

# A study of particle swarm optimization particle trajectory

Information Sciences

176, 937-971

DOI: [10.1016/j.ins.2005.02.003](https://doi.org/10.1016/j.ins.2005.02.003)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Kalman Particle Swarm Optimization Algorithm and Its Application in Soft-Sensor of Acrylonitrile Yield. Lecture Notes in Computer Science, 2006, , 176-179.	1.0	5
2	Particle Swarm Optimization Using Projection Matrix for Behavior Constraints. , 2006, , .		0
3	Deteco de falhas em estruturas inteligentes usando otimizaco por nuvem de partculas: fundamentos e estudo de casos. Controle and Automacao, 2006, 17, 312-330.	0.2	5
4	A Particle Swarm and Chaos Combination Approach for Vehicle Simulator Optimization. , 2006, , .		1
5	Short-Term Electric Load Forecasting Based on SAPSO-ANN Algorithm. , 2006, , .		0
6	An Optimization of ac-cuts of Fuzzy Sets Through Particle Swarm Optimization. , 2006, , .		0
7	On Modified Strategy Based on the Model of Particle Swarm Optimization. , 2006, , .		0
8	A Novel Approach to Image Enhancement and Thresholding Based on Fuzzy Theory. , 2007, , .		6
9	Self-adaptive barebones differential evolution. , 2007, , .		1
10	Pareto archived PSO optimization for time-cost tradeoff analysis. , 2007, , .		0
11	An Improved Particle Swarm Algorithm Applied to the Price Structure Optimization of the Bankcard Network. , 2007, , .		0
12	Fractional Order Dynamics in a Particle Swarm Optimization Algorithm. , 2007, , .		3
13	Fractional dynamics in particle swarm optimization. , 2007, , .		3
14	An improved particle swarm optimizer with momentum. , 2007, , .		8
15	A novel Variable Neighborhood Particle Swarm Optimization for multi-objective Flexible Job-Shop Scheduling Problems. , 2007, , .		13
16	Particle Swarm Optimization in High-Dimensional Bounded Search Spaces. , 2007, , .		60
17	Using Elitist Particle Swarm Optimization to Facilitate Bicriterion Time-Cost Trade-Off Analysis. Journal of Construction Engineering and Management - ASCE, 2007, 133, 498-505.	2.0	97
18	One-Dimensional Electromagnetic Inversion Using Particle Swarm Optimization. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
19	The Standard Particle Swarm Optimization Algorithm Convergence Analysis and Parameter Selection. , 2007, , .		24
20	On Trajectories of Particles in PSO. , 2007, , .		23
21	Testing and Evaluating the Single Objective Intelligent Evolutionary Algorithm through a Graphic Interface. , 2007, , .		0
22	Particle Swarm Optimization in Structural Design. , 0, , .		13
23	Global minimum structure searches via particle swarm optimization. Journal of Computational Chemistry, 2007, 28, 1177-1186.	1.5	147
24	Automatic construction of feedforward/recurrent fuzzy systems by clustering-aided simplex particle swarm optimization. Fuzzy Sets and Systems, 2007, 158, 1979-1996.	1.6	30
25	Human evolutionary model: A new approach to optimization. Information Sciences, 2007, 177, 2075-2098.	4.0	81
26	Multi-Objective Particle Swarm Optimization with time variant inertia and acceleration coefficients. Information Sciences, 2007, 177, 5033-5049.	4.0	437
27	Locating multiple optima using particle swarm optimization. Applied Mathematics and Computation, 2007, 189, 1859-1883.	1.4	206
28	A particle swarm pattern search method for bound constrained global optimization. Journal of Global Optimization, 2007, 39, 197-219.	1.1	266
29	The landscape adaptive particle swarm optimizer. Applied Soft Computing Journal, 2008, 8, 295-304.	4.1	64
30	A distributed PSO-SVM hybrid system with feature selection and parameter optimization. Applied Soft Computing Journal, 2008, 8, 1381-1391.	4.1	469
31	Adaptive evolutionary programming based on reinforcement learning. Information Sciences, 2008, 178, 971-984.	4.0	32
32	Multi-strategy ensemble particle swarm optimization for dynamic optimization. Information Sciences, 2008, 178, 3096-3109.	4.0	214
33	Nonlinear parameter estimation through particle swarm optimization. Chemical Engineering Science, 2008, 63, 1542-1552.	1.9	320
34	A Modified Particle Swarm Optimizer Based on Cloud Model. , 2008, , .		5
35	Network reconfiguration of the shipboard power system based on logistic function particle swarm optimization. , 2008, , .		2
36	Swarm Intelligence in Optimization. Natural Computing Series, 2008, , 43-85.	2.2	238

#	ARTICLE	IF	CITATIONS
37	Using elitist particle swarm optimization to facilitate resources leveling optimization analysis. , 2008, , .		0
38	Using Elitist Particle Swarm Optimization to Facilitate Real Estate Portfolio Based on Information Entropy. , 2008, , .		1
39	Multi-objective optimization of electrochemical machining process parameters using a particle swarm optimization algorithm. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2008, 222, 949-958.	1.5	82
40	A Self-Adaptive Particle Swarm Optimization Algorithm. , 2008, , .		11
41	Application of Improved Particle Swarm Optimization in Construction Contractors' Selection and Optimization. , 2008, , .		0
42	Distribution-Free Monte Carlo Simulation: Premise and Refinement. Journal of Construction Engineering and Management - ASCE, 2008, 134, 352-360.	2.0	24
43	A multi-swarm approach for neighbor selection in peer-to-peer networks. , 2008, , .		5
44	Searching for structure in data with fuzzy clusters of variable dimensionality of feature subspaces. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	0
45	Exponential Type Adaptive Inertia Weighted Particle Swarm Optimization Algorithm. , 2008, , .		4
46	On the properties of search directions in the Particle Swarm Optimization system. , 2008, , .		0
47	An improved particle swarm optimizer with behavior-distance models and its application in soft-sensor. , 2008, , .		1
48	Cooperative Random Learning Particle Swarm Optimization. , 2008, , .		3
49	Enhancing the particle swarm optimization based on equilibrium of distribution. , 2008, , .		1
50	Dynamic-probabilistic particle swarm synergetic model: A new framework for a more in-depth understanding of particle swarm algorithms. , 2008, , .		2
51	Using Opposition-based Learning with Particle Swarm Optimization and Barebones Differential Evolution. , 2009, , .		6
52	Particle Swarm Optimization: Dynamical Analysis through Fractional Calculus. , 2009, , .		1
53	A Combination of Modified Particle Swarm Optimization Algorithm and Support Vector Machine for Pattern Classification. , 2009, , .		2
54	Numeric data to information granules and computing with words. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
55	Cooperative defensive surveillance using Unmanned Aerial Vehicles. , 2009, , .		5
56	An Investigation on Particle Trajectories of PSO. , 2009, , .		0
57	Fast convergence strategy for Particle Swarm Optimization using spread factor. , 2009, , .		16
58	No Velocity Particle Swarm Optimiser with Forgetting Factor and Center. , 2009, , .		4
59	Improved Particle Swarm Optimization Based Fault Diagnosis Approach for Power Electronic Devices. , 2009, , .		1
60	Fault Diagnosis Method Based on PSO-optimized H-BP Neural Network. , 2009, , .		2
61	A Multi-swarm Approach to Multi-objective Flexible Job-shop Scheduling Problems. Fundamenta Informaticae, 2009, 95, 465-489.	0.3	27
62	PSwarm: a hybrid solver for linearly constrained global derivative-free optimization. Optimization Methods and Software, 2009, 24, 669-685.	1.6	92
63	Resolving Superimposed MUAPs Using Particle Swarm Optimization. IEEE Transactions on Biomedical Engineering, 2009, 56, 916-919.	2.5	21
64	Mean and Variance of the Sampling Distribution of Particle Swarm Optimizers During Stagnation. IEEE Transactions on Evolutionary Computation, 2009, 13, 712-721.	7.5	163
65	Bare bones differential evolution. European Journal of Operational Research, 2009, 196, 128-139.	3.5	180
66	Application of stochastic algorithms for parameter estimation in the liquid-liquid phase equilibrium modeling. Fluid Phase Equilibria, 2009, 280, 110-119.	1.4	74
67	Application of particle swarm optimization and proximal support vector machines for fault detection. Swarm Intelligence, 2009, 3, 303-325.	1.3	32
68	The PSO family: deduction, stochastic analysis and comparison. Swarm Intelligence, 2009, 3, 245.	1.3	86
69	A novel hybrid differential evolution and particle swarm optimization algorithm for unconstrained optimization. Operations Research Letters, 2009, 37, 117-122.	0.5	91
70	PSO-based single multiplicative neuron model for time series prediction. Expert Systems With Applications, 2009, 36, 2805-2812.	4.4	160
71	Finite cut-based approximation of fuzzy sets and its evolutionary optimization. Fuzzy Sets and Systems, 2009, 160, 3550-3564.	1.6	21
72	Numerical simulation for Fuzzy-PID controllers and helping EP reproduction with PSO hybrid algorithm. Simulation Modelling Practice and Theory, 2009, 17, 1555-1565.	2.2	46

#	ARTICLE	IF	CITATIONS
73	Particle swarm optimization with preference order ranking for multi-objective optimization. Information Sciences, 2009, 179, 1944-1959.	4.0	145
74	GSA: A Gravitational Search Algorithm. Information Sciences, 2009, 179, 2232-2248.	4.0	5,379
75	Dynamic task scheduling with load balancing using parallel orthogonal particle swarm optimisation. International Journal of Bio-Inspired Computation, 2009, 1, 276.	0.6	45
76	Guidelines for Parameter Selection in Particle Swarm Optimization According to Control Theory. , 2009, , .		7
77	Particle swarm optimization for chaotic system parameter estimation. , 2009, , .		1
78	Convergence Analysis of Metaheuristics. Annals of Information Systems, 2009, , 159-187.	0.5	25
79	An improved particle swarm optimization using best neighbor with worst particle and its application in soft-sensor of gasoline endpoint. , 2009, , .		0
80	Convergence analysis of swarm algorithm. , 2009, , .		8
81	A New Image Segmentation Algorithm Based on Fuzzy Logical. , 2009, , .		0
82	Particle swarm optimization for the multi level capacitated minimum spanning tree. , 2009, , .		2
83	Adaptive Particle Swarm Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1362-1381.	5.5	1,549
84	Parameter approximate dynamic optimization for PSO systems. , 2009, , .		1
85	Barebones particle swarm for multi-objective optimisation problems. International Journal of Innovative Computing and Applications, 2009, 2, 86.	0.2	5
86	Velocity-free particle swarm optimiser with centroid. International Journal of Modelling, Identification and Control, 2009, 8, 277.	0.2	3
87	DESIGN OF A HYPERHEURISTIC FOR PRODUCTION SCHEDULING IN JOB SHOP ENVIRONMENTS. Ingeniare, 2010, 18, .	0.1	1
88	A Convergence Proof for the Particle Swarm Optimiser. Fundamenta Informaticae, 2010, 105, 341-374.	0.3	96
89	Complex system fault diagnosis based on a fuzzy robust wavelet support vector classifier and an adaptive Gaussian particle swarm optimization. Information Sciences, 2010, 180, 4514-4528.	4.0	45
90	Automatically extracting Tâ€™S fuzzy models using cooperative random learning particle swarm optimization. Applied Soft Computing Journal, 2010, 10, 938-944.	4.1	85

#	ARTICLE	IF	CITATIONS
91	A novel particle swarm niching technique based on extensive vector operations. <i>Natural Computing</i> , 2010, 9, 683-701.	1.8	16
92	Particle swarm optimization with fractional-order velocity. <i>Nonlinear Dynamics</i> , 2010, 61, 295-301.	2.7	196
93	Coordinated Scheduling of Residential Distributed Energy Resources to Optimize Smart Home Energy Services. <i>IEEE Transactions on Smart Grid</i> , 2010, 1, 134-143.	6.2	707
94	Melt Index Prediction Based on Adaptive Particle Swarm Optimization Algorithm—Optimized Radial Basis Function Neural Networks. <i>Chemical Engineering and Technology</i> , 2010, 33, 1909-1916.	0.9	16
95	Chaotic particle swarm optimization for assembly sequence planning. <i>Robotics and Computer-Integrated Manufacturing</i> , 2010, 26, 212-222.	6.1	148
96	PSO: A powerful algorithm to solve geophysical inverse problems. <i>Journal of Applied Geophysics</i> , 2010, 71, 13-25.	0.9	163
97	Optimal weight design of a gear train using particle swarm optimization and simulated annealing algorithms. <i>Mechanism and Machine Theory</i> , 2010, 45, 531-541.	2.7	143
98	The design of cognitive maps: A study in synergy of granular computing and evolutionary optimization. <i>Expert Systems With Applications</i> , 2010, 37, 7288-7294.	4.4	74
99	On the improvements of the particle swarm optimization algorithm. <i>Advances in Engineering Software</i> , 2010, 41, 229-239.	1.8	47
100	Design optimization of shell-and-tube heat exchanger using particle swarm optimization technique. <i>Applied Thermal Engineering</i> , 2010, 30, 1417-1425.	3.0	220
101	Parameter optimization of a multi-pass milling process using non-traditional optimization algorithms. <i>Applied Soft Computing Journal</i> , 2010, 10, 445-456.	4.1	145
102	Bandwidth allocation with a particle swarm meta-heuristic for ethernet passive optical networks. <i>Computer Communications</i> , 2010, 33, 526-531.	3.1	4
103	Data compactification and computing with words. <i>Engineering Applications of Artificial Intelligence</i> , 2010, 23, 346-356.	4.3	15
104	Thermodynamic optimization of cross flow plate-fin heat exchanger using a particle swarm optimization algorithm. <i>International Journal of Thermal Sciences</i> , 2010, 49, 1712-1721.	2.6	155
105	A molecular solution to the hitting-set problem in DNA-based supercomputing. <i>Information Sciences</i> , 2010, 180, 1010-1019.	4.0	9
106	A new heuristic approach for non-convex optimization problems. <i>Information Sciences</i> , 2010, 180, 1955-1966.	4.0	33
107	Robust static output feedback controller synthesis using Kharitonov's theorem and evolutionary algorithms. <i>Information Sciences</i> , 2010, 180, 2023-2028.	4.0	9
108	An analysis of the equilibrium of migration models for biogeography-based optimization. <i>Information Sciences</i> , 2010, 180, 3444-3464.	4.0	223

#	ARTICLE	IF	CITATIONS
109	Parameter identification of a cage induction motor using particle swarm optimization. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2010, 224, 479-491.	0.7	11
110	Particle Swarm Optimization Based on Genetic Algorithms to Optimize Ultrasonic Conditions of Extracting Chinese Medicine Effective Component. Applied Mechanics and Materials, 2010, 39, 97-102.	0.2	0
111	A study of optimal topologies in swarm intelligence. , 2010, , .		8
112	Binary-Organoid Particle Swarm optimisation for inferring genetic networks. , 2010, , .		2
113	Parameter Selection of Support Vector Regression Based on Particle Swarm Optimization. , 2010, , .		5
114	Hardware/software co-design for particle swarm optimization algorithm. , 2010, , .		8
115	Multiple-layer Quantum-behaved Particle Swarm Optimization and Toy Model for Protein Structure Prediction. , 2010, , .		3
116	A Modified Particle Swarm Optimization Applied in Image Registration. , 2010, , .		12
117	A Study on the Internal Structure of Family Particle Swarm Optimization. , 2010, , .		5
118	The geometric constraint solving based on hybrid differential evolution and particle swarm optimization algorithm. , 2010, , .		2
119	High-dimensional Function Optimisation by Reinforcement Learning. , 2010, , .		5
120	Improved particle swarm optimization algorithm and its global convergence analysis. , 2010, , .		0
121	Improved Particle Swarm Optimization Algorithm Based on Random Perturbations. , 2010, , .		2
122	Dynamic Parameter Selection Based on Trigonometric Function in Particle Swarm Optimization. , 2010, , .		1
123	Particle swarm optimization with opposition-based disturbance. , 2010, , .		4
124	Particle Swarm Optimization with Subpopulations Shuffled Dynamic and its application in soft-sensor of acrylonitrile yield. , 2010, , .		0
125	CODEQ: an effective metaheuristic for continuous global optimisation. International Journal of Metaheuristics, 2010, 1, 108.	0.1	12
126	Identification of Autonomous Switched Linear Systems: A Particle Swarm Optimization approach. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
127	Family Particle Swarm Optimization. , 2010, , .		7
128	A study of particle swarm optimization for cognitive machines. , 2010, , .		5
129	Multiobjective Optimization of Grinding Process Parameters Using Particle Swarm Optimization Algorithm. Materials and Manufacturing Processes, 2010, 25, 424-431.	2.7	57
130	A Comparison of Four Popular Heuristics for Task Scheduling Problem in Computational Grid. , 2010, , .		17
131	An automatic group composition system for composing collaborative learning groups using enhanced particle swarm optimization. Computers and Education, 2010, 55, 1483-1493.	5.1	110
132	Particle Swarm Optimization With Composite Particles in Dynamic Environments. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 1634-1648.	5.5	129
133	The registration of aerial infrared and visible images. , 2010, , .		5
134	An Improved Gravitation Search Algorithm for Unconstrained Optimization. Advanced Materials Research, 0, 143-144, 409-413.	0.3	4
135	Fractal image compression based on spatial correlation and chaotic particle swarm optimization. , 2010, , .		2
136	Fractal Image Compression Based on Particle Swarm Optimization and Chaos Searching. , 2010, , .		2
137	Notice of Retraction: An analysis for particle trajectories of a discrete particle swarm optimization. , 2010, , .		3
138	Fractal image compression based on spatial correlation and hybrid particle swarm optimization with genetic algorithm. , 2010, , .		4
139	Cloud Estimation of Distribution Particle Swarm Optimizer. , 2010, , .		0
140	A new third order particle swarm optimization and applications to test various functions. , 2010, , .		0
141	Edge Detection for Medical Image Based on PSO Algorithm. , 2010, , .		2
142	The direction of family particle swarm optimization. , 2010, , .		3
143	Parameter Optimization of Ultrasonic Machining Process Using Nontraditional Optimization Algorithms. Materials and Manufacturing Processes, 2010, 25, 1120-1130.	2.7	67
144	Nonlinear PSO&#x2014;Convergence analysis and parameter adjustment schemes. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
145	Protein Structure Prediction in Lattice Models with Particle Swarm Optimization. Lecture Notes in Computer Science, 2010, , 512-519.	1.0	10
146	Date clustering using Principal Component Analysis and Particle Swarm Optimization. , 2010, , .		2
147	Improved select space multi-objective particle swarm optimization. , 2010, , .		2
148	Research on Nonlinear Predictive Control Rolling Optimization Strategy Based on SAPSO. , 2011, , .		0
149	Modeling of a Liquid Epoxy Molding Process Using a Particle Swarm Optimization-Based Fuzzy Regression Approach. IEEE Transactions on Industrial Informatics, 2011, 7, 148-158.	7.2	64
150	Optimization of Fuzzy Logic Controllers for Robotic Autonomous Systems with PSO and ACO. Adaptation, Learning, and Optimization, 2011, , 389-417.	0.5	1
151	Hierarchical Deployment Optimization for Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2011, 10, 1028-1041.	3.9	67
152	GPU-based asynchronous particle swarm optimization. , 2011, , .		30
153	Modeling and Optimization of Nano-finishing Processes. Springer Series in Advanced Manufacturing, 2011, , 285-316.	0.2	1
154	A comparison on the search of particle swarm optimization and differential evolution on multi-objective optimization. , 2011, , .		11
155	Research on the detection information intelligent fusion of oil equipment. , 2011, , .		1
156	A New Particle Swarm Algorithm and Its Globally Convergent Modifications. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1334-1351.	5.5	75
157	Quasi-PSO Algorithm for Modeling Foraging Dynamics in Social Mammals. International Journal of Agent Technologies and Systems, 2011, 3, 27-38.	0.1	0
158	Time and Frequency Analysis of Particle Swarm Trajectories for Cognitive Machines. International Journal of Cognitive Informatics and Natural Intelligence, 2011, 5, 18-42.	0.4	6
159	Convergence Time Analysis of Particle Swarm Optimization Based on Particle Interaction. Advances in Artificial Intelligence, 2011, 2011, 1-7.	0.9	9
160	A Family Particle Swarm Optimization Based on Tree Structure. , 2011, , .		0
161	Support vector machine with parameter optimization by bare bones differential evolution. , 2011, , .		2
162	Multi-objective bidding strategy for GenCo using non-dominated sorting particle swarm optimisation. International Journal of Applied Decision Sciences, 2011, 4, 305.	0.2	7

#	ARTICLE	IF	CITATIONS
163	An augmented particle swarm model based biã€acceleration factor. International Journal of Intelligent Computing and Cybernetics, 2011, 4, 187-205.	1.6	5
164	AMT-PSO: An Adaptive Magnification Transformation Based Particle Swarm Optimizer. IEICE Transactions on Information and Systems, 2011, E94-D, 786-797.	0.4	5
165	An Extension of Particle Swarm Optimization Based on Partial Initialization (The 1st Report,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 667 T Japan Society of Mechanical Engineers, Part C, 2011, 77, 2071-2083.	0.2	0
166	Uncertainty assessment for inverse problems in high dimensional spaces using particle swarm optimization and model reduction techniques. Mathematical and Computer Modelling, 2011, 54, 2889-2899.	2.0	27
167	Representation of neural networks through their multi-linearization. Neurocomputing, 2011, 74, 2852-2860.	3.5	2
168	Disruption: A new operator in gravitational search algorithm. Scientia Iranica, 2011, 18, 539-548.	0.3	153
169	Stochastic Stability Analysis of the Linear Continuous and Discrete PSO Models. IEEE Transactions on Evolutionary Computation, 2011, 15, 405-423.	7.5	133
170	A novel energy service model and optimal scheduling algorithm for residential distributed energy resources. Electric Power Systems Research, 2011, 81, 2155-2163.	2.1	24
171	A perturb biogeography based optimization with mutation for global numerical optimization. Applied Mathematics and Computation, 2011, 218, 598-609.	1.4	91
172	An evolutionary framework using particle swarm optimization for classification method PROAFTN. Applied Soft Computing Journal, 2011, 11, 4971-4980.	4.1	31
173	A hybrid particle swarm optimization algorithm for high-dimensional problems. Computers and Industrial Engineering, 2011, 61, 1117-1122.	3.4	81
174	Multi swarms for neighbor selection in peer-to-peer overlay networks. Telecommunication Systems, 2011, 46, 195-208.	1.6	4
175	An improved cooperative particle swarm optimization and its application. Neural Computing and Applications, 2011, 20, 171-182.	3.2	18
176	Novel bare-bones particle swarm optimization and its performance for modeling vaporã€liquid equilibrium data. Fluid Phase Equilibria, 2011, 301, 33-45.	1.4	54
177	Self-adaptive learning based particle swarm optimization. Information Sciences, 2011, 181, 4515-4538.	4.0	294
178	On convergence of the multi-objective particle swarm optimizers. Information Sciences, 2011, 181, 1411-1425.	4.0	70
179	Nonlinear mappings in problem solving and their PSO-based development. Information Sciences, 2011, 181, 4112-4123.	4.0	7
180	The fitness evaluation strategy in particle swarm optimization. Applied Mathematics and Computation, 2011, 217, 8655-8670.	1.4	13

#	ARTICLE	IF	CITATIONS
181	PSO with Adaptive Mutation and Inertia Weight and Its Application in Parameter Estimation of Dynamic Systems. Zidonghua Xuebao/Acta Automatica Sinica, 2011, 37, 541-549.	1.5	132
182	Truss optimization with dynamic constraints using a particle swarm algorithm. Expert Systems With Applications, 2011, 38, 957-968.	4.4	246
183	Using investment satisfaction capability index based particle swarm optimization to construct a stock portfolio. Information Sciences, 2011, 181, 2989-2999.	4.0	49
184	Cellular particle swarm optimization. Information Sciences, 2011, 181, 4460-4493.	4.0	169
185	Swarm algorithms with chaotic jumps applied to noisy optimization problems. Information Sciences, 2011, 181, 4494-4514.	4.0	31
186	Swarm intelligence based routing protocol for wireless sensor networks: Survey and future directions. Information Sciences, 2011, 181, 4597-4624.	4.0	306
187	Hardware/software co-design for particle swarm optimization algorithm. Information Sciences, 2011, 181, 4582-4596.	4.0	39
188	Evaluation of parallel particle swarm optimization algorithms within the CUDA architecture. Information Sciences, 2011, 181, 4642-4657.	4.0	125
189	Handling boundary constraints for particle swarm optimization in high-dimensional search space. Information Sciences, 2011, 181, 4569-4581.	4.0	64
190	Adaptive Fuzzy-GARCH model applied to forecasting the volatility of stock markets using particle swarm optimization. Information Sciences, 2011, 181, 4673-4683.	4.0	35
191	Enhancing particle swarm optimization using generalized opposition-based learning. Information Sciences, 2011, 181, 4699-4714.	4.0	385
192	Design optimization of shell and tube heat exchangers using swarm optimization algorithms. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2011, 225, 619-634.	0.8	18
193	Solving EMG-force relationship using Particle Swarm Optimization. , 2011, 2011, 3861-4.		11
194	Research on multi-source data fusion model of safety monitoring for oil depot. , 2011, , .		1
195	The Continuous Differential Ant-Stigmergy Algorithm applied to real-world optimization problems. , 2011, , .		16
196	Development of Third Order Particle Swarm Optimization and Verification of its Performance with Various Test Functions. , 2011, , .		0
198	Modeling and Optimization of Modern Machining Processes. Springer Series in Advanced Manufacturing, 2011, , 177-284.	0.2	13
199	A Statistical Study of the Effects of Neighborhood Topologies in Particle Swarm Optimization. Studies in Computational Intelligence, 2011, , 179-192.	0.7	15

#	ARTICLE	IF	CITATIONS
200	A family Particle Swarm Optimization based on the family tree. , 2011, , .		2
201	An empirical study on the search directions of differential evolution. , 2011, , .		2
202	Velocity-based reinitialisation approach in Particle Swarm Optimisation for feature selection. , 2011, , .		3
203	The Forward Kinematics Solution of Track Irregularity Simulator. Advanced Materials Research, 0, 503-504, 1100-1103.	0.3	0
204	Soft sensor modeling based on modified PSO. , 2012, , .		0
205	Design of optimized reduced order observer for glucose control with intelligent methods. , 2012, , .		1
206	Particle Swarm Optimization Algorithm with Random Perturbation around Convergence Center. Advanced Materials Research, 2012, 488-489, 729-734.	0.3	0
207	A Novel Computational Strategy to Enhance the Ability of Elaborate Search by Entire Swarm to Find the Best Solution in Optimization of AMCs. Defect and Diffusion Forum, 2012, 332, 27-33.	0.4	2
208	Crosshole traveltime tomography using particle swarm optimization: A near-surface field example. Geophysics, 2012, 77, R19-R32.	1.4	58
209	Differential Evolution for Tuning Fractional Order Controllers Approximated by Particle Swarm Optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 565-570.	0.4	0
210	An Optimization of Allocation of Information Granularity in the Interpretation of Data Structures: Toward Granular Fuzzy Clustering. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 582-590.	5.5	197
211	Stochastic hyperbolic random early detection controller based on probability density function estimator and particle swarm optimisation algorithm. IET Communications, 2012, 6, 638.	1.5	1
212	Adaptive swarm optimization for locating and tracking multiple targets. Applied Soft Computing Journal, 2012, 12, 3656-3670.	4.1	13
213	Linguistic fuzzy model identification based on PSO with different length of particles. Applied Soft Computing Journal, 2012, 12, 3390-3400.	4.1	13
214	Stochastic stability analysis of the particle dynamics in the PSO algorithm. , 2012, , .		24
215	Self-adapting task allocation approach for software outsourcing services. , 2012, , .		1
216	Derivation of a generalized PSO model and convergence analysis. , 2012, , .		0
217	Dynamic scheduling approach for data-intensive cloud environment. , 2012, , .		6

#	ARTICLE	IF	CITATIONS
218	Mathematical Modeling of Plant Metabolism—From Reconstruction to Prediction. <i>Metabolites</i> , 2012, 2, 553-566.	1.3	11
219	Granular representation and granular computing with fuzzy sets. <i>Fuzzy Sets and Systems</i> , 2012, 203, 17-32.	1.6	77
220	Particle swarm optimization: Velocity initialization. , 2012, , .		104
221	Reservoir characterization and inversion uncertainty via a family of particle swarm optimizers. <i>Geophysics</i> , 2012, 77, M1-M16.	1.4	43
222	Improved understanding of the searching behavior of ant colony optimization algorithms applied to the water distribution design problem. <i>Water Resources Research</i> , 2012, 48, .	1.7	34
223	Convergence analysis and performance of an extended central force optimization algorithm. <i>Applied Mathematics and Computation</i> , 2012, 219, 2246-2259.	1.4	18
224	Multi-operator based biogeography based optimization with mutation for global numerical optimization. <i>Computers and Mathematics With Applications</i> , 2012, 64, 2833-2844.	1.4	50
225	Advanced Optimization Techniques. <i>Springer Series in Advanced Manufacturing</i> , 2012, , 5-34.	0.2	5
226	Survey on Particle Swarm Optimization Based Clustering Analysis. <i>Lecture Notes in Computer Science</i> , 2012, , 301-309.	1.0	7
227	Introducing the fractional-order Darwinian PSO. <i>Signal, Image and Video Processing</i> , 2012, 6, 343-350.	1.7	118
228	An improved quantum behaved gravitational search algorithm. , 2012, , .		18
229	How to design a powerful family of particle swarm optimizers for inverse modelling. <i>Transactions of the Institute of Measurement and Control</i> , 2012, 34, 705-719.	1.1	15
230	A parameter-free barebones particle swarm algorithm for unsupervised pattern classification. <i>International Journal of Hybrid Intelligent Systems</i> , 2012, 9, 135-143.	0.9	2
231	Power optimization of gas pipelines via an improved particle swarm optimization algorithm. <i>Petroleum Science</i> , 2012, 9, 89-92.	2.4	10
232	Psychological model of particle swarm optimization based—multiple emotions. <i>Applied Intelligence</i> , 2012, 36, 649-663.	3.3	16
233	A characterization of electrocardiogram signals through optimal allocation of information granularity. <i>Artificial Intelligence in Medicine</i> , 2012, 54, 125-134.	3.8	7
234	A hybrid niching PSO enhanced with recombination-replacement crowding strategy for multimodal function optimization. <i>Applied Soft Computing Journal</i> , 2012, 12, 975-987.	4.1	73
235	A particle swarm optimization algorithm for solving unbalanced supply chain planning problems. <i>Applied Soft Computing Journal</i> , 2012, 12, 1279-1287.	4.1	41

#	ARTICLE	IF	CITATIONS
236	A refactoring method for cache-efficient swarm intelligence algorithms. Information Sciences, 2012, 192, 39-49.	4.0	61
237	The differential ant-stigmergy algorithm. Information Sciences, 2012, 192, 82-97.	4.0	70
238	Estimation of particle swarm distribution algorithms: Combining the benefits of PSO and EDAs. Information Sciences, 2012, 192, 109-119.	4.0	47
239	Inter-particle communication and search-dynamics of lbest particle swarm optimizers: An analysis. Information Sciences, 2012, 182, 156-168.	4.0	36
240	Force-imitated particle swarm optimization using the near-neighbor effect for locating multiple optima. Information Sciences, 2012, 182, 139-155.	4.0	19
241	A bare-bones multi-objective particle swarm optimization algorithm for environmental/economic dispatch. Information Sciences, 2012, 192, 213-227.	4.0	247
242	Nonlinear systems design by a novel fuzzy neural system via hybridization of electromagnetism-like mechanism and particle swarm optimisation algorithms. Information Sciences, 2012, 186, 59-72.	4.0	36
243	Swarm scheduling approaches for work-flow applications with security constraints in distributed data-intensive computing environments. Information Sciences, 2012, 192, 228-243.	4.0	68
244	On fast and accurate block-based motion estimation algorithms using particle swarm optimization. Information Sciences, 2012, 197, 53-64.	4.0	54
245	Two-stage DOA estimation for CDMA multipath signals. Information Sciences, 2012, 197, 187-196.	4.0	6
246	A chaotic digital secure communication based on a modified gravitational search algorithm filter. Information Sciences, 2012, 208, 14-27.	4.0	83
247	Chaotic secure communication based on a gravitational search algorithm filter. Engineering Applications of Artificial Intelligence, 2012, 25, 766-774.	4.3	22
248	Markowitz-based portfolio selection with cardinality constraints using improved particle swarm optimization. Expert Systems With Applications, 2012, 39, 4558-4566.	4.4	104
249	An agent-assisted QoS-based routing algorithm for wireless sensor networks. Journal of Network and Computer Applications, 2012, 35, 29-36.	5.8	64
250	An improved swarm optimized functional link artificial neural network (ISO-FLANN) for classification. Journal of Systems and Software, 2012, 85, 1333-1345.	3.3	121
251	A Customized Particle Swarm Method to Solve Highway Alignment Optimization Problem. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 52-67.	6.3	116
252	An Intelligent Particle Swarm Optimization for Short-Term Traffic Flow Forecasting Using on-Road Sensor Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 4714-4725.	5.2	74
253	A particle swarm optimization approach for fuzzy sliding mode control for tracking the robot manipulator. Nonlinear Dynamics, 2013, 74, 467-478.	2.7	87

#	ARTICLE	IF	CITATIONS
254	A particle swarm optimizer for grouping problems. <i>Information Sciences</i> , 2013, 252, 81-95.	4.0	43
255	Swarm optimization tuned fuzzy sliding mode control design for a class of nonlinear systems in presence of uncertainties. <i>Journal of Intelligent and Fuzzy Systems</i> , 2013, 24, 383-394.	0.8	26
256	Combining differential evolution and particle swarm optimization to tune and realize fractional-order controllers. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2013, 19, 277-299.	1.4	10
257	Particle Swarm Algorithm. , 2013, , 137-168.		9
258	A multi-stage particle swarm for optimum design of truss structures. <i>Neural Computing and Applications</i> , 2013, 23, 1297-1309.	3.2	80
259	Robust state estimator design for uncertain linear systems using optimization techniques. <i>Neural Computing and Applications</i> , 2013, 23, 1395-1406.	3.2	1
260	Swallow swarm optimization algorithm: a new method to optimization. <i>Neural Computing and Applications</i> , 2013, 23, 429-454.	3.2	68
261	State of charge neural computational models for high energy density batteries in electric vehicles. <i>Neural Computing and Applications</i> , 2013, 22, 1171-1180.	3.2	22
262	A combination of Genetic Algorithm, Particle Swarm Optimization and Neural Network for palmprint recognition. <i>Neural Computing and Applications</i> , 2013, 22, 27-33.	3.2	15
263	Optimization for PID controller of cryogenic ground support equipment based on cooperative random learning particle swarm optimization. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2013, 18, 140-146.	0.5	0
264	Allocation of urban land uses by Multi-Objective Particle Swarm Optimization algorithm. <i>International Journal of Geographical Information Science</i> , 2013, 27, 542-566.	2.2	106
265	Efficient optimum solution for high strength Al alloys matrix composites. <i>Ceramics International</i> , 2013, 39, 7483-7490.	2.3	59
266	Particle swarm optimization based on intermediate disturbance strategy algorithm and its application in multi-threshold image segmentation. <i>Information Sciences</i> , 2013, 250, 82-112.	4.0	61
267	Computational modeling of cast aluminum 2024 alloy matrix composites: Adapting the classical algorithms for optimal results in finding multiple optima. <i>Powder Technology</i> , 2013, 249, 77-81.	2.1	16
268	Analysis of Standard Particle Swarm Optimization Algorithm Based on Markov Chain. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2013, 39, 381-389.	1.5	35
269	Optimization of zero-pole interlacing for indirect discrete approximations of noninteger order operators. <i>Computers and Mathematics With Applications</i> , 2013, 66, 746-754.	1.4	12
270	Shrinking hypersphere based trajectory of particles in PSO. <i>Applied Mathematics and Computation</i> , 2013, 220, 246-267.	1.4	16
271	Analytical design of proportional-integral controllers for the optimal control of first-order processes with operational constraints. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 2151-2162.	1.2	7

#	ARTICLE	IF	CITATIONS
272	Diversity enhanced particle swarm optimization with neighborhood search. Information Sciences, 2013, 223, 119-135.	4.0	342
273	Nonconvex resource control and lifetime optimization in wireless video sensor networks based on chaotic particle swarm optimization. Applied Soft Computing Journal, 2013, 13, 3273-3284.	4.1	11
274	Particle Swarm Optimizer with Aging Operator for Multimodal Function Optimization. International Journal of Computational Intelligence Systems, 2013, 6, 862-880.	1.6	7
275	Stable adaptive Particle Swarm Optimization. , 2013, , .		7
276	A novel Fuzzy Particle Swarm Optimization. , 2013, , .		2
277	Gaussian Bare-Bones Differential Evolution. IEEE Transactions on Cybernetics, 2013, 43, 634-647.	6.2	346
278	A comparative study on differential evolution with other heuristic methods for continuous optimization. , 2013, , .		0
279	Analysis of stagnation behavior of vector evaluated particle swarm optimization. , 2013, , .		11
280	New conditions for global exponential stability of continuous-time neural networks with delays. Neural Computing and Applications, 2013, 22, 41-48.	3.2	11
281	Elaboration of an operative and efficacious optimization route to ameliorate the mechanical and tribological properties of implants. Powder Technology, 2013, 249, 530-535.	2.1	9
282	Fabrication of AMCs by spray forming: Setting of cognition and social parameters to accelerate the convergence in optimization of spray forming process. Ceramics International, 2013, 39, 5271-5279.	2.3	18
283	Development of the principle of simulated natural evolution in searching for a more superior solution: Proper selection of processing parameters in AMCs. Powder Technology, 2013, 245, 146-155.	2.1	38
284	The synthesis of the particulates Al matrix composites by the compocasting method. Ceramics International, 2013, 39, 1351-1358.	2.3	31
285	Cluster analysis based on attractor particle swarm optimization with boundary zoomed for working conditions classification of power plant pulverizing system. Neurocomputing, 2013, 117, 54-63.	3.5	8
286	A particle swarmâ€“BFGS algorithm for nonlinear programming problems. Computers and Operations Research, 2013, 40, 963-972.	2.4	31
287	Function optimisation by learning automata. Information Sciences, 2013, 220, 379-398.	4.0	19
288	A survey on optimization metaheuristics. Information Sciences, 2013, 237, 82-117.	4.0	1,200
289	Adaptive active queue management controller for TCP communication networks using PSO-RBF models. Neural Computing and Applications, 2013, 22, 933-945.	3.2	30

#	ARTICLE	IF	CITATIONS
290	Antiviral therapy using a fuzzy controller optimized by modified evolutionary algorithms: a comparative study. <i>Neural Computing and Applications</i> , 2013, 23, 1801-1813.	3.2	13
291	Hybridization strategies for continuous ant colony optimization and particle swarm optimization applied to data clustering. <i>Applied Soft Computing Journal</i> , 2013, 13, 3864-3872.	4.1	67
292	A piecewise linear chaotic map and sequential quadratic programming based robust hybrid particle swarm optimization. <i>Information Sciences</i> , 2013, 218, 85-102.	4.0	34
293	Mathematical Model of the Binding of Allosteric Effectors to the <i>Escherichia coli</i> PII Signal Transduction Protein GlnB. <i>Biochemistry</i> , 2013, 52, 2683-2693.	1.2	10
294	Particle Swarm Optimization: Global Best or Local Best?. , 2013, , .		74
295	Particle swarm optimization and genetic algorithm as feature selection techniques for the <i>QSAR</i> modeling of imidazo[1,5- <i>b</i> ]pyrido[3,2- <i>d</i> ]pyrazines, inhibitors of phosphodiesterase 10. <i>Chemical Biology and Drug Design</i> , 2013, 82, 685-696.	1.5	15
296	Swarm optimization tuned Mamdani fuzzy controller for diabetes delayed model. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2013, 21, 2110-2126.	0.9	33
297	Quantum Behaved Particle Swarm Optimization with Neighborhood Search for Numerical Optimization. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-10.	0.6	18
298	Improved Barebones Particle Swarm Optimization with Neighborhood Search and Its Application on Ship Design. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-12.	0.6	21
299	Convergence Analysis of a Class of Computational Intelligence Approaches. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-10.	0.6	0
300	Optimum Material Gradient for Functionally Graded Dental Implant Using Particle Swarm Optimization. <i>Advanced Materials Research</i> , 0, 647, 30-36.	0.3	7
301	From Numeric to Granular Description and Interpretation of Information Granules. <i>Fundamenta Informaticae</i> , 2013, 127, 399-412.	0.3	12
302	Research on Route Planning of Cruise Missile Based on Improved Particle Swarm Optimization Algorithm. <i>Applied Mechanics and Materials</i> , 0, 380-384, 1170-1175.	0.2	3
303	A Study on Particle Trajectory of Particle Swarm Optimization. <i>Applied Mechanics and Materials</i> , 0, 433-435, 662-666.	0.2	2
304	Correlation between RFID Network Planning (RNP) Parameters and Particle Swarm Optimization (PSO) Solutions. <i>Applied Mechanics and Materials</i> , 0, 465-466, 1245-1249.	0.2	4
305	The Optimization of Project Time-Cost Based on Particle Swarm Optimization Algorithm. <i>Advanced Materials Research</i> , 0, 791-793, 1423-1426.	0.3	0
306	A Multi-objective PSO algorithm with transposon and elitist seeding approaches. , 2013, , .		0
307	On the optimality of particle swarm parameters in dynamic environments. , 2013, , .		11

#	ARTICLE	IF	CITATIONS
308	Analysis of an optimizer based on piecewise-rotational chaotic system. Nonlinear Theory and Its Applications IEICE, 2013, 7, 557-575.	0.4	6
309	Particle swarm optimisation and its applications in power converter systems. International Journal of Artificial Intelligence and Soft Computing, 2013, 3, 372.	0.1	4
310	Particle swarm optimisation: time for uniformisation. International Journal of Computing Science and Mathematics, 2013, 4, 16.	0.2	9
311	Multi-Objective Design Optimization of Rolling Element Bearings Using ABC, AIA and PSO Technique. International Journal of Energy Optimization and Engineering, 2013, 2, 102-125.	0.4	3
312	Integration of GIS and Optimization Routines for the Vehicle Routing Problem. International Journal of Chaos Control Modelling and Simulation, 2013, 2, 9-17.	0.1	4
313	Unsupervised Cardiac Image Segmentation via Multiswarm Active Contours with a Shape Prior. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-10.	0.7	4
314	Bare-Bones Teaching-Learning-Based Optimization. Scientific World Journal, The, 2014, 2014, 1-17.	0.8	21
315	On Optimal Frequencies for Reconstruction of a One-Dimensional Profile of Gradient Layer's Refractive Index. International Journal of Optics, 2014, 2014, 1-7.	0.6	1
316	Particle swarm convergence: An empirical investigation. , 2014, , .		42
317	Kernel K-means clustering optimized by bare bones differential evolution algorithm. , 2014, , .		2
318	A simple vector control technique for 3-phase induction motor under open-phase fault based on GA for tuning of speed PI controller. , 2014, , .		8
319	SPSO 2011. , 2014, , .		14
320	Convergence and stochastic stability analysis of particle swarm optimization variants with generic parameter distributions. Applied Mathematics and Computation, 2014, 249, 286-302.	1.4	33
321	Design an intelligent proportional-derivative (PD) feedback linearization control for nonholonomic-wheeled mobile robot. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1833-1843.	0.8	42
322	A Family Particle Swarm Optimization Based on the Animal Collective Behavior. Applied Mechanics and Materials, 0, 513-517, 2439-2443.	0.2	1
323	Information-Applied Technology with Nonlinear System Modeling Method of Elman Network Based on Particle Swarm Optimization. Advanced Materials Research, 0, 952, 307-310.	0.3	0
324	A Novel Gas Turbine Engine Health Status Estimation Method Using Quantum-Behaved Particle Swarm Optimization. Mathematical Problems in Engineering, 2014, 2014, 1-11.	0.6	7
325	Particle swarm optimization based distributed agreement in multi-agent dynamic systems. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
326	Multi-objective cloud estimation of distribution particle swarm optimizer using maximum ranking. , 2014, , .		0
327	Gathering algorithm: A new concept of PSO based metaheuristic with dimensional mutation. , 2014, , .		1
328	Consensus analysis for a class of stochastic PSO algorithm. Applied Soft Computing Journal, 2014, 23, 567-578.	4.1	13
329	An improved particle swarm optimization method based on chaos. , 2014, , .		0
330	A new joint spectral radius analysis of random PSO algorithm. International Journal of Computational Intelligence Systems, 2014, 7, 1022-1043.	1.6	3
331	Applications of computational intelligence to mechanical engineering. , 2014, , .		7
332	A new simple, fast and efficient algorithm for global optimization over continuous search-space problems: Radial Movement Optimization. Applied Mathematics and Computation, 2014, 248, 287-300.	1.4	59
333	Characterising the searchability of continuous optimisation problems for PSO. Swarm Intelligence, 2014, 8, 275-302.	1.3	34
334	Extruded AA6061 alloy matrix composites: The performance of multi-strategies to extend the searching area of the optimization algorithm. Journal of Composite Materials, 2014, 48, 1927-1937.	1.2	13
335	Particle Swarm Convergence: Standardized Analysis and Topological Influence. Lecture Notes in Computer Science, 2014, , 134-145.	1.0	14
337	FPGA realization of Particle Swarm Optimization algorithm using floating point arithmetic. , 2014, , .		7
338	Asynchronous particle swarm optimization with discrete crossover. , 2014, , .		3
339	Enhancing scalability and accuracy of recommendation systems using unsupervised learning and particle swarm optimization. Applied Soft Computing Journal, 2014, 15, 21-29.	4.1	39
340	CAPSO: Centripetal accelerated particle swarm optimization. Information Sciences, 2014, 258, 54-79.	4.0	78
341	Optimum mechanical behavior of calcium phosphate cement/hydroxyl group functionalized multi-walled carbon nanotubes/bovine serum albumin composite using metaheuristic algorithms. Neural Computing and Applications, 2014, 24, 193-200.	3.2	1
342	Searching for a novel optimization strategy in tensile and fatigue properties of alumina particulates reinforced aluminum matrix composite. Engineering With Computers, 2014, 30, 559-568.	3.5	13
343	Generation of suprasegmental information for speech using a recurrent neural network and binary gravitational search algorithm for feature selection. Applied Intelligence, 2014, 40, 772-790.	3.3	11
344	An analysis of the velocity updating rule of the particle swarm optimization algorithm. Journal of Heuristics, 2014, 20, 417-452.	1.1	51

#	ARTICLE	IF	CITATIONS
345	A generalized theoretical deterministic particle swarm model. <i>Swarm Intelligence</i> , 2014, 8, 35-59.	1.3	81
346	An adaptive particle swarm optimization algorithm for reservoir operation optimization. <i>Applied Soft Computing Journal</i> , 2014, 18, 167-177.	4.1	80
347	Optimal cascade hydraulic control for a parallel robot platform by PSO. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 72, 1085-1098.	1.5	70
348	Chaotic swarming of particles: A new method for size optimization of truss structures. <i>Advances in Engineering Software</i> , 2014, 67, 136-147.	1.8	133
349	A hybrid noise suppression filter for accuracy enhancement of commercial speech recognizers in varying noisy conditions. <i>Applied Soft Computing Journal</i> , 2014, 14, 132-139.	4.1	1
350	Artificial neural network and particle swarm optimization for removal of methyl orange by gold nanoparticles loaded on activated carbon and Tamarisk. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 639-654.	2.0	69
351	A robust and simple optimal type II fuzzy sliding mode control strategy for a class of nonlinear chaotic systems. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014, 27, 1849-1859.	0.8	16
352	An analysis of the migration rates for biogeography-based optimization. <i>Information Sciences</i> , 2014, 254, 111-140.	4.0	51
353	A granulation of linguistic information in AHP decision-making problems. <i>Information Fusion</i> , 2014, 17, 93-101.	11.7	90
354	A two-swarm cooperative particle swarms optimization. <i>Swarm and Evolutionary Computation</i> , 2014, 15, 1-18.	4.5	64
355	Grey Wolf Optimizer. <i>Advances in Engineering Software</i> , 2014, 69, 46-61.	1.8	11,382
356	An optimal type II fuzzy sliding mode control design for a class of nonlinear systems. <i>Nonlinear Dynamics</i> , 2014, 75, 73-83.	2.7	46
357	A hybrid intelligent system for diagnosing microalbuminuria in type 2 diabetes patients without having to measure urinary albumin. <i>Computers in Biology and Medicine</i> , 2014, 45, 34-42.	3.9	35
358	Chaotic particle swarm optimization algorithm based on adaptive inertia weight. , 2014, , .		12
359	An incremental-PID-controlled particle swarm optimization algorithm for EEG-data-based estimation of operator functional state. <i>Biomedical Signal Processing and Control</i> , 2014, 14, 272-284.	3.5	10
360	Searching for the superior solution to the population-based optimization problem: Processing of the wear resistant commercial AA6061 AMCs. <i>International Journal of Damage Mechanics</i> , 2014, 23, 899-916.	2.4	20
361	A Particle Swarm Optimization Algorithm with Variable Random Functions and Mutation. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2014, 40, 1339-1347.	1.5	11
362	Particle swarm optimization. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
363	OptiFel: A Convergent Heterogeneous Particle Swarm Optimization Algorithm for Takagi-Sugeno Fuzzy Modeling. IEEE Transactions on Fuzzy Systems, 2014, 22, 919-933.	6.5	94
364	Particle Swarm Optimization. , 2014, , 99-110.		19
365	A locally convergent rotationally invariant particle swarm optimization algorithm. Swarm Intelligence, 2014, 8, 159-198.	1.3	64
366	Black Hole: A New Operator for Gravitational Search Algorithm. International Journal of Computational Intelligence Systems, 2014, 7, 809.	1.6	41
367	Probabilistic opposition-based particle swarm optimization with velocity clamping. Knowledge and Information Systems, 2014, 39, 703-737.	2.1	31
368	Image deblurring for navigation systems of vision impaired people using sensor fusion data. , 2014, , .		0
369	Refined particle swarm intelligence method for abrupt motion tracking. Information Sciences, 2014, 283, 267-287.	4.0	17
370	History matching with iterative Latin hypercube samplings and parameterization of reservoir heterogeneity. Journal of Petroleum Science and Engineering, 2014, 114, 61-73.	2.1	22
371	Design of Optimal Self-Regulation Mamdani-Type Fuzzy Inference Controller for Type I Diabetes Mellitus. Arabian Journal for Science and Engineering, 2014, 39, 977-986.	1.1	26
372	Image deblurring using a hybrid optimization algorithm. , 2014, , .		2
373	Bidirectional teaching and peer-learning particle swarm optimization. Information Sciences, 2014, 280, 111-134.	4.0	35
374	Democratic PSO for truss layout and size optimization with frequency constraints. Computers and Structures, 2014, 130, 10-21.	2.4	170
375	Behavioral analysis of the leader particle during stagnation in a particle swarm optimization algorithm. Information Sciences, 2014, 279, 18-36.	4.0	15
376	A hybrid particle swarm with a time-adaptive topology for constrained optimization. Swarm and Evolutionary Computation, 2014, 18, 22-37.	4.5	40
377	Application of imperialist competitive algorithm with its modified techniques for multi-objective optimal power flow problem: A comparative study. Information Sciences, 2014, 281, 225-247.	4.0	76
378	DEVELOPMENT OF METAHEURISTIC OPTIMIZATION METHODS FOR OPERATING ENERGY SYSTEMS INCLUDING RESIDUAL BATTERY AND THERMAL STORAGE TANK. Journal of Environmental Engineering (Japan), 2014, 79, 957-966.	0.1	1
379	A fast FIC using visual-based CPSO. , 2014, , .		0
380	An optimizer using swarm of chaotic dynamical particles. Nonlinear Theory and Its Applications IEICE, 2015, 6, 112-130.	0.4	17

#	ARTICLE	IF	CITATIONS
381	Particle swarm optimization with switched topology. Nonlinear Theory and Its Applications IEICE, 2015, 6, 181-193.	0.4	7
382	A new fuzzy particle swarm optimization based on population diversity. Journal of Intelligent and Fuzzy Systems, 2015, 29, 135-147.	0.8	5
383	A novel technique for current prediction in 33 kV substation. , 2015, , .		1
384	Multi-objective particle swarm optimization with preference information and its application in electric arc furnace steelmaking process. Structural and Multidisciplinary Optimization, 2015, 52, 1013-1022.	1.7	2
385	Premature convergence of standard particle swarm optimisation algorithm based on Markov chain analysis. International Journal of Wireless and Mobile Computing, 2015, 9, 377.	0.1	13
386	Bull optimization algorithm based on genetic operators for continuous optimization problems. Turkish Journal of Electrical Engineering and Computer Sciences, 2015, 23, 2225-2239.	0.9	15
387	Pareto optimal mapping for tile-based network-on-chip under reliability constraints. International Journal of Computer Mathematics, 2015, 92, 41-58.	1.0	6
388	A HYBRID GENETIC ALGORITHM AND GRAVITATIONAL SEARCH ALGORITHM FOR GLOBAL OPTIMIZATION. Neural Network World, 2015, 25, 53-73.	0.5	20
389	An improved PSO algorithm based on particle exploration for function optimization and the modeling of chaotic systems. Soft Computing, 2015, 19, 3071-3081.	2.1	12
390	Application of the combined neuro-computing, fuzzy logic and swarm intelligence for optimization of compocast nanocomposites. Journal of Composite Materials, 2015, 49, 1653-1663.	1.2	58
391	Particle swarm algorithm with adaptive constraint handling and integrated surrogate model for the management of petroleum fields. Applied Soft Computing Journal, 2015, 34, 463-484.	4.1	19
392	Locating Potentially Disjoint Feasible Regions of a Search Space with a Particle Swarm Optimizer. Infosys Science Foundation Series, 2015, , 205-230.	0.3	3
393	Particle swarm variants: standardized convergence analysis. Swarm Intelligence, 2015, 9, 177-203.	1.3	45
394	Gradient gravitational search: An efficient metaheuristic algorithm for global optimization. Journal of Computational Chemistry, 2015, 36, 1060-1068.	1.5	18
395	Frequency Distribution of Candidate Solutions in Angle Modulated Particle Swarms. , 2015, , .		1
396	Meta-heuristics in multidimensional systems stability study. , 2015, , .		0
397	An improved differential evolution for parameter optimisation. International Journal of Wireless and Mobile Computing, 2015, 8, 394.	0.1	7
399	Fully informed particle swarm optimizer: Convergence analysis. , 2015, , .		17

#	ARTICLE	IF	CITATIONS
400	An Improved Particle Swarm Optimization via Velocity-Based Reinitialization for Feature Selection. Communications in Computer and Information Science, 2015, , 3-12.	0.4	2
401	Influence of the archive size on the performance of the dynamic vector evaluated particle swarm optimisation algorithm solving dynamic multi-objective optimisation problems. , 2015, , .		2
402	A basic consideration of an optimizer based on piecewise rotational chaos system. , 2015, , .		0
403	Constraint Handling Methods for Portfolio Optimization Using Particle Swarm Optimization. , 2015, , .		3
404	A robust parallel algorithm of the particle swarm optimization method for large dimensional engineering problems. Applied Mathematical Modelling, 2015, 39, 4223-4241.	2.2	25
405	Solving optimal reactive power dispatch problem using a novel teachingâ€“learning-based optimization algorithm. Engineering Applications of Artificial Intelligence, 2015, 39, 100-108.	4.3	102
406	Order-2 Stability Analysis of Particle Swarm Optimization. Evolutionary Computation, 2015, 23, 187-216.	2.3	75
407	Automatically Terminated Particle Swarm Optimization with Principal Component Analysis. International Journal of Information Technology and Decision Making, 2015, 14, 171-194.	2.3	4
408	The Ant Lion Optimizer. Advances in Engineering Software, 2015, 83, 80-98.	1.8	2,392
409	Optimizing parameters of support vector machines using team-search-based particle swarm optimization. Engineering Computations, 2015, 32, 1194-1213.	0.7	12
411	Globally Convergent Hybridization of Particle Swarm Optimization Using Line Search-Based Derivative-Free Techniques. Studies in Computational Intelligence, 2015, , 25-47.	0.7	12
412	The Effect of Quantum and Charged Particles on the Performance of the Dynamic Vector-evaluated Particle Swarm Optimisation Algorithm. , 2015, , .		0
413	Optimal drug infusion profiles using a Particle Swarm Optimization algorithm. Computers and Chemical Engineering, 2015, 82, 13-24.	2.0	6
414	Modeling nonlinear dynamic biological systems with human-readable fuzzy rules optimized by convergent heterogeneous particle swarm. European Journal of Operational Research, 2015, 247, 349-358.	3.5	9
415	Moth-flame optimization algorithm: A novel nature-inspired heuristic paradigm. Knowledge-Based Systems, 2015, 89, 228-249.	4.0	3,142
416	Particle Swarm Optimization. , 2015, , .		6
417	Structural bias in population-based algorithms. Information Sciences, 2015, 298, 468-490.	4.0	64
418	Refined microstructure of compo cast nanocomposites: the performance of combined neuro-computing, fuzzy logic and particle swarm techniques. Neural Computing and Applications, 2015, 26, 899-909.	3.2	55

#	ARTICLE	IF	CITATIONS
419	Metaheuristic optimization methods for a comprehensive operating schedule of battery, thermal energy storage, and heat source in a building energy system. <i>Applied Energy</i> , 2015, 151, 192-205.	5.1	61
420	Optimization of a Transit Services Model with a Feeder Bus and Rail System Using Metaheuristic Algorithms. <i>Journal of Computing in Civil Engineering</i> , 2015, 29, .	2.5	21
421	A Network Behavior-Based Botnet Detection Mechanism Using PSO and K-means. <i>ACM Transactions on Management Information Systems</i> , 2015, 6, 1-30.	2.1	33
422	Random drift particle swarm optimization algorithm: convergence analysis and parameter selection. <i>Machine Learning</i> , 2015, 101, 345-376.	3.4	64
423	Fuzzy logic in the gravitational search algorithm enhanced using fuzzy logic with dynamic alpha parameter value adaptation for the optimization of modular neural networks in echocardiogram recognition. <i>Applied Soft Computing Journal</i> , 2015, 37, 245-254.	4.1	34
424	Optimal cloud storage problem in the distributed cloud data centers by the discrete PSO algorithm. , 2015, , .		7
425	An Advanced Approach for Construction of Optimal Wind Power Prediction Intervals. <i>IEEE Transactions on Power Systems</i> , 2015, 30, 2706-2715.	4.6	70
426	Input-to-State Stability Analysis on Particle Swarm Optimization. , 2015, , .		4
427	Nature Inspired Computing: An Overview and Some Future Directions. <i>Cognitive Computation</i> , 2015, 7, 706-714.	3.6	170
428	On robust and optimal imperfect information state equipartitioning for network systems. <i>Journal of the Franklin Institute</i> , 2015, 352, 3410-3446.	1.9	1
429	Design of optimal Mamdani-type fuzzy controller for nonholonomic wheeled mobile robots. <i>Journal of King Saud University, Engineering Sciences</i> , 2015, 27, 92-100.	1.2	39
430	Diversity enhanced and local search accelerated gravitational search algorithm for data fitting with B-splines. <i>Engineering With Computers</i> , 2015, 31, 215-236.	3.5	6
431	A hybrid artificial neural network and particle swarm optimization for prediction of removal of hazardous dye brilliant green from aqueous solution using zinc sulfide nanoparticle loaded on activated carbon. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 1004-1015.	2.0	118
432	A study on visual sensor network cross-layer resource allocation using quality-based criteria and metaheuristic optimization algorithms. <i>Applied Soft Computing Journal</i> , 2015, 26, 149-165.	4.1	9
433	DPSO based on a min-max approach and clamping strategy for the evacuation vehicle assignment problem. <i>Neurocomputing</i> , 2015, 148, 30-38.	3.5	13
434	Feature selection algorithm based on bare bones particle swarm optimization. <i>Neurocomputing</i> , 2015, 148, 150-157.	3.5	208
435	Multi-objective optimal electric power planning in the power system using Gaussian bare-bones imperialist competitive algorithm. <i>Information Sciences</i> , 2015, 294, 286-304.	4.0	94
436	Robust Kalman filter based on a fuzzy GARCH model to forecast volatility using particle swarm optimization. <i>Soft Computing</i> , 2015, 19, 2861-2869.	2.1	10

#	ARTICLE	IF	CITATIONS
437	Modeling and rotor field-oriented control of a faulty three-phase induction motor based on GSA for tuning of PI controllers. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 2084-2105.	0.9	5
438	Cognitive Bare Bones Particle Swarm Optimisation with Jumps. International Journal of Swarm Intelligence Research, 2016, 7, 1-31.	0.5	7
439	Preliminary research on abnormal brain detection by wavelet-energy and quantum- behaved PSO. Technology and Health Care, 2016, 24, S641-S649.	0.5	42
440	Interval type-2 fuzzy logic gravitational search algorithm for the optimization of modular neural networks in echocardiogram recognition. , 2016, , .		2
441	Comparing selected PSO modifications on CEC 15 benchmark set. , 2016, , .		2
442	Swarm Intelligence Algorithm for Job Scheduling in Computational Grid. , 2016, , .		1
443	Probabilistic forecasting of traffic flow using kernel based extreme learning maching and quantum-bahaved particle swarm optimization. , 2016, , .		1
444	Complex network analysis in PSO as an fitness landscape classifier. , 2016, , .		6
445	Hybridizing Particle Swarm Optimization and Differential Evolution for the Mobile Robot Global Path Planning. International Journal of Advanced Robotic Systems, 2016, 13, 86.	1.3	41
446	The pair-wise LSB matching steganography with a discrete quantum behaved Gravitational Search Algorithm. Journal of Intelligent and Fuzzy Systems, 2016, 30, 1547-1556.	0.8	3
447	Unified particle swarm optimizer: Convergence analysis. , 2016, , .		6
448	New modified bare-bones particle swarm optimization. , 2016, , .		5
449	Similarity between existing position updating formulas and a unified and simplified formula in Particle Swarm Optimization. , 2016, , .		2
450	Bare-Bone Particle Swarm Optimisation for Simultaneously Discretising and Selecting Features for High-Dimensional Classification. Lecture Notes in Computer Science, 2016, , 701-718.	1.0	16
451	Topology selection for particle swarm optimization. Information Sciences, 2016, 363, 154-173.	4.0	74
452	A Nonlinear Model Predictive Controller With Multiagent Online Optimizer for Automotive Cold-Start Hydrocarbon Emission Reduction. IEEE Transactions on Vehicular Technology, 2016, 65, 4548-4563.	3.9	18
453	Trajectory optimization of multiple quad-rotor UAVs in collaborative assembling task. Chinese Journal of Aeronautics, 2016, 29, 184-201.	2.8	26
454	An improved CPSO algorithm. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
455	A comparative analysis of chaotic particle swarm optimizations for detecting single nucleotide polymorphism barcodes. <i>Artificial Intelligence in Medicine</i> , 2016, 73, 23-33.	3.8	23
456	Using Mutual Information to Build Dynamic Neighbourhoods for Particle Swarm Optimisation. , 2016, , .		2
457	Gravitational swarm optimizer for global optimization. <i>Swarm and Evolutionary Computation</i> , 2016, 31, 64-89.	4.5	31
458	Design of FIR Digital Filter with Two Dimensions Using Particle Swarm Optimization. <i>International Journal of Computational Intelligence and Applications</i> , 2016, 15, 1650018.	0.6	0
459	Particle Swarm Optimization. , 2016, , 153-173.		88
460	Application techniques of multi-objective particle swarm optimization: Aircraft flight control. , 2016, , .		5
461	Three powerful nature-inspired algorithms to optimize power flow in Algeria's Adrar power system. <i>Energy</i> , 2016, 116, 1117-1130.	4.5	21
462	Creating Complex Networks Using Multi-swarm PSO. , 2016, , .		1
463	Inertia weight control strategies for particle swarm optimization. <i>Swarm Intelligence</i> , 2016, 10, 267-305.	1.3	68
464	A novel particle swarm optimization algorithm for non-separable and ill-conditioned problems. , 2016, , .		7
465	Research on multi-tag anti-collision algorithm based on UWB real-time positioning system. , 2016, , .		1
466	Predictive compression of animated 3D models by optimized weighted blending of keyframes. <i>Computer Animation and Virtual Worlds</i> , 2016, 27, 556-576.	0.7	6
467	Object Detection and Tracking. , 2016, , 97-156.		1
468	Production strategy optimization based on iterative discrete Latin hypercube. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 2473-2480.	0.8	22
469	Multi-objective optimization of quarter car passive suspension design in the frequency domain based on PSO. <i>Engineering Computations</i> , 2016, 33, 1422-1434.	0.7	11
470	Li-ion battery dynamics model parameter estimation using datasheets and particle swarm optimization. <i>International Journal of Energy Research</i> , 2016, 40, 1050-1061.	2.2	18
471	Constant optimization of oral drug absorption kinetics in the compartment absorption and transit models using particle swarm optimization algorithm. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 31, 012007.	0.2	0
473	Gaussian bare-bones artificial bee colony algorithm. <i>Soft Computing</i> , 2016, 20, 907-924.	2.1	69

#	ARTICLE	IF	CITATIONS
474	ODMA: a novel swarm-evolutionary metaheuristic optimizer inspired by open source development model and communities. <i>Soft Computing</i> , 2016, 20, 727-747.	2.1	16
475	Dragonfly algorithm: a new meta-heuristic optimization technique for solving single-objective, discrete, and multi-objective problems. <i>Neural Computing and Applications</i> , 2016, 27, 1053-1073.	3.2	1,937
476	Convergence proof of an enhanced Particle Swarm Optimisation method integrated with Evolutionary Game Theory. <i>Information Sciences</i> , 2016, 346-347, 389-411.	4.0	27
477	Particle swarm optimization with crossover: a review and empirical analysis. <i>Artificial Intelligence Review</i> , 2016, 45, 131-165.	9.7	56
478	A shrinking hypersphere PSO for engineering optimisation problems. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2016, 28, 1-33.	1.8	7
479	Stability Analysis of the Particle Swarm Optimization Without Stagnation Assumption. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, 20, 814-819.	7.5	73
480	The Whale Optimization Algorithm. <i>Advances in Engineering Software</i> , 2016, 95, 51-67.	1.8	8,099
481	An Analysis of the Inertia Weight Parameter for Binary Particle Swarm Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, 20, 666-681.	7.5	97
482	Application of time series analysis and PSOâ€“SVM model in predicting the Bazimen landslide in the Three Gorges Reservoir, China. <i>Engineering Geology</i> , 2016, 204, 108-120.	2.9	249
484	Joint Quality Enhancement and Power Control for Wireless Visual Sensor Networks based on the Nash Bargaining Solution. , 2016, 50, 203-217.		6
485	Short-term time series algebraic forecasting with mixed smoothing. <i>Neurocomputing</i> , 2016, 171, 854-865.	3.5	15
486	Multi-objective grey wolf optimizer: A novel algorithm for multi-criterion optimization. <i>Expert Systems With Applications</i> , 2016, 47, 106-119.	4.4	1,080
487	Instance variant nearest neighbor using particle swarm optimization for function approximation. <i>Applied Soft Computing Journal</i> , 2016, 40, 331-341.	4.1	16
488	Simple and facile sonochemical synthesis of lead oxide nanoparticles loaded activated carbon and its application for methyl orange removal from aqueous phase. <i>Journal of Molecular Liquids</i> , 2016, 213, 48-57.	2.3	28
489	Analysis of Stability, Local Convergence, and Transformation Sensitivity of a Variant of the Particle Swarm Optimization Algorithm. <i>IEEE Transactions on Evolutionary Computation</i> , 2016, 20, 370-385.	7.5	113
490	A new meta-heuristic ebb-tide-fish-inspired algorithm for traffic navigation. <i>Telecommunication Systems</i> , 2016, 62, 403-415.	1.6	26
491	Modified central force optimization (MCFO) algorithm for 3D UAV path planning. <i>Neurocomputing</i> , 2016, 171, 878-888.	3.5	90
492	Fractional Order Darwinian Particle Swarm Optimization. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2016, , .	0.2	33

#	ARTICLE	IF	CITATIONS
493	A novel PSO algorithm based on an incremental-PID-controlled search strategy. <i>Soft Computing</i> , 2016, 20, 991-1005.	2.1	9
494	Intrusive tumor growth inspired optimization algorithm for data clustering. <i>Neural Computing and Applications</i> , 2016, 27, 349-374.	3.2	11
495	Multi-Verse Optimizer: a nature-inspired algorithm for global optimization. <i>Neural Computing and Applications</i> , 2016, 27, 495-513.	3.2	1,910
496	Design of Fuzzy Cognitive Maps for Modeling Time Series. <i>IEEE Transactions on Fuzzy Systems</i> , 2016, 24, 120-130.	6.5	76
497	Particle Swarm Optimization for Single Objective Continuous Space Problems: A Review. <i>Evolutionary Computation</i> , 2017, 25, 1-54.	2.3	517
498	Combining inertia and constriction technique in the PSO applied to fault identification in a hydraulic system. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 2730-2740.	1.1	4
499	An effective fireworks algorithm for warehouse-scheduling problem. <i>Transactions of the Institute of Measurement and Control</i> , 2017, 39, 75-85.	1.1	22
500	Hyperconic Multilayer Perceptron. <i>Neural Processing Letters</i> , 2017, 45, 29-58.	2.0	8
501	Gain scheduled linear quadratic tracking system tuned optimally by covariance matrix adaption evolutionary strategy for automotive engine coldstart control. <i>International Journal of Automotive Technology</i> , 2017, 18, 195-207.	0.7	0
502	Deadlock-free migration for virtual machine consolidation using Chicken Swarm Optimization algorithm. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 32, 1389-1400.	0.8	17
503	Hybrid nero-fuzzy methods for estimation of ultrasound and mechanically stirring Influences on biodiesel synthesis through transesterification. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 103, 62-76.	2.5	12
504	Adaptive intelligent techniques for microgrid control systems: A survey. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 90, 292-305.	3.3	110
505	Evolutionary multi-objective fault diagnosis of power transformers. <i>Swarm and Evolutionary Computation</i> , 2017, 36, 62-75.	4.5	62
506	Applicability and calibration of an irregular cellular automata model for land use change. <i>Computers, Environment and Urban Systems</i> , 2017, 65, 93-102.	3.3	28
507	H3AD: A hybrid hyper-heuristic for algorithm design. <i>Information Sciences</i> , 2017, 414, 340-354.	4.0	23
508	Crowd-structure interaction: Investigating the spatiality and synchronization of a pedestrian force model. <i>Journal of Constructional Steel Research</i> , 2017, 133, 510-521.	1.7	8
509	Integrated Business Prestige and Artificial Intelligence for Corporate Decision Making in Dynamic Environments. <i>Cybernetics and Systems</i> , 2017, 48, 303-324.	1.6	10
510	Multi-stage Frequency Control of a Microgrid in the Presence of Renewable Energy Units. <i>Electric Power Components and Systems</i> , 2017, 45, 159-170.	1.0	13

#	ARTICLE	IF	CITATIONS
511	A multi-objective optimization algorithm for solving the supplier selection problem with assembly sequence planning and assembly line balancing. Computers and Industrial Engineering, 2017, 105, 247-259.	3.4	24
512	A site selection method of DNS using the particle swarm optimization algorithm. Transactions in GIS, 2017, 21, 969-983.	1.0	3
513	The Gravitational Search Algorithm in Antiresonance Layer Optimization of Laminated Composite Plates. International Journal of Computational Methods, 2017, 14, 1750070.	0.8	3
514	A novel APSO-aided weighted LSSVM method for nonlinear hammerstein system identification. Journal of the Franklin Institute, 2017, 354, 1892-1906.	1.9	21
515	A novel artificial bee colony based on Gaussian sampling. Journal of Discrete Mathematical Sciences and Cryptography, 2017, 20, 957-970.	0.5	2
516	Task Scheduling Optimization on Enterprise Application Integration Platforms Based on the Meta-heuristic Particle Swarm Optimization. , 2017, , .		2
517	Opposition based Laplacian Ant Lion Optimizer. Journal of Computational Science, 2017, 23, 71-90.	1.5	58
519	Fitness-distance-ratio particle swarm optimization. , 2017, , .		6
520	A new developed approach for the prediction of ground vibration using a hybrid PSO-optimized ANFIS-based model. Environmental Earth Sciences, 2017, 76, 1.	1.3	79
521	Estimating stop conditions of swarm based stochastic metaheuristic algorithms. , 2017, , .		1
522	Information sciences 1968â€“2016: A retrospective analysis with text mining and bibliometric. Information Sciences, 2017, 418-419, 619-634.	4.0	163
523	Free Vibration, Buckling and Design Optimisation of Composite Pressure Hulls. Materials Today: Proceedings, 2017, 4, 7381-7387.	0.9	3
524	Optimal parameter regions for particle swarm optimization algorithms. , 2017, , .		15
525	Modeling, analysis and simulation on searching for global optimum region of particle swarm optimization. , 2017, , .		1
526	Convergence criteria for the particle swarm optimization in a full iterative process. , 2017, , .		2
527	Characterising neutrality in neural network error landscapes. , 2017, , .		12
528	Heuristics for Portfolio Selection. Profiles in Operations Research, 2017, , 225-253.	0.3	1
529	Hybrid particle swarm optimization for first-order reliability method. Computers and Geotechnics, 2017, 81, 49-58.	2.3	33

#	ARTICLE	IF	CITATIONS
530	Structural optimization of downhole oil-water separator. Journal of Petroleum Science and Engineering, 2017, 148, 115-126.	2.1	12
531	Optimal power flow using moth swarm algorithm. Electric Power Systems Research, 2017, 142, 190-206.	2.1	374
532	Improved global-best-guided particle swarm optimization with learning operation for global optimization problems. Applied Soft Computing Journal, 2017, 52, 987-1008.	4.1	45
533	Meta-modeling using generalized regression neural network and particle swarm optimization. Applied Soft Computing Journal, 2017, 51, 354-369.	4.1	28
534	An Improved Particle Swarm Optimization Algorithm with Repair Procedure. Advances in Intelligent Systems and Computing, 2017, , 1-16.	0.5	4
535	Adapting sentiment analysis system from English to Slovak. , 2017, , .		3
536	An adaptive particle swarm optimization algorithm based on optimal parameter regions. , 2017, , .		15
537	Using simplified swarm optimization on path planning for intelligent mobile robot. Procedia Computer Science, 2017, 120, 83-90.	1.2	25
538	A novel algorithm for real-time framework in multiprocessor environment. Design Automation for Embedded Systems, 2017, 21, 213-229.	0.7	0
539	An Improved Particle Swarm Optimization Algorithm Based on Fuzzy PID Control. , 2017, , .		6
540	Inertia weight control strategies: Particle roaming behavior. , 2017, , .		1
541	On the impact of cognitive factor in PSO " Testing on selected functions from CEC 15 benchmark. AIP Conference Proceedings, 2017, , .	0.3	0
542	A study on efficient motion design for redundantly actuated parallel kinematic manipulators. , 2017, , .		0
543	Particle Swarm Optimization Algorithm Based on Robust Control of Random Discrete Systems. , 2017, , .		0
544	GPU-based coevolutionary particle swarm optimization. , 2017, , .		0
545	Exploring the shortest path in PSO communication network. , 2017, , .		4
546	How chaotic sequences and generator sequencing affect the particle trajectory in PSO. , 2017, , .		0
547	Grey wolf optimisation for inversion of layered earth geophysical datasets. Near Surface Geophysics, 2017, 15, 499-513.	0.6	12

#	ARTICLE	IF	CITATIONS
548	Performance Improvement of Tea Industry with Multi Objective Particle Swarm Optimisation. , 2017, , .		0
549	A New Method for Single-Epoch Ambiguity Resolution with Indoor Pseudolite Positioning. Sensors, 2017, 17, 921.	2.1	27
550	Smart Microgrid Energy Management Using a Novel Artificial Shark Optimization. Complexity, 2017, 2017, 1-22.	0.9	52
551	A Study on the Convergence of Family Particle Swarm Optimization. Mathematical Problems in Engineering, 2017, 2017, 1-14.	0.6	1
552	A Hybrid Method for Truss Mass Minimization considering Uncertainties. Mathematical Problems in Engineering, 2017, 2017, 1-14.	0.6	1
553	Landslide displacement prediction using the GA-LSSVM model and time series analysis: a case study of Three Gorges Reservoir, China. Natural Hazards and Earth System Sciences, 2017, 17, 2181-2198.	1.5	52
554	Probabilistic Forecasting of Traffic Flow Using Multikernel Based Extreme Learning Machine. Scientific Programming, 2017, 2017, 1-12.	0.5	4
555	The Convergence of Particle Swarm with a Unified and Simplified Formula for Position Updating. , 2017, , .		0
556	Multiple flight vehicles trajectory global optimization based on improved natural running process algorithm. , 2017, , .		1
557	Effect on Convergence from Different Particle Swarms with a Unified and Simplified Formula for Position Updating. , 2017, , .		2
558	Sustainable Land-Use Allocation: A Multiobjective Particle Swarm Optimization Model and Application in Changzhou, China. Journal of the Urban Planning and Development Division, ASCE, 2018, 144, .	0.8	30
559	Single-Agent Finite Impulse Response Optimizer for Numerical Optimization Problems. IEEE Access, 2018, 6, 9358-9374.	2.6	15
560	A new effective operator for the hybrid algorithm for solving global optimisation problems. International Journal of Systems Science, 2018, 49, 1088-1102.	3.7	2
561	Reprint of: On convergence analysis of particle swarm optimization algorithm. Journal of Computational and Applied Mathematics, 2018, 340, 709-717.	1.1	28
562	A parallel competitive Particle Swarm Optimization for non-linear first arrival traveltime tomography and uncertainty quantification. Computers and Geosciences, 2018, 113, 81-93.	2.0	28
563	Path tracking controller of an autonomous armoured vehicle using modified Stanley controller optimized with particle swarm optimization. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	25
564	Offshore wind farm layout optimization using particle swarm optimization. Journal of Ocean Engineering and Marine Energy, 2018, 4, 73-88.	0.9	27
565	PSO Method for Fitting Analytic Potential Energy Functions. Application to H <sub>2</sub> O. Journal of Chemical Theory and Computation, 2018, 14, 1321-1332.	2.3	5

#	ARTICLE	IF	CITATIONS
566	Some remarks on the deterministic particle swarm optimization algorithm. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 1870-1875.	1.2	1
567	Optimal parameter regions and the time-dependence of control parameter values for the particle swarm optimization algorithm. <i>Swarm and Evolutionary Computation</i> , 2018, 41, 20-35.	4.5	42
568	Investigation for obtaining the optimal solution for improving the performance of WEDM of super alloy Udimet-L605 using particle swarm optimization. <i>Engineering Science and Technology, an International Journal</i> , 2018, 21, 261-273.	2.0	26
569	An advanced approach for optimal wind power generation prediction intervals by using self-adaptive evolutionary extreme learning machine. <i>Renewable Energy</i> , 2018, 126, 254-269.	4.3	77
570	Particle swarm optimization algorithm: an overview. <i>Soft Computing</i> , 2018, 22, 387-408.	2.1	1,235
571	An evolutionary algorithm using spherical inversions. <i>Soft Computing</i> , 2018, 22, 1993-2014.	2.1	5
572	Convergence analysis of standard particle swarm optimization algorithm and its improvement. <i>Soft Computing</i> , 2018, 22, 4047-4070.	2.1	21
573	A New Representation in PSO for Discretization-Based Feature Selection. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1733-1746.	6.2	134
574	On convergence analysis of particle swarm optimization algorithm. <i>Journal of Computational and Applied Mathematics</i> , 2018, 333, 65-73.	1.1	48
575	Hybrid non-parametric particle swarm optimization and its stability analysis. <i>Expert Systems With Applications</i> , 2018, 92, 256-275.	4.4	16
576	Particle swarm stability: a theoretical extension using the non-stagnate distribution assumption. <i>Swarm Intelligence</i> , 2018, 12, 1-22.	1.3	69
577	A fuzzy $\hat{1}\pm$ -cut optimization analysis for vibration control of laminated composite smart structures under uncertainties. <i>Applied Mathematical Modelling</i> , 2018, 54, 551-566.	2.2	13
578	Self-adaptive particle swarm optimization: a review and analysis of convergence. <i>Swarm Intelligence</i> , 2018, 12, 187-226.	1.3	94
579	Adaptive Neuro-Fuzzy Sliding Mode Controller. <i>International Journal of System Dynamics Applications</i> , 2018, 7, 34-54.	0.3	11
580	A Dynamic Hysteresis Model for MR Dampers Based on Particle Swarm Optimization. , 2018, , .		1
581	Efficient Linear Array Synthesis Including Coupling Effects Utilizing Quantum Search Algorithm and Active Element Pattern. , 2018, , .		0
582	Why Simple Population Restart Does Not Work in PSO. , 2018, , .		2
583	The Comparing Analysis of Drosophila Optimization and Gravitational Search Algorithm. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
584	A Simulation Study of Parallel Particle Swarm Optimization Algorithm for Proportional Integral Derivative Controller Tuning. , 2018, , .		0
585	Combining Grey Relational Analysis and a Bayesian Model Averaging Method to Derive Monthly Optimal Operating Rules for a Hydropower Reservoir. Water (Switzerland), 2018, 10, 1099.	1.2	11
586	Dynamic analysis and structure optimization of a floating ring system in dry gas seal. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0128-JAMDSM0128.	0.3	1
587	Chaos Driven PSO with Attractive Search Space Border Points. , 2018, , .		4
588	An Efficient Meta-Heuristic for Multi-Objective Flexible Job Shop Inverse Scheduling Problem. IEEE Access, 2018, 6, 59515-59527.	2.6	9
589	Optimizing the Design of Airfoil and Optical Buffer Problems Using Spotted Hyena Optimizer. Designs, 2018, 2, 28.	1.3	67
590	Competitive Learning: A New Meta-Heuristic Optimization Algorithm. International Journal on Artificial Intelligence Tools, 2018, 27, 1850035.	0.7	6
591	A New Hybrid Global Optimization Algorithm. , 2018, , .		0
592	An Enriched Prediction Intervals Construction Method with Hybrid Intelligent Optimization. Mathematical Problems in Engineering, 2018, 2018, 1-10.	0.6	0
593	Physics-Inspired Garment Recovery from a Single-View Image. ACM Transactions on Graphics, 2018, 37, 1-14.	4.9	52
594	Online-Offline Optimized Motion Profile for High-Dynamic Positioning of Ultraprecision Dual Stage. Complexity, 2018, 2018, 1-13.	0.9	2
595	Application of Particle Swarm Optimization and Extreme Learning Machine Forecasting Models for Regional Groundwater Depth Using Nonlinear Prediction Models as Preprocessor. Journal of Hydrologic Engineering - ASCE, 2018, 23, .	0.8	30
596	Gaussian-Valued Particle Swarm Optimization. Lecture Notes in Computer Science, 2018, , 368-377.	1.0	0
598	An efficient opposition based Lévy Flight Antlion optimizer for optimization problems. Journal of Computational Science, 2018, 29, 119-141.	1.5	54
599	Integrated Topology Management in Flying Ad Hoc Networks: Topology Construction and Adjustment. IEEE Access, 2018, 6, 61196-61211.	2.6	47
600	Particle Swarm Optimization: A Survey of Historical and Recent Developments with Hybridization Perspectives. Machine Learning and Knowledge Extraction, 2018, 1, 157-191.	3.2	322
601	Synergistic fibroblast optimization: a novel nature-inspired computing algorithm. Frontiers of Information Technology and Electronic Engineering, 2018, 19, 815-833.	1.5	23
602	Particle Swarm Methods. , 2018, , 639-685.		4

#	ARTICLE	IF	CITATIONS
603	Multiple Improvements to the Particle Swarm Optimization Algorithm. IOP Conference Series: Materials Science and Engineering, 2018, 435, 012028.	0.3	0
604	Grey wolf optimizer: a new strategy to invert geophysical data sets. Geophysical Prospecting, 2018, 66, 1215-1226.	1.0	28
605	Novel algorithms of particle swarm optimisation with decision criteria. Journal of Experimental and Theoretical Artificial Intelligence, 2018, , 1-21.	1.8	2
606	Performance evaluation of the WEDM process of aeronautics super alloy. Materials and Manufacturing Processes, 2018, 33, 1793-1808.	2.7	27
607	Effective Evolutionary Multilabel Feature Selection under a Budget Constraint. Complexity, 2018, 2018, 1-14.	0.9	10
608	Particle Swarm Optimization with Single Particle Repulsivity for Multi-modal Optimization. Lecture Notes in Computer Science, 2018, , 486-494.	1.0	1
609	Particle swarm optimization. , 2018, , .		1
610	MWWO: Modified water wave optimization. , 2018, , .		5
611	Optimization of Machine Process Parameters in EDM for EN 31 Using Evolutionary Optimization Techniques. Technologies, 2018, 6, 54.	3.0	43
612	An Improved PSO Algorithm and Its Application in GNSS Ambiguity Resolution. Applied Sciences (Switzerland), 2018, 8, 990.	1.3	6
613	Recurrent neural network-predictions for PSO in dynamic optimization. , 2018, , .		5
614	Particle Swarm Optimized, 3-D-Printed, Wideband, Compact Hemispherical Antenna. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2031-2035.	2.4	39
615	Hybridizing bat algorithm with artificial bee colony for combined heat and power economic dispatch. Applied Soft Computing Journal, 2018, 72, 189-217.	4.1	73
616	Market segmentation using supervised and unsupervised learning techniques for E-commerce applications. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5353-5363.	0.8	4
617	Multi-Objective Optimization of Microemulsion Flooding for Chemical Enhanced Oil Recovery. Oil and Gas Science and Technology, 2018, 73, 4.	1.4	2
618	Thermal performance optimization of a sinusoidal wavy channel with different phase shifts using artificial bee colony algorithm. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	7
619	Stability of multidimensional systems using bio-inspired meta-heuristics. International Journal of Control, 2018, 91, 2646-2656.	1.2	0
620	Accelerated Opposition-Based Antlion Optimizer with Application to Order Reduction of Linear Time-Invariant Systems. Arabian Journal for Science and Engineering, 2019, 44, 2213-2241.	1.7	28

#	ARTICLE	IF	CITATIONS
621	Granular autoencoders: concepts and design. <i>Soft Computing</i> , 2019, 23, 9869-9880.	2.1	3
622	An Analysis of Control Parameter Importance in the Particle Swarm Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , 2019, , 93-105.	1.0	6
623	Recent advances in particle swarm optimization analysis and understanding. , 2019, , .		5
624	The effectiveness of a drainage tunnel in increasing the rainfall threshold of a deep-seated landslide. <i>Landslides</i> , 2019, 16, 1731-1744.	2.7	23
625	An Improved Convergence Particle Swarm Optimization Algorithm with Random Sampling of Control Parameters. <i>Journal of Control Science and Engineering</i> , 2019, 2019, 1-11.	0.8	23
626	Evolving deep convolutional neural networks by quantum behaved particle swarm optimization with binary encoding for image classification. <i>Neurocomputing</i> , 2019, 362, 156-165.	3.5	68
627	Self-adapting control parameters in particle swarm optimization. <i>Applied Soft Computing Journal</i> , 2019, 83, 105653.	4.1	69
628	A parameter-free particle swarm optimization algorithm using performance classifiers. <i>Information Sciences</i> , 2019, 503, 381-400.	4.0	28
629	Parasitic-Aware Automatic Analog CMOS Circuit Design Environment. , 2019, , .		2
630	Heuristic methods in a nutshell. , 2019, , 273-318.		2
631	Enhancing Backtracking Search Algorithm using Reflection Mutation Strategy Based on Sine Cosine. <i>Algorithms</i> , 2019, 12, 225.	1.2	0
632	A Swarm Intelligence Approach to Avoid Local Optima in Fuzzy C-Means Clustering. , 2019, , .		18
633	Ensemble Learning Regression for Estimating Unconfined Compressive Strength of Cemented Paste Backfill. <i>IEEE Access</i> , 2019, 7, 72125-72133.	2.6	50
634	Kinetic study of transesterification using particle swarm optimization method. <i>Heliyon</i> , 2019, 5, e02146.	1.4	22
635	Gaussian Bare-Bones Brain Storm Optimization Algorithm. , 2019, , .		2
636	A Methodology for Modelling of Takagi-Sugeno Fuzzy Model based on Multi-Particle Swarm Optimization: Application to Gas Furnace system. , 2019, , .		4
637	The naked mole-rat algorithm. <i>Neural Computing and Applications</i> , 2019, 31, 8837-8857.	3.2	113
638	Feature Selection and Its Use in Big Data: Challenges, Methods, and Trends. <i>IEEE Access</i> , 2019, 7, 19709-19725.	2.6	70

#	ARTICLE	IF	CITATIONS
639	Combining Machine Learning and Metaheuristics Algorithms for Classification Method PROAFTN. Lecture Notes in Computer Science, 2019, , 53-79.	1.0	6
640	A fresh view on particle swarm optimization to develop a precise model for predicting rock fragmentation. Engineering Computations, 2019, 36, 533-550.	0.7	10
641	Development of a Composite Model for Simulating Landscape Pattern Optimization Allocation: A Case Study in the Longquanyi District of Chengdu City, Sichuan Province, China. Sustainability, 2019, 11, 2678.	1.6	2
642	Empirical study on rotation and information exchange in particle swarm optimization. Swarm and Evolutionary Computation, 2019, 48, 312-328.	4.5	5
643	Comparative Analysis of Chaotic Variant of Firefly Algorithm, Flower Pollination Algorithm and Dragonfly Algorithm for High Dimension Non-linear Test Functions. Advances in Intelligent Systems and Computing, 2019, , 192-201.	0.5	2
644	A New Strategy Based on GSABAT to Solve Single Objective Optimization Problem. International Journal of Swarm Intelligence Research, 2019, 10, 1-22.	0.5	4
645	Biochemical parameter estimation vs. benchmark functions: A comparative study of optimization performance and representation design. Applied Soft Computing Journal, 2019, 81, 105494.	4.1	45
646	CART and PSO+KNN algorithms to estimate the impact of water level change on water quality in Poyang Lake, China. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	12
647	Gravitational Search Algorithm for Microseismic Source Location in Tunneling: Performance Analysis and Engineering Case Study. Rock Mechanics and Rock Engineering, 2019, 52, 3999-4016.	2.6	14
648	A mine main fans switchover system with lower air flow volatility based on improved particle swarm optimization algorithm. Advances in Mechanical Engineering, 2019, 11, 168781401982928.	0.8	2
649	Performance of biologically inspired algorithms tuned on TiO2 nanoparticle benchmark system. Computational Materials Science, 2019, 165, 63-73.	1.4	2
650	Integrated and concurrent detailed design of a mechatronic quadrotor system using a fuzzy-based particle swarm optimization. Engineering Applications of Artificial Intelligence, 2019, 82, 192-206.	4.3	18
651	Particle Swarm Optimization: Understanding Order-2 Stability Guarantees. Lecture Notes in Computer Science, 2019, , 535-549.	1.0	5
652	Hybrid task scheduling strategy for cloud computing by modified particle swarm optimization and fuzzy theory. Computers and Industrial Engineering, 2019, 130, 597-633.	3.4	129
653	Fitness Dependent Optimizer: Inspired by the Bee Swarming Reproductive Process. IEEE Access, 2019, 7, 43473-43486.	2.6	202
654	A modified particle swarm optimization algorithm for scheduling renewable generation in a micro-grid under load uncertainty. Applied Soft Computing Journal, 2019, 78, 496-514.	4.1	85
655	STOA: A bio-inspired based optimization algorithm for industrial engineering problems. Engineering Applications of Artificial Intelligence, 2019, 82, 148-174.	4.3	349
656	Facile radiolabeling optimization process via design of experiments and an intelligent optimization algorithm: Application for omeprazole radioiodination. Journal of Labelled Compounds and Radiopharmaceuticals, 2019, 62, 280-287.	0.5	13

#	ARTICLE	IF	CITATIONS
657	Fractional fixed-structure $H$ controller design using Augmented Lagrangian Particle Swarm Optimization with Fractional Order Velocity. Applied Soft Computing Journal, 2019, 77, 688-695.	4.1	410
658	The Sailfish Optimizer: A novel nature-inspired metaheuristic algorithm for solving constrained engineering optimization problems. Engineering Applications of Artificial Intelligence, 2019, 80, 20-34.	4.3	389
659	Harris hawks optimization: Algorithm and applications. Future Generation Computer Systems, 2019, 97, 849-872.	4.9	3,345
660	Mountain railway alignment optimization using stepwise & hybrid particle swarm optimization incorporating genetic operators. Applied Soft Computing Journal, 2019, 78, 41-57.	4.1	51
661	MI-ABPSO: an Ameliorated Binary PSO for Feature Selection of Biomedical Data. , 2019, , .		0
662	Study of the section optimization of gravity dam based on improved PSO. IOP Conference Series: Earth and Environmental Science, 2019, 330, 022007.	0.2	3
663	Modified quantum particle swarm optimization for translation control of immersed tunnel element with pontoons. Journal of Intelligent and Fuzzy Systems, 2019, 36, 1073-1081.	0.8	0
664	Learned Prediction of Compressive Strength of GGBFS Concrete Using Hybrid Artificial Neural Network Models. Materials, 2019, 12, 3708.	1.3	34
665	Determining Rainwater Harvesting Storage Capacity with Particle Swarm Optimization. Water Resources Management, 2019, 33, 4749-4766.	1.9	5
666	Research on Dynamic Model and Trajectory Optimization Method of Cross-medium Aircraft in Process of Water-Entry. , 2019, , .		1
667	Convergence of Gravitational Search Algorithm on Linear and Quadratic Functions. Asset Analytics, 2019, , 31-39.	0.4	3
668	Cellular learning automata based bare bones PSO with maximum likelihood rotated mutations. Swarm and Evolutionary Computation, 2019, 44, 680-694.	4.5	16
669	Seagull optimization algorithm: Theory and its applications for large-scale industrial engineering problems. Knowledge-Based Systems, 2019, 165, 169-196.	4.0	720
670	An Approach of Single-Crystal Defect Detection Using X-Ray Orientation Instrument. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4122-4134.	2.4	5
671	A directional crossover (DX) operator for real parameter optimization using genetic algorithm. Applied Intelligence, 2019, 49, 1841-1865.	3.3	22
672	A robust locating multi-optima approach for damage identification of plate-like structures. Applied Soft Computing Journal, 2019, 75, 508-522.	4.1	6
673	Swarm Intelligence. Profiles in Operations Research, 2019, , 353-384.	0.3	17
674	Phasor particle swarm optimization: a simple and efficient variant of PSO. Soft Computing, 2019, 23, 9701-9718.	2.1	131

#	ARTICLE	IF	CITATIONS
675	Nonlinear Model Predictive Lateral Stability Control of Active Chassis for Intelligent Vehicles and Its FPGA Implementation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2-13.	5.9	91
676	Optimizing the multi-objective bidding strategy using min-max technique and modified water wave optimization method. Neural Computing and Applications, 2019, 31, 5207-5225.	3.2	17
677	A novel algorithm for real time task scheduling in multiprocessor environment. Cluster Computing, 2019, 22, 13761-13771.	3.5	11
678	An integrated particle swarm optimization approach hybridizing a new self-adaptive particle swarm optimization with a modified differential evolution. Neural Computing and Applications, 2020, 32, 4849-4883.	3.2	33
679	Pyrolysis Polybutadiene Model Including Self-Heating and Self-Cooling Effects: Kinetic Study via Particle Swarm Optimization. Waste and Biomass Valorization, 2020, 11, 653-667.	1.8	4
680	Comprehensive learning gravitational search algorithm for global optimization of multimodal functions. Neural Computing and Applications, 2020, 32, 7347-7382.	3.2	16
681	New Approaches to Inverse Structural Modification Theory Using Random Projections. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 127-142.	0.3	0
682	Opposition-based antlion optimizer using Cauchy distribution and its application to data clustering problem. Neural Computing and Applications, 2020, 32, 6967-6995.	3.2	17
683	PSO Evolution Based on a Entropy Metric. Advances in Intelligent Systems and Computing, 2020, , 238-248.	0.5	2
684	Learning interaction diversification framework for swarm intelligence optimizers: a unified perspective. Neural Computing and Applications, 2020, 32, 1789-1809.	3.2	26
685	Chaos-enhanced multiple-choice strategy for particle swarm optimisation. International Journal of Parallel, Emergent and Distributed Systems, 2020, 35, 603-616.	0.7	2
686	A quantum-behaved particle swarm optimization algorithm with the flexible single-/multi-population strategy and multi-stage perturbation strategy based on the characteristics of objective function. Soft Computing, 2020, 24, 6909-6956.	2.1	3
687	An efficient discrete PSO coupled with a fast local search heuristic for the DNA fragment assembly problem. Information Sciences, 2020, 512, 880-908.	4.0	17
688	A constrained multi-swarm particle swarm optimization without velocity for constrained optimization problems. Expert Systems With Applications, 2020, 140, 112882.	4.4	94
689	Sandpiper optimization algorithm: a novel approach for solving real-life engineering problems. Applied Intelligence, 2020, 50, 582-619.	3.3	49
690	Refined selfish herd optimizer for global optimization problems. Expert Systems With Applications, 2020, 139, 112838.	4.4	21
691	Movement patterns of a particle swarm in high dimensional spaces. Information Sciences, 2020, 512, 1043-1062.	4.0	22
692	Discrete Spider Monkey Optimization for Travelling Salesman Problem. Applied Soft Computing Journal, 2020, 86, 105887.	4.1	125

#	ARTICLE	IF	CITATIONS
693	Estimating incomplete information in group decision making: A framework of granular computing. Applied Soft Computing Journal, 2020, 86, 105930.	4.1	43
694	Equilibrium optimizer: A novel optimization algorithm. Knowledge-Based Systems, 2020, 191, 105190.	4.0	1,262
695	A discrete-time switched linear model of the particle swarm optimization algorithm. Swarm and Evolutionary Computation, 2020, 52, 100606.	4.5	8
696	Towards large-scale stochastic refraction tomography: a comparison of three evolutionary algorithms. Geophysical Prospecting, 2020, 68, 536-552.	1.0	1
697	WOCDA: A whale optimization based community detection algorithm. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122937.	1.2	25
698	Multivector particle swarm optimization algorithm. Soft Computing, 2020, 24, 11695-11713.	2.1	22
699	Manifold learning for efficient gravitational search algorithm. Information Sciences, 2020, 517, 18-36.	4.0	10
700	A hybrid algorithm using particle swarm optimization for solving transportation problem. Neural Computing and Applications, 2020, 32, 11699-11716.	3.2	13
701	Lion swarm optimization algorithm for comparative study with application to optimal dispatch of cascade hydropower stations. Applied Soft Computing Journal, 2020, 87, 105974.	4.1	29
702	Pressure drops of fresh cemented paste backfills through coupled test loop experiments and machine learning techniques. Powder Technology, 2020, 361, 748-758.	2.1	47
703	A New Fractional Particle Swarm Optimization with Entropy Diversity Based Velocity for Reactive Power Planning. Entropy, 2020, 22, 1112.	1.1	14
704	MTDE: An effective multi-trial vector-based differential evolution algorithm and its applications for engineering design problems. Applied Soft Computing Journal, 2020, 97, 106761.	4.1	133
705	Tuning metaheuristic algorithms using mixture design: Application of sunflower optimization for structural damage identification. Advances in Engineering Software, 2020, 149, 102877.	1.8	29
706	Variance of particle location in the stochastic model of PSO with inertia weight. , 2020, , .		1
707	Stochastic paint optimizer: theory and application in civil engineering. Engineering With Computers, 2022, 38, 1921-1952.	3.5	53
708	Optimization of the powertrain and energy management control parameters of a hybrid hydraulic vehicle based on improved multi-objective particle swarm optimization. Engineering Optimization, 2021, 53, 1835-1854.	1.5	8
709	Iterative convergence control method for planar underactuated manipulator based on support vector regression model. Nonlinear Dynamics, 2020, 102, 2711-2724.	2.7	7
710	The Mathematical Model, Implementation and the Parameter-Tuning of the African Buffalo Optimization Algorithm. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
711	Novel Swarm Intelligence Algorithm for Global Optimization and Multi-UAVs Cooperative Path Planning: Anas Platyrhynchos Optimizer. Applied Sciences (Switzerland), 2020, 10, 4821.	1.3	6
712	Research on Node Location Algorithm of Zigbee Based on optimized Neural Network. , 2020, , .		5
713	Channel and Feature Selection for a Motor Imagery-Based BCI System Using Multilevel Particle Swarm Optimization. Computational Intelligence and Neuroscience, 2020, 2020, 1-11.	1.1	10
714	Design Optimization of Tapered Steel Wind Turbine Towers by QPSO Algorithm. International Journal of Steel Structures, 2020, 20, 1552-1563.	0.6	4
715	The Estimation of Particle Swarm Distribution Algorithm With Sensitivity Analysis for Solving Nonlinear Bilevel Programming Problems. IEEE Access, 2020, 8, 137133-137149.	2.6	4
716	Evaluating the hydrological utility of satellite-based rainfall products using neural network models over the Ghare Ghieh River basin, Iran. Journal of Water and Climate Change, 2021, 12, 3018-3044.	1.2	2
717	Particle Swarm optimization with pbest Perturbations. , 2020, , .		7
718	Chaotic Particle Swarm Optimisation for Enlarging the Domain of Attraction of Polynomial Nonlinear Systems. Electronics (Switzerland), 2020, 9, 1704.	1.8	11
719	New Fusion Algorithm-Reinforced Pilot Control for an Agricultural Tricopter UAV. Mathematics, 2020, 8, 1499.	1.1	4
720	Particle Swarm optimisation for Evolving Deep Neural Networks for Image Classification by Evolving and Stacking Transferable Blocks. , 2020, , .		26
721	A Novel Reliability Analysis Approach With Collaborative Active Learning Strategy-Based Augmented RBF Metamodel. IEEE Access, 2020, 8, 199603-199617.	2.6	5
722	A medical analytical system using intelligent fuzzy level set brain image segmentation based on improved quantum particle swarm optimization. Microprocessors and Microsystems, 2020, 79, 103283.	1.8	35
724	An n-state switching PSO algorithm for scalable optimization. Soft Computing, 2020, 24, 11297-11314.	2.1	15
725	Hybrid frameworks for flexible job shop scheduling. International Journal of Advanced Manufacturing Technology, 2020, 108, 1563-1585.	1.5	4
726	Stability analysis of the human behavior-based particle swarm optimization without stagnation assumption. Expert Systems With Applications, 2020, 159, 113638.	4.4	8
727	Prediction model oriented for landslide displacement with step-like curve by applying ensemble empirical mode decomposition and the PSO-ELM method. Journal of Cleaner Production, 2020, 270, 122248.	4.6	78
728	Marine Predators Algorithm: A nature-inspired metaheuristic. Expert Systems With Applications, 2020, 152, 113377.	4.4	1,239
729	Comparative Analysis of Ant Colony and Particle Swarm Optimization Algorithms for Distance Optimization. Procedia Computer Science, 2020, 173, 245-253.	1.2	28

#	ARTICLE	IF	CITATIONS
730	Gradient-based optimizer: A new metaheuristic optimization algorithm. Information Sciences, 2020, 540, 131-159.	4.0	462
731	Technological progress and development directions of PetroChina overseas oil and gas field production. Petroleum Exploration and Development, 2020, 47, 124-133.	3.0	21
732	Estimation of transverse mixing coefficient in streams using M5, MARS, GA, and PSO approaches. Environmental Science and Pollution Research, 2020, 27, 14553-14566.	2.7	10
733	Improved Fitness-Dependent Optimizer Algorithm. IEEE Access, 2020, 8, 19074-19088.	2.6	28
734	K-Means Multi-Verse Optimizer (KMVO) Algorithm to Construct DNA Storage Codes. IEEE Access, 2020, 8, 29547-29556.	2.6	21
735	Sensitivity analysis of control parameters in particle swarm optimization. Journal of Computational Science, 2020, 41, 101086.	1.5	26
736	An $\langle i \rangle N \langle i \rangle$ -State Markovian Jumping Particle Swarm Optimization Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6626-6638.	5.9	22
737	Particulate matter concentration from open-cut coal mines: A hybrid machine learning estimation. Environmental Pollution, 2020, 263, 114517.	3.7	32
738	Comparison of a physical model and phenomenological model to forecast groundwater levels in a rainfall-induced deep-seated landslide. Journal of Hydrology, 2020, 586, 124894.	2.3	24
739	Multi-Objective Volleyball Premier League algorithm. Knowledge-Based Systems, 2020, 196, 105781.	4.0	17
740	A Novel Hybrid Soft Computing Model Using Random Forest and Particle Swarm Optimization for Estimation of Undrained Shear Strength of Soil. Sustainability, 2020, 12, 2218.	1.6	74
741	Cosine adapted modified whale optimization algorithm for control of switched reluctance motor. Computational Intelligence, 2022, 38, 978-1017.	2.1	15
742	Adaptive neighbourhood for locally and globally tuned biogeography based optimization algorithm. Journal of King Saud University - Computer and Information Sciences, 2021, 33, 453-467.	2.7	4
743	PSO-ANFIS hybrid approach for prediction of wave reflection coefficient for semicircular breakwater. ISH Journal of Hydraulic Engineering, 2021, 27, 135-143.	1.1	5
744	Extreme learning machine ensemble model for time series forecasting boosted by PSO: Application to an electric consumption problem. Neurocomputing, 2021, 452, 465-472.	3.5	24
745	Control of double-loop permanent magnet synchronous motor drives by optimized fractional and distributed-order PID controllers. European Journal of Control, 2021, 58, 232-244.	1.6	21
746	A multi-layer approach to DN 50 electric valve fault diagnosis using shallow-deep intelligent models. Nuclear Engineering and Technology, 2021, 53, 148-163.	1.1	7
747	Probabilistic convergence analysis of the stochastic particle swarm optimization model without the stagnation assumption. Information Sciences, 2021, 547, 996-1007.	4.0	10

#	ARTICLE	IF	CITATIONS
748	Learning from panel data of dengue incidence and meteorological factors in Jakarta, Indonesia. Stochastic Environmental Research and Risk Assessment, 2021, 35, 437-456.	1.9	8
749	Research on multi-energy management system of fuel cell vehicle based on fuzzy control. Journal of Intelligent and Fuzzy Systems, 2021, 40, 6205-6217.	0.8	4
750	Random convergence analysis of particle swarm optimization algorithm with time-varying attractor. Swarm and Evolutionary Computation, 2021, 61, 100819.	4.5	11
751	Resolution enhancement of overlapping peaks of ion mobility spectrometry based on improved particle swarm optimization algorithm. Rapid Communications in Mass Spectrometry, 2021, 35, e8935.	0.7	7
752	A New Binary Particle Swarm Optimization Approach: Momentum and Dynamic Balance Between Exploration and Exploitation. IEEE Transactions on Cybernetics, 2021, 51, 589-603.	6.2	69
754	Solving time-dependent heat conduction problems using metaheuristic algorithms extended with a novel local search strategy. SN Applied Sciences, 2021, 3, 1.	1.5	0
755	Particle Swarm Optimization. , 2021, , 111-121.		17
756	Soft computing in renewable energy system modeling. , 2021, , 79-102.		4
757	CMSRAS: A Novel Chaotic Multi-Specular Reflection Optimization Algorithm Considering Shared Nodes. IEEE Access, 2021, 9, 43050-43094.	2.6	4
758	Swarm Intelligence Based Optimum Design of Deep Excavation Systems. Springer Tracts in Nature-inspired Computing, 2021, , 199-229.	1.2	0
759	Heg.IA: an intelligent system to support diagnosis of Covid-19 based on blood tests. Research on Biomedical Engineering, 2022, 38, 99-116.	1.5	28
762	Solving engineering optimization problems using an improved real-coded genetic algorithm (IRGA) with directional mutation and crossover. Soft Computing, 2021, 25, 5455-5481.	2.1	19
763	Polynomial Approximation Using Set-Based Particle Swarm Optimization. Lecture Notes in Computer Science, 2021, , 210-222.	1.0	3
764	How Does the Number of Objective Function Evaluations Impact Our Understanding of Metaheuristics Behavior?. IEEE Access, 2021, 9, 44032-44048.	2.6	14
765	Evolutionary algorithms for hyperparameter optimization in machine learning for application in high energy physics. European Physical Journal C, 2021, 81, 1.	1.4	19
767	Design of a Fuzzy Optimization Control Structure for Nonlinear Systems: A Disturbance-Rejection Method. Applied Sciences (Switzerland), 2021, 11, 2612.	1.3	9
768	An Optimization of Feature Selection for Classification using Bat Algorithm. International Journal of Recent Technology and Engineering, 2021, 9, 39-43.	0.2	0
769	Pareto-Based Multiobjective Particle Swarm Optimization: Examples in Geophysical Modeling. , 0, , .		1

#	ARTICLE	IF	CITATIONS
770	An improved salp swarm algorithm for complex multi-modal problems. <i>Soft Computing</i> , 2021, 25, 10441-10465.	2.1	11
771	Heat transfer relation-based optimization algorithm (HTOA). <i>Soft Computing</i> , 2021, 25, 8129-8158.	2.1	19
772	Hybrid neurofuzzy investigation of short-term variability of wind resource in site suitability analysis: a case study in South Africa. <i>Neural Computing and Applications</i> , 2021, 33, 13049-13074.	3.2	11
773	Interatomic potential parameterization using particle swarm optimization: Case study of glassy silica. <i>Journal of Chemical Physics</i> , 2021, 154, 134505.	1.2	8
774	PID Controller Parameter Optimization Based on Improved Particle Swarm Optimization Algorithm. , 2021, , .		0
775	Adaptive hierarchical update particle swarm optimization algorithm with a multi-choice comprehensive learning strategy. <i>Applied Intelligence</i> , 2022, 52, 1853-1877.	3.3	8
776	Niching Grey Wolf Optimizer for Multimodal Optimization Problems. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4795.	1.3	13
777	Evolution of Deep Neural Network Architecture Using Particle Swarm Optimization to Improve the Performance in Determining the Friction Angle of Soil. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-17.	0.6	6
778	Multi-objective optimization technique for trajectory planning of multi-humanoid robots in cluttered terrain. <i>ISA Transactions</i> , 2022, 125, 591-613.	3.1	11
779	Solving fixed-charge transportation problem using a modified particle swarm optimization algorithm. <i>International Journal of Systems Assurance Engineering and Management</i> , 0, , 1.	1.5	3
780	Stasis type particle stability in a stochastic model of particle swarm optimization. , 2021, , .		2
781	Multi-Objective Optimization of a Mine Water Reuse System Based on Improved Particle Swarm Optimization. <i>Sensors</i> , 2021, 21, 4114.	2.1	5
782	Adapted-RRT: novel hybrid method to solve three-dimensional path planning problem using sampling and metaheuristic-based algorithms. <i>Neural Computing and Applications</i> , 2021, 33, 15569-15599.	3.2	32
783	Flow Direction Algorithm (FDA): A Novel Optimization Approach for Solving Optimization Problems. <i>Computers and Industrial Engineering</i> , 2021, 156, 107224.	3.4	135
784	Upper Bounds for Particle Location Variance Convergence Measures in the Stochastic Model of Particle Swarm. , 2021, , .		0
785	Visualizing and Characterizing the Parameter Configuration Landscape of Particle Swarm Optimization using Physical Landform Classification. , 2021, , .		0
786	Dense conjugate initialization for deterministic PSO in applications: ORTHOinit+. <i>Applied Soft Computing Journal</i> , 2021, 104, 107121.	4.1	3
787	Hybrid algorithms based on combining reinforcement learning and metaheuristic methods to solve global optimization problems. <i>Knowledge-Based Systems</i> , 2021, 223, 107044.	4.0	63

#	ARTICLE	IF	CITATIONS
788	Deep learning-based energy management of a hybrid photovoltaic-reverse osmosis-pressure retarded osmosis system. <i>Applied Energy</i> , 2021, 293, 116959.	5.1	23
789	Recognition of occluded targets in SAR images based on matching of attributed scattering centers. <i>Remote Sensing Letters</i> , 2021, 12, 932-943.	0.6	1
790	Artificial gorilla troops optimizer: A new nature-inspired metaheuristic algorithm for global optimization problems. <i>International Journal of Intelligent Systems</i> , 2021, 36, 5887-5958.	3.3	471
791	Particle swarm optimization approach to portfolio construction. <i>Intelligent Systems in Accounting, Finance and Management</i> , 2021, 28, 182.	2.8	3
792	Recent advances in particle swarm optimization analysis and understanding 2021. , 2021, , .		2
793	Bayesian Optimization with Particle Swarm. , 2021, , .		2
794	An Optimization of Feature Selection for Classification Using Modified Bat Algorithm. <i>Lecture Notes in Networks and Systems</i> , 2022, , 389-399.	0.5	3
795	Treasure Hunt Framework: Distributing Metaheuristics on High Performance Computing Systems. <i>Swarm and Evolutionary Computation</i> , 2021, 65, 100906.	4.5	1
796	Metaheuristics for pharmacometrics. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2021, 10, 1297-1309.	1.3	4
797	A continuous-state cellular automata algorithm for global optimization. <i>Expert Systems With Applications</i> , 2021, 177, 114930.	4.4	8
798	Dynamic analysis and coupling control of underactuated flight vehicles with single moving mass. <i>Aerospace Science and Technology</i> , 2021, 116, 106854.	2.5	6
799	Nonlinear-based Chaotic Harris Hawks Optimizer: Algorithm and Internet of Vehicles application. <i>Applied Soft Computing Journal</i> , 2021, 109, 107574.	4.1	54
800	Few samples learning based on granular neural networks. <i>Granular Computing</i> , 0, , 1.	4.4	6
801	Efficient robot localization and SLAM algorithms using Opposition based High Dimensional optimization Algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 104, 104308.	4.3	3
802	A hybridization approach with predicted solution candidates for improving population-based optimization algorithms. <i>Information Sciences</i> , 2021, 574, 133-161.	4.0	4
803	Extension of particle swarm optimization algorithm for solving transportation problem in fuzzy environment. <i>Applied Soft Computing Journal</i> , 2021, 110, 107619.	4.1	16
804	ELM-based adaptive neuro swarm intelligence techniques for predicting the California bearing ratio of soils in soaked conditions. <i>Applied Soft Computing Journal</i> , 2021, 110, 107595.	4.1	59
805	Optimal coordination of over-current relay in a power distribution network using opposition based learning fractional order class topper optimization (OBL-FOCTO) algorithm. <i>Applied Soft Computing Journal</i> , 2021, 113, 107916.	4.1	12

#	ARTICLE	IF	CITATIONS
806	Algebraic Stability Analysis of Particle Swarm Optimization Using Stochastic Lyapunov Functions and Quantifier Elimination. SN Computer Science, 2021, 2, 1.	2.3	1
807	A multi-objective particle swarm for constraint and unconstrained problems. Neural Computing and Applications, 2021, 33, 11355-11385.	3.2	12
808	Surrogate-Assisted Particle Swarm Optimization for Evolving Variable-Length Transferable Blocks for Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3727-3740.	7.2	25
809	Automated parameter tuning as a bilevel optimization problem solved by a surrogate-assisted population-based approach. Applied Intelligence, 2021, 51, 5978-6000.	3.3	5
810	Precision and energy-efficient ball-end milling of Ti6Al4V turbine blades using particle swarm optimization. International Journal of Computer Integrated Manufacturing, 2021, 34, 110-133.	2.9	11
811	A Novel Strategy for Optimal PSO Control Parameters Determination for PV Energy Systems. Sustainability, 2021, 13, 1008.	1.6	35
812	Unmanned driving intelligent algorithm simulation platform. , 2021, , 297-341.		0
813	An Improved Adaptive Particle Swarm Optimization Algorithm. Lecture Notes in Electrical Engineering, 2012, , 331-338.	0.3	4
814	Neighbor Selection in Peer-to-Peer Overlay Networks: A Swarm Intelligence Approach. Computer Communications and Networks, 2009, , 405-431.	0.8	4
815	A Hybrid GA-PSO Method for Evolving Architecture and Short Connections of Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2019, , 650-663.	1.0	21
816	Abrasive Water Jet Machining of Ceramic Composites. SpringerBriefs in Applied Sciences and Technology, 2020, , 51-71.	0.2	1
817	Control Parameter Importance and Sensitivity Analysis of the Multi-Guide Particle Swarm Optimization Algorithm. Lecture Notes in Computer Science, 2020, , 96-106.	1.0	2
819	Particle Swarm Methods. , 2015, , 1-47.		6
820	Diversity Rate of Change Measurement for Particle Swarm Optimisers. Lecture Notes in Computer Science, 2014, , 86-97.	1.0	11
823	Cluster Analysis by Variance Ratio Criterion and Quantum-Behaved PSO. Lecture Notes in Computer Science, 2015, , 285-293.	1.0	2
824	Dense Orthogonal Initialization for Deterministic PSO: ORTHOinit+. Lecture Notes in Computer Science, 2016, , 322-330.	1.0	4
825	3D Protein Structure Prediction with BSA-TS Algorithm. Lecture Notes in Computer Science, 2016, , 437-450.	1.0	2
826	A Gravitational Search Algorithm Using Type-2 Fuzzy Logic for Parameter Adaptation. Studies in Computational Intelligence, 2017, , 127-138.	0.7	4

#	ARTICLE	IF	CITATIONS
827	Particle Swarms for Multimodal Optimization. Lecture Notes in Computer Science, 2007, , 366-375.	1.0	24
828	Chaos and Swarm Intelligence. Studies in Computational Intelligence, 2009, , 197-212.	0.7	4
829	Positive Linear Correlation Particle Swarm Optimization. Lecture Notes in Computer Science, 2009, , 367-374.	1.0	3
830	Multi-Objective Wavelet-Based Pixel-Level Image Fusion Using Multi-Objective Constriction Particle Swarm Optimization. Studies in Computational Intelligence, 2010, , 151-178.	0.7	3
831	Nature Inspired Multi-Swarm Heuristics for Multi-Knowledge Extraction. Studies in Computational Intelligence, 2010, , 445-466.	0.7	3
833	Optimization Design of Parameters with Hybrid Particle Swarm Optimization Algorithm in Multi-hole Extrusion Process. Lecture Notes in Electrical Engineering, 2012, , 279-284.	0.3	1
835	Bare Bones Particle Swarms with Jumps. Lecture Notes in Computer Science, 2012, , 49-60.	1.0	14
837	Chaos Driven Particle Swarm Optimization with Basic Particle Performance Evaluation – An Initial Study. Lecture Notes in Computer Science, 2014, , 445-454.	1.0	1
840	Fractional Particle Swarm Optimization. , 2014, , 47-56.		7
841	Particle Swarm Optimization for Evolving Deep Convolutional Neural Networks for Image Classification: Single- and Multi-Objective Approaches. Natural Computing Series, 2020, , 155-184.	2.2	11
842	Slow-movement particle swarm optimization algorithms for scheduling security-critical tasks in resource-limited mobile edge computing. Future Generation Computer Systems, 2020, 112, 148-161.	4.9	57
843	A modified particle swarm optimization algorithm – CPSODE. , 2017, , .		7
844	A History Matching Framework to Characterize Fracture Network and Reservoir Properties in Tight Oil. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	11
845	Transient Performance of the Particle Swarm Optimization Algorithm From System Dynamics Point of View. Journal of Computing and Information Science in Engineering, 2020, 20, .	1.7	4
846	Investigation of Particle Swarm Optimization Dynamics. , 2007, , .		4
847	Recent advances in particle swarm optimization analysis and understanding. , 2020, , .		3
848	The Generalized PSO: A New Door to PSO Evolution. Journal of Artificial Evolution and Applications, 2008, 2008, 1-15.	1.8	63
849	A Dynamic Processing System for Sensor Data in IoT. International Journal of Distributed Sensor Networks, 2015, 11, 750452.	1.3	5

#	ARTICLE	IF	CITATIONS
850	Enhancing the Performance of Classifier Using Particle Swarm Optimization (PSO) - based Dimensionality Reduction. International Journal of Energy Information and Communications, 2015, 6, 19-26.	0.2	3
851	A Novel Method to Find Optimal Solution Based on Modified Butterfly Particle Swarm Optimization. Burgmann Journal, 2014, 3, 1-14.	0.2	10
852	Repulsive Self-Adaptive Acceleration Particle Swarm Optimization Approach. Journal of Artificial Intelligence and Soft Computing Research, 2014, 4, 189-204.	3.5	8
853	Rapid generation of control parameters of Multi-Feed system through online simulation. Ingenieria E Investigacion, 2017, 37, 67-73.	0.2	4
854	Hybrid Uniform Distribution of Particle Swarm Optimizer. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 1782-1791.	0.2	3
855	INVERSION OF LOSSY DIELECTRIC PROFILES USING PARTICLE SWARM OPTIMIZATION. Progress in Electromagnetics Research M, 2009, 9, 93-105.	0.5	10
856	Bare bones particle swarm optimization with adaptive chaotic jump for feature selection in classification. International Journal of Computational Intelligence Systems, 2018, 11, 1.	1.6	17
857	Several Characteristics Analysis of Particle Swarm Optimizer. Zidonghua Xuebao/Acta Automatica Sinica, 2009, 35, 1010-1016.	0.3	8
858	State transition algorithm. Journal of Industrial and Management Optimization, 2012, 8, 1039-1056.	0.8	137
859	Biases in Particle Swarm Optimization. , 0, , 20-43.		3
860	Swarm Intelligence for Electromagnetic Problem Solving. Advances in Computational Intelligence and Robotics Book Series, 2017, , 69-100.	0.4	5
861	Population Based Equilibrium in Hybrid SA/PSO for Combinatorial Optimization. International Journal of Software Science and Computational Intelligence, 2020, 12, 74-86.	1.8	13
862	Biases in Particle Swarm Optimization. International Journal of Swarm Intelligence Research, 2010, 1, 34-57.	0.5	59
863	A Quantum Behaved Gravitational Search Algorithm. Intelligent Information Management, 2012, 04, 390-395.	0.3	24
864	Improved Quantum-Behaved Particle Swarm Optimization. Open Journal of Applied Sciences, 2015, 05, 240-250.	0.2	6
865	Theoretical analysis of particle swarm trajectories through a mechanical analogy. International Journal of Computational Intelligence Research, 2008, 4, .	0.3	51
866	Multi objective particle swarm optimization using enhanced dominance and guide selection. International Journal of Computational Intelligence Research, 2008, 4, .	0.3	7
867	Particle Convergence Time in the PSO Model with Inertia Weight. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
868	Coupling Particles Swarm Optimization for Multimodal Electromagnetic Problems. Journal of Electrical Engineering and Technology, 2010, 5, 423-430.	1.2	14
869	An Expanded Heterogeneous Particle Swarm Optimization Based on Adaptive Inertia Weight. Mathematical Problems in Engineering, 2021, 2021, 1-24.	0.6	7
870	Impact of population topology on particle swarm optimization and its variants: An information propagation perspective. Swarm and Evolutionary Computation, 2022, 69, 100990.	4.5	26
871	Systematic coarse-graining of epoxy resins with machine learning-informed energy renormalization. Npj Computational Materials, 2021, 7, .	3.5	22
872	Multiobjective Optimization of the Performance and Emissions of a Large Low-Speed Dual-Fuel Marine Engine Based on MNLR-MOPSO. Journal of Marine Science and Engineering, 2021, 9, 1170.	1.2	8
873	Computational modeling of driver pre-crash brake response, with and without off-road glances: Parameterization using real-world crashes and near-crashes. Accident Analysis and Prevention, 2021, 163, 106433.	3.0	14
874	An improved particle swarm optimizer with shuffled sub-swarms and its application in soft-sensor of gasoline endpoint. , 2007, , .		1
875	Optimization Methods for Estimation of Missing Data. , 2009, , 210-232.		1
876	A Novel Particle Swarm Optimization Model with Adjustment of Search Property According to Update of the Global Best Solution. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 573-579.	0.1	6
878	Approximate Dynamic Programming Based Parameter Optimization of Particle Swarm Systems. Zidonghua Xuebao/Acta Automatica Sinica, 2010, 36, 1171-1181.	0.3	1
879	Stochastic Decision Making and Aerial Surveillance Control Strategies for Teams of Unmanned Aerial Vehicles. The Electrical Engineering Handbook, 2010, , 7-1-7-22.	0.2	0
880	Multi-Objective Optimization Method Based on PSO and Quick Sort. Communications in Computer and Information Science, 2011, , 257-264.	0.4	0
882	An Adaptive Multi-Objective Particle Swarm Optimization Algorithm with Constraint Handling. Adaptation, Learning, and Optimization, 2011, , 221-239.	0.5	6
883	Swarm Intelligence Optimization: Applications of Particle Swarms in Industrial Engineering and Nuclear Power Plants. Atlantis Computational Intelligence Systems, 2012, , 181-202.	0.5	2
884	A New Kind of Pso: Predator Particle Swarm Optimization. International Journal on Smart Sensing and Intelligent Systems, 2012, 5, 521-539.	0.4	5
885	Towards Designing Human Centric Systems: A New View at Fuzzy Modeling with Granular Membership Functions. Studies in Computational Intelligence, 2012, , 3-24.	0.7	0
886	Modified Particle Swarm Optimization Combined with Trigonometric Function and Variable Neighborhood Search. Journal of Computers, 2012, 7, .	0.4	0
887	Optimised Information Abstraction in Granular Min/Max Clustering. Smart Innovation, Systems and Technologies, 2013, , 31-48.	0.5	1

#	ARTICLE	IF	CITATIONS
888	Application of Ant Colony Algorithm on Secondary Cooling Optimization of Continuous Slab. , 2013, , 1081-1087.		0
889	Heuristics for Portfolio Selection. SSRN Electronic Journal, 0, , .	0.4	0
890	Granular Description of Data and Pattern Classification. Industrial Electronics Series, 2013, , 125-152.	0.0	0
891	Preliminary Study on the Particle Swarm Optimization with the Particle Performance Evaluation. Lecture Notes in Computer Science, 2014, , 395-405.	1.0	1
893	Chaos Driven PSO with Ensemble of Priority Factors. Advances in Intelligent Systems and Computing, 2014, , 89-97.	0.5	0
894	A Niche-Related Particle Swarm Meta-Heuristic Algorithm for Multimodal Optimization. Lecture Notes in Electrical Engineering, 2014, , 313-321.	0.3	0
895	Discrete Particle Swarm Optimization Algorithm: A Stability Study of Particle Trajectories under $c_1$ and $c_2$ . Journal of Information and Computational Science, 2014, 11, 3621-3629.	0.1	0
896	Improved Particle Swarm Optimization Algorithm for Hydrothermal Generation Scheduling. Hydro Nepal: Journal of Water, Energy & Environment, 0, 15, 65-72.	0.1	0
898	Optimization of hole-making operations for injection mould using particle swarm optimization algorithm. International Journal of Industrial Engineering Computations, 2015, 6, 433-444.	0.4	3
899	The Fir Digital Filter Design based on lwpso. International Journal of Advanced Computer Science and Applications, 2015, 6, .	0.5	0
900	Hybrid Swarm Intelligence. Advances in Information Quality and Management, 2014, , 175-186.	0.3	7
901	A Novel Assembly Line Balancing Optimization Algorithm based on PSOSA. , 2015, , .		1
902	Approach of Self-mixing Interferometry Based on Particle Swarm Optimization for Absolute Distance Estimation. Journal of the Optical Society of Korea, 2015, 19, 95-101.	0.6	2
903	Integration of Entropy Maximization and Quantum Behaved Particle Swarm Algorithm for Unsupervised Change Detection of MR Skull Bone Lesions. International Journal of Computer Applications, 2015, 117, 33-39.	0.2	0
904	A Particle Swarm Optimization with an Improved Updating Strategy. Lecture Notes in Computer Science, 2016, , 532-540.	1.0	0
905	Chaos PSO with Super-Sized Swarmâ€™Initial Study. Advances in Intelligent Systems and Computing, 2016, , 527-535.	0.5	0
906	Exponential Inertia Weight in Particle Swarm Optimization. Advances in Intelligent Systems and Computing, 2017, , 265-275.	0.5	4
908	PSO with Attractive Search Space Border Points. Lecture Notes in Computer Science, 2017, , 665-675.	1.0	2

#	ARTICLE	IF	CITATIONS
909	Immersed Tunnel Element Translation Control Under Current Flow Based on Particle Swarm Optimization. Lecture Notes in Computer Science, 2017, , 218-224.	1.0	0
910	Interval Type-2 Fuzzy Logic for Parameter Adaptation in the Gravitational Search Algorithm. Lecture Notes in Computer Science, 2017, , 239-249.	1.0	0
911	Complex Networks in Particle Swarm. Emergence, Complexity and Computation, 2018, , 145-159.	0.2	0
912	Comprehensive Learning Particle Swarm Optimization for Structural System Identification. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2018, , 51-75.	0.5	0
913	A PSO Boosted Ensemble of Extreme Learning Machines for Time Series Forecasting. Advances in Intelligent Systems and Computing, 2019, , 324-333.	0.5	0
914	Human Behavior-Based Particle Swarm Optimization: Stability Analysis. , 2018, , .		0
915	Granular Description of Data and Pattern Classification. , 2018, , 125-152.		0
916	Application of Enhanced Particle Swarm Optimization in Euclidean Steiner Tree Problem Solving in R N. , 2019, , 63-85.		1
917	Particle Convergence Expected Time in the Stochastic Model of PSO. Studies in Computational Intelligence, 2019, , 67-86.	0.7	0
918	Single Swarm and Simple Multi-Swarm PSO Comparison. , 2018, , .		0
919	Optimization of Process Parameters for Electro-Chemical Machining of EN19. Advances in Mechatronics and Mechanical Engineering, 2019, , 127-142.	1.0	1
921	Energy-Efficient Routing for WSNs. Advances in Computer and Electrical Engineering Book Series, 2020, , 128-157.	0.2	0
922	Population based optimization algorithms improvement using the predictive particles. International Journal of Electrical and Computer Engineering, 2020, 10, 3261.	0.5	2
923	Comparison of crossing time estimation models in the Mediterranean Region to optimize safe pedestrian crossing behavior in signalized intersections. Transportation Letters, 2022, 14, 1110-1125.	1.8	0
924	Servo control system of permanent magnet synchronous motor based on feedforward control. , 2020, , .		2
925	Multilevel Image Segmentation using Hybrid Grasshopper Optimization and k-means Algorithm. , 2020, , .		2
926	Improving the Performance of Machining Processes Using Opposition-Based Learning Civilized Swarm Optimization. , 2020, , 77-96.		0
927	Why Tuning the Control Parameters of Metaheuristic Algorithms Is So Important for Fair Comparison?. Mendel, 2020, 26, 9-16.	0.5	21

#	ARTICLE	IF	CITATIONS
928	A Collaborative Filtering Based Ranking Algorithm for Classifying and Ranking NEWS TOPICS Using Factors of Social Media. Learning and Analytics in Intelligent Systems, 2020, , 299-318.	0.5	0
929	Optimization of a Robotic Manipulation Path by an Evolution Strategy and Particle Swarm Optimization. , 2020, , .		0
930	An overlapping peaks separation algorithm for ion mobility spectrometry based on second-order differentiation and dynamic inertia weight particle swarm optimization algorithm. Rapid Communications in Mass Spectrometry, 2022, 36, e9220.	0.7	7
931	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. Expert Systems With Applications, 2022, 191, 116158.	4.4	693
932	Quasi-PSO Algorithm for Modeling Foraging Dynamics in Social Mammals. , 0, , 276-288.		0
933	Time and Frequency Analysis of Particle Swarm Trajectories for Cognitive Machines. , 0, , 284-309.		0
934	Using Swarm Intelligence for Optimization of Parameters in Approximations of Fractional-Order Operators. , 0, , 194-222.		1
935	Theoretical Derivations and Application Issues. Advances in Computational Intelligence and Robotics Book Series, 0, , 42-87.	0.4	0
937	Performance evaluation of the particle swarm optimization algorithm to unambiguously estimate plasma parameters from incoherent scatter radar signals. Earth, Planets and Space, 2020, 72, .	0.9	1
938	Study on Conflict-free AGVs Path Planning Strategy for Workshop Material Distribution Systems. Procedia CIRP, 2021, 104, 1071-1076.	1.0	3
939	An intelligent chaotic clonal optimizer. Applied Soft Computing Journal, 2022, 115, 108126.	4.1	8
940	Application Analysis on PSO Algorithm in the Discrete Optimization Problems. Journal of Physics: Conference Series, 2021, 2078, 012018.	0.3	2
941	Hunter-prey optimization: algorithm and applications. Soft Computing, 2022, 26, 1279-1314.	2.1	93
942	Nonlinear Dissipative Particle Swarm Algorithm and Its Applications. IEEE Access, 2021, 9, 158862-158871.	2.6	0
943	Development of a prediction model tuning method with a dual-structured optimization framework for an entire heating, ventilation and air-conditioning system. Sustainable Cities and Society, 2022, 79, 103667.	5.1	5
944	Modification of Permutation Method in Multi-Criteria Decision Making Using PSO-SA. , 2020, , .		0
946	An Optimal Algorithm Design of RSSI Indoor Location based on Neural Network. , 2020, , .		4
947	Improved Design of IIR filter using Salp Swarm Algorithm. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
948	Improved gradual change-based Harris Hawks optimization for real-world engineering design problems. <i>Engineering With Computers</i> , 2023, 39, 1843-1883.	3.5	7
949	Adaptive Barebones Salp Swarm Algorithm with Quasi-oppositional Learning for Medical Diagnosis Systems: A Comprehensive Analysis. <i>Journal of Bionic Engineering</i> , 2022, 19, 240-256.	2.7	16
950	A study of exploratory and stability analysis of artificial electric field algorithm. <i>Applied Intelligence</i> , 2022, 52, 10805-10828.	3.3	6
951	Combinatorial and geometric optimization of a parabolic trough solar collector. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 284-305.	1.2	3
952	An interpretable hybrid Machine learning prediction of dielectric constant of alkali halide crystals. <i>Chemical Physics</i> , 2022, 555, 111457.	0.9	10
953	INFO: An efficient optimization algorithm based on weighted mean of vectors. <i>Expert Systems With Applications</i> , 2022, 195, 116516.	4.4	356
954	Soft computing-based process optimization in laser metal deposition of Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 0, , 1.	1.5	2
955	Exploration for a Bp-Ann Model for Gas Identification and Concentration Measurement with an Ultrasonically Radiated Catalytic Combustion Gas Sensor. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
957	Dynamic exploitation Gaussian barebones bat algorithm for optimal reactive power dispatch to improve the safety and stability of power system. <i>IET Renewable Power Generation</i> , 2022, 16, 1401-1424.	1.7	1
958	A hybrid Grasshopper Optimization Algorithm and Harris Hawks Optimizer for Combined Heat and Power Economic Dispatch problem. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 111, 104753.	4.3	42
959	Particle swarm optimization: Stability analysis using $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si34.svg" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -informers under arbitrary coefficient distributions. <i>Swarm and Evolutionary Computation</i> , 2022, 71, 101060.	4.5	6
960	Wind speed estimation using novelty hybrid adaptive estimation model based on decomposition and deep learning methods (ICEEMDAN-CNN). <i>Energy</i> , 2022, 249, 123785.	4.5	25
961	A ranking-based fuzzy adaptive hybrid crow search algorithm for combined heat and power economic dispatch. <i>Expert Systems With Applications</i> , 2022, 197, 116625.	4.4	19
962	An Adaptive Hybrid Bat Algorithm with Genetic Operations and Dynamic Inertia Weight. , 2021, , .		0
963	Multi-Objective Optimization based Perceptual Bit Allocation for Gaming Video Coding in VVC. <i>Signal Processing</i> , 2022, , 108593.	2.1	0
964	Multi-scale cooperative search simplified particle swarm optimization algorithm and performance analysis. <i>Journal of Physics: Conference Series</i> , 2022, 2245, 012012.	0.3	0
965	Sand Cat swarm optimization: a nature-inspired algorithm to solve global optimization problems. <i>Engineering With Computers</i> , 2023, 39, 2627-2651.	3.5	118
967	Stochastic Methods for Hard Optimization. <i>Advances in Civil and Industrial Engineering Book Series</i> , 0, , 182-220.	0.2	0

#	ARTICLE	IF	CITATIONS
968	A Nature-Inspired Metaheuristic Optimization Algorithm Based on Crocodiles Hunting Search (CHS). International Journal of Swarm Intelligence Research, 2022, 13, 1-23.	0.5	2
969	Optimization Model for Designing Personalized Tourism Packages. SSRN Electronic Journal, 0, , .	0.4	0
970	A novel TS Fuzzy-GMDH model optimized by PSO to determine the deformation values of rock material. Neural Computing and Applications, 0, , 1.	3.2	2
971	A Novel PSO-Based Adaptive Filter Structure with Switching Selection Criteria for Active Noise Control. Applied Sciences (Switzerland), 2022, 12, 4368.	1.3	0
972	cuPSO. , 2022, , .		2
973	A majorityâ€“minority cellular automata algorithm for global optimization. Expert Systems With Applications, 2022, 203, 117379.	4.4	5
974	Optimal Power Flow of Renewable-Integrated Power Systems Using a Gaussian Bare-Bones Levy-Flight Firefly Algorithm. Frontiers in Energy Research, 2022, 10, .	1.2	9
975	Feedback Delay of Sports Intelligent Learning System Based on Model Predictive Control. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	0
976	An innovative quadratic interpolation salp swarm-based local escape operator for large-scale global optimization problems and feature selection. Neural Computing and Applications, 2022, 34, 17663-17721.	3.2	10
978	A Hybrid Particle Swarm Optimization-Based Wavelet Threshold Denoising Algorithm for Acoustic Emission Signals. Symmetry, 2022, 14, 1253.	1.1	3
979	A data variability index: Quantifying complexity of models and analyzing adversarial data. International Journal of Intelligent Systems, 0, , .	3.3	0
980	Stochastic stability analysis of particle swarm optimization with pseudo random number assignment strategy. European Journal of Operational Research, 2023, 305, 562-593.	3.5	18
981	Statistical determination of significant particle swarm optimization parameters: the case of Weibull distribution. Soft Computing, 2022, 26, 12623-12634.	2.1	1
982	Chemical signatures to identify the origin of solid ashes for efficient recycling using machine learning. Journal of Cleaner Production, 2022, 368, 133020.	4.6	9
983	Self-adaptive Bat Algorithm With Genetic Operations. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1284-1294.	8.5	32
984	Artificial rabbits optimization: A new bio-inspired meta-heuristic algorithm for solving engineering optimization problems. Engineering Applications of Artificial Intelligence, 2022, 114, 105082.	4.3	206
985	Development of a particle swarm optimization-backpropagation artificial neural network model and effects of age and gender on pharmacokinetics study of omeprazole enteric-coated tablets in Chinese population. BMC Pharmacology & Toxicology, 2022, 23, .	1.0	1
986	Electricity Consumption Optimization Using Thermal and Battery Energy Storage Systems in Buildings. IEEE Transactions on Smart Grid, 2023, 14, 251-265.	6.2	12

#	ARTICLE	IF	CITATIONS
987	Enterprise service composition in IIoT manufacturing: integer linear optimization based on the hybrid multi-objective grey wolf optimizer. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 122, 427-445.	1.5	2
988	An improved system for efficient shape optimization of vehicle aerodynamics with noisy computations. <i>Structural and Multidisciplinary Optimization</i> , 2022, 65, .	1.7	0
989	Convergence Rates of Epsilon-Greedy Global Optimization Under Radial Basis Function Interpolation. <i>Stochastic Systems</i> , 2023, 13, 59-92.	0.8	2
990	Sighted particles: improving swarm optimization by making particles aware of their surroundings. <i>Evolutionary Intelligence</i> , 0, , .	2.3	0
991	Improved particle swarm optimizer for problems with variable evaluation time: Application to asymptotic homogenization. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 6220-6242.	1.5	1
992	An Overview of Variants and Advancements of PSO Algorithm. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 8392.	1.3	108
993	Multi-Objective Optimization of Petroleum Engineering Problems Using a Hybrid Workflow: Combination of Combination of Particle Swarm Optimization, Fuzzy Logic, Imperialist Competitive Algorithm and Response Surface Methodology. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
994	On the Use of High-Rise Topographic Features for Optimal Aerial Base Station Placement. <i>IEEE Transactions on Wireless Communications</i> , 2023, 22, 1868-1884.	6.1	1
995	An Application of Quantum Optimization with Fuzzy Inference System for Stock Index Futures Forecasting. <i>Studies in Systems, Decision and Control</i> , 2022, , 393-410.	0.8	0
996	Measuring the Effects of Increasing Dimensionality on Fitness-Based Selection and Failed Exploration. , 2022, , .		1
997	Methods to Detect and Address Stall in Particle Swarm Optimization. , 2022, , .		1
998	Extension of Particle Swarm Optimization algorithm for solving two-level time minimization transportation problem. <i>Mathematics and Computers in Simulation</i> , 2023, 204, 727-742.	2.4	3
999	Inner Dynamics of Particle Swarm Optimization Interpreted by Complex Network Analysis. , 2022, , .		0
1000	HMMWOA: A Hybrid WMA WOA Algorithm with Adaptive Cauchy Mutation for Global Optimization and Data Classification. <i>International Journal of Information Technology and Decision Making</i> , 2023, 22, 1195-1252.	2.3	7
1001	Addressing constrained engineering problems and feature selection with a time-based leadership salp-based algorithm with competitive learning. <i>Journal of Computational Design and Engineering</i> , 2022, 9, 2235-2270.	1.5	9
1002	Bibliometric Survey on Particle Swarm Optimization Algorithms (2001-2021). <i>Journal of Electrical and Computer Engineering</i> , 2022, 2022, 1-12.	0.6	3
1003	Rainstorm Combination Design during the Meiyu Season: An Example from Southern Jiangsu, China. <i>Journal of Hydrologic Engineering - ASCE</i> , 2022, 27, .	0.8	0
1004	Stability-Guided Particle Swarm Optimization. <i>Lecture Notes in Computer Science</i> , 2022, , 360-369.	1.0	1

#	ARTICLE	IF	CITATIONS
1005	Performance Optimization and Knock Investigation of Marine Two-Stroke Pre-Mixed Dual-Fuel Engine Based on RSM and MOPSO. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 1409.	1.2	4
1006	Mountain Gazelle Optimizer: A new Nature-inspired Metaheuristic Algorithm for Global Optimization Problems. <i>Advances in Engineering Software</i> , 2022, 174, 103282.	1.8	119
1007	Two-step particle swarm optimization algorithm for effective deconvolution and resolution enhancement of various overlapping peaks. <i>Rapid Communications in Mass Spectrometry</i> , 2023, 37, .	0.7	3
1008	Internet Protocol Based Architecture Design. <i>Studies in Computational Intelligence</i> , 2023, , 181-192.	0.7	1
1009	Hybrid GA and PSO for Architecture Design. <i>Studies in Computational Intelligence</i> , 2023, , 171-180.	0.7	0
1010	Optimization model for designing personalized tourism packages. <i>Computers and Industrial Engineering</i> , 2023, 175, 108839.	3.4	4
1011	Local search enhanced Aquila optimization algorithm ameliorated with an ensemble of Wavelet mutation strategies for complex optimization problems. <i>Mathematics and Computers in Simulation</i> , 2023, 206, 302-374.	2.4	10
1012	Using particle swarm optimization and genetic algorithms for optimal control of non-linear fractional-order chaotic system of cancer cells. <i>Mathematics and Computers in Simulation</i> , 2023, 206, 538-560.	2.4	12
1013	Running city game optimizer: a game-based metaheuristic optimization algorithm for global optimization. <i>Journal of Computational Design and Engineering</i> , 2023, 10, 65-107.	1.5	10
1014	Inversion of self-potential source based on particle swarm optimization. <i>Geophysical Prospecting</i> , 2023, 71, 322-335.	1.0	2
1015	A Low Complexity Persistent Reconnaissance Algorithm for FANET. <i>Sensors</i> , 2022, 22, 9526.	2.1	3
1016	Calibration of conceptual rainfall-runoff models by selected differential evolution and particle swarm optimization variants. <i>Acta Geophysica</i> , 0, , .	1.0	2
1017	Particle Swarm Optimization and Its Applications in the Manufacturing Industry. <i>Women in Engineering and Science</i> , 2022, , 19-38.	0.2	0
1018	Lyapunov control of finite-dimensional quantum systems based on bi-objective quantum-behaved particle swarm optimization algorithm. <i>Journal of the Franklin Institute</i> , 2023, 360, 13951-13971.	1.9	0
1019	Enhancing grasshopper optimization algorithm (GOA) with levy flight for engineering applications. <i>Scientific Reports</i> , 2023, 13, .	1.6	7
1021	Security and storage improvement in distributed cloud data centers by increasing reliability based on particle swarm optimization and artificial immune system algorithms. <i>Concurrency Computation Practice and Experience</i> , 0, , .	1.4	1
1022	An innovative time-varying particle swarm-based Salp algorithm for intrusion detection system and large-scale global optimization problems. <i>Artificial Intelligence Review</i> , 2023, 56, 8325-8392.	9.7	5
1023	Research on the relationship between the scattering contribution and physical factors of the reference radiation regulated by ISO 4037-1. <i>PLoS ONE</i> , 2022, 17, e0279188.	1.1	0

#	ARTICLE	IF	CITATIONS
1024	Method of Expansion of Mathematical Tools of the Reliability Theory Due to the Properties of Stochastic Theory of Similarity. Lecture Notes in Networks and Systems, 2023, , 30-40.	0.5	1
1025	Gaussian bare-bone slime mould algorithm: performance optimization and case studies on truss structures. Artificial Intelligence Review, 2023, 56, 9051-9087.	9.7	7
1027	Prediction of Landslide Displacement Based on the Variational Mode Decomposition and GWO-SVR Model. Sustainability, 2023, 15, 5470.	1.6	6
1028	Machine learning-enabled globally guaranteed evolutionary computation. Nature Machine Intelligence, 2023, 5, 457-467.	8.3	1
1029	Multi-objective optimization of petroleum engineering problems using a hybrid workflow: Combination of particle swarm optimization, fuzzy logic, imperialist competitive algorithm and response surface methodology. , 2023, 224, 211579.		0
1030	PSCSO: Enhanced sand cat swarm optimization inspired by the political system to solve complex problems. Advances in Engineering Software, 2023, 178, 103423.	1.8	18
1031	Multi-objective optimization of double-walled steel cofferdams based on response surface methodology and particle swarm optimization algorithm. Structures, 2023, 49, 256-266.	1.7	4
1032	Nature-inspired stochastic hybrid technique for joint and individual inversion of DC and MT data. Scientific Reports, 2023, 13, .	1.6	1
1033	Multi-objective fitness-dependent optimizer algorithm. Neural Computing and Applications, 2023, 35, 11969-11987.	3.2	4
1034	A hybrid approach of ANN and improved PSO for estimating soaked CBR of subgrade soils of heavy-haul railway corridor. International Journal of Pavement Engineering, 2023, 24, .	2.2	8
1035	How Much Do Swarm Intelligence and Evolutionary Algorithms Improve Over a Classical Heuristic From 1960?. IEEE Access, 2023, 11, 19775-19793.	2.6	1
1036	Large-Scale Competitive Learning-Based Salp Swarm for Global Optimization and Solving Constrained Mechanical and Engineering Design Problems. Mathematics, 2023, 11, 1362.	1.1	3
1037	Application of an Adaptive Particle Swarm Optimization Algorithm in Structural Design of Pressure Vessels. , 2022, , .		0
1038	A modified crow search algorithm based on group strategy and adaptive mechanism. Engineering Optimization, 0, , 1-19.	1.5	1
1039	Development of a Novel Artificial Intelligence Model for Better Balancing Exploration and Exploitation. International Journal of Computational Intelligence and Applications, 2023, 22, .	0.6	5
1040	A Road Roughness Estimation Method based on PSO-LSTM Neural Network. , 0, , .		0
1041	Adaptive Chaotic Marine Predators Hill Climbing Algorithm for Large-Scale Design Optimizations. IEEE Access, 2023, 11, 39269-39294.	2.6	2
1042	Optimization Design of Filament Wound Composite Pressure Vessel Based on OpenSees. Applied Sciences (Switzerland), 2023, 13, 4894.	1.3	0

#	ARTICLE	IF	CITATIONS
1049	Automatic Synthesis of Rule Bases of Fuzzy Control Systems Based on Genetic Algorithms. Studies in Fuzziness and Soft Computing, 2023, , 101-123.	0.6	0
1053	Particle swarm optimization. , 2023, , 163-184.		0
1060	Constrained Design Optimization of a Long-Reach Dual-Arm Aerial Manipulator for Maintenance Tasks. , 2023, , .		1
1063	Multi-swarm Genetic Gray Wolf Optimizer with Embedded Autoencoders for High-dimensional Expensive Problems. , 2023, , .		1
1069	Optimal Two-Step Collision-Free Trajectory Planning for Cylindrical Robot using Particle Swarm Optimization. Journal of Intelligent and Robotic Systems: Theory and Applications, 2023, 108, .	2.0	0
1070	Optimizing dynamic characteristics of mechanical equipment based on particle swarm optimization and projection pursuit analysis. , 2023, , .		0
1079	Advanced Discrete Tracking Control for Nonlinear Systems: Development and Application. , 2023, , .		0
1081	An Improved Whale Optimization Algorithm Based on Nonlinear Convergence Factors and Differential Evolution. , 2023, , .		0
1091	Railway Safety Assessment Model Solving by Decision Tree and PSO Algorithm. International Journal of Computational Intelligence Systems, 2023, 16, .	1.6	0
1095	A Cautionary Note on Poli's Stability Condition for Particle Swarm Optimization. , 2023, , .		0