Cooperatively Coevolving Particle Swarms for Large Sca

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Citation Report

#	Article	IF	CITATIONS
1	Multi-swarm cooperation optimization for multi-modal functions in repulsive potential field. , 2011, , .		2
2	A New Simple Micro-PSO for High Dimensional Optimization Problem. Applied Mechanics and Materials, 2012, 236-237, 1195-1200.	0.2	О
3	Mapping constrained optimization problems to algorithms and constraint handling techniques. , 2012, , .		5
4	CCPSO Based on PCA for Large-Scale Optimization Problem. Applied Mechanics and Materials, 0, 236-237, 1190-1194.	0.2	0
5	Differential Evolution with Adaptive Mutation and Parameter Control Using Lévy Probability Distribution. Journal of Computer Science and Technology, 2012, 27, 1035-1055.	1.5	19
6	Empirical study of the effect of variable correlation on grouping in Cooperative Coevolutionary Evolutionary Algorithms. , 2012, , .		2
7	Tracking Particle Swarm Optimizers: An adaptive approach through multinomial distribution tracking with exponential forgetting. , 2012, , .		5
8	Particle swarm optimization-based receding horizon control for multi-robot formation. , 2012, , .		1
9	Evolving cognitive and social experience in Particle Swarm Optimization through Differential Evolution: A hybrid approach. Information Sciences, 2012, 216, 50-92.	6.9	114
10	Real/binary co-operative and co-evolving swarms based multivariable PID controller design of ball mill pulverizing system. Energy Conversion and Management, 2012, 54, 67-80.	9.2	10
11	Evaluation of asynchronous multiâ€swarm particle optimization on several topologies. Concurrency Computation Practice and Experience, 2013, 25, 1057-1071.	2.2	10
12	Cogging Torque Minimization of a Dual-Type Axial-Flux Permanent Magnet Motor Using a Novel Optimization Algorithm. IEEE Transactions on Magnetics, 2013, 49, 5106-5111.	2.1	28
13	Securing high resolution grayscale facial captures using a blockwise coevolutionary GA. Expert Systems With Applications, 2013, 40, 6693-6706.	7.6	6
14	Particle Swarm Optimization-Based Distributed Control Scheme for Flocking Robots. Advances in Intelligent Systems and Computing, 2013, , 517-524.	0.6	3
15	Particle swarm optimization with age-group topology for multimodal functions and data clustering. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 3134-3145.	3.3	47
16	An improved artificial bee colony (ABC) algorithm for large scale optimization. , 2013, , .		6
17	Cooperative coevolution-based model predictive control for multi-robot formation. , 2013, , .		3
18	Neural Networks Applied in Chemistry. II. Neuro-Evolutionary Techniques in Process Modeling and Optimization. Industrial & Engineering Chemistry Research, 2013, 52, 12673-12688.	3.7	18

#	Article	IF	CITATIONS
19	A CMA-ES super-fit scheme for the re-sampled inheritance search. , 2013, , .		26
20	Re-sampled inheritance search: high performance despite the simplicity. Soft Computing, 2013, 17, 2235-2256.	3.6	28
21	Two-layer particle swarm optimization with intelligent division of labor. Engineering Applications of Artificial Intelligence, 2013, 26, 2327-2348.	8.1	39
22	Cooperative particle swarm optimization in dynamic environments. , 2013, , .		12
23	Impact of problem decomposition on Cooperative Coevolution. , 2013, , .		18
24	Smoothing and auxiliary functions based cooperative coevolution for global optimization. , 2013, , .		10
25	Re-sampling search: A seriously simple memetic approach with a high performance. , 2013, , .		2
26	Decomposing Large-Scale Capacitated Arc Routing Problems using a random route grouping method. , 2013, , .		14
27	Parallel memetic structures. Information Sciences, 2013, 227, 60-82.	6.9	95
28	Multiple Populations for Multiple Objectives: A Coevolutionary Technique for Solving Multiobjective Optimization Problems. IEEE Transactions on Cybernetics, 2013, 43, 445-463.	9.5	464
29	A team-oriented approach to particle swarms. Applied Soft Computing Journal, 2013, 13, 3776-3791.	7.2	7
30	An Improved PSO Algorithm and Its Application to UWB Antenna Design. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1236-1239.	4.0	85
31	A PSO-Optimized Minimum Spanning Tree-Based Topology Control Scheme for Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2013, 9, 985410.	2.2	17
32	Cooperative Micro Artificial Bee Colony Algorithm for Large Scale Global Optimization Problems. Lecture Notes in Computer Science, 2013, , 469-480.	1.3	1
33	Bidirectional Dynamic Diversity Evolutionary Algorithm for Constrained Optimization. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	1
34	Super-fit Multicriteria Adaptive Differential Evolution. , 2013, , .		31
35	Hybrid gradient particle swarm optimization for dynamic optimization problems of chemical processes. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 708-720.	1.5	22
36	Focusing the search: a progressively shrinking memetic computing framework. International Journal of Innovative Computing and Applications, 2013, 5, 127.	0.2	3

#	Article	IF	CITATIONS
37	A unification of the prevalent views on exploitation, exploration, intensification and diversification. International Journal of Metaheuristics, 2013, 2, 294.	0.1	5
38	Component sizing of a plug-in hybrid electric vehicle powertrain, Part A: coupling bio-inspired techniques to meshless variable-fidelity surrogate models. International Journal of Bio-Inspired Computation, 2013, 5, 350.	0.9	11
39	Convergence Analysis of Particle Swarm Optimizer and Its Improved Algorithm Based on Velocity Differential Evolution. Computational Intelligence and Neuroscience, 2013, 2013, 1-7.	1.7	28
40	Hierarchical Artificial Bee Colony Algorithm for RFID Network Planning Optimization. Scientific World Journal, The, 2014, 2014, 1-21.	2.1	24
41	Feature selection for problem decomposition on high dimensional optimization. , 2014, , .		0
42	Cooperative particle swarm optimizer with elimination mechanism for global optimization of multimodal problems. , 2014, , .		6
43	Discrete and Continuous Optimization Based on Hierarchical Artificial Bee Colony Optimizer. Journal of Applied Mathematics, 2014, 2014, 1-20.	0.9	11
44	A novel cooperative coevolution for large scale global optimization. , 2014, , .		10
45	Defect Profile Estimation from Magnetic Flux Leakage Signal via Efficient Managing Particle Swarm Optimization. Sensors, 2014, 14, 10361-10380.	3.8	31
46	A Separability Prototype for Automatic Memes with Adaptive Operator Selection. , 2014, , .		8
47	Colonial multi-swarm: A modular approach to administration of particle swarm optimization in large scale problems. , 2014, , .		2
48	Optimisation of interacting production stations using a Constructive Cooperative Coevolutionary approach. , 2014, , .		3
49	Real-parameter compact supervision for the Particle Swarm Optimization (RCSPSO). , 2014, , .		1
50	A cooperative coevolutionary approach to multi-robot formation control. , 2014, , .		1
51	Extending Minimum Population Search towards large scale global optimization. , 2014, , .		3
52	Effective decomposition of large-scale separable continuous functions for cooperative co-evolutionary algorithms. , 2014, , .		43
53	A novel hybridization of opposition-based learning and cooperative co-evolutionary for large-scale optimization. , 2014, , .		14
54	Iterative Dynamic Diversity Evolutionary Algorithm for Constrained Optimization. Zidonghua Xuebao/Acta Automatica Sinica, 2014, 40, 2469-2479.	1.5	3

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#	Article	IF	CITATIONS
55	Cooperative coevolutionary algorithms for dynamic optimization: an experimental study. Evolutionary Intelligence, 2014, 7, 201-218.	3.6	10
56	Variable grouping based differential evolution using an auxiliary function for large scale global optimization. , 2014, , .		12
57	Mapping constrained optimization problems to penalty parameters: An empirical study. , 2014, , .		1
58	Hierarchical Artificial Bee Colony Optimizer with Divide-and-Conquer and Crossover for Multilevel Threshold Image Segmentation. Discrete Dynamics in Nature and Society, 2014, 2014, 1-22.	0.9	2
59	Path planning for unmanned vehicle searching based on sensor deployment and travelling salesman problem. , 2014, , .		3
60	Cascaded evolutionary multiobjective identification based on correlation function statistical tests for improving velocity analyzes in swimming. , 2014, , .		0
61	Cooperative Co-Evolution With Differential Grouping for Large Scale Optimization. IEEE Transactions on Evolutionary Computation, 2014, 18, 378-393.	10.0	616
62	An analysis on separability for Memetic Computing automatic design. Information Sciences, 2014, 265, 1-22.	6.9	84
63	Cooperative artificial bee colony algorithm for multi-objective RFID network planning. Journal of Network and Computer Applications, 2014, 42, 143-162.	9.1	99
64	Compensatory neural fuzzy networks with rule-based cooperative differential evolution for nonlinear system control. Nonlinear Dynamics, 2014, 75, 355-366.	5.2	2
65	Reconstructing biological gene regulatory networks: where optimization meets big data. Evolutionary Intelligence, 2014, 7, 29-47.	3.6	43
66	A survey of multi-objective metaheuristics applied to structural optimization. Structural and Multidisciplinary Optimization, 2014, 49, 537-558.	3.5	157
67	Cooperative bare-bone particle swarm optimization for data clustering. Soft Computing, 2014, 18, 1079-1091.	3.6	31
68	Pure harmonics extracting from time-varying power signal based on improved empirical mode decomposition. Measurement: Journal of the International Measurement Confederation, 2014, 49, 216-225.	5.0	10
69	Hybrid particle swarm optimization for parameter estimation of Muskingum model. Neural Computing and Applications, 2014, 25, 1785-1799.	5.6	56
70	Training high-dimensional neural networks with cooperative particle swarm optimiser. , 2014, , .		8
71	MULTI-STRATEGY COEVOLVING AGING PARTICLE OPTIMIZATION. International Journal of Neural Systems, 2014, 24, 1450008.	5.2	65
72	The Emerging "Big Dimensionality". IEEE Computational Intelligence Magazine, 2014, 9, 14-26.	3.2	188

#	Article	IF	CITATIONS
73	Data Clustering Using Variants of Rapid Centroid Estimation. IEEE Transactions on Evolutionary Computation, 2014, 18, 366-377.	10.0	38
74	Solving Computationally Expensive Engineering Problems. Springer Proceedings in Mathematics and Statistics, 2014, , .	0.2	8
75	A Cooperative Parallel Search-Based Software Engineering Approach for Code-Smells Detection. IEEE Transactions on Software Engineering, 2014, 40, 841-861.	5.6	92
76	Dynamic partition search algorithm for global numerical optimization. Applied Intelligence, 2014, 41, 1108-1126.	5.3	6
77	Large-Scale Global Optimization via Swarm Intelligence. Springer Proceedings in Mathematics and Statistics, 2014, , 241-253.	0.2	3
78	An adaptive memetic Particle Swarm Optimization algorithm for finding large-scale Latin hypercube designs. Engineering Applications of Artificial Intelligence, 2014, 36, 222-237.	8.1	22
79	Parameter identification for solid oxide fuel cells using cooperative barebone particle swarm optimization with hybrid learning. International Journal of Hydrogen Energy, 2014, 39, 532-542.	7.1	44
80	AHPS2: An optimizer using adaptive heterogeneous particle swarms. Information Sciences, 2014, 280, 26-52.	6.9	18
81	Complex Network Clustering by Multiobjective Discrete Particle Swarm Optimization Based on Decomposition. IEEE Transactions on Evolutionary Computation, 2014, 18, 82-97.	10.0	323
82	Fast and Accurate Optimization of a GPU-accelerated CA Urban Model through Cooperative Coevolutionary Particle Swarms. Procedia Computer Science, 2014, 29, 1631-1643.	2.0	18
83	A review of concurrent optimisation methods. International Journal of Bio-Inspired Computation, 2014, 6, 22.	0.9	6
84	A novel differential evolution for constrained optimization. , 2014, , .		1
85	Real-time magnetic dipole detection with single particle optimization. Applied Soft Computing Journal, 2014, 23, 460-473.	7.2	12
86	Enhancing the firefly algorithm through a cooperative coevolutionary approach: an empirical study on benchmark optimisation problems. International Journal of Bio-Inspired Computation, 2014, 6, 108.	0.9	18
87	A Co-cooperative Evolutionary Algorithm for Flexible Scheduling Problem under Uncertainty. Procedia Computer Science, 2015, 61, 515-520.	2.0	1
88	Optimization on Metamodeling-Supported Iterative Decomposition. , 2015, , .		0
89	Base Station Placement Algorithm for Large-Scale LTE Heterogeneous Networks. PLoS ONE, 2015, 10, e0139190.	2.5	21
90	Parallel and Cooperative Particle Swarm Optimizer for Multimodal Problems. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	4

ARTICLE IF CITATIONS # Root Growth Optimizer with Self-Similar Propagation. Mathematical Problems in Engineering, 2015, 1.1 4 91 2015, 1-12. Distributed evolutionary algorithms and their models: A survey of the state-of-the-art. Applied Soft Computing Journal, 2015, 34, 286-300. 7.2 361 A New Particle Swarm Optimizer with Cooperative Coevolution for Large Scale Optimization. 93 0.6 1 Advances in Intelligent Systems and Computing, 2015, , 781-789. On the performances of the flower pollination algorithm $\hat{a} \in \mathcal{C}$ Qualitative and quantitative analyses. 94 Applied Soft Computing Journal, 2015, 34, 349-371. A Swarm Optimization approach for clinical knowledge mining. Computer Methods and Programs in 95 4.7 27 Biomedicine, 2015, 121, 137-148. A Differential Evolution Algorithm Based on Local Search and Boundary Reflection for Global Optimization., 2015,,. Quantum-Behaved Particle Swarm Optimization with Cooperative Coevolution for Large Scale 97 4 Optimization., 2015,,. A Compromise-Based Particle Swarm Optimization Algorithm for Solving Bi-Level Programming Problems with Fuzzy Parameters., 2015,,. An effective cooperative coevolution framework integrating global and local search for large scale 99 8 optimization problems., 2015,,. Designing benchmark problems for large-scale continuous optimization. Information Sciences, 2015, 104 316, 419-436. A Multiobjective Evolutionary Algorithm Using Gaussian Process-Based Inverse Modeling. IEEE 101 10.0 295 Transactions on Evolutionary Computation, 2015, 19, 838-856. Non-rigid multi-modal medical image registration by combining L-BFGS-B with cat swarm optimization. 39 Information Sciences, 2015, 316, 440-456. Cooperative Coevolutionary Algorithm-Based Model Predictive Control Guaranteeing Stability of 103 5.2 32 Multirobot Formation. IEEE Transactions on Control Systems Technology, 2015, 23, 37-51. Reducing vehicle emissions and fuel consumption in the city by using particle swarm optimization. 104 5.3 Applied Intelligence, 2015, 42, 389-405. An Efficient and Effective Algorithm for Large Scale Global Optimization Problems. International 105 1.2 4 Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1559006. Optimal control of hydraulically driven parallel robot platform based on firefly algorithm. Nonlinear Dynamics, 2015, 82, 1457-1473. Cloud Computing Resource Scheduling and a Survey of Its Evolutionary Approaches. ACM Computing 107 23.0 366 Surveys, 2015, 47, 1-33. Bare bones artificial bee colony algorithm with parameter adaptation and fitness-based neighborhood. Information Sciences, 2015, 316, 180-200.

#	Article	IF	CITATIONS
109	A Fast and Stable Forecasting Model to Forecast Power Load. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1559005.	1.2	8
110	Biomimicry of parasitic behavior in a coevolutionary particle swarm optimization algorithm for global optimization. Applied Soft Computing Journal, 2015, 32, 224-240.	7.2	27
111	A Walk into Metaheuristics for Engineering Optimization: Principles, Methods and Recent Trends. International Journal of Computational Intelligence Systems, 2015, 8, 606.	2.7	69
112	Cooperative particle swarm optimizer with improved elimination mechanism for global optimization. , 2015, , .		1
113	A Bayesian Optimization-based Evolutionary Algorithm for Flexible Job Shop Scheduling. Procedia Computer Science, 2015, 61, 521-526.	2.0	15
114	A Cooperative Coevolution Framework for Parallel Learning to Rank. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 3152-3165.	5.7	13
115	Reconstructing Cross-Cut Shredded Text Documents. , 2015, , .		3
116	An novel image segmentation framework by cooperative learning and evolutionary two-objective kernel clustering. , 2015, , .		0
117	Hybridizing two-stage meta-heuristic optimization model with weighted least squares support vector machine for optimal shape of double-arch dams. Applied Soft Computing Journal, 2015, 27, 205-218.	7.2	31
118	Cluster-Based Population Initialization for differential evolution frameworks. Information Sciences, 2015, 297, 216-235.	6.9	86
119	Greedy discrete particle swarm optimization for large-scale social network clustering. Information Sciences, 2015, 316, 503-516.	6.9	108
120	A sinusoidal differential evolution algorithm for numerical optimisation. Applied Soft Computing Journal, 2015, 27, 99-126.	7.2	176
121	Differential Evolution With Auto-Enhanced Population Diversity. IEEE Transactions on Cybernetics, 2015, 45, 302-315.	9.5	187
122	Metaheuristics in large-scale global continues optimization: A survey. Information Sciences, 2015, 295, 407-428.	6.9	347
123	Decomposition for large-scale global optimization based on quantified variable correlations uncovered by metamodelling. Engineering Optimization, 2015, 47, 429-452.	2.6	17
124	A more efficient attribute self-adaptive co-evolutionary reduction algorithm by combining quantum elitist frogs and cloud model operators. Information Sciences, 2015, 293, 214-234.	6.9	15
125	A Dual-Population Differential Evolution With Coevolution for Constrained Optimization. IEEE Transactions on Cybernetics, 2015, 45, 1108-1121.	9.5	118
126	Algorithms for randomized time-varying knapsack problems. Journal of Combinatorial Optimization, 2016, 31, 95-117.	1.3	27

#	ARTICLE	IF	CITATIONS
127	ACM Transactions on Mathematical Software, 2016, 42, 1-24.	2.9	172
128	A dynamic optimization approach to the design of cooperative co-evolutionary algorithms. Knowledge-Based Systems, 2016, 109, 174-186.	7.1	38
129	Survey on data science with population-based algorithms. Big Data Analytics, 2016, 1, .	2.2	33
130	Towards felicitous decision making: An overview on challenges and trends of Big Data. Information Sciences, 2016, 367-368, 747-765.	6.9	190
131	Multiple parents guided differential evolution for large scale optimization. , 2016, , .		9
132	Memetic algorithm based on self-adaptive differential evolution and improved simplex crossover for large scale global optimization. , 2016, , .		0
133	Multi-hard Problems in Uncertain Environment. , 2016, , .		3
134	Swarm, Evolutionary, and Memetic Computing. Lecture Notes in Computer Science, 2016, , .	1.3	0
135	Cross-generation Elites Guided Particle Swarm Optimization for large scale optimization. , 2016, , .		2
136	Energy Efficiency Maximization for Uplink SCMA System Using CCPSO. , 2016, , .		10
137	Multi-context cooperative coevolution in particle swarm optimization. , 2016, , .		0
138	A Two Phase Approach Based on Dynamic Variable Grouping and Self-Adaptive Group Search for Large Scale Optimization. , 2016, , .		1
139	Mutation operators based on variable grouping for multi-objective large-scale optimization. , 2016, , .		25
140	A preferred learning based adaptive differential evolution algorithm for large scale optimization. , 2016, , .		0
141	Comparison of differential grouping and random grouping methods on sCCPSO for large-scale constrained optimization. , 2016, , .		2
142	Novel optimisation algorithm of electrical machines. , 2016, , .		0
144	A comparative study of STA on large scale global optimization. , 2016, , .		2
145	Contribution based multi-island competitive cooperative coevolution. , 2016, , .		0

#	Article	IF	CITATIONS
146	A random-based dynamic grouping strategy for large scale multi-objective optimization. , 2016, , .		52
147	Big data analytics with swarm intelligence. Industrial Management and Data Systems, 2016, 116, 646-666.	3.7	56
148	Maximum power point tracking of large-scale photovoltaic array. Solar Energy, 2016, 134, 503-514.	6.1	40
149	Metaheuristics for Continuous Optimization of High-Dimensional Problems: State of the Art and Perspectives. Studies in Big Data, 2016, , 437-460.	1.1	5
150	Energy efficient power allocation in cognitive radio network using coevolution chaotic particle swarm optimization. Computer Networks, 2016, 100, 1-11.	5.1	30
151	Hierarchical heterogeneous particle swarm optimization: algorithms and evaluations. International Journal of Parallel, Emergent and Distributed Systems, 2016, 31, 504-516.	1.0	2
152	A parallel cooperative coevolutionary SMPSO algorithm for multi-objective optimization. , 2016, , .		3
153	Spark-Based Parallel Cooperative Co-evolution Particle Swarm Optimization Algorithm. , 2016, , .		13
154	A new algorithm for adapting the configuration of subcomponents in large-scale optimization with cooperative coevolution. Information Sciences, 2016, 372, 773-795.	6.9	34
155	A new multi-function global particle swarm optimization. Applied Soft Computing Journal, 2016, 49, 279-291.	7.2	20
156	Big data: From beginning to future. International Journal of Information Management, 2016, 36, 1231-1247.	17.5	282
157	A survey on network community detection based on evolutionary computation. International Journal of Bio-Inspired Computation, 2016, 8, 84.	0.9	98
158	Chemical Process Optimization Based on Improved Particle Swarm Algorithm. , 2016, , .		0
159	Leap on large-scale nonseparable problems. , 2016, , .		2
160	Multi swarm bare bones particle swarm optimization with distribution adaption. Applied Soft Computing Journal, 2016, 47, 534-552.	7.2	32
161	Investigation on particle swarm optimisation for feature selection on high-dimensional data: local search and selection bias. Connection Science, 2016, 28, 270-294.	3.0	35
162	Enhancing Cooperative Coevolution with Surrogate-Assisted Local Search. Studies in Computational Intelligence, 2016, , 63-90.	0.9	1
163	A splicing-driven memetic algorithm for reconstructing cross-cut shredded text documents. Applied Soft Computing Journal, 2016, 45, 163-172.	7.2	13

#	Article	IF	Citations
164	Modified twin support vector regression. Neurocomputing, 2016, 211, 84-97.	5.9	25
165	Decomposition-Based Algorithms Using Pareto Adaptive Scalarizing Methods. IEEE Transactions on Evolutionary Computation, 2016, 20, 821-837.	10.0	222
166	Optimization on Metamodeling-Supported Iterative Decomposition. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	14
167	A hierarchical-coevolutionary-MapReduce-based knowledge reduction algorithm with robust ensemble Pareto equilibrium. Information Sciences, 2016, 342, 153-175.	6.9	7
168	Bat algorithm optimized fuzzy PD based speed controller for brushless direct current motor. Engineering Science and Technology, an International Journal, 2016, 19, 818-840.	3.2	78
169	United-Based Imperialist Competitive Algorithm for Compensatory Neural Fuzzy Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1180-1189.	9.3	6
171	Kuhn–Munkres Parallel Genetic Algorithm for the Set Cover Problem and Its Application to Large-Scale Wireless Sensor Networks. IEEE Transactions on Evolutionary Computation, 2016, 20, 695-710.	10.0	84
172	Epsilon-Constrained CCPSO with Different Improvement Detection Techniques for Large-Scale Constrained Optimization. , 2016, , .		3
173	Hybrid harmony search particle swarm optimization with global dimension selection. Information Sciences, 2016, 346-347, 318-337.	6.9	38
174	Attribute Equilibrium Dominance Reduction Accelerator (DCCAEDR) Based on Distributed Coevolutionary Cloud and Its Application in Medical Records. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 384-400.	9.3	13
175	An improved imperialist competitive algorithm for multi-objective optimization. Engineering Optimization, 2016, 48, 1823-1844.	2.6	28
176	Cooperative coevolutionary approach for integrated vehicle routing and scheduling using cross-dock buffering. Engineering Applications of Artificial Intelligence, 2016, 52, 40-53.	8.1	30
177	A new Reinforcement Learning-based Memetic Particle Swarm Optimizer. Applied Soft Computing Journal, 2016, 43, 276-297.	7.2	103
178	Improved Particle Swarm Optimization Based on Natural Flocking Behavior. Arabian Journal for Science and Engineering, 2016, 41, 1067-1076.	1.1	6
179	An effective co-evolutionary artificial bee colony algorithm for steelmaking-continuous casting scheduling. European Journal of Operational Research, 2016, 250, 702-714.	5.7	167
180	A decentralized quantum-inspired particle swarm optimization algorithm with cellular structured population. Information Sciences, 2016, 330, 19-48.	6.9	63
181	Opposition-based Magnetic Optimization Algorithm with parameter adaptation strategy. Swarm and Evolutionary Computation, 2016, 26, 97-119.	8.1	8
182	Discrete particle swarm optimization for high-order graph matching. Information Sciences, 2016, 328, 158-171.	6.9	33

ARTICLE IF CITATIONS # A Memetic Algorithm for Global Optimization of Multimodal Nonseparable Problems. IEEE 183 9.5 23 Transactions on Cybernetics, 2016, 46, 1375-1387. A cooperative coevolutionary algorithm for the Multi-Depot Vehicle Routing Problem. Expert Systems 184 With Applications, 2016, 43, 117-130. A Multiobjective Evolutionary Algorithm Based on Decision Variable Analyses for Multiobjective Optimization Problems With Large-Scale Variables. IEEE Transactions on Evolutionary Computation, 185 10.0 319 2016, 20, 275-298. Intelligent control of photovoltaic system using BPSO-GSA-optimized neural network and fuzzy-based 186 PID for maximum power point tracking. Applied Intelligence, 2016, 44, 88-110. Multimodal Estimation of Distribution Algorithms. IEEE Transactions on Cybernetics, 2017, 47, 636-650. 187 9.5 153 Adaptive multi-context cooperatively coevolving particle swarm optimization for large-scale problems. Soft Computing, 2017, 21, 4735-4754. 188 3.6 189 Multilevel framework for large-scale global optimization. Soft Computing, 2017, 21, 4111-4140. 3.6 29 Novel migration operators of biogeography-based optimization and Markov analysis. Soft Computing, 3.6 2017, 21, 6605-6632. Ideology algorithm: a socio-inspired optimization methodology. Neural Computing and Applications, 191 5.6 57 2017, 28, 845-876. Fitness function shaping in multiagent cooperative coevolutionary algorithms. Autonomous Agents 2.1 and Multi-Agent Systems, 2017, 31, 179-206. Prototype filter design for FBMC systems via evolutionary PSO algorithm in highly doubly dispersive 193 7 3.9 channels. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3048. An accurate traffic classification model based on support vector machines. International Journal of 194 2.2 Network Management, 2017, 27, e1962. Particle swarm optimization using multi-level adaptation and purposeful detection operators. 195 6.9 29 Information Sciences, 2017, 385-386, 174-195. Efficient player selection strategy based diversified particle swarm optimization algorithm for global optimization. Information Sciences, 2017, 397-398, 69-90. 6.9 16 A Cooperative Co-Evolutionary Algorithm for Large-Scale Process Planning With Energy Consideration. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, 197 2.2 28 A population-based fast algorithm for a billion-dimensional resource allocation problem with integer 43 variables. European Journal of Operational Research, 2017, 261, 460-474. Adaptive pattern search for large-scale optimization. Applied Intelligence, 2017, 47, 319-330. 199 5.310 A Distributed Parallel Cooperative Coevolutionary Multiobjective Evolutionary Algorithm for 11.3 Large-Scale Optimization. IEEE Transactions on Industrial Informatics, 2017, 13, 2030-2038.

		CITATION REPORT		
#	Article		IF	Citations
201	Vector coevolving particle swarm optimization algorithm. Information Sciences, 2017,	394-395, 273-298.	6.9	53
202	DG2: A Faster and More Accurate Differential Grouping for Large-Scale Black-Box Optin Transactions on Evolutionary Computation, 2017, 21, 929-942.	nization. IEEE	10.0	241
204	A particle swarm optimization approach in printed circuit board thermal design. Integra Computer-Aided Engineering, 2017, 24, 143-155.	ited	4.6	37
205	A modified competitive swarm optimizer for large scale optimization problems. Applied Computing Journal, 2017, 59, 340-362.	Soft	7.2	104
206	Extremely high-dimensional optimization with MapReduce: Scaling functions and algor Information Sciences, 2017, 415-416, 110-127.	ithm.	6.9	21
207	Topological Structure of Large-scale Photovoltaic Array and its MPPT Controlling Metho Procedia, 2017, 105, 113-118.	od. Energy	1.8	5
208	Distributed Parallel Particle Swarm Optimization for Multi-Objective and Many-Objectiv Optimization. IEEE Access, 2017, 5, 8214-8221.	e Large-Scale	4.2	59
209	Decentralizing and coevolving differential evolution for large-scale global optimization Applied Intelligence, 2017, 47, 1208-1223.	problems.	5.3	15
210	A switched parameter differential evolution with optional blending crossover for scalab optimization. Applied Soft Computing Journal, 2017, 57, 329-352.	le numerical	7.2	38
211	Large-scale cooperative co-evolution using niching-based multi-modal optimization and clustering. Swarm and Evolutionary Computation, 2017, 35, 65-77.	adaptive fast	8.1	32
212	Cooperative Hierarchical PSO With Two Stage Variable Interaction Reconstruction for I Optimization. IEEE Transactions on Cybernetics, 2017, 47, 2809-2823.	arge Scale.	9.5	36
213	Large Scale Problems in Practice: The Effect of Dimensionality on the Interaction Amon Lecture Notes in Computer Science, 2017, , 636-652.	g Variables.	1.3	15
214	Optimal beamforming-selection spatial precoding using population-based stochastic op massive wireless MIMO communication systems. Journal of the Franklin Institute, 2017	otimization for ', 354, 4247-4272.	3.4	9
215	Cooperation coevolution with fast interdependency identification for large scale optim Information Sciences, 2017, 381, 142-160.	ization.	6.9	84
216	Efficient Resource Allocation in Cooperative Co-Evolution for Large-Scale Global Optimi Transactions on Evolutionary Computation, 2017, 21, 493-505.	zation. IEEE	10.0	92
217	Mixed second order partial derivatives decomposition method for large scale optimizat Soft Computing Journal, 2017, 61, 1013-1021.	ion. Applied	7.2	11
218	A Cooperative Co-evolutionary Approach for Large Scale Frequency Assignment Problem, 2017, , .	n in TD-SCDMA.		1
219	Large-scale photovoltaic system on green ship and its MPPT controlling. Solar Energy, 2 614-628.	2017, 157,	6.1	44

#	Article	IF	CITATIONS
220	Evolving Spatial Clusters of Genomic Regions From High-Throughput Chromatin Conformation Capture Data. IEEE Transactions on Nanobioscience, 2017, 16, 400-407.	3.3	7
221	A parallel multi-objective cooperative co-evolutionary algorithm with changing variables. , 2017, , .		3
222	Design and intelligent control of building integrated photovoltaic system. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	8
223	Estimating stop conditions of swarm based stochastic metaheuristic algorithms. , 2017, , .		1
224	Gradient subspace approximation: a direct search method for memetic computing. Soft Computing, 2017, 21, 6331-6350.	3.6	20
225	Constructive cooperative coevolution for large-scale global optimisation. Journal of Heuristics, 2017, 23, 449-469.	1.4	9
226	Multi-leader PSO (MLPSO): A new PSO variant for solving global optimization problems. Applied Soft Computing Journal, 2017, 61, 256-263.	7.2	42
227	Configuration of marine photovoltaic system and its MPPT using model predictive control. Solar Energy, 2017, 158, 995-1005.	6.1	39
228	Cellular computational generalized neuron network with cooperative PSO for power systems. , 2017, , \cdot		2
229	A novel quantum-behaved particle swarm optimization with random selection for large scale optimization. , 2017, , .		6
230	Schematic study on interaction and imbalance effects of variables for Large-Scale Optimization. , 2017, , .		2
231	Segment-Based Predominant Learning Swarm Optimizer for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2017, 47, 2896-2910.	9.5	131
232	A Scalable Approach to Capacitated Arc Routing Problems Based on Hierarchical Decomposition. IEEE Transactions on Cybernetics, 2017, 47, 3928-3940.	9.5	43
233	Factored Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2017, 21, 281-293.	10.0	48
234	Test Problems for Large-Scale Multiobjective and Many-Objective Optimization. IEEE Transactions on Cybernetics, 2017, 47, 4108-4121.	9.5	220
235	A Multiobjective Cooperative Coevolutionary Algorithm for Hyperspectral Sparse Unmixing. IEEE Transactions on Evolutionary Computation, 2017, 21, 234-248.	10.0	78
236	Comparison of PSO variants applied to large scale optimization problems. , 2017, , .		4
237	Gene Expression Programming: A Survey [Review Article]. IEEE Computational Intelligence Magazine, 2017, 12, 54-72.	3.2	99

#	Article	IF	CITATIONS
238	A GA-based initialization of PSO for optimal APFS allocation in water desalination plant. , 2017, , .		2
239	A competitive swarm optimizer integrated with Cauchy and Gaussian mutation for large scale optimization. , 2017, , .		4
240	A preliminary study on designing a benchmark problem for analysis of sparsely-synchronized heterogeneous coevolution. , 2017, , .		0
241	Overlapped cooperative co-evolution for large scale optimization. , 2017, , .		5
242	Comparison study of large-scale optimisation techniques on the LSMOP benchmark functions. , 2017, , .		16
243	Parameter Identification with the Random Perturbation Particle Swarm Optimization Method and Sensitivity Analysis of an Advanced Pressurized Water Reactor Nuclear Power Plant Model for Power Systems. Energies, 2017, 10, 173.	3.1	6
244	A quarter century of particle swarm optimization. Complex & Intelligent Systems, 2018, 4, 227-239.	6.5	54
245	Cat swarm optimization with normal mutation for fast convergence of multimodal functions. Applied Soft Computing Journal, 2018, 66, 473-491.	7.2	40
246	CCFS: A cooperating coevolution technique for large scale feature selection on microarray datasets. Computational Biology and Chemistry, 2018, 73, 171-178.	2.3	32
247	An efficient genetic algorithm for large-scale transmit power control of dense and robust wireless networks in harsh industrial environments. Applied Soft Computing Journal, 2018, 65, 243-259.	7.2	10
248	Differential Evolution-Based 3-D Directional Wireless Sensor Network Deployment Optimization. IEEE Internet of Things Journal, 2018, 5, 3594-3605.	8.7	24
249	Adaptive Gradient Multiobjective Particle Swarm Optimization. IEEE Transactions on Cybernetics, 2018, 48, 3067-3079.	9.5	65
250	Distributed parallel cooperative coevolutionary multi-objective large-scale immune algorithm for deployment of wireless sensor networks. Future Generation Computer Systems, 2018, 82, 256-267.	7.5	26
251	Adaptive multi-context cooperatively coevolving in differential evolution. Applied Intelligence, 2018, 48, 2719-2729.	5.3	13
252	Across Neighborhood Search algorithm: A comprehensive analysis. Information Sciences, 2018, 435, 334-381.	6.9	3
253	Pity beetle algorithm $\hat{a} \in \hat{A}$ new metaheuristic inspired by the behavior of bark beetles. Advances in Engineering Software, 2018, 121, 147-166.	3.8	75
254	Hybrid Cooperative Co-Evolution Algorithm for Uncertain Vehicle Scheduling. IEEE Access, 2018, 6, 71732-71742.	4.2	6
255	A two phase hybrid algorithm with a new decomposition method for large scale optimization. Integrated Computer-Aided Engineering, 2018, 25, 349-367.	4.6	23

#	ARTICLE	IF	CITATIONS
256	Set-based discrete particle swarm optimization and its applications: a survey. Frontiers of Computer Science, 2018, 12, 203-216.	2.4	17
257	A Decision Variable Clustering-Based Evolutionary Algorithm for Large-Scale Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 97-112.	10.0	381
258	Localized Weighted Sum Method for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 3-18.	10.0	226
259	Feature selection for high-dimensional classification using a competitive swarm optimizer. Soft Computing, 2018, 22, 811-822.	3.6	257
260	Incremental cooperative coevolution for large-scale global optimization. Soft Computing, 2018, 22, 2045-2064.	3.6	16
261	A filled function method for global optimization with inequality constraints. Computational and Applied Mathematics, 2018, 37, 1524-1536.	1.3	13
262	Turning High-Dimensional Optimization Into Computationally Expensive Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 143-156.	10.0	66
263	Differential evolution with individual-dependent and dynamic parameter adjustment. Soft Computing, 2018, 22, 5747-5773.	3.6	20
264	A Framework for Large-Scale Multiobjective Optimization Based on Problem Transformation. IEEE Transactions on Evolutionary Computation, 2018, 22, 260-275.	10.0	205
265	Environment Sensitivity-Based Cooperative Co-Evolutionary Algorithms for Dynamic Multi-Objective Optimization. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1877-1890.	3.0	67
266	A Comparative Study for Identifying the Chromosome-Wide Spatial Clusters from High-Throughput		
	Chromatin Conformation Capture Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 774-787.	3.0	4
267	Chromatin Conformation Capture Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 774-787. A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. Journal of Parallel and Distributed Computing, 2018, 112, 111-125.	3.0 4.1	4
267 268	Chromatin Conformation Capture Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 774-787. A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. Journal of Parallel and Distributed Computing, 2018, 112, 111-125. An effective invasive weed optimization algorithm for scheduling semiconductor final testing problem. Swarm and Evolutionary Computation, 2018, 38, 42-53.	3.0 4.1 8.1	4 35 60
267 268 269	Chromatin Conformation Capture Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 774-787. A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. Journal of Parallel and Distributed Computing, 2018, 112, 111-125. An effective invasive weed optimization algorithm for scheduling semiconductor final testing problem. Swarm and Evolutionary Computation, 2018, 38, 42-53. Decomposition Algorithms for a Multi-Hard Problem. Evolutionary Computation, 2018, 26, 507-533.	3.0 4.1 8.1 3.0	4 35 60 4
267 268 269 270	Chromatin Conformation Capture Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 774-787. A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. Journal of Parallel and Distributed Computing, 2018, 112, 111-125. An effective invasive weed optimization algorithm for scheduling semiconductor final testing problem. Swarm and Evolutionary Computation, 2018, 38, 42-53. Decomposition Algorithms for a Multi-Hard Problem. Evolutionary Computation, 2018, 26, 507-533. An improved double-population artificial bee colony algorithm based on heterogeneous comprehensive learning. Soft Computing, 2018, 22, 6489-6514.	3.0 4.1 8.1 3.0 3.6	4 35 60 4 4
267 268 269 270 271	Chromatic Coronation Capture Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 774-787. A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. Journal of Parallel and Distributed Computing, 2018, 112, 111-125. An effective invasive weed optimization algorithm for scheduling semiconductor final testing problem. Swarm and Evolutionary Computation, 2018, 38, 42-53. Decomposition Algorithms for a Multi-Hard Problem. Evolutionary Computation, 2018, 26, 507-533. An improved double-population artificial bee colony algorithm based on heterogeneous comprehensive learning. Soft Computing, 2018, 22, 6489-6514. A sophisticated PSO based on multi-level adaptation and purposeful detection. Soft Computing, 2018, 22, 2603-2618.	3.0 4.1 8.1 3.0 3.6 3.6	4 35 60 4 4 8
267 268 269 270 271	Chromatin Conformation Capture Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 774-787. A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. Journal of Parallel and Distributed Computing, 2018, 112, 111-125. An effective invasive weed optimization algorithm for scheduling semiconductor final testing problem. Swarm and Evolutionary Computation, 2018, 38, 42-53. Decomposition Algorithms for a Multi-Hard Problem. Evolutionary Computation, 2018, 26, 507-533. An improved double-population artificial bee colony algorithm based on heterogeneous comprehensive learning. Soft Computing, 2018, 22, 6489-6514. A sophisticated PSO based on multi-level adaptation and purposeful detection. Soft Computing, 2018, 22, 2603-2618. Deployment optimization for 3D industrial wireless sensor networks based on particle swarm optimizers with distributed parallelism. Journal of Network and Computer Applications, 2018, 103, 225-238.	3.0 4.1 8.1 3.0 3.6 3.6 9.1	4 35 60 4 4 8 8

#	Article	IF	CITATIONS
274	A Level-Based Learning Swarm Optimizer for Large-Scale Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 578-594.	10.0	212
275	Prediction of protein essentiality by the improved particle swarm optimization. Soft Computing, 2018, 22, 6657-6669.	3.6	8
276	A novel orthogonal PSO algorithm based on orthogonal diagonalization. Swarm and Evolutionary Computation, 2018, 40, 1-23.	8.1	37
277	Promotion of cooperation based on swarm intelligence in spatial public goods games. Applied Mathematics and Computation, 2018, 320, 614-620.	2.2	18
278	Power consumption minimization by distributive particle swarm optimization for luminance control and its parallel implementations. Expert Systems With Applications, 2018, 96, 479-491.	7.6	18
279	Distributed Differential Evolution Based on Adaptive Mergence and Split for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2018, 48, 2166-2180.	9.5	68
280	Competitive Swarm Optimizer with Dynamic Grouping for Large Scale Optimization. , 2018, , .		7
281	A Gradient Multiobjective Particle Swarm Optimization. , 0, , .		1
282	Combinational Circuits Evolutionary Impact Analysis in Different Initially Chromosome Codes Scales. , 2018, , .		0
283	Evolution Consistency Based Decomposition for Cooperative Coevolution. IEEE Access, 2018, 6, 51084-51097.	4.2	25
284	Applying C-DEEPSO to Solve Large Scale Global Optimization Problems. , 2018, , .		10
285	A novel multi-objective co-evolutionary algorithm based on decomposition approach. Applied Soft Computing Journal, 2018, 73, 50-66.	7.2	13
286	Transfer strategies from single- to multi-objective grouping mechanisms. , 2018, , .		10
287	Multi-Cohort Intelligence algorithm: an intra- and inter-group learning behaviour based socio-inspired optimisation methodology. International Journal of Parallel, Emergent and Distributed Systems, 2018, 33, 675-715.	1.0	19
288	An Algorithm for Combinatorial Double Auctions Based on Cooperative Coevolution of Particle Swarms. Lecture Notes in Computer Science, 2018, , 187-199.	1.3	0
289	Using parallel particle swarm optimization for RFID reader-to-reader anti-collision. , 2018, , .		0
290	Combing Gibbs-sampling with adaptive particle swarm for large scale global optimization. , 2018, , .		0
291	A novel optimal energy-management strategy for a maritime hybrid energy system based on large-scale global optimization. Applied Energy, 2018, 228, 254-264.	10.1	109

#	Article	IF	CITATIONS
292	Improved Differential Evolution for Large-Scale Black-Box Optimization. IEEE Access, 2018, 6, 29516-29531.	4.2	14
293	Double-Group Particle Swarm Optimization and Its Application in Remote Sensing Image Segmentation. Sensors, 2018, 18, 1393.	3.8	17
294	A cooperative co-evolutionary algorithm for large-scale multi-objective optimization problems. , 2018, , .		39
295	A Recursive Decomposition Method for Large Scale Continuous Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 647-661.	10.0	139
296	Abundance estimation of crossover double particle swarms optimization for hyperspectral remote sensing imagery. International Journal of Remote Sensing, 2018, 39, 9134-9158.	2.9	1
297	A review of the recent use of Differential Evolution for Large-Scale Global Optimization: An analysis of selected algorithms on the CEC 2013 LSGO benchmark suite. Swarm and Evolutionary Computation, 2019, 50, 100428.	8.1	26
298	A filled function which has the same local minimizer of the objective function. Optimization Letters, 2019, 13, 761-776.	1.6	7
299	Multimodal Optimization Enhanced Cooperative Coevolution for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2019, 49, 3507-3520.	9.5	34
300	Differential Grouping with Spectral Clustering for Large Scale Global Optimization. , 2019, , .		18
301	A Selective Biogeography-Based Optimizer Considering Resource Allocation for Large-Scale Global Optimization. Computational Intelligence and Neuroscience, 2019, 2019, 1-17.	1.7	7
302	Mitigating Distribution Power Losses of Standalone AC Microgrids Using Particle-Swarm-Optimization Control for Distributed Battery Systems. , 2019, , .		2
303	Niching Particle Swarm Optimizer with Entropy-Based Exploration Strategy for Global Optimization. Lecture Notes in Computer Science, 2019, , 118-127.	1.3	4
304	Individualism of particles in particle swarm optimization. Applied Soft Computing Journal, 2019, 83, 105619.	7.2	6
305	Distributed Contribution-Based Quantum-Behaved Particle Swarm Optimization With Controlled Diversity for Large-Scale Global Optimization Problems. IEEE Access, 2019, 7, 150093-150104.	4.2	12
306	Two-Stage Decomposition Method Based on Cooperation Coevolution for Feature Selection on High-Dimensional Classification. IEEE Access, 2019, 7, 163191-163201.	4.2	3
308	A discrete cooperatively coevolving particle swarm optimization algorithm for combinatorial double auctions. Applied Intelligence, 2019, 49, 3845-3863.	5.3	13
309	A New Hybrid Algorithm for Solving Large Scale Global Optimization Problems. IEEE Access, 2019, 7, 103354-103364.	4.2	13
310	Cooperative Co-evolution with Soft Grouping for Large Scale Global Optimization. , 2019, , .		17

#	Article	IF	CITATIONS
311	Multiobjective Particle Swarm Optimization Algorithm Based on Adaptive Angle Division. IEEE Access, 2019, 7, 87916-87930.	4.2	22
312	Robust beamforming and spatial precoding for quasi-OSTBC massive MIMO communications. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	2
313	When Cooperative Co-Evolution Meets Coordinate Descent: Theoretically Deeper Understandings and Practically Better Implementations. , 2019, , .		4
314	Adaptive multifactorial particle swarm optimisation. CAAI Transactions on Intelligence Technology, 2019, 4, 37-46.	8.1	34
315	Dynamic Cooperative Coevolution for Large Scale Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 935-948.	10.0	38
316	Accelerating Large-Scale Multiobjective Optimization via Problem Reformulation. IEEE Transactions on Evolutionary Computation, 2019, 23, 949-961.	10.0	181
317	Controlled showering optimization algorithm: an intelligent tool for decision making in global optimization. Computational and Mathematical Organization Theory, 2019, 25, 132-164.	2.0	8
318	A Hybrid Cooperative Coevolution Algorithm for Fuzzy Flexible Job Shop Scheduling. IEEE Transactions on Fuzzy Systems, 2019, 27, 1008-1022.	9.8	70
319	Adaptive MF tuned fuzzy logic speed controller for BLDC motor drive using ANN and PSO technique. Journal of Engineering, 2019, 2019, 3947-3950.	1.1	22
320	Omni-Channel Product Distribution Network Design by Using the Improved Particle Swarm Optimization Algorithm. Discrete Dynamics in Nature and Society, 2019, 2019, 1-15.	0.9	4
321	An Adaptive Multi-Swarm Competition Particle Swarm Optimizer for Large-Scale Optimization. Mathematics, 2019, 7, 521.	2.2	13
322	Ranking-based biased learning swarm optimizer for large-scale optimization. Information Sciences, 2019, 493, 120-137.	6.9	45
323	A Novel Cooperative Path Planning for Multi-robot Persistent Coverage with Obstacles and Coverage Period Constraints. Sensors, 2019, 19, 1994.	3.8	21
324	Cooperative differential evolution framework with utility-based adaptive grouping for large-scale optimization. Advances in Mechanical Engineering, 2019, 11, 168781401983416.	1.6	2
325	Shared Nearest-Neighbor Quantum Game-Based Attribute Reduction With Hierarchical Coevolutionary Spark and Its Application in Consistent Segmentation of Neonatal Cerebral Cortical Surfaces. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2013-2027.	11.3	39
326	Collaborative quantum optimization network intrusion detection research. Journal of Computational Methods in Sciences and Engineering, 2019, 19, 169-178.	0.2	0
327	A Hierarchical Sorting Swarm Optimizer for Large-Scale Optimization. IEEE Access, 2019, 7, 40625-40635.	4.2	18
328	Hybrid Genetic Grey Wolf Algorithm for Large-Scale Global Optimization. Complexity, 2019, 2019, 1-18.	1.6	30

ARTICLE IF CITATIONS Swarm intelligence inspired cooperation promotion and symmetry breaking in interdependent 329 2.5 18 networked game. Chaos, 2019, 29, 043101. Multiobjective Evolutionary Optimization Based on Fuzzy Multicriteria Evaluation and Decomposition 9.8 for Image Matting. IEEE Transactions on Fuzzy Systems, 2019, 27, 1100-1111. A novel particle swarms with mixed cooperative co-evolution for large scale global optimisation. 331 0.3 1 International Journal of Intelligent Information and Database Systems, 2019, 12, 121. Accurate Parameter Estimation of a Hydro-Turbine Regulation System Using Adaptive Fuzzy Particle 3.1 Swarm Optimization. Energies, 2019, 12, 3903. Large-scale Global Optimization based on ABC Algorithm with Gbest-guided Strategy and 333 0 Opposite-based Learning Technique., 2019,,. ACTGAN: Automatic Configuration Tuning for Software Systems with Generative Adversarial 334 Networks., 2019, , . 335 Cooperative hybrid EA for large-scale flexible job shop scheduling., 2019,,. 1 Large-scale Partially Separable Function optimization Using Cooperative Coevolution and Competition 336 Strategies., 2019, , . 337 Mother Tree Optimization., 2019, , . 4 Boosting Cooperative Coevolution for Large Scale Optimization With a Fine-Grained Computation Resource Allocation Strategy. IEEE Transactions on Cybernetics, 2019, 49, 4180-4193. Cellular learning automata based bare bones PSO with maximum likelihood rotated mutations. Swarm 339 8.1 16 and Evolutionary Computation, 2019, 44, 680-694. A Survey on Cooperative Co-Evolutionary Algorithms. IEEE Transactions on Evolutionary 340 10.0 Computation, 2019, 23, 421-441. Variable-Length Particle Swarm Optimization for Feature Selection on High-Dimensional 341 10.0 177 Classification. IEEE Transactions on Evolutionary Computation, 2019, 23, 473-487. A derivative-free optimization-based approach for detecting architectural symmetries from 3D point 342 11.1 clouds. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 148, 32-40. Path Planning for Autonomous Underwater Vehicles: An Ant Colony Algorithm Incorporating Alarm 343 6.3 119 Pheromone. IEEE Transactions on Vehicular Technology, 2019, 68, 141-154. Particle swarm optimization based on dimensional learning strategy. Swarm and Evolutionary 344 8.1 Computation, 2019, 45, 33-51. Surrogate model assisted cooperative coevolution for large scale optimization. Applied Intelligence, 345 5.324 2019, 49, 513-531. HyperSPAM: A study on hyper-heuristic coordination strategies in the continuous domain. 346 44 Information Sciences, 2019, 477, 186-202.

#	Article	IF	CITATIONS
347	Novel mutation strategy for enhancing SHADE and LSHADE algorithms for global numerical optimization. Swarm and Evolutionary Computation, 2019, 50, 100455.	8.1	167
348	Solving Incremental Optimization Problems via Cooperative Coevolution. IEEE Transactions on Evolutionary Computation, 2019, 23, 762-775.	10.0	11
349	Solving high-dimensional global optimization problems using an improved sine cosine algorithm. Expert Systems With Applications, 2019, 123, 108-126.	7.6	134
350	Large scale flexible scheduling optimization by a distributed evolutionary algorithm. Computers and Industrial Engineering, 2019, 128, 894-904.	6.3	31
351	A solution methodology for carpooling systems based on double auctions and cooperative coevolutionary particle swarms. Applied Intelligence, 2019, 49, 741-763.	5.3	36
352	Adaptive guided differential evolution algorithm with novel mutation for numerical optimization. International Journal of Machine Learning and Cybernetics, 2019, 10, 253-277.	3.6	177
353	Differential evolution with Gaussian mutation and dynamic parameter adjustment. Soft Computing, 2019, 23, 1615-1642.	3.6	53
354	Particle swarm optimization with convergence speed controller for large-scale numerical optimization. Soft Computing, 2019, 23, 4421-4437.	3.6	29
355	Distributed Cooperative Co-Evolution With Adaptive Computing Resource Allocation for Large Scale Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 188-202.	10.0	75
356	A collaboration-based particle swarm optimizer for global optimization problems. International Journal of Machine Learning and Cybernetics, 2019, 10, 1279-1300.	3.6	3
357	Performance overview of an artificial intelligence in biomedics: a systematic approach. International Journal of Information Technology (Singapore), 2020, 12, 963-973.	2.7	12
358	Multi-level Competitive Swarm Optimizer for Large Scale Optimization. Advances in Intelligent Systems and Computing, 2020, , 185-197.	0.6	3
359	Network-Based Heterogeneous Particle Swarm Optimization and Its Application in UAV Communication Coverage. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 312-323.	4.9	38
360	A survey of symbiotic organisms search algorithms and applications. Neural Computing and Applications, 2020, 32, 547-566.	5.6	27
361	An efficient and robust grey wolf optimizer algorithm for large-scale numerical optimization. Soft Computing, 2020, 24, 997-1026.	3.6	37
362	A Distributed Swarm Optimizer With Adaptive Communication for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2020, 50, 3393-3408.	9.5	72
363	Efficient Large-Scale Multiobjective Optimization Based on a Competitive Swarm Optimizer. IEEE Transactions on Cybernetics, 2020, 50, 3696-3708.	9.5	195
364	Scaling Up Dynamic Optimization Problems: A Divide-and-Conquer Approach. IEEE Transactions on Evolutionary Computation, 2020, 24, 1-15.	10.0	48

ARTICLE IF CITATIONS Learningâ€"interactionâ€"diversification framework for swarm intelligence optimizers: a unified 365 5.6 26 perspective. Neural Computing and Applications, 2020, 32, 1789-1809. Multiple Relevant Feature Ensemble Selection Based on Multilayer Co-Evolutionary Consensus 39 MapReduce. IEEE Transactions on Cybernetics, 2020, 50, 425-439. Random Regrouping and Factorization in Cooperative Particle Swarm Optimization Based Large-Scale 367 3.2 2 Neural Network Training. Neural Processing Letters, 2020, 51, 759-796. Dynamic Group Learning Distributed Particle Swarm Optimization for Large-Scale Optimization and Its 368 159 Application in Cloud Workflow Scheduling. IEEE Transactions on Cybernetics, 2020, 50, 2715-2729. CCFR2: A more efficient cooperative co-evolutionary framework for large-scale global optimization. 369 6.9 35 Information Sciences, 2020, 512, 64-79. A Cooperative Coevolution Hyper-Heuristic Framework for Workflow Scheduling Problem. IEEE Transactions on Services Computing, 2022, 15, 150-163. 4.6 Senti-NSetPSO: large-sized document-level sentiment analysis using Neutrosophic Set and particle 371 3.6 19 swarm optimization. Soft Computing, 2020, 24, 3-15. Effective algorithm for two-dimensional frictional system involving arbitrary impacting boundaries. 6.7 International Journal of Mechanical Sciences, 2020, 167, 105232. Large-scale evolutionary optimization: a survey and experimental comparative study. International 373 3.6 54 Journal of Machine Learning and Cybernetics, 2020, 11, 729-745. Security-Aware Industrial Wireless Sensor Network Deployment Optimization. IEEE Transactions on 374 11.3 139 Industrial Informatics, 2020, 16, 5309-5316. Applying graph-based differential grouping for multiobjective large-scale optimization. Swarm and 375 137 8.1 Evolutionary Computation, 2020, 53, 100626. Paradoxes in Numerical Comparison of Optimization Algorithms. IEEE Transactions on Evolutionary Computation, 2020, 24, 777-791. Smart Computing Paradigms: New Progresses and Challenges. Advances in Intelligent Systems and 377 0.6 0 Computing, 2020, , . TSO and DSO with largeâ€scale distributed energy resources: A security constrained unit commitment coordinated solution. International Transactions on Electrical Energy Systems, 2020, 30, e12233. 378 379 User capacity for uplink SCMA system. Physical Communication, 2020, 39, 100979. 2.1 3 An evolutionary approach to black-box optimization on matrix manifolds. Applied Soft Computing Journal, 2020, 97, 106773. 380 Modelling Multi-Exit Large-Venue Pedestrian Evacuation With Dual-Strategy Adaptive Particle Swarm 381 4.2 8 Optimization. IEEE Access, 2020, 8, 114554-114569. A parallel multi-objective swarm intelligence framework for Big Data analysis. International Journal of Computer Applications in Technology, 2020, 63, 200.

#	Article	IF	CITATIONS
383	On the Cooperation Between Evolutionary Algorithms and Constraint Handling Techniques: A Further Empirical Study. IEEE Access, 2020, 8, 130598-130606.	4.2	3
384	Optimal operation of hybrid energy system for intelligent ship: An ultrahigh-dimensional model and control method. Energy, 2020, 211, 119077.	8.8	23
385	Multi-Cluster Jumping Particle Swarm Optimization for Fast Convergence. IEEE Access, 2020, 8, 189382-189394.	4.2	17
386	Automated Optimal Motion Sequence of a 9-Bar Linkage. Frontiers in Built Environment, 2020, 6, .	2.3	1
387	Adaptive Population Differential Evolution with Dual Control Strategy for Large-Scale Global optimization Problems. , 2020, , .		3
388	Contribution Based Co-Evolutionary Algorithm for Large-Scale Optimization Problems. IEEE Access, 2020, 8, 203369-203381.	4.2	9
389	Optimization Search Using Hypercubes. , 2020, , .		1
390	PSO-ACSC: a large-scale evolutionary algorithm for image matting. Frontiers of Computer Science, 2020, 14, 1.	2.4	6
391	Optimization of Lennard-Jones clusters by particle swarm optimization with quasi-physical strategy. Swarm and Evolutionary Computation, 2020, 57, 100710.	8.1	7
392	A modified surrogate-assisted multi-swarm artificial bee colony for complex numerical optimization problems. Microprocessors and Microsystems, 2020, 76, 103050.	2.8	8
393	Bi-Hierarchical Cooperative Coevolution for Large Scale Global Optimization. IEEE Access, 2020, 8, 41913-41928.	4.2	11
394	A random dynamic grouping based weight optimization framework for large-scale multi-objective optimization problems. Swarm and Evolutionary Computation, 2020, 55, 100684.	8.1	51
395	Evolutionary Divide-and-Conquer Algorithm for Virus Spreading Control Over Networks. IEEE Transactions on Cybernetics, 2021, 51, 3752-3766.	9.5	18
396	A Two-Phase Learning-Based Swarm Optimizer for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2021, 51, 6284-6293.	9.5	47
397	Competitive swarm optimizer with mutated agents for finding optimal designs for nonlinear regression models with multiple interacting factors. Memetic Computing, 2020, 12, 219-233.	4.0	11
398	A Survey of Swarm Intelligence Techniques in VLSI Routing Problems. IEEE Access, 2020, 8, 26266-26292.	4.2	22
399	A binary water wave optimization for feature selection. International Journal of Approximate Reasoning, 2020, 120, 74-91.	3.3	32
400	Variable-Size Cooperative Coevolutionary Particle Swarm Optimization for Feature Selection on High-Dimensional Data. IEEE Transactions on Evolutionary Computation, 2020, 24, 882-895.	10.0	207

#	Article	IF	CITATIONS
401	Large-scale optimisation via cooperatively coevolving competition swarm optimiser. Enterprise Information Systems, 2020, 14, 1439-1456.	4.7	7
402	A Novel Cooperative Path Planning for Multirobot Persistent Coverage in Complex Environments. IEEE Sensors Journal, 2020, 20, 4485-4495.	4.7	19
403	Evolving Transcriptomic Profiles from Single-cell RNA-seq Data using Nature-Inspired Multiobjective Optimization. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, 18, 1-1.	3.0	1
404	A Hybrid Deep Grouping Algorithm for Large Scale Global Optimization. IEEE Transactions on Evolutionary Computation, 2020, 24, 1112-1124.	10.0	42
405	Adaptive Granularity Learning Distributed Particle Swarm Optimization for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2021, 51, 1175-1188.	9.5	122
406	An adaptive particle swarm optimizer with decoupled exploration and exploitation for large scale optimization. Swarm and Evolutionary Computation, 2021, 60, 100789.	8.1	57
407	Cooperative hybrid evolutionary algorithm for large scale multi-stage multi-product batch plants scheduling problem. Neurocomputing, 2021, 419, 80-96.	5.9	6
408	Large-scale many-objective particle swarm optimizer with fast convergence based on Alpha-stable mutation and Logistic function. Applied Soft Computing Journal, 2021, 99, 106947.	7.2	22
409	Multiobjective evolutionary algorithm assisted stacked autoencoder for PolSAR image classification. Swarm and Evolutionary Computation, 2021, 60, 100794.	8.1	22
410	An eigenspace divide-and-conquer approach for large-scale optimization. Applied Soft Computing Journal, 2021, 99, 106911.	7.2	7
411	Differential evolution algorithm with multi-population cooperation and multi-strategy integration. Neurocomputing, 2021, 421, 285-302.	5.9	38
412	Cooperative coevolution for large-scale global optimization based on fuzzy decomposition. Soft Computing, 2021, 25, 3593-3608.	3.6	16
413	A Bayesian-Grouping Based Hybrid Distributed Cooperative Evolutionary Optimization for Large-Scale Flexible Job-Shop Scheduling Problem. IEEE Access, 2021, 9, 69114-69126.	4.2	5
414	An Adaptive Stochastic Dominant Learning Swarm Optimizer for High-Dimensional Optimization. IEEE Transactions on Cybernetics, 2022, 52, 1960-1976.	9.5	46
415	Enhancing the competitive swarm optimizer with covariance matrix adaptation for large scale optimization. Applied Intelligence, 2021, 51, 4984-5006.	5.3	12
416	An Adaptive Localized Decision Variable Analysis Approach to Large-Scale Multiobjective and Many-Objective Optimization. IEEE Transactions on Cybernetics, 2022, 52, 6684-6696.	9.5	155
417	An Efficient Competitive Swarm Optimizer for Solving Large-Scale Multi-objective Optimization Problems. Lecture Notes in Computer Science, 2021, , 72-85.	1.3	0
418	Towards Multi-objective Co-evolutionary Problem Solving. Lecture Notes in Computer Science, 2021, , 139-151.	1.3	0

#	Article	IF	CITATIONS
419	A Comprehensive Review of Coverage Path Planning in Robotics Using Classical and Heuristic Algorithms. IEEE Access, 2021, 9, 119310-119342.	4.2	69
420	Evolutionary Transfer Optimization - A New Frontier in Evolutionary Computation Research. IEEE Computational Intelligence Magazine, 2021, 16, 22-33.	3.2	115
421	RFID Reader Anticollision Based on Distributed Parallel Particle Swarm Optimization. IEEE Internet of Things Journal, 2021, 8, 3099-3107.	8.7	95
422	Investigation of Improved Cooperative Coevolution for Large-Scale Global Optimization Problems. Algorithms, 2021, 14, 146.	2.1	10
423	MMES: Mixture Model-Based Evolution Strategy for Large-Scale Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 320-333.	10.0	9
424	Auto-sharing parameters for transfer learning based on multi-objective optimization. Integrated Computer-Aided Engineering, 2021, 28, 295-307.	4.6	10
425	Multiobjective meter placement in active distribution system state estimation using inverseâ€model â€based multilabel Gaussian classification with adaptive reference point method. International Transactions on Electrical Energy Systems, 2021, 31, e12935.	1.9	0
426	A Modified APSODEE for Large Scale Optimization. , 2021, , .		1
427	Quantum differential evolution with cooperative coevolution framework and hybrid mutation strategy for large scale optimization. Knowledge-Based Systems, 2021, 224, 107080.	7.1	151
428	Chunking and cooperation in particle swarm optimization for feature selection. Annals of Mathematics and Artificial Intelligence, 2022, 90, 893-913.	1.3	7
429	An empirical study of cooperative frequency in distributed cooperative co-evolution. , 2021, , .		0
430	A survey on evolutionary computation for complex continuous optimization. Artificial Intelligence Review, 2022, 55, 59-110.	15.7	143
431	A Novel Three-Dimensional Path Planning Method for Fixed-Wing UAV Using Improved Particle Swarm Optimization Algorithm. International Journal of Aerospace Engineering, 2021, 2021, 1-19.	0.9	12
432	Ultrahigh-Dimensional Model and Optimization Algorithm for Resource Allocation in Large-Scale Intelligent D2D Communication System. Complexity, 2021, 2021, 1-10.	1.6	2
433	Multi-objective multi-mode resource-constrained project scheduling with fuzzy activity durations in prefabricated building construction. Computers and Industrial Engineering, 2021, 158, 107316.	6.3	31
434	Region Encoding Helps Evolutionary Computation Evolve Faster: A New Solution Encoding Scheme in Particle Swarm for Large-Scale Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 779-793.	10.0	62
435	Treasure Hunt Framework: Distributing Metaheuristics on High Performance Computing Systems. Swarm and Evolutionary Computation, 2021, 65, 100906.	8.1	1
436	A Dual-Population-Based Evolutionary Algorithm for Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 739-753.	10.0	75

#	Article	IF	CITATIONS
437	Wild Geese Algorithm: A novel algorithm for large scale optimization based on the natural life and death of wild geese. Array, 2021, 11, 100074.	4.0	23
438	Constraint-Objective Cooperative Coevolution for Large-scale Constrained Optimization. ACM Transactions on Evolutionary Learning, 2021, 1, 1-26.	3.5	8
439	Cooperatively coevolving simulated annealing for optimization design of the concentrated-force diffusion component. Thin-Walled Structures, 2021, 167, 108206.	5.3	1
440	PSO-X: A Component-Based Framework for the Automatic Design of Particle Swarm Optimization Algorithms. IEEE Transactions on Evolutionary Computation, 2022, 26, 402-416.	10.0	23
441	An Adaptive Mechanism With Cooperative Coevolution and Covariance for Differential Evolution. IEEE Access, 2021, 9, 99890-99904.	4.2	2
442	Mathematical Optimization by Using Particle Swarm Optimization, Genetic Algorithm, and Differential Evolution and Its Similarities. , 2021, , 1-34.		0
443	A Hybrid Framework Based on PSO and Neutrosophic Set for Document Level Sentiment Analysis. Studies in Computational Intelligence, 2020, , 372-379.	0.9	1
444	A Local Search with a Surrogate Assisted Option for Instance Reduction. Lecture Notes in Computer Science, 2020, , 578-594.	1.3	1
445	Adaptation in Cooperative Coevolutionary Optimization. Adaptation, Learning, and Optimization, 2015, , 91-109.	0.6	14
446	Soft Island Model for Population-Based Optimization Algorithms. Lecture Notes in Computer Science, 2018, , 68-77.	1.3	3
447	Unpacking and Understanding Evolutionary Algorithms. Lecture Notes in Computer Science, 2012, , 60-76.	1.3	7
448	A Learning-to-Rank Algorithm for Constructing Defect Prediction Models. Lecture Notes in Computer Science, 2012, , 167-175.	1.3	9
449	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. Lecture Notes in Computer Science, 2014, , 615-626.	1.3	13
450	Parallel Coevolution of Quantum-Behaved Particle Swarm Optimization for High-Dimensional Problems. Communications in Computer and Information Science, 2016, , 367-376.	0.5	1
451	A clustering and dimensionality reduction based evolutionary algorithm for large-scale multi-objective problems. Applied Soft Computing Journal, 2020, 89, 106120.	7.2	55
452	A Niche Particle Swarm Optimization-Perks and Perspectives. , 2020, , .		4
453	Contribution-Based Cooperative Co-Evolution for Nonseparable Large-Scale Problems With Overlapping Subcomponents. IEEE Transactions on Cybernetics, 2022, 52, 4246-4259.	9.5	15
454	A memetic level-based learning swarm optimizer for large-scale water distribution network optimization. , 2020, , .		6

#	Article	IF	CITATIONS
455	Multi-objective AGV scheduling in an FMS using a hybrid of genetic algorithm and particle swarm optimization. PLoS ONE, 2017, 12, e0169817.	2.5	90
456	A Cooperative Coevolutionary Stock Trading Model Using Genetic Network Programming-Sarsa. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2012, 16, 581-590.	0.9	3
457	Recent Advances in Particle Swarm Optimization for Large Scale Problems. Journal of Autonomous Intelligence, 2018, 1, 22.	0.2	2
458	The SOS Platform: Designing, Tuning and Statistically Benchmarking Optimisation Algorithms. Mathematics, 2020, 8, 785.	2.2	17
459	Pseudo-collision in swarm optimization algorithm and solution:rain forest algorithm. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 190202.	0.5	6
460	SPMS-ALS: A Single-Point Memetic structure with accelerated local search for instance reduction. Swarm and Evolutionary Computation, 2022, 69, 100991.	8.1	5
461	Cooperative coevolutionary instance selection for multilabel problems. Knowledge-Based Systems, 2021, 234, 107569.	7.1	5
462	Cooperative Particle Swarm Optimization-Based Predictive Controller for Multi-robot Formation. Advances in Intelligent Systems and Computing, 2013, , 533-541.	0.6	3
463	Particle Swarm Optimization Algorithm based on Differential Mutation and Thermodynamic Selection. International Journal of Advancements in Computing Technology, 2013, 5, 264-272.	0.1	0
464	Dual-system Cooperative Coevolutionary Differential Evolution Algorithm for Solving Nonseparable Function Optimization. Information Technology Journal, 2013, 12, 1796-1803.	0.3	1
465	Cooperative Particle Swarm Optimization-based Model Predictive Control for Multi-Robot Formation. Journal of Institute of Control, Robotics and Systems, 2013, 19, 429-434.	0.2	3
467	A Survey Paper on Particle Swarm Optimization based Routing Protocols in Mobile Ad-Hoc Networks. International Journal of Computer Applications, 2015, 119, 1-5.	0.2	1
468	Decision Variable Analysis Based on Distributed Computing. Communications in Computer and Information Science, 2016, , 447-455.	0.5	0
469	Research Hotspots and Trends in Swarm Intelligence: From 2000 to 2015. Lecture Notes in Computer Science, 2016, , 24-35.	1.3	0
471	Comparison of Differential Evolution Algorithms on the Mapping Between Problems and Penalty Parameters. Lecture Notes in Computer Science, 2017, , 420-428.	1.3	1
472	Mathematical Optimization by Using Particle Swarm Optimization, Genetic Algorithm, and Differential Evolution and Its Similarities. Advances in Computational Intelligence and Robotics Book Series, 2017, , 325-358.	0.4	0
473	Convergence of Factored Evolutionary Algorithms. , 2017, , .		2
474	A Self-adaptive Artificial Bee Colony Algorithm with Incremental Population Size for Large Scale Optimization. Advances in Intelligent Systems and Computing, 2017. , 111-123.	0.6	2

#	Article	IF	CITATIONS
475	Gbest-Guided Covariance Matrix Adaptation Evolution Strategy for Large Scale Global Optimization. Lecture Notes in Computer Science, 2017, , 3-13.	1.3	0
476	Large Scale WSN Deployment BasedÂonÂanÂImproved Cooperative Co-evolution PSO with Global Differential Grouping. Lecture Notes in Computer Science, 2017, , 833-842.	1.3	0
477	Optimizing Hierarchical Power Distribution of Multiple Local Energy Network Systems in Grid-Connected Mode. Polish Journal of Environmental Studies, 2017, 26, 1981-2000.	1.2	3
478	Multi-objective Cooperative Coevolutionary Algorithm with Dynamic Species-Size Strategy. Lecture Notes in Computer Science, 2018, , 3-17.	1.3	2
479	On the Cooperation Between Evolutionary Algorithms and Constraint Handling Techniques. Lecture Notes in Computer Science, 2018, , 42-50.	1.3	1
480	ITÖ Algorithm with Cooperative Coevolution for Large Scale Global Optimization. Communications in Computer and Information Science, 2018, , 40-51.	0.5	1
481	Novel Competitive Swarm Optimizer for Sampling-Based Image Matting Problem. Advances in Intelligent Systems and Computing, 2020, , 109-120.	0.6	1
483	The ternary logic for aerial objects groups detecting on base of undefined attributes. , 2020, , .		0
484	Multi-objective Particle Swarm Optimization Guided by Global Diversity and Cross-generation Competition. , 2020, , .		0
485	A novel encoding for separable large-scale multi-objective problems and its application to the optimisation of housing stock improvements. Applied Soft Computing Journal, 2020, 96, 106650.	7.2	8
486	A Novel Dual-Stage Dual-Population Evolutionary Algorithm for Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 1129-1143.	10.0	24
487	A Comprehensive Competitive Swarm Optimizer for Large-Scale Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5829-5842.	9.3	19
488	An Adaptive Level-Based Learning Swarm Optimizer for Large-Scale Optimization. , 2021, , .		5
489	Merged Differential Grouping for Large-Scale Global Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 1439-1451.	10.0	13
490	A Novel UAV Path Planning Algorithm Based on Double-Dynamic Biogeography-Based Learning Particle Swarm Optimization. Mobile Information Systems, 2022, 2022, 1-23.	0.6	7
491	2B ve 3B Yorumlama Teknikleriyle Tuz Gölü'nün Güneybatısında Toplanmış Gravite Verilerinin İncelenmesi. Deu Muhendislik Fakultesi Fen Ve Muhendislik, 2022, 24, 233-245.	0.2	0
492	A novel coevolving differential evolution and its application in intelligent device-to-device communication systems. Journal of Intelligent and Fuzzy Systems, 2022, 42, 1607-1621.	1.4	1
493	A particle swarm optimizer with multi-level population sampling and dynamic p-learning mechanisms for large-scale optimization. Knowledge-Based Systems, 2022, 242, 108382.	7.1	16

#	Article	IF	CITATIONS
494	An Efficient Surrogate Assisted Particle Swarm Optimization for Antenna Synthesis. IEEE Transactions on Antennas and Propagation, 2022, 70, 4977-4984.	5.1	13
495	Multispace Evolutionary Search for Large-Scale Optimization With Applications to Recommender Systems. IEEE Transactions on Artificial Intelligence, 2023, 4, 107-120.	4.7	9
496	Spread-based elite opposite swarm optimizer for large scale optimization. Cognitive Robotics, 2022, 2, 112-118.	5.4	0
497	Multi-objective particle swarm optimization with guided exploration for multimodal problems. Applied Soft Computing Journal, 2022, 120, 108684.	7.2	14
498	İki Boyutlu Radyo-Manyetotelürik Verilerin Doğrusal Olmayan Yüzdelik Süzgeç ile Parçacık Sürü Optimizasyonu Kullanılarak Modellenmesi. Yerbilimleri/ Earth Sciences, 0, , .	4sÃ1/4 0.2	0
499	Dynamic Model and Intelligent Maximum Power Point Tracking Approach for Largeâ€5cale Buildingâ€Integrated Photovoltaic System. Energy Technology, 2022, 10, .	3.8	2
500	Elite Directed Particle Swarm Optimization with Historical Information for High-Dimensional Problems. Mathematics, 2022, 10, 1384.	2.2	14
501	A survey on nature-inspired techniques for computation offloading and service placement in emerging edge technologies. World Wide Web, 2022, 25, 2049-2107.	4.0	8
504	Competitive Decomposition-Based Multiobjective Architecture Search for the Dendritic Neural Model. IEEE Transactions on Cybernetics, 2023, 53, 6829-6842.	9.5	4
505	Objective Space-Based Population Generation to Accelerate Evolutionary Algorithms for Large-Scale Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 326-340.	10.0	33
506	An Efficient Adaptive Differential Grouping Algorithm for Large-Scale Black-Box Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 475-489.	10.0	7
507	Evolutionary Large-Scale Dynamic Optimization Using Bilevel Variable Grouping. IEEE Transactions on Cybernetics, 2023, 53, 6937-6950.	9.5	2
508	A selfâ€organizing weighted optimization based framework for largeâ€scale multiâ€objective optimization. Swarm and Evolutionary Computation, 2022, 72, 101084.	8.1	6
509	A reinforcement learning level-based particle swarm optimization algorithm for large-scale optimization. Information Sciences, 2022, 602, 298-312.	6.9	82
510	CCFR3: A cooperative co-evolution with efficient resource allocation for large-scale global optimization. Expert Systems With Applications, 2022, 203, 117397.	7.6	2
511	Cumulative learning-based competitive swarm optimizer for large-scale optimization. Journal of Supercomputing, 2022, 78, 17619-17656.	3.6	0
512	Software module clustering using grid-based large-scale many-objective particle swarm optimization. Soft Computing, 0, , .	3.6	1
513	Gene Targeting Differential Evolution: A Simple and Efficient Method for Large-Scale Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 964-979.	10.0	14

#	Article	IF	CITATIONS
514	Intelligent Scheduling Methodology for UAV Swarm Remote Sensing in Distributed Photovoltaic Array Maintenance. Sensors, 2022, 22, 4467.	3.8	3
515	Optimal operation for marine hybrid power system: Novel optimization algorithm and comprehensive analysis for penalty functions. Journal of Intelligent and Fuzzy Systems, 2022, , 1-23.	1.4	Ο
517	A Multi-Strategy Adaptive Comprehensive Learning PSO Algorithm and Its Application. Entropy, 2022, 24, 890.	2.2	2
518	Dynamic evaluation of decomposition methods for large-scale optimization problems using an island model. , 2022, , .		0
519	A cooperative PSO algorithm for Volt-VAR optimization in smart distribution grids. Electric Power Systems Research, 2022, 212, 108618.	3.6	10
520	Difficulty and Contribution-Based Cooperative Coevolution for Large-Scale Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 1355-1369.	10.0	4
521	A supercomputing method for large-scale optimization: a feedback biogeography-based optimization with steepest descent method. Journal of Supercomputing, 2023, 79, 1318-1373.	3.6	1
522	A convergence and diversity guided leader selection strategy for many-objective particle swarm optimization. Engineering Applications of Artificial Intelligence, 2022, 115, 105249.	8.1	3
523	Collaborative optimization by shared objective function data. Array, 2022, 16, 100249.	4.0	1
524	Comparing SSALEO as a Scalable Large Scale Global Optimization Algorithm to High-Performance Algorithms for Real-World Constrained Optimization Benchmark. IEEE Access, 2022, 10, 95658-95700.	4.2	7
525	FaceTopoNet: Facial Expression Recognition Using Face Topology Learning. IEEE Transactions on Artificial Intelligence, 2023, 4, 1526-1539.	4.7	1
526	A swarm optimizer with attention-based particle sampling and learning for large scale optimization. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 9329-9341.	4.9	2
527	Recursive grouping and dynamic resource allocation method for large-scale multi-objective optimization problem. Applied Soft Computing Journal, 2022, 130, 109651.	7.2	4
528	Decomposition andÂMerging Co-operative Particle Swarm Optimization withÂRandom Grouping. Lecture Notes in Computer Science, 2022, , 117-129.	1.3	1
529	Self-powered acceleration sensors arrayed by swarm intelligence for table tennis umpiring system. PLoS ONE, 2022, 17, e0272632.	2.5	1
530	Parameter identification for lithium batteries: Model variable-coupling analysis and a novel cooperatively coevolving identification algorithm. Energy, 2023, 263, 125762.	8.8	4
531	A Decomposition Method for Both Additively and Nonadditively Separable Problems. IEEE Transactions on Evolutionary Computation, 2023, 27, 1720-1734.	10.0	3
532	Graph-Based Deep Decomposition for Overlapping Large-Scale Optimization Problems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 2374-2386.	9.3	4

#	Article	IF	CITATIONS
533	Co-evolutionary competitive swarm optimizer with three-phase for large-scale complex optimization problem. Information Sciences, 2023, 619, 2-18.	6.9	84
534	A sinusoidal social learning swarm optimizer for large-scale optimization. Knowledge-Based Systems, 2023, 259, 110090.	7.1	4
535	A Distributed Cooperative Co-Evolutionary Algorithm Based on Ring Network for Distributed Large-Scale Optimization. , 2022, , .		2
536	On Improving Adaptive Problem Decomposition Using Differential Evolution for Large-Scale Optimization Problems. Mathematics, 2022, 10, 4297.	2.2	5
537	A Hybrid Learning Particle Swarm Optimization With Fuzzy Logic for Sentiment Classification Problems. International Journal of Cognitive Informatics and Natural Intelligence, 2022, 16, 1-23.	0.4	1
538	Joint Resource Scheduling for UAV-Enabled Mobile Edge Computing System in Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 15624-15632.	8.0	10
539	Elite archives-driven particle swarm optimization for large scale numerical optimization and its engineering applications. Swarm and Evolutionary Computation, 2023, 76, 101212.	8.1	17
540	An innovative time-varying particle swarm-based Salp algorithm for intrusion detection system and large-scale global optimization problems. Artificial Intelligence Review, 2023, 56, 8325-8392.	15.7	5
541	A Particle Swarm Optimization Decomposition Strategy for Large Scale Global Optimization. , 2022, , .		0
542	A random elite ensemble learning swarm optimizer for high-dimensional optimization. Complex & Intelligent Systems, 2023, 9, 5467-5500.	6.5	9
543	Group Coevolution and Immigration Pigeon-Inspired Optimized Dual-layer Controller for Aerial Manipulator Trajectory Tracking. Research on World Agricultural Economy, 2023, 03, .	1.3	1
544	Semi-online parameter identification methodology for maritime power lithium batteries. Applied Energy, 2023, 339, 120992.	10.1	7
545	Heterogeneous cognitive learning particle swarm optimization for large-scale optimization problems. Information Sciences, 2023, 633, 321-342.	6.9	20
546	Gaussian Adaptive Mutation Pigeon-Inspired Optimized Backstepping Controller for Aerial Manipulation Trajectory Tracking. Lecture Notes in Electrical Engineering, 2023, , 2800-2809.	0.4	0
547	An adaptive balance optimization algorithm and its engineering application. Advanced Engineering Informatics, 2023, 55, 101908.	8.0	1
548	Large-Scale Competitive Learning-Based Salp Swarm for Global Optimization and Solving Constrained Mechanical and Engineering Design Problems. Mathematics, 2023, 11, 1362.	2.2	3
549	A Stable Large-Scale Multiobjective Optimization Algorithm with Two Alternative Optimization Methods. Entropy, 2023, 25, 561.	2.2	1
550	Multi-Space Evolutionary Search for Large-Scale Single-Objective Optimization. , 2023, , 147-169.		0

#	Article	IF	CITATIONS
551	Opportunities and Challenges in Relation to Big Data Analytics for the Shipping and Port Industries. , 2023, , 267-290.		0
552	Crowd Management Through Optimal Layout of Fences: An Ant Colony Approach Based on Crowd Simulation. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 9137-9149.	8.0	5
553	A modified Particle Swarm Optimization algorithm with enhanced search quality and population using Hummingbird Flight patterns. Decision Analytics Journal, 2023, 7, 100251.	4.8	4
554	A space-reduction based three-phase approach for large-scale optimization. Applied Soft Computing Journal, 2023, 144, 110517.	7.2	1
555	A two-stage maintenance and multi-strategy selection for multi-objective particle swarm optimization. Complex & Intelligent Systems, 0, , .	6.5	0
556	A Generic Big Data Analytics With Particle Swarm Optimization for Clinical Machine Learning. Advances in Healthcare Information Systems and Administration Book Series, 2023, , 33-58.	0.2	0
557	LTCSO/D: a large-scale tri-particle competitive swarm optimizer based on decomposition for multiobjective optimization. Applied Intelligence, 0, , .	5.3	0
558	Contribution-Based Cooperative Co-Evolution With Adaptive Population Diversity for Large-Scale Global Optimization [Research Frontier]. IEEE Computational Intelligence Magazine, 2023, 18, 56-68.	3.2	1
559	Generative adversarial networks-based dynamic multi-objective task allocation algorithm for crowdsensing. Information Sciences, 2023, 647, 119472.	6.9	3
560	Multi-modal mutation cooperatively coevolving algorithm for resource allocation of large-scale D2D communication system. Complex & Intelligent Systems, 2024, 10, 1043-1059.	6.5	1
563	Optimal siting and sizing of mobile-static storage mix in distribution systems with high renewable energy resources penetration. Electric Power Systems Research, 2024, 226, 109860.	3.6	0
564	RoCaSH2: An Effective Route Clustering and Search Heuristic for Large-Scale Multi-Depot Capacitated Arc Routing Problem. IEEE Computational Intelligence Magazine, 2023, 18, 43-56.	3.2	0
565	Frontiers of collaborative intelligence systems. , 2024, 2, 14-27.		0
566	Bilevel-search particle swarm optimization algorithm for solving LSGO problems. Journal of Ambient Intelligence and Humanized Computing, 0, , .	4.9	0
567	Bi-directional learning particle swarm optimization for large-scale optimization. Applied Soft Computing Journal, 2023, 149, 110990.	7.2	3
568	A constrained swarm optimization algorithm for large-scale long-run investments using Sharpe ratio-based performance measures. Computational Management Science, 2024, 21, .	1.3	0
569	A double decomposition based coevolutionary algorithm for distributed multi-objective OPF solution. International Journal of Electrical Power and Energy Systems, 2024, 155, 109584.	5.5	0
570	Decomposition and merging cooperative particle swarm optimization with random grouping for large-scale optimization problems. Swarm Intelligence, 0, , .	2.2	0

#	Article	IF	CITATIONS
572	An Adaptive Cooperative Frequency Strategy in Distributed Cooperative Co-evolution. , 2023, , .		0
573	A Dimension-Based Elite Learning Particle Swarm Optimizer forÂLarge-Scale Optimization. Communications in Computer and Information Science, 2024, , 162-176.	0.5	0
574	Double-layer state of health equalization based on cooperative coevolution for large-scale lithium battery system. Journal of Cleaner Production, 2024, 436, 140702.	9.3	0
575	Research on Encounter Probability Between a Supercavitating Vehicle and a Target Based on Path Planning. IEEE Access, 2024, 12, 9497-9509.	4.2	0
576	Unit Commitment Considering Electric Vehicles and Renewable Energy Integration—A CMAES Approach. Sustainability, 2024, 16, 1019.	3.2	0
577	Investigation of Using Large-Scale Swarm Optimizers to Optimize Sub-Problems in Cooperative Co-Evolution. , 2023, , .		0
578	A multi-swarm optimizer with a reinforcement learning mechanism for large-scale optimization. Swarm and Evolutionary Computation, 2024, 86, 101486.	8.1	0