Edite M G P Fernandes

List of Publications by Year
in descending order

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86	727	623574	610775
papers	citations	14 h-index	24 g-index

93	93	93	511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Clustering Algorithm Based on Fitness Probability Scores for Cluster Centers Optimization. Lecture Notes in Computer Science, 2021, , 382-396.	1.0	0
2	A Multiple Shooting Descent-Based Filter Method for Optimal Control Problems. Computational Methods in Applied Sciences (Springer), 2021, , 377-392.	0.1	1
3	Objective and Violation Upper Bounds on a DIRECT-Filter Method for Global Optimization. Lecture Notes in Computer Science, 2020, , 59-71.	1.0	0
4	Penalty-Based Heuristic DIRECT Method for Constrained Global Optimization. Lecture Notes in Computer Science, 2020, , 538-551.	1.0	1
5	A stochastic coordinate descent for bound constrained global optimization. AIP Conference Proceedings, 2019, , .	0.3	2
6	A Penalty Approach for Solving Nonsmooth and Nonconvex MINLP Problems. Springer Proceedings in Mathematics and Statistics, 2018, , 39-55.	0.1	0
7	Filter-based DIRECT method for constrained global optimization. Journal of Global Optimization, 2018, 71, 517-536.	1.1	16
8	On Metaheuristics for Solving the Parameter Estimation Problem in Dynamic Systems: A Comparative Study. Journal of Optimization, 2018, 2018, 1-21.	6.0	4
9	Preface to the Special Issue â€œGOWâ€™16â€• Journal of Global Optimization, 2018, 71, 441-442.	1.1	0
10	On a multiobjective optimal control of a tumor growth model with immune response and drug therapies. International Transactions in Operational Research, 2018, 25, 269-294.	1.8	7
11	Finding Multiple Roots of Systems of Nonlinear Equations by a Hybrid Harmony Search-Based Multistart Method. Applied Mathematics and Information Sciences, 2018, 12, 21-32.	0.7	5
12	On a smoothed penalty-based algorithm for global optimization. Journal of Global Optimization, 2017, 69, 561-585.	1.1	1
13	Theoretical and Practical Convergence of a Self-Adaptive Penalty Algorithm for Constrained Global Optimization. Journal of Optimization Theory and Applications, 2017, 174, 875-893.	0.8	7
14	Extension of the firefly algorithm and preference rules for solving MINLP problems. AIP Conference Proceedings, 2017, , .	0.3	1
15	Continuous Relaxation of MINLP Problems by Penalty Functions: A Practical Comparison. Lecture Notes in Computer Science, 2017, , 107-118.	1.0	0
16	Comparison of penalty functions on a penalty approach to mixed-integer optimization. AIP Conference Proceedings, 2016, , .	0.3	1
17	A shifted hyperbolic augmented Lagrangian-based artificial fish two-swarm algorithm with guaranteed convergence for constrained global optimization. Engineering Optimization, 2016, 48, 2114-2140.	1.5	7
18	Comparing immune-tumor growth models with drug therapy using optimal control. AIP Conference Proceedings, 2016, , .	0.3	1

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19	Interrupted searches in the BBMCSFilter context for MINLP problems. AIP Conference Proceedings, 2016, , .	0.3	0
20	Firefly penalty-based algorithm for bound constrained mixed-integer nonlinear programming. Optimization, 2016, 65, 1085-1104.	1.0	13
21	Improving Efficiency of a Multistart with Interrupted Hooke-and-Jeeves Filter Search for Solving MINLP Problems. Lecture Notes in Computer Science, 2016, , 345-358.	1.0	0
22	Direct Sequential Based Firefly Algorithm for the $$alpha $$ -Pinene Isomerization Problem. Lecture Notes in Computer Science, 2016, , 386-401.	1.0	1
23	Combining Non-dominance, Objective-order and Spread Metric to Extend Firefly Algorithm to Multi-objective Optimization. Lecture Notes in Computer Science, 2015, , 292-306.	1.0	2
24	Solving Large 0â€“1 Multidimensional Knapsack Problems by a New Simplified Binary Artificial Fish Swarm Algorithm. Mathematical Modelling and Algorithms, 2015, 14, 313-330.	0.5	13
25	Derivative-Free Augmented Lagrangian for Global Optimization: Cost Minimization in a Simplified Activated Sludge System Model. Mathematical Modelling and Algorithms, 2015, 14, 35-53.	0.5	1
26	Testing Nelder-Mead Based Repulsion Algorithms for Multiple Roots of Nonlinear Systems via a Two-Level Factorial Design of Experiments. PLoS ONE, 2015, 10, e0121844.	1.1	8
27	Heuristic-Based Firefly Algorithm for Bound Constrained Nonlinear Binary Optimization. Advances in Operations Research, 2014, 2014, 1-12.	0.2	11
28	A simplified binary artificial fish swarm algorithm for 0â€“1 quadratic knapsack problems. Journal of Computational and Applied Mathematics, 2014, 259, 897-904.	1.1	43
29	A filter-based artificial fish swarm algorithm for constrained global optimization: theoretical and practical issues. Journal of Global Optimization, 2014, 60, 239-263.	1.1	12
30	An artificial fish swarm algorithm based hyperbolic augmented Lagrangian method. Journal of Computational and Applied Mathematics, 2014, 259, 868-876.	1.1	15
31	Improved binary artificial fish swarm algorithm for the 0â€“1 multidimensional knapsack problems. Swarm and Evolutionary Computation, 2014, 14, 66-75.	4.5	85
32	Multiple Roots of Systems of Equations by Repulsion Merit Functions. Lecture Notes in Computer Science, 2014, , 126-139.	1.0	12
33	Branch and Bound Based Coordinate Search Filter Algorithm for Nonsmooth Nonconvex Mixed-Integer Nonlinear Programming Problems. Lecture Notes in Computer Science, 2014, , 140-153.	1.0	3
34	Multistart Hooke and Jeeves filter method for mixed variable optimization. , 2013, , .		3
35	Hooke and Jeeves based multilevel coordinate search to globally solving nonsmooth problems. , 2013, , .		0
36	Combined mutation differential evolution to solve systems of nonlinear equations. , 2013, , .		4

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37	On Challenging Techniques for Constrained Global Optimization. Intelligent Systems Reference Library, 2013, , 641-671.	1.0	5
38	Modified Constrained Differential Evolution for Solving Nonlinear Global Optimization Problems. Studies in Computational Intelligence, 2013, , 85-100.	0.7	4
39	Multilocal Programming: A Derivative-Free Filter Multistart Algorithm. Lecture Notes in Computer Science, 2013, , 333-346.	1.0	9
40	Multilocal Programming and Applications. Intelligent Systems Reference Library, 2013, , 157-186.	1.0	7
41	Solving systems of inequalities and equalities by a nonmonotone hybrid tabu search method. , 2012, , .		1
42	Self-adaptive combination of global tabu search and local search for nonlinear equations. International Journal of Computer Mathematics, 2012, 89, 1847-1864.	1.0	9
43	Solving Multidimensional 0â€“1 Knapsack Problem with an Artificial Fish Swarm Algorithm. Lecture Notes in Computer Science, 2012, , 72-86.	1.0	5
44	A hybrid genetic pattern search augmented Lagrangian method for constrained global optimization. Applied Mathematics and Computation, 2012, 218, 9415-9426.	1.4	28
45	An Artificial Fish Swarm Filter-Based Method for Constrained Global Optimization. Lecture Notes in Computer Science, 2012, , 57-71.	1.0	10
46	Numerical study of augmented Lagrangian algorithms for constrained global optimization. Optimization, 2011, 60, 1359-1378.	1.0	15
47	Mutation-Based Artificial Fish Swarm Algorithm for Bound Constrained Global Optimization. AIP Conference Proceedings, 2011, , .	0.3	4
48	Combining Global Tabu Search with Local Search for Solving Systems of Equalities and Inequalities. , 2011, , .		2
49	On a Primal-Dual Interior Point Filter Method. , 2011, , .		0
50	An augmented Lagrangian fish swarm based method for global optimization. Journal of Computational and Applied Mathematics, 2011, 235, 4611-4620.	1.1	52
51	Assessing the potential of interior point barrier filter line search methods: nonmonotoneversusmonotone approach. Optimization, 2011, 60, 1251-1268.	1.0	10
52	Interior point filter method for semi-infinite programming problems. Optimization, 2011, 60, 1309-1338.	1.0	6
53	Using a Genetic Algorithm to Solve a Bi-Objective WWTP Process Optimization. Operations Research Proceedings: Papers of the Annual Meeting = VortrÃge Der Jahrestagung / DGOR, 2011, , 359-364.	0.1	3
54	Heuristic Pattern Search for Bound Constrained Minimax Problems. Lecture Notes in Computer Science, 2011, , 174-184.	1.0	3

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55	Novel Fish Swarm Heuristics for Bound Constrained Global Optimization Problems. Lecture Notes in Computer Science, 2011, , 185-199.	1.0	15
56	Modified Differential Evolution Based on Global Competitive Ranking for Engineering Design Optimization Problems. Lecture Notes in Computer Science, 2011, , 245-260.	1.0	4
57	Branch-and-Bound Reduction Type Method for Semi-Infinite Programming. Lecture Notes in Computer Science, 2011, , 287-299.	1.0	0
58	Nonlinear Continuous Global Optimization by Modified Differential Evolution. , 2010, , .		2
59	A Stochastic Augmented Lagrangian Equality Constrained-Based Algorithm for Global Optimization. , 2010, , .		2
60	Numerical Experiments with Nonconvex MINLP Problems. , 2010, , .		0
61	Assessment of a Primal-Dual Interior Point Method using a Three-D Filter Line Search Strategy. , 2010, , .		0
62	Simplified Model for the Activated Sludge System: WWTP Cost Minimization via an Augmented Lagrangian Pattern Search Method. , 2010, , .		2
63	Modified movement force vector in an electromagnetism-like mechanism for global optimization. Optimization Methods and Software, 2009, 24, 253-270.	1.6	32
64	Overview on Mixed Integer Nonlinear Programming Problems. , 2009, , .		4
65	Constrained Multi-global Optimization using a Penalty Stretched Simulated Annealing Framework. , 2009, , .		7
66	Comparison of Filter Line Search Algorithms in the Primal-Dual Barrier Approach for Nonlinear Programming. , 2009, , .		0
67	Hybridizing the electromagnetism-like algorithm with descent search for solving engineering design problems. International Journal of Computer Mathematics, 2009, 86, 1932-1946.	1.0	55
68	A reduction method for semi-infinite programming by means of a global stochastic approachâ€. Optimization, 2009, 58, 713-726.	1.0	21
69	A Modified Electromagnetism-Like Algorithm Based on a Pattern Search Method. Lecture Notes in Electrical Engineering, 2009, , 161-167.	0.3	3
70	Practical implementation of an interior point nonmonotone line search filter method. International Journal of Computer Mathematics, 2008, 85, 397-409.	1.0	12
71	Efficient Solving of Engineering Design Problems by an Interior Point 3â€Ð Filter Line Search Method. , 2008, , .		0
72	A Hyperbolic Penalty Filter Method for Semiâ€Infinite Programming. , 2008, , .		2

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73	Numerical Experiments with a Continuous L[sub 2]-exponential Merit Function for Semi-Infinite Programming. , 2008, , .		3
74	Performance Profile Assessment of Electromagnetism-like Algorithms for Global Optimization. , 2008, , .		3
75	Feasibility and Dominance Rules in the Electromagnetism-Like Algorithm for Constrained Global Optimization. Lecture Notes in Computer Science, 2008, , 768-783.	1.0	16
76	An Interior Point Filter Line Search Method: Main Convergence Results. AIP Conference Proceedings, 2007, , .	0.3	1
77	Tools for Robotic Trajectory Planning Using Cubic Splines and Semi-Infinite Programming. , 2006, , 399-413.		3
78	How Wastewater Processes can be Optimized Using LOQO. , 2006, , 435-455.		4
79	NEOS Server Usage in Wastewater Treatment Cost Minimization. Lecture Notes in Computer Science, 2005, , 632-641.	1.0	4
80	A primal-dual interior-point algorithm for nonlinear least squares constrained problems. Top, 2005, 13, 145-166.	1.1	4
81	SIPAMPL. ACM Transactions on Mathematical Software, 2004, 30, 47-61.	1.6	19
82	Robot trajectory planning with semi-infinite programming. European Journal of Operational Research, 2004, 153, 607-617.	3.5	41
83	A sequential quadratic programming with a dual parametrization approach to nonlinear semi-infinite programming. Top, 2003, 11, 109-130.	1.1	5
84	A quasi-Newton interior point method for semi-infinite programming. Optimization Methods and Software, 2003, 18, 673-687.	1.6	0
85	A Curvilinear Pseudo-Newton Algorithm for Nonlinear Programming. , 2000, , 23-29.		0
86	Multiple solutions of mixed variable optimization by multistart Hooke and Jeeves filter method. Applied Mathematical Sciences, 0, 8, 2163-2179.	0.0	2