 2013 CEC Special Session Niching Methods for Multimodal Optimization. , 2013, , .		19
29	Memetic Algorithm with Local Search Chaining for Continuous Optimization Problems: A Scalability Test. , 2009, , .		16
30	Region based memetic algorithm for real-parameter optimisation. <i>Information Sciences</i> , 2014, 262, 15-31.	4.0	16
31	Memetic algorithm with Local search chaining for large scale continuous optimization problems. , 2009, , .		15
32	Region-based memetic algorithm with archive for multimodal optimisation. <i>Information Sciences</i> , 2016, 367-368, 719-746.	4.0	15
33	Evolutionary algorithms for large-scale global optimisation: a snapshot, trends and challenges. <i>Progress in Artificial Intelligence</i> , 2016, 5, 85-89.	1.5	15
34	Dynamically updated region based memetic algorithm for the 2013 CEC Special Session and Competition on Real Parameter Single Objective Optimization. , 2013, , .		13
35	A Note on Bound Constraints Handling for the IEEE CECâ€™05 Benchmark Function Suite. <i>Evolutionary Computation</i> , 2014, 22, 351-359.	2.3	13
36	Memetic Algorithms with Local Search Chains in R: The Rmalschains Package. <i>Journal of Statistical Software</i> , 2016, 75, .	1.8	13

#	ARTICLE	IF	CITATIONS
37	Time Series Modeling and Forecasting Using Memetic Algorithms for Regime-Switching Models. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1841-1847.	7.2	12
38	Influence of regions on the memetic algorithm for the CEC'2014 Special Session on Real-Parameter Single Objective Optimisation. , 2014, , .		11
39	A Local Genetic Algorithm for Binary-Coded Problems. Lecture Notes in Computer Science, 2006, , 192-201.	1.0	10
40	Ordering Artificial Intelligence Based Recommendations to Tackle the SDGs with a Decision-Making Model Based on Surveys. Sustainability, 2021, 13, 6038.	1.6	9
41	Real-parameter crossover operators with multiple descendents: An experimental study. International Journal of Intelligent Systems, 2008, 23, 246-268.	3.3	8
42	Memetic Algorithm for Intense Local Search Methods Using Local Search Chains. Lecture Notes in Computer Science, 2008, , 58-71.	1.0	8
43	A Novel Memetic Framework for Enhancing Differential Evolution Algorithms via Combination With Alopex Local Search. International Journal of Computational Intelligence Systems, 0, , .	1.6	8
44	Toolkit for the Automatic Comparison of Optimizers: Comparing Large-Scale Global Optimizers Made Easy. , 2018, , .		7
45	An ACO algorithm benchmarked on the BBOB noiseless function testbed. , 2012, , .		6
46	Analysis among winners of different IEEE CEC competitions on real-parameters optimization: Is there always improvement?. , 2017, , .		6
47	A test for the homoscedasticity of the residuals in fuzzy rule-based forecasters. Applied Intelligence, 2011, 34, 386-393.	3.3	5
48	Region based memetic algorithm with LS chaining. , 2012, , .		4
49	Applying Memetic algorithm with Improved L-SHADE and Local Search Pool for the 100-digit challenge on Single Objective Numerical Optimization. , 2019, , .		3
50	Comparing Large-Scale Global Optimization Competition winners in a real-world problem. , 2019, , .		3
51	Performance analysis of real-coded evolutionary algorithms under a computationally expensive optimization scenario: 3Dâ€“2D Comparative Radiography. Applied Soft Computing Journal, 2020, 97, 106793.	4.1	3
52	A least square support vector machine approach based on bvRNA-GA for modeling photovoltaic systems. Applied Soft Computing Journal, 2022, 117, 108357.	4.1	3
53	More is not Always Better: Insights from a Massive Comparison of Meta-heuristic Algorithms over Real-Parameter Optimization Problems. , 2021, , .		3
54	Optimising real parameters using the information of a mesh of solutions: VMO algorithm. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
55	Modeling dynamics of a real-coded CHC algorithm in terms of dynamical probability distributions. <i>Soft Computing</i> , 2012, 16, 331-351.	2.1	1
56	NATURE- AND BIO-INSPIRED OPTIMIZATION: THE GOOD, THE BAD, THE UGLY AND THE HOPEFUL. <i>Dyna (Spain)</i> , 2022, 97, 114-117.	0.1	1
57	On The Role Of Execution Order In Hybrid Evolutionary Algorithms. , 2020, , .		0
58	Study of the Influence of the Local Search Method in Memetic Algorithms for Large Scale Continuous Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2009, , 221-234.	1.0	0