

# Edite M G P Fernandes

## List of Publications by Year in descending order

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86  
papers

727  
citations

623574

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h-index

610775

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93  
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93  
docs citations

93  
times ranked

511  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved binary artificial fish swarm algorithm for the 0-1 multidimensional knapsack problems. <i>Swarm and Evolutionary Computation</i> , 2014, 14, 66-75.	4.5	85
2	Hybridizing the electromagnetism-like algorithm with descent search for solving engineering design problems. <i>International Journal of Computer Mathematics</i> , 2009, 86, 1932-1946.	1.0	55
3	An augmented Lagrangian fish swarm based method for global optimization. <i>Journal of Computational and Applied Mathematics</i> , 2011, 235, 4611-4620.	1.1	52
4	A simplified binary artificial fish swarm algorithm for 0-1 quadratic knapsack problems. <i>Journal of Computational and Applied Mathematics</i> , 2014, 259, 897-904.	1.1	43
5	Robot trajectory planning with semi-infinite programming. <i>European Journal of Operational Research</i> , 2004, 153, 607-617.	3.5	41
6	Modified movement force vector in an electromagnetism-like mechanism for global optimization. <i>Optimization Methods and Software</i> , 2009, 24, 253-270.	1.6	32
7	A hybrid genetic pattern search augmented Lagrangian method for constrained global optimization. <i>Applied Mathematics and Computation</i> , 2012, 218, 9415-9426.	1.4	28
8	A reduction method for semi-infinite programming by means of a global stochastic approach. <i>Optimization</i> , 2009, 58, 713-726.	1.0	21
9	SIPAMPL. <i>ACM Transactions on Mathematical Software</i> , 2004, 30, 47-61.	1.6	19
10	Filter-based DIRECT method for constrained global optimization. <i>Journal of Global Optimization</i> , 2018, 71, 517-536.	1.1	16
11	Feasibility and Dominance Rules in the Electromagnetism-Like Algorithm for Constrained Global Optimization. <i>Lecture Notes in Computer Science</i> , 2008, , 768-783.	1.0	16
12	Numerical study of augmented Lagrangian algorithms for constrained global optimization. <i>Optimization</i> , 2011, 60, 1359-1378.	1.0	15
13	An artificial fish swarm algorithm based hyperbolic augmented Lagrangian method. <i>Journal of Computational and Applied Mathematics</i> , 2014, 259, 868-876.	1.1	15
14	Novel Fish Swarm Heuristics for Bound Constrained Global Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2011, , 185-199.	1.0	15
15	Solving Large 0-1 Multidimensional Knapsack Problems by a New Simplified Binary Artificial Fish Swarm Algorithm. <i>Mathematical Modelling and Algorithms</i> , 2015, 14, 313-330.	0.5	13
16	Firefly penalty-based algorithm for bound constrained mixed-integer nonlinear programming. <i>Optimization</i> , 2016, 65, 1085-1104.	1.0	13
17	Practical implementation of an interior point nonmonotone line search filter method. <i>International Journal of Computer Mathematics</i> , 2008, 85, 397-409.	1.0	12
18	A filter-based artificial fish swarm algorithm for constrained global optimization: theoretical and practical issues. <i>Journal of Global Optimization</i> , 2014, 60, 239-263.	1.1	12

#	ARTICLE	IF	CITATIONS
19	Multiple Roots of Systems of Equations by Repulsion Merit Functions. Lecture Notes in Computer Science, 2014, , 126-139.	1.0	12
20	Heuristic-Based Firefly Algorithm for Bound Constrained Nonlinear Binary Optimization. Advances in Operations Research, 2014, 2014, 1-12.	0.2	11
21	Assessing the potential of interior point barrier filter line search methods: nonmonotone versus monotone approach. Optimization, 2011, 60, 1251-1268.	1.0	10
22	An Artificial Fish Swarm Filter-Based Method for Constrained Global Optimization. Lecture Notes in Computer Science, 2012, , 57-71.	1.0	10
23	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
24	Multilocal Programming: A Derivative-Free Filter Multistart Algorithm. Lecture Notes in Computer Science, 2013, , 333-346.	1.0	9
25	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
26	Constrained Multi-global Optimization using a Penalty Stretched Simulated Annealing Framework. , 2009, , .		7
27	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
28	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
29	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
30	Multilocal Programming and Applications. Intelligent Systems Reference Library, 2013, , 157-186.	1.0	7
31	Interior point filter method for semi-infinite programming problems. Optimization, 2011, 60, 1309-1338.	1.0	6
32	A sequential quadratic programming with a dual parametrization approach to nonlinear semi-infinite programming. Top, 2003, 11, 109-130.	1.1	5
33	Solving Multidimensional 0-1 Knapsack Problem with an Artificial Fish Swarm Algorithm. Lecture Notes in Computer Science, 2012, , 72-86.	1.0	5
34	On Challenging Techniques for Constrained Global Optimization. Intelligent Systems Reference Library, 2013, , 641-671.	1.0	5
35	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
36	NEOS Server Usage in Wastewater Treatment Cost Minimization. Lecture Notes in Computer Science, 2005, , 632-641.	1.0	4

#	ARTICLE	IF	CITATIONS
37	A primal-dual interior-point algorithm for nonlinear least squares constrained problems. Top, 2005, 13, 145-166.	1.1	4
38	Overview on Mixed Integer Nonlinear Programming Problems. , 2009, , .		4
39	Mutation-Based Artificial Fish Swarm Algorithm for Bound Constrained Global Optimization. AIP Conference Proceedings, 2011, , .	0.3	4
40	Combined mutation differential evolution to solve systems of nonlinear equations. , 2013, , .		4
41	On Metaheuristics for Solving the Parameter Estimation Problem in Dynamic Systems: A Comparative Study. Journal of Optimization, 2018, 2018, 1-21.	6.0	4
42	How Wastewater Processes can be Optimized Using LOQO. , 2006, , 435-455.		4
43	Modified Differential Evolution Based on Global Competitive Ranking for Engineering Design Optimization Problems. Lecture Notes in Computer Science, 2011, , 245-260.	1.0	4
44	Modified Constrained Differential Evolution for Solving Nonlinear Global Optimization Problems. Studies in Computational Intelligence, 2013, , 85-100.	0.7	4
45	Numerical Experiments with a Continuous L[sub 2]-exponential Merit Function for Semi-Infinite Programming. , 2008, , .		3
46	Performance Profile Assessment of Electromagnetism-like Algorithms for Global Optimization. , 2008, , .		3
47	Multistart Hooke and Jeeves filter method for mixed variable optimization. , 2013, , .		3
48	Tools for Robotic Trajectory Planning Using Cubic Splines and Semi-Infinite Programming. , 2006, , 399-413.		3
49	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
50	Using a Genetic Algorithm to Solve a Bi-Objective WWTP Process Optimization. Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR, 2011, , 359-364.	0.1	3
51	Heuristic Pattern Search for Bound Constrained Minimax Problems. Lecture Notes in Computer Science, 2011, , 174-184.	1.0	3
52	A Modified Electromagnetism-Like Algorithm Based on a Pattern Search Method. Lecture Notes in Electrical Engineering, 2009, , 161-167.	0.3	3
53	A Hyperbolic Penalty Filter Method for Semi-Infinite Programming. , 2008, , .		2
54	Nonlinear Continuous Global Optimization by Modified Differential Evolution. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
55	A Stochastic Augmented Lagrangian Equality Constrained-Based Algorithm for Global Optimization. , 2010, , .		2
56	Simplified Model for the Activated Sludge System: WWTP Cost Minimization via an Augmented Lagrangian Pattern Search Method. , 2010, , .		2
57	Combining Global Tabu Search with Local Search for Solving Systems of Equalities and Inequalities. , 2011, , .		2
58	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
59	A stochastic coordinate descent for bound constrained global optimization. AIP Conference Proceedings, 2019, , .	0.3	2
60	Multiple solutions of mixed variable optimization by multistart Hooke and Jeeves filter method. Applied Mathematical Sciences, 0, 8, 2163-2179.	0.0	2
61	An Interior Point Filter Line Search Method: Main Convergence Results. AIP Conference Proceedings, 2007, , .	0.3	1
62	Solving systems of inequalities and equalities by a nonmonotone hybrid tabu search method. , 2012, , .		1
63	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
64	Comparison of penalty functions on a penalty approach to mixed-integer optimization. AIP Conference Proceedings, 2016, , .	0.3	1
65	Comparing immune-tumor growth models with drug therapy using optimal control. AIP Conference Proceedings, 2016, , .	0.3	1
66	On a smoothed penalty-based algorithm for global optimization. Journal of Global Optimization, 2017, 69, 561-585.	1.1	1
67	Extension of the firefly algorithm and preference rules for solving MINLP problems. AIP Conference Proceedings, 2017, , .	0.3	1
68	A Multiple Shooting Descent-Based Filter Method for Optimal Control Problems. Computational Methods in Applied Sciences (Springer), 2021, , 377-392.	0.1	1
69	Direct Sequential Based Firefly Algorithm for the $\alpha$ -Pinene Isomerization Problem. Lecture Notes in Computer Science, 2016, , 386-401.	1.0	1
70	Penalty-Based Heuristic DIRECT Method for Constrained Global Optimization. Lecture Notes in Computer Science, 2020, , 538-551.	1.0	1
71	A quasi-Newton interior point method for semi-infinite programming. Optimization Methods and Software, 2003, 18, 673-687.	1.6	0
72	Efficient Solving of Engineering Design Problems by an Interior Point $\epsilon$ Filter Line Search Method. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
73	Comparison of Filter Line Search Algorithms in the Primal-Dual Barrier Approach for Nonlinear Programming. , 2009, , .		0
74	Numerical Experiments with Nonconvex MINLP Problems. , 2010, , .		0
75	Assessment of a Primal-Dual Interior Point Method using a Three-D Filter Line Search Strategy. , 2010, , .		0
76	On a Primal-Dual Interior Point Filter Method. , 2011, , .		0
77	Hooke and Jeeves based multilevel coordinate search to globally solving nonsmooth problems. , 2013, , .		0
78	Interrupted searches in the BBMCSFilter context for MINLP problems. AIP Conference Proceedings, 2016, , .	0.3	0
79	A Penalty Approach for Solving Nonsmooth and Nonconvex MINLP Problems. Springer Proceedings in Mathematics and Statistics, 2018, , 39-55.	0.1	0
80	Preface to the Special Issue "GOW"™16. Journal of Global Optimization, 2018, 71, 441-442.	1.1	0
81	A Clustering Algorithm Based on Fitness Probability Scores for Cluster Centers Optimization. Lecture Notes in Computer Science, 2021, , 382-396.	1.0	0
82	A Curvilinear Pseudo-Newton Algorithm for Nonlinear Programming. , 2000, , 23-29.		0
83	Branch-and-Bound Reduction Type Method for Semi-Infinite Programming. Lecture Notes in Computer Science, 2011, , 287-299.	1.0	0
84	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
85	Continuous Relaxation of MINLP Problems by Penalty Functions: A Practical Comparison. Lecture Notes in Computer Science, 2017, , 107-118.	1.0	0
86	Objective and Violation Upper Bounds on a DIRECT-Filter Method for Global Optimization. Lecture Notes in Computer Science, 2020, , 59-71.	1.0	0