Saber M Elsayed

List of Publications by Year
in descending order

113 papers	2,533 citations	331259 21 h-index
114 all docs	114 docs citations	114 times ranked

264894
42 g-index

1781 citing authors

#	ARTICLE	IF	CITATIONS
1	Differential Evolution With Dynamic Parameters Selection for Optimization Problems. IEEE Transactions on Evolutionary Computation, 2014, 18, 689-707.	7.5	227
2	Multi-operator based evolutionary algorithms for solving constrained optimization problems. Computers and Operations Research, 2011, 38, 1877-1896.	2.4	165
3	A new genetic algorithm for solving optimization problems. Engineering Applications of Artificial Intelligence, 2014, 27, 57-69.	4.3	148
4	Evolutionary Algorithms for Dynamic Economic Dispatch Problems. IEEE Transactions on Power Systems, 2016, 31, 1486-1495.	4.6	136
5	An Improved Self-Adaptive Differential Evolution Algorithm for Optimization Problems. IEEE Transactions on Industrial Informatics, 2013, 9, 89-99.	7.2	131
6	Improved Multi-operator Differential Evolution Algorithm for Solving Unconstrained Problems. , 2020, , .		88
7	GA with a new multi-parent crossover for solving IEEE-CEC2011 competition problems. , 2011, , .		66
8	Consolidated optimization algorithm for resource-constrained project scheduling problems. Information Sciences, 2017, 418-419, 346-362.	4.0	61
9	Landscape-based adaptive operator selection mechanism for differential evolution. Information Sciences, 2017, 418-419, 383-404.	4.0	60
10	A self-adaptive combined strategies algorithm for constrained optimization using differential evolution. Applied Mathematics and Computation, 2014, 241, 267-282.	1.4	54
11	Configuring two-algorithm-based evolutionary approach for solving dynamic economic dispatch problems. Engineering Applications of Artificial Intelligence, 2016, 53, 105-125.	4.3	53
12	Differential evolution with multiple strategies for solving CEC2011 real-world numerical optimization problems. , 2011, , .		50
13	On an evolutionary approach for constrained optimization problem solving. Applied Soft Computing Journal, 2012, 12, 3208-3227.	4.1	49
14	Testing united multi-operator evolutionary algorithms on the CEC2014 real-parameter numerical optimization. , 2014, , .		47
15	Self-adaptive mix of particle swarm methodologies for constrained optimization. Information Sciences, 2014, 277, 216-233.	4.0	47
16	Differential evolution framework for big data optimization. Memetic Computing, 2016, 8, 17-33.	2.7	42
17	Adaptive Sorting-Based Evolutionary Algorithm for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 247-257.	7.5	41
18	Adaptive Configuration of evolutionary algorithms for constrained optimization. Applied Mathematics and Computation, 2013, 222, 680-711.	1.4	40

#	ARTICLE	IF	CITATIONS
19	Evolutionary Algorithms for Finding Nash Equilibria in Electricity Markets. IEEE Transactions on Evolutionary Computation, 2018, 22, 536-549.	7.5	36
20	Self-adaptive differential evolution incorporating a heuristic mixing of operators. Computational Optimization and Applications, 2013, 54, 771-790.	0.9	35
21	Neurodynamic differential evolution algorithm and solving CEC2015 competition problems. , 2015, , .		35
22	Co-evolutionary approach for strategic bidding in competitive electricity markets. Applied Soft Computing Journal, 2017, 51, 1-22.	4.1	34
23	GA with a new multi-parent crossover for constrained optimization. , 2011, , .		33
24	Testing united multi-operator evolutionary algorithms-II on single objective optimization problems. , 2016, , .		32
25	Landscape-assisted multi-operator differential evolution for solving constrained optimization problems. Expert Systems With Applications, 2020, 162, 113033.	4.4	29
26	Quantum-Inspired Genetic Algorithm for Resource-Constrained Project-Scheduling. IEEE Access, 2021, 9, 38488-38502.	2.6	28
27	Sequence-Based Deterministic Initialization for Evolutionary Algorithms. IEEE Transactions on Cybernetics, 2017, 47, 2911-2923.	6.2	27
28	Decomposition-based evolutionary algorithm for large scale constrained problems. Information Sciences, 2015, 316, 457-486.	4.0	26
29	A surrogate-assisted differential evolution algorithm with dynamic parameters selection for solving expensive optimization problems. , 2014, , .		24
30	Contextual Awareness in Human-Advanced-Vehicle Systems: A Survey. IEEE Access, 2019, 7, 33304-33328.	2.6	24
31	Differential evolution with automatic parameter configuration for solving the CEC2013 competition on Real-Parameter Optimization. , 2013, , .		23
32	A genetic algorithm for solving the CEC'2013 competition problems on real-parameter optimization. , 2013, , .		22
33	An evolutionary approach for resource constrained project scheduling with uncertain changes. Computers and Operations Research, 2021, 125, 105104.	2.4	22
34	Weighted pointwise prediction method for dynamic multiobjective optimization. Information Sciences, 2021, 546, 349-367.	4.0	22
35	Multi-method based orthogonal experimental design algorithm for solving CEC2017 competition problems. , 2017, , .		21
36	A Comparative Study of Different Variants of Genetic Algorithms for Constrained Optimization. Lecture Notes in Computer Science, 2010, , 177-186.	1.0	19

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37	Scenario-based multi-period program optimization for capability-based planning using evolutionary algorithms. Applied Soft Computing Journal, 2017, 56, 717-729.	4.1	19
38	Fuzzy Rule-Based Design of Evolutionary Algorithm for Optimization. IEEE Transactions on Cybernetics, 2019, 49, 301-314.	6.2	19
39	Evolutionary algorithms for power generation planning with uncertain renewable energy. Energy, 2016, 112, 408-419.	4.5	18
40	Adaptation of operators and continuous control parameters in differential evolution for constrained optimization. Soft Computing, 2018, 22, 6595-6616.	2.1	18
41	Portfolio Optimization for Defence Applications. IEEE Access, 2020, 8, 60152-60178.	2.6	18
42	Multi-Operator Differential Evolution Algorithm for Solving Real-World Constrained Optimization Problems. , 2020, , .		17
43	A constraint consensus memetic algorithm for solving constrained optimization problems. Engineering Optimization, 2014, 46, 1447-1464.	1.5	16
44	Enhanced multi-operator differential evolution for constrained optimization. , 2016, , .		16
45	The Limits of Reactive Shepherding Approaches for Swarm Guidance. IEEE Access, 2020, 8, 214658-214671.	2.6	16
46	Improved United Multi-Operator Algorithm for Solving Optimization Problems. , 2018, , .		15
47	Path Planning for Shepherding a Swarm in a Cluttered Environment using Differential Evolution. , 2020, , .		15
48	Differential Evolution with automatic population injection scheme for constrained problems. , 2013, , .		13
49	Hybrid evolutionary algorithm for large-scale project scheduling problems. Computers and Industrial Engineering, 2020, 146, 106567.	3.4	13
50	Integrated strategies differential evolution algorithm with a local search for constrained optimization. , 2011, , .		12
51	Multi-method based algorithm for multi-objective problems under uncertainty. Information Sciences, 2019, 481, 81-109.	4.0	12
52	Survey of Uses of Evolutionary Computation Algorithms and Swarm Intelligence for Network Intrusion Detection. International Journal of Computational Intelligence and Applications, 2015, 14, 1550025.	0.6	11
53	Training and testing a self-adaptive multi-operator evolutionary algorithm for constrained optimization. Applied Soft Computing Journal, 2015, 26, 515-522.	4.1	11
54	Evolutionary Framework With Reinforcement Learning-Based Mutation Adaptation. IEEE Access, 2020, 8, 194045-194071.	2.6	11

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55	Evolutionary approach for large-Scale mine scheduling. Information Sciences, 2020, 523, 77-90.	4.0	11
56	Improved genetic algorithm for constrained optimization. , 2011, , .		10
57	Differential evolution combined with constraint consensus for constrained optimization. , 2011, , .		10
58	Parameters adaptation in Differential Evolution. , 2012, , .		10
59	United multi-operator evolutionary algorithms. , 2014, , .		10
60	Evaluating the performance of a differential evolution algorithm in anomaly detection. , 2015, , .		10
61	Modulation of Force Vectors for Effective Shepherding of a Swarm: A Bi-Objective Approach. , 2019, , .		10
62	Adaptive Multilevel Prediction Method for Dynamic Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 463-477.	7.5	10
63	Memetic multi-topology particle swarm optimizer for constrained optimization. , 2012, , .		9
64	Contribution Based Co-Evolutionary Algorithm for Large-Scale Optimization Problems. IEEE Access, 2020, 8, 203369-203381.	2.6	9
65	Two-phase differential evolution framework for solving optimization problems. , 2016, , .		8
66	Fast differential evolution for big optimization. , 2017, , .		8
67	Landscape-Based Differential Evolution for Constrained Optimization Problems. , 2018, , .		8
68	Static and Dynamic Multimodal Optimization by Improved Covariance Matrix Self-Adaptation Evolution Strategy With Repelling Subpopulations. IEEE Transactions on Evolutionary Computation, 2022, 26, 527-541.	7.5	8
69	Scenario-Based Solution Approach for Uncertain Resource Constrained Scheduling Problems. , 2018, , .		7
70	Transfer learning-assisted multi-objective evolutionary clustering framework with decomposition for high-dimensional data. Information Sciences, 2019, 505, 440-456.	4.0	7
71	A New Prediction Approach for Dynamic Multiobjective Optimization. , 2019, , .		7
72	A Hybrid Multi-Population Approach to the Project Portfolio Selection and Scheduling Problem for Future Force Design. IEEE Access, 2021, 9, 83410-83430.	2.6	7

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73	A Three-Strategy Based Differential Evolution Algorithm for Constrained Optimization. Lecture Notes in Computer Science, 2010, , 585-592.	1.0	7
74	Particle Swarm Optimizer for constrained optimization. , 2013, , .		6
75	Resource Constrained Project Scheduling With Dynamic Disruption Recovery. IEEE Access, 2020, 8, 144866-144879.	2.6	6
76	A heredity-based adaptive variation operator for reinitialization in dynamic multi-objective problems. Applied Soft Computing Journal, 2021, 101, 107027.	4.1	6
77	A Graph-based Approach for Shepherding Swarms with Limited Sensing Range. , 2021, , .		6
78	Solving a novel multi-divisional project portfolio selection and scheduling problem. Engineering Applications of Artificial Intelligence, 2022, 112, 104771.	4.3	6
79	Automated Differential Evolution for Solving Dynamic Economic Dispatch Problems. Proceedings in Adaptation, Learning and Optimization, 2016, , 357-369.	1.5	5
80	Differential Evolution with Landscape-Based Operator Selection for Solving Numerical Optimization Problems. Proceedings in Adaptation, Learning and Optimization, 2017, , 371-387.	1.5	5
81	A Novel Parametric benchmark generator for dynamic multimodal optimization. Swarm and Evolutionary Computation, 2021, 65, 100924.	4.5	5
82	Evolutionary Algorithm for Project Scheduling under Irregular Resource Changes. , 2019, , .		4
83	Quantum Differential Evolution: an Investigation. , 2019, , .		4
84	A Systematic Review of Coevolution in Real-Time Strategy Games. IEEE Access, 2021, 9, 136647-136665.	2.6	4
85	An Exploration of Meta-Heuristic Approaches for the Project Portfolio Selection and Scheduling Problem in a Defence Context. , 2020, , .		4
86	The Influence of the Number of Initial Feasible Solutions on the Performance of an Evolutionary Optimization Algorithm. Lecture Notes in Computer Science, 2012, , 1-11.	1.0	4
87	Multi-Period Project Selection and Scheduling for Defence Capability-Based Planning. , 2020, , .		4
88	Memetic algorithm for solving resource constrained project scheduling problems. , 2015, , .		3
89	A co-evolutionary approach for optimal bidding strategy of multiple electricity suppliers. , 2016, , .		3
90	Parallel Evolutionary Algorithm for EEG Optimization Problems. , 2021, , .		3

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91	A preliminary study towards an improved shepherding model. , 2020, , .		3
92	Decomposition of large-scale constrained problems using a genetic-based search. , 2016, , .		2
93	Project portfolio selection with defense capability options. , 2021, , .		2
94	Pro-Reactive Approach for Project Scheduling Under Unpredictable Disruptions. IEEE Transactions on Cybernetics, 2022, 52, 11299-11312.	6.2	2
95	An Evolutionary Framework for Bi-objective Dynamic Economic and Environmental Dispatch Problems. Proceedings in Adaptation, Learning and Optimization, 2017, , 495-508.	1.5	2
96	A Neuro-Evolution Approach to Shepherding Swarm Guidance in the Face of Uncertainty. , 2021, , .		2
97	Online generation of trajectories for autonomous vehicles using a multi-agent system. , 2014, , .		1
98	Mathematical framework for recursive model-based system design. Nonlinear Dynamics, 2016, 84, 223-236.	2.7	1
99	Landscape-Based Similarity Check Strategy for Dynamic Optimization Problems. IEEE Access, 2020, 8, 178570-178586.	2.6	1
100	Enhancing Evolutionary Algorithms by Efficient Population Initialization for Constrained Problems. , 2020, , .		1
101	Quantum-Inspired Differential Evolution for Resource-Constrained Project-Scheduling: Preliminary Study. , 2021, , .		1
102	Enhanced Differential Grouping for Large Scale Optimization. , 2018, , .		1
103	A New Model for the Project Portfolio Selection and Scheduling Problem with Defence Capability Options. Adaptation, Learning, and Optimization, 2022, , 89-123.	0.5	1
104	Deep Learning For Noisy Communication System. , 2021, , .		1
105	Coevolutionary Algorithm for Evolving Competitive Strategies in the Weapon Target Assignment Problem. , 2022, , .		1
106	A decomposition-based algorithm for dynamic economic dispatch problems. , 2014, , .		0
107	Evolutionary algorithm for analyzing higher degree research student recruitment and completion. Cogent Engineering, 2015, 2, 1063760.	1.1	0
108	An Improved Multi-Objective Evolutionary Approach for Clustering High-Dimensional Data. , 2018, , .		0

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109	Modular Analysis and Development of a Genetic Algorithm with Standardized Representation for Resource-Constrained Project Scheduling. , 2021, , .		0
110	Evolving the Parameters of Differential Evolution Using Evolutionary Algorithms. Proceedings in Adaptation, Learning and Optimization, 2015, , 523-534.	1.5	0
111	Towards a More Practically Sound Formulation of Dynamic Problems and Performance Evaluation of Dynamic Search Methods. , 2020, , .		0
112	Evolutionary and Memetic Computing for Project Portfolio Selection and Scheduling: An Introduction. Adaptation, Learning, and Optimization, 2022, , 1-8.	0.5	0
113	Generating datasets for the project portfolio selection and scheduling problem. Data in Brief, 2022, 42, 108208.	0.5	0