

Efren Mezura-Montes

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.

126
papers

3,716
citations

22
h-index

59
g-index

154
ext. papers

4,407
ext. citations

3.6
avg, IF

5.88
L-index

#	Paper	IF	Citations
126	Pseudo-feasible solutions in evolutionary bilevel optimization: Test problems and performance assessment. <i>Applied Mathematics and Computation</i> , 2022 , 412, 126577	2.7	
125	Variable Decomposition for Large-Scale Constrained Optimization Problems Using a Grouping Genetic Algorithm. <i>Mathematical and Computational Applications</i> , 2022 , 27, 23	1	0
124	Induction of decision trees as classification models through metaheuristics. <i>Swarm and Evolutionary Computation</i> , 2021 , 101006	9.8	3
123	Evolution of Generative Adversarial Networks Using PSO for Synthesis of COVID-19 Chest X-ray Images 2021 ,		2
122	Adaptive Controller Tuning Method Based on Online Multiobjective Optimization: A Case Study of the Four-Bar Mechanism. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1272-1285	10.2	4
121	A regression tree predictive model for virtual machine startup time in IaaS clouds. <i>Cluster Computing</i> , 2021 , 24, 1217-1233	2.1	
120	Variation Operators for Grouping Genetic Algorithms: A Review. <i>Swarm and Evolutionary Computation</i> , 2021 , 60, 100796	9.8	11
119	Discriminative learning of bayesian network parameters by differential evolution. <i>Applied Mathematical Modelling</i> , 2021 , 93, 244-256	4.5	2
118	A Review on Convolutional Neural Networks Encodings for Neuroevolution. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	15.6	1
117	Neuroevolution for Sentiment Analysis in Tweets Written in Mexican Spanish. <i>Lecture Notes in Computer Science</i> , 2021 , 101-110	0.9	
116	Smart Grid Optimization with the Advanced jSO Algorithm. <i>Communications in Computer and Information Science</i> , 2021 , 171-181	0.3	
115	Full Model Selection Problem and Pipelines for Time-Series Databases: Contrasting Population-Based and Single-point Search Metaheuristics. <i>Ingenieria E Investigacion</i> , 2021 , 41, e79308	0.3	
114	Classification of colposcopic images using a multi-breakpoints discretization approach on temporal patterns. <i>Biomedical Signal Processing and Control</i> , 2021 , 69, 102918	4.9	0
113	A multi-objective genetic algorithm to find active modules in multiplex biological networks. <i>PLoS Computational Biology</i> , 2021 , 17, e1009263	5	2
112	Automated parameter tuning as a bilevel optimization problem solved by a surrogate-assisted population-based approach. <i>Applied Intelligence</i> , 2021 , 51, 5978-6000	4.9	1
111	Requirements and GitHub Issues: An Automated Approach for Quality Requirements Classification. <i>Programming and Computer Software</i> , 2021 , 47, 704-721	0.8	0
110	Differential Evolution in Robust Optimization Over Time Using a Survival Time Approach. <i>Mathematical and Computational Applications</i> , 2020 , 25, 72	1	1

109	Multi-objective meta-heuristic optimization in intelligent control: A survey on the controller tuning problem. <i>Applied Soft Computing Journal</i> , 2020 , 93, 106342	7.5	26
108	Evolutionary Multi-Objective Energy Production Optimization: An Empirical Comparison. <i>Mathematical and Computational Applications</i> , 2020 , 25, 32	1	2
107	Data-Driven Bayesian Network Learning: A Bi-Objective Approach to Address the Bias-Variance Decomposition. <i>Mathematical and Computational Applications</i> , 2020 , 25, 37	1	3
106	A permutational-based Differential Evolution algorithm for feature subset selection. <i>Pattern Recognition Letters</i> , 2020 , 133, 86-93	4.7	5
105	A multi-breakpoints approach for symbolic discretization of time series. <i>Knowledge and Information Systems</i> , 2020 , 62, 2795-2834	2.4	3
104	A surrogate-assisted metaheuristic for bilevel optimization 2020 ,		2
103	Towards a Quantitative Identification of Mobile Social Media UIDPs\Visual Features Using a Combination of Digital Image Processing and Machine Learning Techniques. <i>Studies in Computational Intelligence</i> , 2020 , 659-674	0.8	
102	Metaheuristics to solve grouping problems: A review and a case study. <i>Swarm and Evolutionary Computation</i> , 2020 , 53, 100643	9.8	22
101	Preface to the special issue on data science in dynamics and control. <i>International Journal of Dynamics and Control</i> , 2020 , 8, 1053-1053	1.7	
100	A modified brain storm optimization algorithm with a special operator to solve constrained optimization problems. <i>Applied Intelligence</i> , 2020 , 50, 4145-4161	4.9	4
99	Feature Selection on 2D and 3D Geometric Features to Improve Facial Expression Recognition. <i>Sensors</i> , 2020 , 20,	3.8	3
98	A local cooperative approach to solve large-scale constrained optimization problems. <i>Swarm and Evolutionary Computation</i> , 2019 , 51, 100577	9.8	7
97	Corner detection of intensity images with cellular neural networks (CNN) and evolutionary techniques. <i>Neurocomputing</i> , 2019 , 347, 82-93	5.4	10
96	Deterministic Parameter Control in Differential Evolution with Combined Variants for Constrained Search Spaces. <i>Studies in Computational Intelligence</i> , 2019 , 3-28	0.8	
95	Adaptive boundary constraint-handling scheme for constrained optimization. <i>Soft Computing</i> , 2019 , 23, 8247-8280	3.5	2
94	A New Evolutionary Optimization Method Based on Center of Mass. <i>Asset Analytics</i> , 2019 , 65-74	0.3	4
93	A Graph-Theory-Based Method for Topological and Dimensional Representation of Planar Mechanisms as a Computational Tool for Engineering Design. <i>IEEE Access</i> , 2019 , 7, 587-596	3.5	6
92	Immune Generalized Differential Evolution for dynamic multi-objective environments: An empirical study. <i>Knowledge-Based Systems</i> , 2018 , 142, 192-219	7.3	7

91	Differential evolution based adaptation for the direct current motor velocity control parameters. <i>Mathematics and Computers in Simulation</i> , 2018 , 150, 122-141	3.3	4
90	Dynamic differential evolution with combined variants and a repair method to solve dynamic constrained optimization problems: an empirical study. <i>Soft Computing</i> , 2018 , 22, 541-570	3.5	3
89	A cost-benefit local search coordination in multimeme differential evolution for constrained numerical optimization problems. <i>Swarm and Evolutionary Computation</i> , 2018 , 39, 249-266	9.8	8
88	A Comparison of Constraint Handling Techniques for Dynamic Constrained Optimization Problems 2018 ,		5
87	A Diversity Promotion Study in Constrained Optimizations 2018 ,		1
86	Constraint-handling techniques in surrogate-assisted evolutionary optimization. An empirical study. <i>Applied Soft Computing Journal</i> , 2018 , 73, 215-229	7.5	14
85	Improved multi-objective clustering with automatic determination of the number of clusters. <i>Neural Computing and Applications</i> , 2017 , 28, 2255-2275	4.8	18
84	An Improved Centroid-Based Boundary Constraint-Handling Method in Differential Evolution for Constrained Optimization. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2017 , 31, 1759023	1.1	2
83	2017 ,		1
82	The baldwin effect on a memetic differential evolution for constrained numerical optimization problems 2017 ,		3
81	An experimental comparison of two constraint handling approaches used with differential evolution 2017 ,		2
80	Empirical study of bound constraint-handling methods in Particle Swarm Optimization for constrained search spaces 2017 ,		4
79	Constraint-Handling Techniques for the Concurrent Design of a Five-Bar Parallel Robot. <i>IEEE Access</i> , 2017 , 5, 23010-23021	3.5	9
78	An adaptive symbolic discretization scheme for the classification of temporal datasets using NSGA-II 2017 ,		1
77	A metaheuristic for a numerical approximation to the mass transfer problem. <i>International Journal of Applied Mathematics and Computer Science</i> , 2016 , 26, 757-766	1.7	
76	Surrogate-Assisted Differential Evolution with an Adaptive Evolution Control Based on Feasibility to Solve Constrained Optimization Problems. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 809-822	0.4	5
75	Improved Modified Bacterial Foraging Optimization Algorithm to Solve Constrained Numerical Optimization Problems. <i>Applied Mathematics and Information Sciences</i> , 2016 , 10, 607-622	2.4	4
74	Two-Swim Operators in the Modified Bacterial Foraging Algorithm for the Optimal Synthesis of Four-Bar Mechanisms. <i>Computational Intelligence and Neuroscience</i> , 2016 , 2016, 4525294	3	9

73	A study of constraint-handling techniques in brain storm optimization 2016 ,		3
72	Cervical image segmentation using active contours and evolutionary programming over temporary acetowhite patterns 2016 ,		2
71	Feature selection to detect fallen pose using depth images 2016 ,		7
70	On the Use of Semantics in Multi-objective Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2016 , 353-363	0.9	5
69	Differential Evolution with a Repair Method to Solve Dynamic Constrained Optimization Problems 2015 ,		2
68	A Repair Method for Differential Evolution with Combined Variants to Solve Dynamic Constrained Optimization Problems 2015 ,		7
67	Evolutionary programming for the length minimization of addition chains. <i>Engineering Applications of Artificial Intelligence</i> , 2015 , 37, 125-134	7.2	11
66	Towards the Full Model Selection in temporal databases by using micro-differential evolution. An empirical study 2015 ,		1
65	A novel boundary constraint-handling technique for constrained numerical optimization problems 2015 ,		4
64	Immune generalized differential evolution for dynamic multiobjective optimization problems 2015 ,		3
63	Approximated algorithms for the minimum dilation triangulation problem. <i>Journal of Heuristics</i> , 2014 , 20, 189-209	1.9	3
62	Application of time series discretization using evolutionary programming for classification of precancerous cervical lesions. <i>Journal of Biomedical Informatics</i> , 2014 , 49, 73-83	10.2	14
61	Self-adaptive mix of particle swarm methodologies for constrained optimization. <i>Information Sciences</i> , 2014 , 277, 216-233	7.7	40
60	Optimum synthesis of a four-bar mechanism using the modified bacterial foraging algorithm. <i>International Journal of Systems Science</i> , 2014 , 45, 1080-1100	2.3	14
59	How good is crude MDL for solving the bias-variance dilemma? An empirical investigation based on Bayesian networks. <i>PLoS ONE</i> , 2014 , 9, e92866	3.7	2
58	Differential evolution with combined variants for dynamic constrained optimization 2014 ,		11
57	Stepsize control on the modified bacterial foraging algorithm for constrained numerical optimization 2014 ,		1
56	Memetic Modified Artificial Bee Colony for constrained optimization 2014 ,		1

55	2014,		2
54	An empirical comparison of two crossover operators in real-coded genetic algorithms for constrained numerical optimization problems 2014,		2
53	Structured Population Size Reduction Differential Evolution with Multiple Mutation Strategies on CEC 2013 real parameter optimization 2013,		28
52	Memetic differential evolution for constrained numerical optimization problems 2013,		6
51	Real Parameter Single Objective Optimization using self-adaptive differential evolution algorithm with more strategies 2013,		19
50	A hybrid version of differential evolution with two differential mutation operators applied by stages 2013,		5
49	Particle Swarm Optimizer for constrained optimization 2013,		4
48	A review of the bacterial foraging algorithm in constrained numerical optimization 2013,		2
47	An image registration method for colposcopic images. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 285962	2.8	3
46	Robotic Behavior Implementation Using Two Different Differential Evolution Variants. <i>Lecture Notes in Computer Science</i> , 2013 , 216-226	0.9	1
45	Multi-objective airfoil shape optimization using a multiple-surrogate approach 2012,		12
44	Empirical analysis of a modified Artificial Bee Colony for constrained numerical optimization. <i>Applied Mathematics and Computation</i> , 2012 , 218, 10943-10973	2.7	76
43	Multiobjective Evolutionary Algorithms in Aeronautical and Aerospace Engineering. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 662-694	15.6	95
42	A Combination of Specialized Differential Evolution Variants for Constrained Optimization. <i>Lecture Notes in Computer Science</i> , 2012 , 261-270	0.9	10
41	Adaptation and local search in the modified bacterial foraging algorithm for constrained optimization 2012,		5
40	Constraint-handling in nature-inspired numerical optimization: Past, present and future. <i>Swarm and Evolutionary Computation</i> , 2011 , 1, 173-194	9.8	637
39	Evolutionary Algorithms Applied to Multi-Objective Aerodynamic Shape Optimization. <i>Studies in Computational Intelligence</i> , 2011 , 211-240	0.8	9
38	Parametric reconfiguration improvement in non-iterative concurrent mechatronic design using an evolutionary-based approach. <i>Engineering Applications of Artificial Intelligence</i> , 2011 , 24, 757-771	7.2	18

37	Addition chain length minimization with evolutionary programming 2011 ,		8
36	Times Series Discretization Using Evolutionary Programming. <i>Lecture Notes in Computer Science</i> , 2011 , 225-234	0.9	3
35	Smart flight and dynamic tolerances in the artificial bee colony for constrained optimization 2010 ,		10
34	Elitist Artificial Bee Colony for constrained real-parameter optimization 2010 ,		26
33	An Experimental Comparison of Multiobjective Algorithms: NSGA-II and OMOPSO 2010 ,		8
32	MODE-LD+SS: A novel Differential Evolution algorithm incorporating local dominance and scalar selection mechanisms for multi-objective optimization 2010 ,		9
31	Differential evolution in constrained numerical optimization: An empirical study. <i>Information Sciences</i> , 2010 , 180, 4223-4262	7.7	128
30	pMODE-LD+SS: An Effective and Efficient Parallel Differential Evolution Algorithm for Multi-Objective Optimization 2010 , 21-30		
29	Parameter control in Differential Evolution for constrained optimization 2009 ,		24
28	Improved Particle Swarm Optimization in Constrained Numerical Search Spaces. <i>Studies in Computational Intelligence</i> , 2009 , 299-332	0.8	14
27	Self-adaptive and Deterministic Parameter Control in Differential Evolution for Constrained Optimization. <i>Studies in Computational Intelligence</i> , 2009 , 95-120	0.8	24
26	A Genetic Algorithm with repair and local search mechanisms able to find minimal length addition chains for small exponents 2009 ,		10
25	Elitistic Evolution: An Efficient Heuristic for Global Optimization. <i>Lecture Notes in Computer Science</i> , 2009 , 171-182	0.9	2
24	An empirical study about the usefulness of evolution strategies to solve constrained optimization problems. <i>International Journal of General Systems</i> , 2008 , 37, 443-473	2.1	284
23	Dynamic adaptation and multiobjective concepts in a particle swarm optimizer for constrained optimization 2008 ,		2
22	Multi-objective Optimization Using Differential Evolution: A Survey of the State-of-the-Art. <i>Studies in Computational Intelligence</i> , 2008 , 173-196	0.8	81
21	Constrained Optimization via Multiobjective Evolutionary Algorithms 2008 , 53-75		41
20	A Preliminary Study of Fitness Inheritance in Evolutionary Constrained Optimization. <i>Studies in Computational Intelligence</i> , 2008 , 1-14	0.8	5

19	Looking Inside Particle Swarm Optimization in Constrained Search Spaces. <i>Lecture Notes in Computer Science</i> , 2008 , 451-461	0.9	2
18	Comparing bio-inspired algorithms in constrained optimization problems 2007 ,		20
17	An ant system with steps counter for the job shop scheduling problem 2007 ,		1
16	Integration of structure and control using an evolutionary approach: an application to the optimal concurrent design of a CVT. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 71, 883-901	2.4	15
15	Multiple trial vectors in differential evolution for engineering design. <i>Engineering Optimization</i> , 2007 , 39, 567-589	2	84
14	An Evolutionary Approach to Solve a Novel Mechatronic Multiobjective Optimization Problem 2007 , 329-351		1
13	A comparative study of differential evolution variants for global optimization 2006 ,		307
12	A simple multimembered evolution strategy to solve constrained optimization problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2005 , 9, 1-17	15.6	406
11	Useful Infeasible Solutions in Engineering Optimization with Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2005 , 652-662	0.9	61
10	Promising infeasibility and multiple offspring incorporated to differential evolution for constrained optimization 2005 ,		38
9	Simple Feasibility Rules and Differential Evolution for Constrained Optimization. <i>Lecture Notes in Computer Science</i> , 2004 , 707-716	0.9	34
8	Handling constraints using multiobjective optimization concepts. <i>International Journal for Numerical Methods in Engineering</i> , 2004 , 59, 1989-2017	2.4	121
7	An Improved Diversity Mechanism for Solving Constrained Optimization Problems Using a Multimembered Evolution Strategy. <i>Lecture Notes in Computer Science</i> , 2004 , 700-712	0.9	10
6	A Simple Evolution Strategy to Solve Constrained Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2003 , 640-641	0.9	9
5	Constraint-handling in genetic algorithms through the use of dominance-based tournament selection. <i>Advanced Engineering Informatics</i> , 2002 , 16, 193-203	7.4	570
4	Handling Constraints in Genetic Algorithms Using Dominance-based Tournaments 2002 , 273-284		29
3	Saving evaluations in differential evolution for constrained optimization		2
2	Multiobjective-based concepts to handle constraints in evolutionary algorithms		7

1	Adding a diversity mechanism to a simple evolution strategy to solve constrained optimization problems	18
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