

Yaochu Jin

List of Publications by Year in descending order

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449
papers

29,160
citations

6233

80
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6630

156
g-index

467
all docs

467
docs citations

467
times ranked

11208
citing authors

#	ARTICLE	IF	CITATIONS
1	PlatEMO: A MATLAB Platform for Evolutionary Multi-Objective Optimization [Educational Forum]. IEEE Computational Intelligence Magazine, 2017, 12, 73-87.	3.4	1,366
2	Evolutionary Optimization in Uncertain Environments—A Survey. IEEE Transactions on Evolutionary Computation, 2005, 9, 303-317.	7.5	1,269
3	A Reference Vector Guided Evolutionary Algorithm for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2016, 20, 773-791.	7.5	1,140
4	Surrogate-assisted evolutionary computation: Recent advances and future challenges. Swarm and Evolutionary Computation, 2011, 1, 61-70.	4.5	1,020
5	A Competitive Swarm Optimizer for Large Scale Optimization. IEEE Transactions on Cybernetics, 2015, 45, 191-204.	6.2	686
6	A Knee Point-Driven Evolutionary Algorithm for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2015, 19, 761-776.	7.5	631
7	RM-MEDA: A Regularity Model-Based Multiobjective Estimation of Distribution Algorithm. IEEE Transactions on Evolutionary Computation, 2008, 12, 41-63.	7.5	626
8	A social learning particle swarm optimization algorithm for scalable optimization. Information Sciences, 2015, 291, 43-60.	4.0	563
9	A framework for evolutionary optimization with approximate fitness functions. IEEE Transactions on Evolutionary Computation, 2002, 6, 481-494.	7.5	502
10	An Indicator-Based Multiobjective Evolutionary Algorithm With Reference Point Adaptation for Better Versatility. IEEE Transactions on Evolutionary Computation, 2018, 22, 609-622.	7.5	446
11	An Efficient Approach to Nondominated Sorting for Evolutionary Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2015, 19, 201-213.	7.5	403
12	Fuzzy modeling of high-dimensional systems: complexity reduction and interpretability improvement. IEEE Transactions on Fuzzy Systems, 2000, 8, 212-221.	6.5	402
13	Generalizing Surrogate-Assisted Evolutionary Computation. IEEE Transactions on Evolutionary Computation, 2010, 14, 329-355.	7.5	387
14	A Decision Variable Clustering-Based Evolutionary Algorithm for Large-Scale Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 97-112.	7.5	381
15	A Surrogate-Assisted Reference Vector Guided Evolutionary Algorithm for Computationally Expensive Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 129-142.	7.5	368
16	Data-Driven Evolutionary Optimization: An Overview and Case Studies. IEEE Transactions on Evolutionary Computation, 2019, 23, 442-458.	7.5	348
17	A Population Prediction Strategy for Evolutionary Dynamic Multiobjective Optimization. IEEE Transactions on Cybernetics, 2014, 44, 40-53.	6.2	325
18	A benchmark test suite for evolutionary many-objective optimization. Complex & Intelligent Systems, 2017, 3, 67-81.	4.0	311

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19	A Survey of Deep Learning Applications to Autonomous Vehicle Control. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 712-733.	4.7	310
20	Pareto-Based Multiobjective Machine Learning: An Overview and Case Studies. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 397-415.	3.3	304
21	A Multiobjective Evolutionary Algorithm Using Gaussian Process-Based Inverse Modeling. IEEE Transactions on Evolutionary Computation, 2015, 19, 838-856.	7.5	295
22	Communication-Efficient Federated Deep Learning With Layerwise Asynchronous Model Update and Temporally Weighted Aggregation. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4229-4238.	7.2	293
23	Committee-Based Active Learning for Surrogate-Assisted Particle Swarm Optimization of Expensive Problems. IEEE Transactions on Cybernetics, 2017, 47, 2664-2677.	6.2	286
24	Surrogate-Assisted Cooperative Swarm Optimization of High-Dimensional Expensive Problems. IEEE Transactions on Evolutionary Computation, 2017, 21, 644-660.	7.5	284
25	Federated learning on non-IID data: A survey. Neurocomputing, 2021, 465, 371-390.	3.5	277
26	Feature selection for high-dimensional classification using a competitive swarm optimizer. Soft Computing, 2018, 22, 811-822.	2.1	257
27	Introduction to Evolutionary Algorithms. Decision Engineering, 2010, , .	1.5	256
28	A competitive mechanism based multi-objective particle swarm optimizer with fast convergence. Information Sciences, 2018, 427, 63-76.	4.0	250
29	A Classification-Based Surrogate-Assisted Evolutionary Algorithm for Expensive Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 74-88.	7.5	250
30	A Strengthened Dominance Relation Considering Convergence and Diversity for Evolutionary Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 331-345.	7.5	237
31	A Coevolutionary Framework for Constrained Multiobjective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2021, 25, 102-116.	7.5	230
32	Approximating the Set of Pareto-Optimal Solutions in Both the Decision and Objective Spaces by an Estimation of Distribution Algorithm. IEEE Transactions on Evolutionary Computation, 2009, 13, 1167-1189.	7.5	227
33	Test Problems for Large-Scale Multiobjective and Many-Objective Optimization. IEEE Transactions on Cybernetics, 2017, 47, 4108-4121.	6.2	220
34	An Evolutionary Algorithm for Large-Scale Sparse Multiobjective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2020, 24, 380-393.	7.5	208
35	A Many-Objective Evolutionary Algorithm Using A One-by-One Selection Strategy. IEEE Transactions on Cybernetics, 2017, 47, 2689-2702.	6.2	206
36	Big Data Opportunities and Challenges: Discussions from Data Analytics Perspectives [Discussion Forum]. IEEE Computational Intelligence Magazine, 2014, 9, 62-74.	3.4	204

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37	Surrogate-assisted hierarchical particle swarm optimization. <i>Information Sciences</i> , 2018, 454-455, 59-72.	4.0	202
38	Efficient Large-Scale Multiobjective Optimization Based on a Competitive Swarm Optimizer. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 3696-3708.	6.2	195
39	Accelerating Large-Scale Multiobjective Optimization via Problem Reformulation. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 949-961.	7.5	181
40	Data-Driven Surrogate-Assisted Multiobjective Evolutionary Optimization of a Trauma System. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, 20, 939-952.	7.5	178
41	Optimization of micro heat exchanger: CFD, analytical approach and multi-objective evolutionary algorithms. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1090-1099.	2.5	174
42	Diversity Assessment in Many-Objective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 1510-1522.	6.2	174
43	A Survey of Evolutionary Algorithms for Multi-Objective Optimization Problems With Irregular Pareto Fronts. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021, 8, 303-318.	8.5	174
44	Generalized Multitasking for Evolutionary Optimization of Expensive Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 44-58.	7.5	168
45	Efficient Hierarchical Parallel Genetic Algorithms using Grid computing. <i>Future Generation Computer Systems</i> , 2007, 23, 658-670.	4.9	164
46	Multi-objective hierarchical genetic algorithm for interpretable fuzzy rule-based knowledge extraction. <i>Fuzzy Sets and Systems</i> , 2005, 149, 149-186.	1.6	161
47	On generating FC/sup 3/ fuzzy rule systems from data using evolution strategies. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1999, 29, 829-845.	5.5	157
48	A two-layer surrogate-assisted particle swarm optimization algorithm. <i>Soft Computing</i> , 2015, 19, 1461-1475.	2.1	152
49	Surrogate-Assisted Evolutionary Deep Learning Using an End-to-End Random Forest-Based Performance Predictor. <i>IEEE Transactions on Evolutionary Computation</i> , 2020, 24, 350-364.	7.5	150
50	Multi-Objective Evolutionary Federated Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 1310-1322.	7.2	149
51	Offline Data-Driven Evolutionary Optimization Using Selective Surrogate Ensembles. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 203-216.	7.5	148
52	Efficient search for robust solutions by means of evolutionary algorithms and fitness approximation. <i>IEEE Transactions on Evolutionary Computation</i> , 2006, 10, 405-420.	7.5	146
53	A systems approach to evolutionary multiobjective structural optimization and beyond. <i>IEEE Computational Intelligence Magazine</i> , 2009, 4, 62-76.	3.4	145
54	Multidirectional Prediction Approach for Dynamic Multiobjective Optimization Problems. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 3362-3374.	6.2	144

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55	Bio-inspired self-organising multi-robot pattern formation: A review. <i>Robotics and Autonomous Systems</i> , 2017, 91, 83-100.	3.0	142
56	Artificial intelligence in recommender systems. <i>Complex & Intelligent Systems</i> , 2021, 7, 439-457.	4.0	134
57	Evolutionary Multiobjective Blocking Lot-Streaming Flow Shop Scheduling With Machine Breakdowns. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 184-197.	6.2	133
58	A critical survey of performance indices for multi-objective optimisation. , 0, , .		132
59	A framework for finding robust optimal solutions over time. <i>Memetic Computing</i> , 2013, 5, 3-18.	2.7	130
60	Heterogeneous Ensemble-Based Infill Criterion for Evolutionary Multiobjective Optimization of Expensive Problems. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1012-1025.	6.2	129
61	Solving Large-Scale Multiobjective Optimization Problems With Sparse Optimal Solutions via Unsupervised Neural Networks. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 3115-3128.	6.2	121
62	Prediction-Based Population Re-initialization for Evolutionary Dynamic Multi-objective Optimization. , 2007, , 832-846.		120
63	Stacking-based ensemble learning of decision trees for interpretable prostate cancer detection. <i>Applied Soft Computing Journal</i> , 2019, 77, 188-204.	4.1	120
64	Multiobjective Infill Criterion Driven Gaussian Process-Assisted Particle Swarm Optimization of High-Dimensional Expensive Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 459-472.	7.5	119
65	Trade-Off between Performance and Robustness: An Evolutionary Multiobjective Approach. <i>Lecture Notes in Computer Science</i> , 2003, , 237-251.	1.0	118
66	An improved $(\hat{1}/4 + \hat{1}/\kappa)$ -constrained differential evolution for constrained optimization. <i>Information Sciences</i> , 2013, 222, 302-322.	4.0	114
67	A Clustering-Based Adaptive Evolutionary Algorithm for Multiobjective Optimization With Irregular Pareto Fronts. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2758-2770.	6.2	114
68	A New Surrogate-Assisted Interactive Genetic Algorithm With Weighted Semisupervised Learning. <i>IEEE Transactions on Cybernetics</i> , 2013, 43, 685-698.	6.2	111
69	Reducing Fitness Evaluations Using Clustering Techniques and Neural Network Ensembles. <i>Lecture Notes in Computer Science</i> , 2004, , 688-699.	1.0	109
70	A Random Forest-Assisted Evolutionary Algorithm for Data-Driven Constrained Multiobjective Combinatorial Optimization of Trauma Systems. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 536-549.	6.2	109
71	A directed search strategy for evolutionary dynamic multiobjective optimization. <i>Soft Computing</i> , 2015, 19, 3221-3235.	2.1	106
72	Combining Model-based and Genetics-based Offspring Generation for Multi-objective Optimization Using a Convergence Criterion. , 0, , .		104

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73	A new fitness estimation strategy for particle swarm optimization. <i>Information Sciences</i> , 2013, 221, 355-370.	4.0	103
74	Effectiveness and efficiency of non-dominated sorting for evolutionary multi- and many-objective optimization. <i>Complex & Intelligent Systems</i> , 2017, 3, 247-263.	4.0	102
75	A mini-review on preference modeling and articulation in multi-objective optimization: current status and challenges. <i>Complex & Intelligent Systems</i> , 2017, 3, 233-245.	4.0	102
76	Diversity Assessment of Multi-Objective Evolutionary Algorithms: Performance Metric and Benchmark Problems [Research Frontier]. <i>IEEE Computational Intelligence Magazine</i> , 2019, 14, 61-74.	3.4	99
77	Evolutionary Many-Objective Optimization of Hybrid Electric Vehicle Control: From General Optimization to Preference Articulation. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2017, 1, 97-111.	3.4	98
78	A data-driven surrogate-assisted evolutionary algorithm applied to a many-objective blast furnace optimization problem. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1172-1178.	2.7	98
79	Evolutionary multi-objective generation of recurrent neural network ensembles for time series prediction. <i>Neurocomputing</i> , 2014, 143, 302-311.	3.5	97
80	A Kriging-Assisted Two-Archive Evolutionary Algorithm for Expensive Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2021, 25, 1013-1027.	7.5	95
81	Evolutionary Multiobjective Optimization Driven by Generative Adversarial Networks (GANs). <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 3129-3142.	6.2	90
82	A radial space division based evolutionary algorithm for many-objective optimization. <i>Applied Soft Computing Journal</i> , 2017, 61, 603-621.	4.1	89
83	Adapting Weighted Aggregation for Multiobjective Evolution Strategies. <i>Lecture Notes in Computer Science</i> , 2001, , 96-110.	1.0	86
84	A Network Reduction-Based Multiobjective Evolutionary Algorithm for Community Detection in Large-Scale Complex Networks. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 703-716.	6.2	83
85	Balancing Objective Optimization and Constraint Satisfaction in Constrained Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 9559-9572.	6.2	83
86	Agent-Based Evolutionary Approach for Interpretable Rule-Based Knowledge Extraction. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2005, 35, 143-155.	3.3	82
87	An improved support vector machine-based diabetic readmission prediction. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 166, 123-135.	2.6	81
88	The security challenges in the IoT enabled cyber-physical systems and opportunities for evolutionary computing & other computational intelligence. , 2016, , .		80
89	Decentralized adaptive fuzzy control of robot manipulators. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1998, 28, 47-57.	5.5	79
90	An improved random forest-based rule extraction method for breast cancer diagnosis. <i>Applied Soft Computing Journal</i> , 2020, 86, 105941.	4.1	79

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91	From federated learning to federated neural architecture search: a survey. <i>Complex & Intelligent Systems</i> , 2021, 7, 639-657.	4.0	77
92	A two-stage R2 indicator based evolutionary algorithm for many-objective optimization. <i>Applied Soft Computing Journal</i> , 2018, 67, 245-260.	4.1	76
93	An adaptive Bayesian approach to surrogate-assisted evolutionary multi-objective optimization. <i>Information Sciences</i> , 2020, 519, 317-331.	4.0	76
94	Constructing Dynamic Optimization Test Problems Using the Multi-objective Optimization Concept. <i>Lecture Notes in Computer Science</i> , 2004, , 525-536.	1.0	75
95	Reduction strategies for hierarchical multi-label classification in protein function prediction. <i>BMC Bioinformatics</i> , 2016, 17, 373.	1.2	75
96	Lamarckian memetic algorithms: local optimum and connectivity structure analysis. <i>Memetic Computing</i> , 2009, 1, 175-190.	2.7	74
97	Large-Scale Evolutionary Multiobjective Optimization Assisted by Directed Sampling. <i>IEEE Transactions on Evolutionary Computation</i> , 2021, 25, 724-738.	7.5	74
98	High-Dimensional Robust Multi-Objective Optimization for Order Scheduling: A Decision Variable Classification Approach. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 293-304.	7.2	73
99	Surrogate-assisted multicriteria optimization: Complexities, prospective solutions, and business case. <i>Journal of Multi-Criteria Decision Analysis</i> , 2017, 24, 5-24.	1.0	70
100	An Enhanced Competitive Swarm Optimizer With Strongly Convex Sparse Operator for Large-Scale Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2022, 26, 859-871.	7.5	69
101	On Test Functions for Evolutionary Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2004, , 792-802.	1.0	68
102	Evolutionary multi-objective blocking lot-streaming flow shop scheduling with interval processing time. <i>Applied Soft Computing Journal</i> , 2016, 42, 229-245.	4.1	68
103	A cellular mechanism for multi-robot construction via evolutionary multi-objective optimization of a gene regulatory network. <i>BioSystems</i> , 2009, 98, 193-203.	0.9	67
104	Evolutionary Large-Scale Multi-Objective Optimization: A Survey. <i>ACM Computing Surveys</i> , 2022, 54, 1-34.	16.1	67
105	Extracting Interpretable Fuzzy Rules from RBF Networks. <i>Neural Processing Letters</i> , 2003, 17, 149-164.	2.0	66
106	A study on metamodeling techniques, ensembles, and multi-surrogates in evolutionary computation. , 2007, , .		66
107	A multi-objective evolutionary algorithm based on an enhanced inverted generational distance metric. , 2016, , .		66
108	Multitasking Multiobjective Evolutionary Operational Indices Optimization of Beneficiation Processes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019, 16, 1046-1057.	3.4	64

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109	An Adaptive Reference Vector-Guided Evolutionary Algorithm Using Growing Neural Gas for Many-Objective Optimization of Irregular Problems. IEEE Transactions on Cybernetics, 2022, 52, 2698-2711.	6.2	64
110	Ternary Compression for Communication-Efficient Federated Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1162-1176.	7.2	64
111	Morphogenetic Robotics: An Emerging New Field in Developmental Robotics. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 145-160.	3.3	63
112	Evolution by Adapting Surrogates. Evolutionary Computation, 2013, 21, 313-340.	2.3	62
113	Model-based evolutionary algorithms: a short survey. Complex & Intelligent Systems, 2018, 4, 283-292.	4.0	62
114	A multi-objective evolutionary algorithm guided by directed search for dynamic scheduling. Computers and Operations Research, 2017, 79, 279-290.	2.4	61
115	Sampling Reference Points on the Pareto Fronts of Benchmark Multi-Objective Optimization Problems. , 2018, , .		61
116	Evolutionary Optimization of High-Dimensional Multiobjective and Many-Objective Expensive Problems Assisted by a Dropout Neural Network. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2084-2097.	5.9	60
117	Self-organized swarm robot for target search and trapping inspired by bacterial chemotaxis. Robotics and Autonomous Systems, 2015, 72, 83-92.	3.0	58
118	A Multipopulation Evolutionary Algorithm for Solving Large-Scale Multimodal Multiobjective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2021, 25, 405-418.	7.5	58
119	Pattern Recommendation in Task-oriented Applications: A Multi-Objective Perspective [Application Notes]. IEEE Computational Intelligence Magazine, 2017, 12, 43-53.	3.4	57
120	Endocrine-based coevolutionary multi-swarm for multi-objective workflow scheduling in a cloud system. Soft Computing, 2017, 21, 4309-4322.	2.1	56
121	A Hierarchical Gene Regulatory Network for Adaptive Multirobot Pattern Formation. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 805-816.	5.5	55
122	Robust optimization over time — A new perspective on dynamic optimization problems. , 2010, , .		54
123	Modeling neural plasticity in echo state networks for classification and regression. Information Sciences, 2016, 364-365, 184-196.	4.0	54
124	Evolutionary Multiobjective Image Feature Extraction in the Presence of Noise. IEEE Transactions on Cybernetics, 2015, 45, 1757-1768.	6.2	52
125	A tree ensemble-based two-stage model for advanced-stage colorectal cancer survival prediction. Information Sciences, 2019, 474, 106-124.	4.0	51
126	Autonomous Self-Reconfiguration of Modular Robots by Evolving a Hierarchical Mechanochemical Model. IEEE Computational Intelligence Magazine, 2011, 6, 43-54.	3.4	49

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127	A repository of real-world datasets for data-driven evolutionary multiobjective optimization. <i>Complex & Intelligent Systems</i> , 2020, 6, 189-197.	4.0	49
128	A Survey of Evolutionary Continuous Dynamic Optimization Over Two Decades—Part B. <i>IEEE Transactions on Evolutionary Computation</i> , 2021, 25, 630-650.	7.5	48
129	A knowledge-based evolutionary proactive scheduling approach in the presence of machine breakdown and deterioration effect. <i>Knowledge-Based Systems</i> , 2015, 90, 70-80.	4.0	47
130	Guiding Evolutionary Multiobjective Optimization With Generic Front Modeling. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 1106-1119.	6.2	47
131	Approximate non-dominated sorting for evolutionary many-objective optimization. <i>Information Sciences</i> , 2016, 369, 14-33.	4.0	46
132	A complete expected improvement criterion for Gaussian process assisted highly constrained expensive optimization. <i>Information Sciences</i> , 2019, 471, 80-96.	4.0	46
133	A Survey of Evolutionary Continuous Dynamic Optimization Over Two Decades—Part A. <i>IEEE Transactions on Evolutionary Computation</i> , 2021, 25, 609-629.	7.5	45
134	Reconstructing biological gene regulatory networks: where optimization meets big data. <i>Evolutionary Intelligence</i> , 2014, 7, 29-47.	2.3	43
135	An adaptive decomposition-based evolutionary algorithm for many-objective optimization. <i>Information Sciences</i> , 2019, 491, 204-222.	4.0	43
136	Finding Influential Nodes in Multiplex Networks Using a Memetic Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 900-912.	6.2	43
137	Adaptive Reference Vector Generation for Inverse Model Based Evolutionary Multiobjective Optimization with Degenerate and Disconnected Pareto Fronts. <i>Lecture Notes in Computer Science</i> , 2015, , 127-140.	1.0	43
138	A Generic Test Suite for Evolutionary Multifidelity Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018, 22, 836-850.	7.5	41
139	Benchmark Problems and Performance Indicators for Search of Knee Points in Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 3531-3544.	6.2	41
140	Surrogate-Assisted Multipopulation Particle Swarm Optimizer for High-Dimensional Expensive Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 4671-4684.	5.9	41
141	A Bio-Inspired Self-Learning Coevolutionary Dynamic Multiobjective Optimization Algorithm for Internet of Things Services. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 675-688.	7.5	40
142	Multi-surrogate multi-tasking optimization of expensive problems. <i>Knowledge-Based Systems</i> , 2020, 205, 106262.	4.0	40
143	Surrogate-Assisted Evolutionary Multitasking for Expensive Minimax Optimization in Multiple Scenarios. <i>IEEE Computational Intelligence Magazine</i> , 2021, 16, 34-48.	3.4	40
144	A Cluster-Based Competitive Particle Swarm Optimizer with a Sparse Truncation Operator for Multi-Objective Optimization. <i>Swarm and Evolutionary Computation</i> , 2022, 71, 101083.	4.5	40

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145	A fitness approximation assisted competitive swarm optimizer for large scale expensive optimization problems. Memetic Computing, 2018, 10, 123-134.	2.7	39
146	A Pattern Mining-Based Evolutionary Algorithm for Large-Scale Sparse Multiobjective Optimization Problems. IEEE Transactions on Cybernetics, 2022, 52, 6784-6797.	6.2	39
147	Comparing neural networks and Kriging for fitness approximation in evolutionary optimization. , 0, , .		38
148	A dynamic optimization approach to the design of cooperative co-evolutionary algorithms. Knowledge-Based Systems, 2016, 109, 174-186.	4.0	38
149	Efficient Evolutionary Search of Attention Convolutional Networks via Sampled Training and Node Inheritance. IEEE Transactions on Evolutionary Computation, 2021, 25, 371-385.	7.5	38
150	A multi-objective approach to robust optimization over time considering switching cost. Information Sciences, 2017, 394-395, 183-197.	4.0	37
151	An affinity propagation clustering based particle swarm optimizer for dynamic optimization. Knowledge-Based Systems, 2020, 195, 105711.	4.0	37
152	Particle swarm optimization for network-based data classification. Neural Networks, 2019, 110, 243-255.	3.3	36
153	A Recommender System for Metaheuristic Algorithms for Continuous Optimization Based on Deep Recurrent Neural Networks. IEEE Transactions on Artificial Intelligence, 2020, 1, 5-18.	3.4	36
154	Data-Driven Evolutionary Optimization. Studies in Computational Intelligence, 2021, , .	0.7	36
155	Neural network based fuzzy identification and its application to modeling and control of complex systems. IEEE Transactions on Systems, Man, and Cybernetics, 1995, 25, 990-997.	0.9	35
156	A morphogenetic approach to flexible and robust shape formation for swarm robotic systems. Robotics and Autonomous Systems, 2013, 61, 25-38.	3.0	35
157	Classifier ensembles for image identification using multi-objective Pareto features. Neurocomputing, 2017, 238, 316-327.	3.5	35
158	Multimodal Optimization Enhanced Cooperative Coevolution for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2019, 49, 3507-3520.	6.2	34
159	Paired Offspring Generation for Constrained Large-Scale Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 448-462.	7.5	34
160	Adaptive encoding for aerodynamic shape optimization using evolution strategies. , 0, , .		33
161	Multi-objective ensemble generation. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2015, 5, 234-245.	4.6	33
162	Multi-train: A semi-supervised heterogeneous ensemble classifier. Neurocomputing, 2017, 249, 202-211.	3.5	33

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163	Offline data-driven evolutionary optimization based on tri-training. Swarm and Evolutionary Computation, 2021, 60, 100800.	4.5	33
164	Inverse multi-objective robust evolutionary design. Genetic Programming and Evolvable Machines, 2006, 7, 383-404.	1.5	32
165	Balancing Population- and Individual-Level Adaptation in Changing Environments. Adaptive Behavior, 2009, 17, 153-174.	1.1	32
166	User-oriented many-objective cloud workflow scheduling based on an improved knee point driven evolutionary algorithm. Knowledge-Based Systems, 2017, 135, 113-124.	4.0	32
167	Surrogate-Assisted Robust Optimization of Large-Scale Networks Based on Graph Embedding. IEEE Transactions on Evolutionary Computation, 2020, 24, 735-749.	7.5	32
168	Solving Many-Objective Optimization Problems via Multistage Evolutionary Search. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3552-3564.	5.9	32
169	Real-World Applications of Multiobjective Optimization. Lecture Notes in Computer Science, 2008, , 285-327.	1.0	31
170	On the Effectiveness of Sampling for Evolutionary Optimization in Noisy Environments. Evolutionary Computation, 2018, 26, 237-267.	2.3	31
171	Neural network regularization and ensembling using multi-objective evolutionary algorithms. , 0, , .		29
172	Modeling Activity-Dependent Plasticity in BCM Spiking Neural Networks With Application to Human Behavior Recognition. IEEE Transactions on Neural Networks, 2011, 22, 1952-1966.	4.8	29
173	A Developmental Approach to Structural Self-Organization in Reservoir Computing. IEEE Transactions on Autonomous Mental Development, 2012, 4, 273-289.	2.3	29
174	μ JADE: adaptive differential evolution with a small population. Soft Computing, 2016, 20, 4111-4120.	2.1	29
175	Two-stage assortative mating for multi-objective multifactorial evolutionary optimization. , 2017, , .		29
176	Off-line Data-driven Multi-objective Optimization: Knowledge Transfer between Surrogates and Generation of Final Solutions. IEEE Transactions on Evolutionary Computation, 2020, , 1-1.	7.5	29
177	A Multiobjective Evolutionary Algorithm for Finding Knee Regions Using Two Localized Dominance Relationships. IEEE Transactions on Evolutionary Computation, 2021, 25, 145-158.	7.5	29
178	Interpretability-Based Multimodal Convolutional Neural Networks for Skin Lesion Diagnosis. IEEE Transactions on Cybernetics, 2022, 52, 12623-12637.	6.2	29
179	Surrogate-assisted evolutionary multiobjective shape optimization of an air intake ventilation system. , 2017, , .		28
180	Evolutionary multi-objective optimization based ensemble autoencoders for image outlier detection. Neurocomputing, 2018, 309, 192-200.	3.5	28

#	ARTICLE	IF	CITATIONS
181	Co-evolutionary Modular Neural Networks for Automatic Problem Decomposition. , 0, , .		27
182	Multiple-Solution Optimization Strategy for Multirobot Task Allocation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4283-4294.	5.9	27
183	A Model-Based Evolutionary Algorithm for Bi-objective Optimization. , 0, , .		26
184	Generating diverse and accurate classifier ensembles using multi-objective optimization. , 2014, , .		26
185	Computational modeling of neural plasticity for self-organization of neural networks. BioSystems, 2014, 125, 43-54.	0.9	25
186	Echo state networks regulated by local intrinsic plasticity rules for regression. Neurocomputing, 2019, 351, 111-122.	3.5	25
187	Evolutionary Computation and Big Data: Key Challenges and Future Directions. Lecture Notes in Computer Science, 2016, , 3-14.	1.0	24
188	On Constraint Handling in Surrogate-Assisted Evolutionary Many-Objective Optimization. Lecture Notes in Computer Science, 2016, , 214-224.	1.0	24
189	Real-Time Federated Evolutionary Neural Architecture Search. IEEE Transactions on Evolutionary Computation, 2022, 26, 364-378.	7.5	24
190	Individual-based Management of Meta-models for Evolutionary Optimization with Application to Three-Dimensional Blade Optimization. Studies in Computational Intelligence, 2007, , 225-250.	0.7	24
191	A Unified Framework for Symbiosis of Evolutionary Mechanisms with Application to Water Clusters Potential Model Design. IEEE Computational Intelligence Magazine, 2012, 7, 20-35.	3.4	23
192	Connections of reference vectors and different types of preference information in interactive multiobjective evolutionary algorithms. , 2016, , .		23
193	A Method for a Posteriori Identification of Knee Points Based on Solution Density. , 2018, , .		23
194	Immune-Endocrine System Inspired Hierarchical Coevolutionary Multiobjective Optimization Algorithm for IoT Service. IEEE Transactions on Cybernetics, 2020, 50, 164-177.	6.2	23
195	A Pairwise Proximity Learning-Based Ant Colony Algorithm for Dynamic Vehicle Routing Problems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5275-5286.	4.7	23
196	A Computationally Efficient Evolutionary Algorithm for Multiobjective Network Robustness Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 419-432.	7.5	23
197	Distributed additive encryption and quantization for privacy preserving federated deep learning. Neurocomputing, 2021, 463, 309-327.	3.5	23
198	Simultaneous Generation of Accurate and Interpretable Neural Network Classifiers. , 2006, , 291-312.		23

#	ARTICLE	IF	CITATIONS
199	Evolutionary Multi-objective Optimization for Simultaneous Generation of Signal-Type and Symbol-Type Representations. Lecture Notes in Computer Science, 2005, , 752-766.	1.0	23
200	Local Model-Based Pareto Front Estimation for Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 623-634.	5.9	23
201	Robustness Analysis and Failure Recovery of a Bio-Inspired Self-Organizing Multi-Robot System. , 2009, , .		22
202	Swarm robot pattern formation using a morphogenetic multi-cellular based self-organizing algorithm. , 2011, , .		22
203	Evolving Local Plasticity Rules for Synergistic Learning in Echo State Networks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1363-1374.	7.2	22
204	Multi-objective search of robust neural architectures against multiple types of adversarial attacks. Neurocomputing, 2021, 453, 73-84.	3.5	22
205	Evolutionary Complex Engineering Optimization: Opportunities and Challenges [Guest Editorial]. IEEE Computational Intelligence Magazine, 2013, 8, 12-15.	3.4	21
206	Augmented windows fuzzy firewall for preventing denial of service attack. , 2017, , .		21
207	Non-dominated sorting on performance indicators for evolutionary many-objective optimization. Information Sciences, 2021, 551, 23-38.	4.0	21
208	Human activity detection using spiking neural networks regulated by a gene regulatory network. , 2010, , .		20
209	Cross-Ball: A new morphogenetic self-reconfigurable modular robot. , 2011, , .		20
210	A morphogenetic framework for self-organized multirobot pattern formation and boundary coverage. ACM Transactions on Autonomous and Adaptive Systems, 2012, 7, 1-23.	0.4	20
211	A time series driven decomposed evolutionary optimization approach for reconstructing large-scale gene regulatory networks based on fuzzy cognitive maps. BMC Bioinformatics, 2017, 18, 241.	1.2	20
212	Surrogate-Assisted Evolutionary Search of Spiking Neural Architectures in Liquid State Machines. Neurocomputing, 2020, 406, 12-23.	3.5	20
213	Knowledge Incorporation into Neural Networks From Fuzzy Rules. Neural Processing Letters, 1999, 10, 231-242.	2.0	19
214	A Gradient-Guided Evolutionary Approach to Training Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4861-4875.	7.2	19
215	A cellular model for the evolutionary development of lightweight material with an inner structure. , 2008, , .		18
216	Robustness of glycolysis in yeast to internal and external noise. Physical Review E, 2011, 84, 021913.	0.8	18

#	ARTICLE	IF	CITATIONS
217	Computational Intelligence in Big Data [Guest Editorial]. IEEE Computational Intelligence Magazine, 2014, 9, 12-13.	3.4	18
218	An endocrine-based intelligent distributed cooperative algorithm for target tracking in wireless sensor networks. Soft Computing, 2015, 19, 1427-1441.	2.1	18
219	A Strategy for Self-Organized Coordinated Motion of a Swarm of Minimalist Robots. IEEE Transactions on Emerging Topics in Computational Intelligence, 2017, 1, 326-338.	3.4	18
220	Adaptation of Reference Vectors for Evolutionary Many-objective Optimization of Problems with Irregular Pareto Fronts. , 2019, , .		18
221	A federated data-driven evolutionary algorithm. Knowledge-Based Systems, 2021, 233, 107532.	4.0	18
222	Evolutionary Optimization with Dynamic Fidelity Computational Models. Lecture Notes in Computer Science, 2008, , 235-242.	1.0	18
223	A Survey on Knee-Oriented Multiobjective Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 1452-1472.	7.5	18
224	Managing approximate models in evolutionary aerodynamic design optimization. , 0, , .		17
225	Incremental approximation of nonlinear constraint functions for evolutionary constrained optimization. , 2010, , .		17
226	Reference point based prediction for evolutionary dynamic multiobjective optimization. , 2016, , .		17
227	A performance-driven multi-algorithm selection strategy for energy consumption optimization of sea-rail intermodal transportation. Swarm and Evolutionary Computation, 2019, 44, 1-17.	4.5	17
228	A Decision Variable Assortment-Based Evolutionary Algorithm for Dominance Robust Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3360-3375.	5.9	17
229	Global shape with morphogen gradients and motile polarized cells. , 2009, , .		16
230	Emergence of robust regulatory motifs from in silico evolution of sustained oscillation. BioSystems, 2011, 103, 38-44.	0.9	16
231	Calcium control of triphasic hippocampal STDP. Journal of Computational Neuroscience, 2012, 33, 495-514.	0.6	15
232	Evolving hierarchical gene regulatory networks for morphogenetic pattern formation of swarm robots. , 2014, , .		15
233	Learning structure of sensory inputs with synaptic plasticity leads to interference. Frontiers in Computational Neuroscience, 2015, 9, 103.	1.2	15
234	Hierarchical Surrogate-Assisted Evolutionary Multi-Scenario Airfoil Shape Optimization. , 2018, , .		15

#	ARTICLE	IF	CITATIONS
235	Transfer stacking from low-to high-fidelity: A surrogate-assisted bi-fidelity evolutionary algorithm. <i>Applied Soft Computing Journal</i> , 2020, 92, 106276.	4.1	15
236	Evolutionary Multi-objective Optimization of Spiking Neural Networks. <i>Lecture Notes in Computer Science</i> , 2007, , 370-379.	1.0	15
237	Morphogen diffusion algorithms for tracking and herding using a swarm of kilobots. <i>Soft Computing</i> , 2018, 22, 1833-1844.	2.1	14
238	Generating multiple reference vectors for a class of many-objective optimization problems with degenerate Pareto fronts. <i>Complex & Intelligent Systems</i> , 2020, 6, 275-285.	4.0	14
239	Transfer learning based surrogate assisted evolutionary bi-objective optimization for objectives with different evaluation times. <i>Knowledge-Based Systems</i> , 2021, 227, 107190.	4.0	14
240	On the Effectiveness of Sampling for Evolutionary Optimization in Noisy Environments. <i>Lecture Notes in Computer Science</i> , 2014, , 302-311.	1.0	14
241	Single/Multi-objective Inverse Robust Evolutionary Design Methodology in the Presence of Uncertainty. <i>Studies in Computational Intelligence</i> , 2007, , 437-456.	0.7	14
242	Emerged Coupling of Motor Control and Morphological Development in Evolution of Multi-cellular Animats. <i>Lecture Notes in Computer Science</i> , 2011, , 27-34.	1.0	14
243	An interpretable deep neural network for colorectal polyp diagnosis under colonoscopy. <i>Knowledge-Based Systems</i> , 2021, 234, 107568.	4.0	14
244	Errata to "RM-MEDA: A Regularity Model-Based Multiobjective Estimation of Distribution Algorithm" [Feb 08 41-63]. <i>IEEE Transactions on Evolutionary Computation</i> , 2008, 12, 392-392.	7.5	13
245	Evolving neural fields for problems with large input and output spaces. <i>Neural Networks</i> , 2012, 28, 24-39.	3.3	13
246	An evolution strategy assisted by an ensemble of local Gaussian process models. , 2013, , .		13
247	A proactive scheduling approach to steel rolling process with stochastic machine breakdown. <i>Natural Computing</i> , 2019, 18, 679-694.	1.8	13
248	A federated data-driven evolutionary algorithm for expensive multi-/many-objective optimization. <i>Complex & Intelligent Systems</i> , 2021, 7, 3093-3109.	4.0	13
249	Transfer learning for gaussian process assisted evolutionary bi-objective optimization for objectives with different evaluation times. , 2020, , .		13
250	Hybrid attention-based transformer block model for distant supervision relation extraction. <i>Neurocomputing</i> , 2022, 470, 29-39.	3.5	13
251	Emergence of feedback in artificial gene regulatory networks. , 2007, , .		12
252	An examination of different fitness and novelty based selection methods for the evolution of neural networks. <i>Soft Computing</i> , 2013, 17, 753-767.	2.1	12

#	ARTICLE	IF	CITATIONS
253	A synergetic immune clonal selection algorithm based multi-objective optimization method for carbon fiber drawing process. <i>Fibers and Polymers</i> , 2013, 14, 1722-1730.	1.1	12
254	Adaptive Swarm Robot Region Coverage Using Gene Regulatory Networks. <i>Lecture Notes in Computer Science</i> , 2014, , 197-208.	1.0	12
255	Enhancing classification of mass spectrometry imaging data with deep neural networks. , 2017, , .		12
256	References or Preferences “ Rethinking Many-objective Evolutionary Optimization. , 2019, , .		12
257	Bayesian Approaches to Surrogate-Assisted Evolutionary Multi-objective Optimization: A Comparative Study. , 2019, , .		12
258	Surrogate-Assisted Evolutionary Optimization of Large Problems. <i>Studies in Computational Intelligence</i> , 2020, , 165-187.	0.7	12
259	Robust Structural Balance in Signed Networks Using a Multiobjective Evolutionary Algorithm. <i>IEEE Computational Intelligence Magazine</i> , 2020, 15, 24-35.	3.4	12
260	Synergies between synaptic and intrinsic plasticity in echo state networks. <i>Neurocomputing</i> , 2021, 432, 32-43.	3.5	12
261	Adaptive Prototypical Networks With Label Words and Joint Representation Learning for Few-Shot Relation Classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 1406-1417.	7.2	12
262	A fuzzy constraint handling technique for decomposition-based constrained multi- and many-objective optimization. <i>Information Sciences</i> , 2022, 597, 318-340.	4.0	12
263	An approach to rule-based knowledge extraction. , 0, , .		11
264	Global multiobjective optimization via estimation of distribution algorithm with biased initialization and crossover. , 2007, , .		11
265	Reference vector based a posteriori preference articulation for evolutionary multiobjective optimization. , 2015, , .		11
266	An a priori knee identification multi-objective evolutionary algorithm based on ϵ -dominance. , 2019, , .		11
267	Decision-making and multi-objectivization for cost sensitive robust optimization over time. <i>Knowledge-Based Systems</i> , 2020, 199, 105857.	4.0	11
268	A Surrogate-Assisted Evolutionary Algorithm with Random Feature Selection for Large-Scale Expensive Problems. <i>Lecture Notes in Computer Science</i> , 2020, , 125-139.	1.0	11
269	Neural Networks for Fitness Approximation in Evolutionary Optimization. <i>Studies in Fuzziness and Soft Computing</i> , 2005, , 281-306.	0.6	11
270	Evolutionary Search for Complete Neural Network Architectures With Partial Weight Sharing. <i>IEEE Transactions on Evolutionary Computation</i> , 2022, 26, 1072-1086.	7.5	11

#	ARTICLE	IF	CITATIONS
271	Surrogate-assisted evolutionary optimization of expensive many-objective irregular problems. Knowledge-Based Systems, 2022, 240, 108197.	4.0	11
272	Evaluating flexible fuzzy controllers via evolution strategies. Fuzzy Sets and Systems, 1999, 108, 243-252.	1.6	10
273	Evolutionary multi-objective optimization of robustness and innovation in redundant genetic representations. , 2009, , .		10
274	A multi-swarm evolutionary framework based on a feedback mechanism. , 2013, , .		10
275	Incremental information gain analysis of input attribute impact on RBF-kernel SVM spam detection. , 2016, , .		10
276	Guest Editorial Evolutionary Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 1-2.	7.5	10
277	Reference Vector-Assisted Adaptive Model Management for Surrogate-Assisted Many-Objective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7760-7773.	5.9	10
278	Evolutionary multi-objective optimisation with a hybrid representation. , 0, , .		9
279	On the Influence of Phenotype Plasticity on Genotype Diversity. , 2007, , .		9
280	Combination of EDA and DE for continuous biobjective optimization. , 2008, , .		9
281	A fitness-independent evolvability measure for evolutionary developmental systems. , 2010, , .		9
282	On the Correlation between Reservoir Metrics and Performance for Time Series Classification under the Influence of Synaptic Plasticity. PLoS ONE, 2014, 9, e101792.	1.1	9
283	Semi-supervised learning assisted particle swarm optimization of computationally expensive problems. , 2018, , .		9
284	Using PlatEMO to Solve Multi-Objective Optimization Problems in Applications: A Case Study on Feature Selection. , 2019, , .		9
285	Automated Selection of Evolutionary Multi-objective Optimization Algorithms. , 2019, , .		9
286	A dynamic SVR"ARMA model with improved fruit fly algorithm for the nonlinear fiber stretching process. Natural Computing, 2019, 18, 747-756.	1.8	9
287	Transfer Learning Based Co-Surrogate Assisted Evolutionary Bi-Objective Optimization for Objectives with Non-Uniform Evaluation Times. Evolutionary Computation, 2021, , 221-251.	2.3	9
288	Information maximization clustering via multi-view self-labelling. Knowledge-Based Systems, 2022, 250, 109042.	4.0	9

#	ARTICLE	IF	CITATIONS
289	Self-organizing cooperative sensor network for remote surveillance: current results. , 1999, 3713, 238.		8
290	Connectedness, regularity and the success of local search in evolutionary multi-objective optimization. , 0, , .		8
291	Corrections to “Pareto-Based Multiobjective Machine Learning: An Overview and Case Studies” [May 08 397-415]. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 373-373.	3.3	8
292	Self-adaptive multi-robot construction using gene regulatory networks. , 2009, , .		8
293	Similarity-based evolution control for fitness estimation in particle swarm optimization. , 2013, , .		8
294	An efficient method for online detection of polychronous patterns in spiking neural networks. Neurocomputing, 2017, 267, 644-650.	3.5	8
295	An Extended Reinforcement Learning Framework to Model Cognitive Development With Enactive Pattern Representation. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 738-750.	2.6	8
296	Dynamic Evolutionary Multiobjective Optimization for Raw Ore Allocation in Mineral Processing. IEEE Transactions on Emerging Topics in Computational Intelligence, 2018, , 1-13.	3.4	8
297	Modelling the Population Distribution in Multi-objective Optimization by Generative Topographic Mapping. Lecture Notes in Computer Science, 2006, , 443-452.	1.0	8
298	A Gene Regulatory Model for the Development of Primitive Nervous Systems. Lecture Notes in Computer Science, 2009, , 48-55.	1.0	8
299	Morphogenetic Self-Reconfiguration of Modular Robots. Studies in Computational Intelligence, 2011, , 143-171.	0.7	8
300	Fault-tolerant adaptive tracking control of Euler-Lagrange systems “ An echo state network approach driven by reinforcement learning. Neurocomputing, 2022, 484, 109-116.	3.5	8
301	PIVODL: Privacy-Preserving Vertical Federated Learning Over Distributed Labels. IEEE Transactions on Artificial Intelligence, 2023, 4, 988-1001.	3.4	8
302	Solving Three-Objective Optimization Problems Using Evolutionary Dynamic Weighted Aggregation: Results and Analysis. Lecture Notes in Computer Science, 2003, , 636-637.	1.0	7
303	Influence of regulation logic on the easiness of evolving sustained oscillation for gene regulatory networks. , 2009, , .		7
304	Evolution and Analysis of Genetic Networks for Stable Cellular Growth and Regeneration. Artificial Life, 2012, 18, 425-444.	1.0	7
305	EVOLVING CONNECTIVITY BETWEEN GENETIC OSCILLATORS AND SWITCHES USING EVOLUTIONARY ALGORITHMS. Journal of Bioinformatics and Computational Biology, 2013, 11, 1341001.	0.3	7
306	An ensemble of single multiplicative neuron models for probabilistic prediction. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
307	Empirical analysis of a tree-based efficient non-dominated sorting approach for many-objective optimization. , 2016, , .		7
308	Immune-inspired self-adaptive collaborative control allocation for multi-level stretching processes. Information Sciences, 2016, 342, 81-95.	4.0	7
309	Multiobjective shape design in a ventilation system with a preference-driven surrogate-assisted evolutionary algorithm. , 2019, , .		7
310	A hybrid instance-intensive workflow scheduling method in private cloud environment. Natural Computing, 2019, 18, 735-746.	1.8	7
311	Introduction to Machine Learning. Studies in Computational Intelligence, 2021, , 103-145.	0.7	7
312	Evolving in silico bistable and oscillatory dynamics for gene regulatory network motifs. , 2008, , .		6
313	Object recognition using a bio-inspired neuron model with bottom-up and top-down pathways. Neurocomputing, 2011, 74, 3158-3169.	3.5	6
314	Multi-sensor optimal fusion filters for delayed nonlinear intelligent systems based on a unified model. Neural Networks, 2011, 24, 280-290.	3.3	6
315	Multi-objective evolutionary recurrent neural network ensemble for prediction of computational fluid dynamic simulations. , 2014, , .		6
316	Evolutionary non-linear modelling for selecting vaccines against antigenically variable viruses. Bioinformatics, 2015, 31, 834-840.	1.8	6
317	Small data driven evolutionary multi-objective optimization of fused magnesium furnaces. , 2016, , .		6
318	Network structural optimization based on swarm intelligence for highlevel classification. , 2016, , .		6
319	Thematic issue on "bio-inspired learning for data analysis". Memetic Computing, 2017, 9, 1-2.	2.7	6
320	Efficient nonlinear correlation detection for decomposed search in evolutionary multi-objective optimization. , 2017, , .		6
321	Prediction of Physical Properties of Crude Oil Based on Ensemble Random Weights Neural Network. IFAC-PapersOnLine, 2018, 51, 655-660.	0.5	6
322	EEG feature learning with Intrinsic Plasticity based Deep Echo State Network. , 2020, , .		6
323	Language model based interactive estimation of distribution algorithm. Knowledge-Based Systems, 2020, 200, 105980.	4.0	6
324	A Self-Adaptive Response Strategy for Dynamic Multiobjective Evolutionary Optimization Based on Objective Space Decomposition. Evolutionary Computation, 2021, 29, 491-519.	2.3	6

#	ARTICLE	IF	CITATIONS
325	Computational Modeling of Structural Synaptic Plasticity in Echo State Networks. IEEE Transactions on Cybernetics, 2022, 52, 11254-11266.	6.2	6
326	Image Clustering Using an Augmented Generative Adversarial Network and Information Maximization. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 7461-7474.	7.2	6
327	Performance Indicator-Based Adaptive Model Selection for Offline Data-Driven Multiobjective Evolutionary Optimization. IEEE Transactions on Cybernetics, 2023, 53, 6263-6276.	6.2	6
328	Trusted Evolutionary Algorithm. , 0, , .		5
329	Guest Editorial Special Issue on Evolutionary Computation in the Presence of Uncertainty. IEEE Transactions on Evolutionary Computation, 2006, 10, 377-379.	7.5	5
330	Editorial to special issue on evolutionary computation in dynamic and uncertain environments. Genetic Programming and Evolvable Machines, 2006, 7, 293-294.	1.5	5
331	Pareto analysis of evolutionary and learning systems. Frontiers of Computer Science, 2009, 3, 4-17.	0.6	5
332	A morphogenetic self-organization algorithm for swarm robotic systems using relative position information. , 2010, , .		5
333	Evolutionary multi-objective optimization of trace transform for invariant feature extraction. , 2012, , .		5
334	The emergence of polychronous groups under varying input patterns, plasticity rules and network connectivities. , 2012, , .		5
335	Neural network ensembles for image identification using Pareto-optimal features. , 2014, , .		5
336	A self-adaptive similarity-based fitness approximation for evolutionary optimization. , 2016, , .		5
337	Comparisons of different kernels in Kriging-assisted evolutionary expensive optimization. , 2017, , .		5
338	Surrogate-Assisted Expensive Many-Objective Optimization by Model Fusion. , 2019, , .		5
339	Toward Real-Time Federated Evolutionary Neural Architecture Search. Natural Computing Series, 2021, , 133-147.	2.2	5
340	Vector Field Embryogeny. PLoS ONE, 2009, 4, e8177.	1.1	5
341	Coordinated Adaptation of Reference Vectors and Scalarizing Functions in Evolutionary Many-Objective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 763-775.	5.9	5
342	Adaptive fuzzy modelling and identification with its applications. International Journal of Systems Science, 1995, 26, 197-212.	3.7	4

#	ARTICLE	IF	CITATIONS
343	Comparative studies on micro heat exchanger optimisation. , 0, , .		4
344	Guest Editorial Special Issue on Knowledge Extraction and Incorporation in Evolutionary Computation. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2005, 35, 129-130.	3.3	4
345	NEATfields. , 2010, , .		4
346	Analysis of local communication load in shape formation of a distributed morphogenetic swarm robotic system. , 2010, , .		4
347	Heterogeneous classifier ensembles for EEG-based motor imaginary detection. , 2012, , .		4
348	Combining genetic oscillators and switches using evolutionary algorithms. , 2012, , .		4
349	Evolutionary truss layout optimization using the vectorized structure approach. , 2013, , .		4
350	Recurrent neural network ensembles for convergence prediction in surrogate-assisted evolutionary optimization. , 2013, , .		4
351	Data Driven Evolutionary Optimization of Complex Systems. , 2016, , .		4
352	Hyperparameter Estimation in SVM with GPU Acceleration for Prediction of Protein-Protein Interactions. , 2019, , .		4
353	Searching for Robustness Intervals in Evolutionary Robust Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 58-72.	7.5	4
354	Modeling Regularity to Improve Scalability of Model-Based Multiobjective Optimization Algorithms. Natural Computing Series, 2008, , 331-355.	2.2	4
355	Cooperative Coevolutionary CMA-ES With Landscape-Aware Grouping in Noisy Environments. IEEE Transactions on Evolutionary Computation, 2023, 27, 686-700.	7.5	4
356	Theoretical Comparisons of Search Dynamics of Genetic Algorithms and Evolution Strategies. , 0, , .		3
357	Adaptive modelling strategy for continuous multi-objective optimization. , 2007, , .		3
358	Special Issue on Evolutionary and Developmental Robotics [Guest Editorial. IEEE Computational Intelligence Magazine, 2010, 5, 9-9.	3.4	3
359	Fusing bottom-up and top-down pathways in neural networks for visual object recognition. , 2010, , .		3
360	Redundancy creates opportunity in developmental representations. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
361	Exploiting inherent regularity in control of multilegged robot locomotion by evolving neural fields. , 2011, , .		3
362	Quantitative analysis of redundancy in evolution of developmental systems. , 2012, , .		3
363	Demonstrator selection in a social learning particle swarm optimizer. , 2014, , .		3
364	New performance indicators for robust optimization over time. , 2015, , .		3
365	A cytokine network-inspired cooperative control system for multi-stage stretching processes in fiber production. <i>Soft Computing</i> , 2015, 19, 1523-1540.	2.1	3
366	Fitness Estimation Strategy Assisted Competitive Swarm Optimizer for High Dimensional Expensive Problems. , 2016, , .		3
367	Nature-Inspired Graph Optimization for Dimensionality Reduction. , 2017, , .		3
368	Incremental data-driven optimization of complex systems in nonstationary environments. <i>Science China Information Sciences</i> , 2018, 61, 1.	2.7	3
369	Techniques for Accelerating Multi-Objective Evolutionary Algorithms in PlatEMO. , 2020, , .		3
370	Rescheduling Under Disruptions in Manufacturing Systems. <i>Uncertainty and Operations Research</i> , 2020, , .	0.1	3
371	Regulated Morphogen Gradients for Target Surrounding and Adaptive Shape Formation. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021, 13, 818-826.	2.6	3
372	Action Command Encoding for Surrogate-Assisted Neural Architecture Search. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022, 14, 1129-1142.	2.6	3
373	Agent Based Multi-Objective Approach to Generating Interpretable Fuzzy Systems. , 2006, , 339-364.		3
374	Morphogenetic Robotics: A New Paradigm for Designing Self-Organizing, Self-Reconfigurable and Self-Adaptive Robots. <i>Understanding Complex Systems</i> , 2012, , 61-87.	0.3	3
375	Evolution of Multisensory Integration in Large Neural Fields. <i>Lecture Notes in Computer Science</i> , 2012, , 181-192.	1.0	3
376	A Comparative Study of Multi-objective Evolutionary Trace Transform Methods for Robust Feature Extraction. <i>Lecture Notes in Computer Science</i> , 2013, , 573-586.	1.0	3
377	Morphogenetic Self-Organization of Collective Movement without Directional Sensing. <i>Lecture Notes in Computer Science</i> , 2014, , 139-150.	1.0	3
378	Surrogate-Assisted Evolutionary <i>Q</i> -Learning for Black-Box Dynamic Time-Linkage Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2023, 27, 1162-1176.	7.5	3

#	ARTICLE	IF	CITATIONS
379	A New Approach to Dynamics Analysis of Genetic Algorithms without Selection. , 0, , .		2
380	Generating distinguishable, complete, consistent and compact fuzzy systems using evolutionary algorithms. Studies in Fuzziness and Soft Computing, 2003, , 100-118.	0.6	2
381	Prediction of convergence dynamics of design performance using differential recurrent neural networks. , 2008, , .		2
382	Evolving heterochrony for cellular differentiation using vector field embryogeny. , 2010, , .		2
383	Modeling neural plasticity in echo state networks for time series prediction. , 2014, , .		2
384	An adaptive model selection strategy for surrogate-assisted particle swarm optimization algorithm. , 2016, , .		2
385	Special issue on "Data-driven evolutionary optimization" Soft Computing, 2017, 21, 5867-5868.	2.1	2
386	Use of Global Drag Rise Boundaries to Investigate Ill-Posed Transonic Airfoil Optimization. , 2018, , .		2
387	A Multi-indicator based Selection Strategy for Evolutionary Many-objective Optimization. , 2019, , .		2
388	Evolutionary Optimization of Liquid State Machines for Robust Learning. Lecture Notes in Computer Science, 2019, , 389-398.	1.0	2
389	A New Selection Strategy for Decomposition-based Evolutionary Many-Objective Optimization. , 2019, , .		2
390	Guest Editorial: Special Issue on Computational Intelligence in Data-Driven Optimization. IEEE Transactions on Emerging Topics in Computational Intelligence, 2019, 3, 90-92.	3.4	2
391	Evolving Hyperparameters for Training Deep Neural Networks against Adversarial Attacks. , 2019, , .		2
392	A Gated Recurrent Unit based Echo State Network. , 2020, , .		2
393	Evolutionary and Swarm Optimization. Studies in Computational Intelligence, 2021, , 53-101.	0.7	2
394	Experience Sharing Based Memetic Transfer Learning for Multiagent Reinforcement Learning. Memetic Computing, 2022, 14, 3-17.	2.7	2
395	Guest Editorial Special Issue on Deep Integration of Artificial Intelligence and Data Science for Process Manufacturing. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3294-3295.	7.2	2
396	Morphogenetic Robotics - An Evolutionary Developmental Approach to Morphological and Neural Self-Organization of Robotic Systems. Studies in Computational Intelligence, 2011, , 3-23.	0.7	2

#	ARTICLE	IF	CITATIONS
397	Techniques in Neural-Network-Based Fuzzy System Identification and Their Application to Control of Complex Systems. , 1999, , 111-128.		2
398	Effect of Communication Modes to Swarm Robotic Search. Open Electrical and Electronic Engineering Journal, 2014, 8, 240-244.	0.6	2
399	Fuzzy Logic in Evolving in silico Oscillatory Dynamics for Gene Regulatory Networks. Studies in Fuzziness and Soft Computing, 2009, , 315-327.	0.6	2
400	Distributed Multi-Agent Systems for a Collective Construction Task based on Virtual Swarm Intelligence. International Journal of Swarm Intelligence Research, 2010, 1, 58-79.	0.5	2
401	Evolutionary Large-Scale Dynamic Optimization Using Bilevel Variable Grouping. IEEE Transactions on Cybernetics, 2023, 53, 6937-6950.	6.2	2
402	Evolving Dual-Threshold Bienenstock-Cooper-Munro Learning Rules in Echo State Networks. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1572-1583.	7.2	2
403	Toward a gene regulatory network model for evolving chemotaxis behavior. , 2008, , .		1
404	Evolving gene regulatory networks. BioSystems, 2009, 98, vi-vii.	0.9	1
405	The Effect of Proprioceptive Feedback on the Distribution of Sensory Information in a Model of an Undulatory Organism. Lecture Notes in Computer Science, 2011, , 18-26.	1.0	1
406	Guest Editorial Special Issue on Computational Modeling of Neural and Brain Development. IEEE Transactions on Autonomous Mental Development, 2011, 3, 273-275.	2.3	1
407	Reconstructing regulatory networks in Streptomyces using evolutionary algorithms. , 2013, , .		1
408	Data-Driven Surrogate-Assisted Evolutionary Optimization. Studies in Computational Intelligence, 2021, , 147-172.	0.7	1
409	Surrogate-Assisted Multi-objective Evolutionary Optimization. Studies in Computational Intelligence, 2021, , 201-229.	0.7	1
410	Surrogate-Assisted High-Dimensional Evolutionary Optimization. Studies in Computational Intelligence, 2021, , 309-341.	0.7	1
411	Regular echo state networks. , 2021, , .		1
412	Interpretability improvement of RBF-based neurofuzzy systems using regularized learning. Studies in Fuzziness and Soft Computing, 2003, , 605-620.	0.6	1
413	Ensemble Learning Optimization for Diabetic Retinopathy Image Analysis. , 2015, , .		1
414	Solution Set Augmentation for Knee Identification in Multiobjective Decision Analysis. IEEE Transactions on Cybernetics, 2023, 53, 2480-2493.	6.2	1

#	ARTICLE	IF	CITATIONS
415	Alleviating Catastrophic Forgetting via Multi-Objective Learning. , 0, , .		0
416	Generalization Improvement in Multi-Objective Learning. , 0, , .		0
417	Multiple memory stores and operant conditioning: A rationale for memory's complexity. Brain and Cognition, 2009, 69, 200-208.	0.8	0
418	Guest Editorial: Special Issue on Evolving Developmental Systems. IEEE Transactions on Evolutionary Computation, 2011, 15, 285-286.	7.5	0
419	Evo-devo-robo workshop program. , 2012, , .		0
420	2012 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (IEEE Tj ETQq0,0,0 rgBT /Overlock 1	3.4	0
421	Simulating swarm behaviours for optimisation by learning from neighbours. , 2013, , .		0
422	Similarity- and reliability-assisted fitness estimation for particle swarm optimization of expensive problems. , 2014, , .		0
423	IEEE CIS VP-Technical Activities Vision Statement [Society Briefs]. IEEE Computational Intelligence Magazine, 2014, 9, 9-10.	3.4	0
424	Trade-off between computational complexity and accuracy in evolutionary image feature extraction. , 2015, , .		0
425	General chairs and program chairs message. , 2015, , .		0
426	Special issue on UKCI 2013. Soft Computing, 2015, 19, 1443-1444.	2.1	0
427	An improved mini-batching technique: Sample-and-Learn. , 2016, , .		0
428	Surrogate-Assisted Evolutionary Optimisation (SAEOpt'16) Chairs' Welcome & Organization. , 2016, , .		0
429	Preface from IEEE SSCI 2016 general chairs. , 2016, , .		0
430	Editorial IEEE Transactions on Cognitive and Developmental Systems. IEEE Transactions on Cognitive and Developmental Systems, 2016, 8, 1-2.	2.6	0
431	Conference Report on 2016 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2016) [Conference Reports]. IEEE Computational Intelligence Magazine, 2017, 12, 18-19.	3.4	0
432	CIS Publication Spotlight [Publication Spotlight]. IEEE Computational Intelligence Magazine, 2017, 12, 6-9.	3.4	0

#	ARTICLE	IF	CITATIONS
433	Garteur AD/AG-52: Surrogate-Based Global Optimization Methods in Preliminary Aerodynamic Design. Computational Methods in Applied Sciences (Springer), 2019, , 195-210.	0.1	0
434	To the special Issue on "Metaheuristics for optimization of complex process engineering". Natural Computing, 2019, 18, 677-678.	1.8	0
435	HIME: Mining and Ensembling Heterogeneous Information for Protein-Protein Interactions Prediction. , 2020, , .		0
436	CIS Publication Spotlight [Publication Spotlight]. IEEE Computational Intelligence Magazine, 2020, 15, 19-21.	3.4	0
437	Surrogate-Assisted Evolutionary Neural Architecture Search. Studies in Computational Intelligence, 2021, , 373-387.	0.7	0
438	Introduction to Optimization. Studies in Computational Intelligence, 2021, , 1-40.	0.7	0
439	Multi-surrogate-Assisted Single-objective Optimization. Studies in Computational Intelligence, 2021, , 173-200.	0.7	0
440	Surrogate-Assisted Many-Objective Evolutionary Optimization. Studies in Computational Intelligence, 2021, , 231-271.	0.7	0
441	Offline Big or Small Data-Driven Optimization and Applications. Studies in Computational Intelligence, 2021, , 343-371.	0.7	0
442	Rule Extraction from Compact Pareto-optimal Neural Networks. Studies in Computational Intelligence, 2008, , 71-90.	0.7	0
443	Emergent Distribution of Computational Workload in the Evolution of an Undulatory Animat. Lecture Notes in Computer Science, 2010, , 587-596.	1.0	0
444	A Multi-cellular Based Self-organizing Approach for Distributed Multi-Robot Systems. Studies in Computational Intelligence, 2011, , 123-137.	0.7	0
445	Incremental Approximation Models for Constrained Evolutionary Optimization. Infosys Science Foundation Series, 2015, , 135-156.	0.3	0
446	Evolutionary Optimization of complex Systems in Uncertain Environments. , 0, , .		0
447	Distributed Multi-Agent Systems for a Collective Construction Task based on Virtual Swarm Intelligence. , 0, , 308-330.		0
448	Simultaneous Generation of Accurate and Interpretable Neural Network Classifiers. , 2006, , 289-312.		0
449	Agent Based Multi-Objective Approach to Generating Interpretable Fuzzy Systems. , 2006, , 339-364.		0