Ponnuthurai N Suganthan

List of Publications by Year
in descending order

426 papers	41,489 citations	3919 88 h-index	2940 189 g-index
435 all docs	435 docs citations	435 times ranked	20419 citing authors

#	Article	IF	Citations
1	Differential Evolution: A Survey of the State-of-the-Art. IEEE Transactions on Evolutionary Computation, 2011, 15, 4-31.	7.5	4,326
2	Differential Evolution Algorithm With Strategy Adaptation for Global Numerical Optimization. IEEE Transactions on Evolutionary Computation, 2009, 13, 398-417.	7.5	3,183
3	Comprehensive learning particle swarm optimizer for global optimization of multimodal functions. IEEE Transactions on Evolutionary Computation, 2006, 10, 281-295.	7.5	3,070
4	Multiobjective evolutionary algorithms: A survey of the state of the art. Swarm and Evolutionary Computation, 2011, 1, 32-49.	4.5	1,788
5	Recent advances in differential evolution â€" An updated survey. Swarm and Evolutionary Computation, 2016, 27, 1-30.	4.5	1,261
6	Differential evolution algorithm with ensemble of parameters and mutation strategies. Applied Soft Computing Journal, 2011, 11, 1679-1696.	4.1	1,156
7	Evolutionary extreme learning machine. Pattern Recognition, 2005, 38, 1759-1763.	5.1	714
8	Self-adaptive Differential Evolution Algorithm for Numerical Optimization. , 0, , .		591
9	An Adaptive Differential Evolution Algorithm With Novel Mutation and Crossover Strategies for Global Numerical Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 482-500.	5.5	517
10	A discrete artificial bee colony algorithm for the lot-streaming flow shop scheduling problem. Information Sciences, 2011, 181, 2455-2468.	4.0	493
11	Ensemble Classification and Regression-Recent Developments, Applications and Future Directions [Review Article]. IEEE Computational Intelligence Magazine, 2016, 11, 41-53.	3.4	470
12	Differential Evolution With Neighborhood Mutation for Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2012, 16, 601-614.	7.5	440
13	Differential evolution with multi-population based ensemble of mutation strategies. Information Sciences, 2016, 329, 329-345.	4.0	435
14	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	4.5	430
15	Ensemble of Constraint Handling Techniques. IEEE Transactions on Evolutionary Computation, 2010, 14, 561-579.	7.5	397
16	Heterogeneous comprehensive learning particle swarm optimization with enhanced exploration and exploitation. Swarm and Evolutionary Computation, 2015, 24, 11-24.	4.5	380
17	Decomposition-Based Multiobjective Evolutionary Algorithm With an Ensemble of Neighborhood Sizes. IEEE Transactions on Evolutionary Computation, 2012, 16, 442-446.	7.5	364
18	Empirical Mode Decomposition based ensemble deep learning for load demand time series forecasting. Applied Soft Computing Journal, 2017, 54, 246-255.	4.1	348

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19	A self-adaptive global best harmony search algorithm for continuous optimization problems. Applied Mathematics and Computation, 2010, 216, 830-848.	1.4	346
20	An analysis of diversity measures. Machine Learning, 2006, 65, 247-271.	3.4	343
21	Optimal power flow solutions incorporating stochastic wind and solar power. Energy Conversion and Management, 2017, 148, 1194-1207.	4.4	342
22	A Distance-Based Locally Informed Particle Swarm Model for Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 387-402.	7.5	327
23	Real-parameter evolutionary multimodal optimization â€" A survey of the state-of-the-art. Swarm and Evolutionary Computation, 2011, 1, 71-88.	4.5	325
24	Ensemble methods for wind and solar power forecastingâ€"A state-of-the-art review. Renewable and Sustainable Energy Reviews, 2015, 50, 82-91.	8.2	314
25	A comprehensive evaluation of random vector functional link networks. Information Sciences, 2016, 367-368, 1094-1105.	4.0	306
26	Ensemble of differential evolution variants. Information Sciences, 2018, 423, 172-186.	4.0	302
27	Economic dispatch using hybrid grey wolf optimizer. Energy, 2016, 111, 630-641.	4.5	291
28	Particle swarm optimiser with neighbourhood operator. , 0, , .		287
29	A Comparative Study of Empirical Mode Decomposition-Based Short-Term Wind Speed Forecasting Methods. IEEE Transactions on Sustainable Energy, 2015, 6, 236-244.	5.9	249
30	Dynamic multi-swarm particle swarm optimizer. , 0, , .		245
31	Novel composition test functions for numerical global optimization. , 0, , .		238
32	A survey of randomized algorithms for training neural networks. Information Sciences, 2016, 364-365, 146-155.	4.0	237
33	AFP-Pred: A random forest approach for predicting antifreeze proteins from sequence-derived properties. Journal of Theoretical Biology, 2011, 270, 56-62.	0.8	226
34	A test-suite of non-convex constrained optimization problems from the real-world and some baseline results. Swarm and Evolutionary Computation, 2020, 56, 100693.	4.5	223
35	A novel hybrid discrete differential evolution algorithm for blocking flow shop scheduling problems. Computers and Operations Research, 2010, 37, 509-520.	2.4	221
36	A discrete artificial bee colony algorithm for the total flowtime minimization in permutation flow shops. Information Sciences, 2011, 181, 3459-3475.	4.0	220

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37	Ensemble particle swarm optimizer. Applied Soft Computing Journal, 2017, 55, 533-548.	4.1	217
38	Random vector functional link network for short-term electricity load demand forecasting. Information Sciences, 2016, 367-368, 1078-1093.	4.0	214
39	Major Advances in Particle Swarm Optimization: Theory, Analysis, and Application. Swarm and Evolutionary Computation, 2021, 63, 100868.	4.5	214
40	Optimal power flow solutions using differential evolution algorithm integrated with effective constraint handling techniques. Engineering Applications of Artificial Intelligence, 2018, 68, 81-100.	4.3	196
41	Ensemble strategies for population-based optimization algorithms â€" A survey. Swarm and Evolutionary Computation, 2019, 44, 695-711.	4.5	189
42	Multiobjective economic-environmental power dispatch with stochastic wind-solar-small hydro power. Energy, 2018, 150, 1039-1057.	4.5	187
43	Flexible Job-Shop Rescheduling for New Job Insertion by Using Discrete Jaya Algorithm. IEEE Transactions on Cybernetics, 2019, 49, 1944-1955.	6.2	184
44	Ensemble deep learning for regression and time series forecasting. , 2014, , .		182
45	A survey on multi-objective evolutionary algorithms for the solution of the environmental/economic dispatch problems. Swarm and Evolutionary Computation, 2018, 38, 1-11.	4.5	180
46	A dynamic neighborhood learning based particle swarm optimizer for global numerical optimization. Information Sciences, 2012, 209, 16-36.	4.0	177
47	Ensemble sinusoidal differential covariance matrix adaptation with Euclidean neighborhood for solving CEC2017 benchmark problems. , 2017, , .		172
48	Task Scheduling in Cloud Computing based on Meta-heuristics: Review, Taxonomy, Open Challenges, and Future Trends. Swarm and Evolutionary Computation, 2021, 62, 100841.	4.5	163
49	Self-adaptive Differential Evolution Algorithm for Constrained Real-Parameter Optimization. , 0, , .		160
50	Dynamic multi-swarm particle swarm optimizer with local search for Large Scale Global Optimization. , 2008, , .		156
51	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. Swarm and Evolutionary Computation, 2021, 64, 100888.	4.5	154
52	A Novel Empirical Mode Decomposition With Support Vector Regression for Wind Speed Forecasting. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1793-1798.	7.2	151
53	Niching particle swarm optimization with local search for multi-modal optimization. Information Sciences, 2012, 197, 131-143.	4.0	149
54	Comprehensive learning particle swarm optimizer for solving multiobjective optimization problems. International Journal of Intelligent Systems, 2006, 21, 209-226.	3.3	148

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55	A differential evolution algorithm with self-adapting strategy and control parameters. Computers and Operations Research, 2011, 38, 394-408.	2.4	147
56	Design of Non-Uniform Circular Antenna Arrays Using a Modified Invasive Weed Optimization Algorithm. IEEE Transactions on Antennas and Propagation, 2011, 59, 110-118.	3.1	144
57	A two-stage artificial bee colony algorithm scheduling flexible job-shop scheduling problem with new job insertion. Expert Systems With Applications, 2015, 42, 7652-7663.	4.4	144
58	Self-adaptive differential evolution with multi-trajectory search for large-scale optimization. Soft Computing, 2011, 15, 2175-2185.	2.1	143
59	Dynamic Multi-Swarm Particle Swarm Optimizer with Local Search. , 0, , .		140
60	An ensemble of discrete differential evolution algorithms for solving the generalized traveling salesman problem. Applied Mathematics and Computation, 2010, 215, 3356-3368.	1.4	140
61	Static and dynamic photovoltaic models' parameters identification using Chaotic Heterogeneous Comprehensive Learning Particle Swarm Optimizer variants. Energy Conversion and Management, 2019, 182, 546-563.	4.4	140
62	Constrained multi-objective optimization algorithm with an ensemble of constraint handling methods. Engineering Optimization, 2011, 43, 403-416.	1.5	139
63	A hybrid tabu search algorithm with an efficient neighborhood structure for the flexible job shop scheduling problem. International Journal of Advanced Manufacturing Technology, 2011, 52, 683-697.	1.5	137
64	Pareto-based grouping discrete harmony search algorithm for multi-objective flexible job shop scheduling. Information Sciences, 2014, 289, 76-90.	4.0	136
65	An approach for classification of highly imbalanced data using weighting and undersampling. Amino Acids, 2010, 39, 1385-1391.	1.2	134
66	Optimal reactive power dispatch with uncertainties in load demand and renewable energy sources adopting scenario-based approach. Applied Soft Computing Journal, 2019, 75, 616-632.	4.1	134
67	Real-parameter unconstrained optimization based on enhanced fitness-adaptive differential evolution algorithm with novel mutation. Soft Computing, 2018, 22, 3215-3235.	2.1	132
68	Parameter estimation of solar cells using datasheet information with the application of an adaptive differential evolution algorithm. Renewable Energy, 2019, 132, 425-438.	4.3	132
69	A discrete artificial bee colony algorithm for the no-idle permutation flowshop scheduling problem with the total tardiness criterion. Applied Mathematical Modelling, 2013, 37, 6758-6779.	2.2	131
70	Discrete harmony search algorithm for flexible job shop scheduling problem with multiple objectives. Journal of Intelligent Manufacturing, 2016, 27, 363-374.	4.4	131
71	Ensemble of niching algorithms. Information Sciences, 2010, 180, 2815-2833.	4.0	126
72	Ensemble incremental learning Random Vector Functional Link network for short-term electric load forecasting. Knowledge-Based Systems, 2018, 145, 182-196.	4.0	126

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73	Population topologies for particle swarm optimization and differential evolution. Swarm and Evolutionary Computation, 2018, 39, 24-35.	4.5	125
74	An ensemble sinusoidal parameter adaptation incorporated with L-SHADE for solving CEC2014 benchmark problems. , 2016, , .		124
75	An improved artificial bee colony algorithm for flexible job-shop scheduling problem with fuzzy processing time. Expert Systems With Applications, 2016, 65, 52-67.	4.4	124
76	<inline-formula> <tex-math notation="LaTeX">$I_{m SDE}$ </tex-math> </inline-formula>+â€"An Indicator for Multi and Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 346-352.	7.5	124
77	Comparison between MOEA/D and NSGA-III on a set of novel many and multi-objective benchmark problems with challenging difficulties. Swarm and Evolutionary Computation, 2019, 46, 104-117.	4.5	123
78	Multi-population differential evolution with balanced ensemble of mutation strategies for large-scale global optimization. Applied Soft Computing Journal, 2015, 33, 304-327.	4.1	121
79	Economic emission dispatch problems with stochastic wind power using summation based multi-objective evolutionary algorithm. Information Sciences, 2016, 351, 48-66.	4.0	118
80	DNA-Prot: Identification of DNA Binding Proteins from Protein Sequence Information using Random Forest. Journal of Biomolecular Structure and Dynamics, 2009, 26, 679-686.	2.0	117
81	Analyzing convergence performance of evolutionary algorithms: A statistical approach. Information Sciences, 2014, 289, 41-58.	4.0	117
82	Random vector functional link neural network based ensemble deep learning. Pattern Recognition, 2021, 117, 107978.	5.1	116
83	Multi-objective evolutionary algorithms based on the summation of normalized objectives and diversified selection. Information Sciences, 2010, 180, 3170-3181.	4.0	113
84	Artificial bee colony algorithm for scheduling and rescheduling fuzzy flexible job shop problem with new job insertion. Knowledge-Based Systems, 2016, 109, 1-16.	4.0	112
85	Efficient constraint handling for optimal reactive power dispatch problems. Swarm and Evolutionary Computation, 2012, 5, 28-36.	4.5	111
86	Ensemble strategies with adaptive evolutionary programming. Information Sciences, 2010, 180, 1571-1581.	4.0	110
87	Visual Tracking With Convolutional Random Vector Functional Link Network. IEEE Transactions on Cybernetics, 2017, 47, 3243-3253.	6.2	110
88	Dynamic multi-swarm particle swarm optimizer with harmony search. Expert Systems With Applications, 2011, 38, 3735-3742.	4.4	109
89	Two-<i>lbests</i> based multi-objective particle swarm optimizer. Engineering Optimization, 2011, 43, 1-17.	1.5	107
90	An Adaptive Multipopulation Differential Evolution With Dynamic Population Reduction. IEEE Transactions on Cybernetics, 2017, 47, 2768-2779.	6.2	106

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91	Oblique Decision Tree Ensemble via Multisurface Proximal Support Vector Machine. IEEE Transactions on Cybernetics, 2015, 45, 2165-2176.	6.2	105
92	A multiobjective approach for optimal placement and sizing of distributed generators and capacitors in distribution network. Applied Soft Computing Journal, 2017, 60, 268-280.	4.1	105
93	Random Forests with ensemble of feature spaces. Pattern Recognition, 2014, 47, 3429-3437.	5.1	100
94	Computing with the collective intelligence of honey bees â€" A survey. Swarm and Evolutionary Computation, 2017, 32, 25-48.	4.5	100
95	Multi-objective robust PID controller tuning using two lbests multi-objective particle swarm optimization. Information Sciences, 2011, 181, 3323-3335.	4.0	98
96	A variable reduction strategy for evolutionary algorithms handling equality constraints. Applied Soft Computing Journal, 2015, 37, 774-786.	4.1	94
97	Solving the steelmaking casting problem using an effective fruit fly optimisation algorithm. Knowledge-Based Systems, 2014, 72, 28-36.	4.0	93
98	Ensemble and Arithmetic Recombination-Based Speciation Differential Evolution for Multimodal Optimization. IEEE Transactions on Cybernetics, 2016, 46, 64-74.	6.2	93
99	Linear dimensionality reduction using relevance weighted LDA. Pattern Recognition, 2005, 38, 485-493.	5.1	91
100	A local-best harmony search algorithm with dynamic sub-harmony memories for lot-streaming flow shop scheduling problem. Expert Systems With Applications, 2011, 38, 3252-3259.	4.4	91
101	Iterated greedy algorithms for the blocking flowshop scheduling problem with makespan criterion. Computers and Operations Research, 2017, 77, 111-126.	2.4	91
102	Benchmarking Ensemble Classifiers with Novel Co-Trained Kernel Ridge Regression and Random Vector Functional Link Ensembles [Research Frontier]. IEEE Computational Intelligence Magazine, 2017, 12, 61-72.	3.4	90
103	A variable iterated greedy algorithm with differential evolution for the no-idle permutation flowshop scheduling problem. Computers and Operations Research, 2013, 40, 1729-1743.	2.4	86
104	Differential evolution using improved crowding distance for multimodal multiobjective optimization. Swarm and Evolutionary Computation, 2021, 62, 100849.	4.5	86
105	A Benchmark-Suite of real-World constrained multi-objective optimization problems and some baseline results. Swarm and Evolutionary Computation, 2021, 67, 100961.	4.5	86
106	Novel benchmark functions for continuous multimodal optimization with comparative results. Swarm and Evolutionary Computation, 2016, 26, 23-34.	4.5	85
107	Robust visual tracking via co-trained Kernelized correlation filters. Pattern Recognition, 2017, 69, 82-93.	5.1	84
108	Dynamic Multi-Swarm Particle Swarm Optimizer with a Novel Constraint-Handling Mechanism. , 0, , .		83

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109	A Differential Covariance Matrix Adaptation Evolutionary Algorithm for real parameter optimization. Information Sciences, 2012, 182, 199-219.	4.0	83
110	Robust growing neural gas algorithm with application in cluster analysis. Neural Networks, 2004, 17, 1135-1148.	3.3	82
111	General twin support vector machine with pinball loss function. Information Sciences, 2019, 494, 311-327.	4.0	82
112	A survey on meta-heuristics for solving disassembly line balancing, planning and scheduling problems in remanufacturing. Swarm and Evolutionary Computation, 2020, 57, 100719.	4.5	82
113	An improved differential evolution algorithm using efficient adapted surrogate model for numerical optimization. Information Sciences, 2018, 451-452, 326-347.	4.0	81
114	Gene selection algorithms for microarray data based on least squares support vector machine. BMC Bioinformatics, 2006, 7, 95.	1.2	77
115	On the origins of randomization-based feedforward neural networks. Applied Soft Computing Journal, 2021, 105, 107239.	4.1	77
116	Bayesian optimization based dynamic ensemble for time series forecasting. Information Sciences, 2022, 591, 155-175.	4.0	77
117	Stacked autoencoder based deep random vector functional link neural network for classification. Applied Soft Computing Journal, 2019, 85, 105854.	4.1	76
118	Oblique random forest ensemble via Least Square Estimation for time series forecasting. Information Sciences, 2017, 420, 249-262.	4.0	76
119	A local-best harmony search algorithm with dynamic subpopulations. Engineering Optimization, 2010, 42, 101-117.	1.5	75
120	A hybrid artificial bee colony algorithm for the job-shop scheduling problem with no-wait constraint. Soft Computing, 2017, 21, 1193-1202.	2.1	75
121	Prediction of Apoptosis Protein Locations with Genetic Algorithms and Support Vector Machines Through a New Mode of Pseudo Amino Acid Composition. Protein and Peptide Letters, 2010, 17, 1473-1479.	0.4	75
122	Computational intelligence in sports: Challenges and opportunities within a new research domain. Applied Mathematics and Computation, 2015, 262, 178-186.	1.4	74
123	Heterogeneous oblique random forest. Pattern Recognition, 2020, 99, 107078.	5.1	74
124	CADE: A hybridization of Cultural Algorithm and Differential Evolution for numerical optimization. Information Sciences, 2017, 378, 215-241.	4.0	72
125	Pattern recognition by graph matching using the Potts MFT neural networks. Pattern Recognition, 1995, 28, 997-1009.	5.1	71
126	Modeling of steelmaking process with effective machine learning techniques. Expert Systems With Applications, 2015, 42, 4687-4696.	4.4	71

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127	Identification of structurally conserved residues of proteins in absence of structural homologs using neural network ensemble. Bioinformatics, 2009, 25, 204-210.	1.8	70
128	Multi-objective optimal power flow solutions using a constraint handling technique of evolutionary algorithms. Soft Computing, 2020, 24, 2999-3023.	2.1	69
129	An improved class of real-coded Genetic Algorithms for numerical optimizationâœ°. Neurocomputing, 2018, 275, 155-166.	3.5	68
130	Minimizing harmonic distortion in power system with optimal design of hybrid active power filter using differential evolution. Applied Soft Computing Journal, 2017, 61, 486-496.	4.1	64
131	An ensemble of decision trees with random vector functional link networks for multi-class classification. Applied Soft Computing Journal, 2018, 70, 1146-1153.	4.1	63
132	Multi-objective optimization using self-adaptive differential evolution algorithm. , 2009, , .		62
133	LINEAR ANTENNA ARRAY SYNTHESIS WITH CONSTRAINED MULTI-OBJECTIVE DIFFERENTIAL EVOLUTION. Progress in Electromagnetics Research B, 2010, 21, 87-111.	0.7	62
134	Design of Yagiâ€"Uda antennas using comprehensive learning particle swarm optimisation. IET Microwaves Antennas and Propagation, 2005, 152, 340.	1.2	61
135	An effective discrete harmony search algorithm for flexible job shop scheduling problem with fuzzy processing time. International Journal of Production Research, 2015, 53, 5896-5911.	4.9	60
136	Letter: On non-iterative learning algorithms with closed-form solution. Applied Soft Computing Journal, 2018, 70, 1078-1082.	4.1	60
137	Differential Evolution Algorithm with Ensemble of Parameters and Mutation and Crossover Strategies. Lecture Notes in Computer Science, 2010, , 71-78.	1.0	59
138	A Hybrid Iterated Greedy Algorithm for a Crane Transportation Flexible Job Shop Problem. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2153-2170.	3.4	58
139	Novel multimodal problems and differential evolution with ensemble of restricted tournament selection. , 2010, , .		57
140	An efficient Differential Evolution algorithm for stochastic OPF based activeâ€"reactive power dispatch problem considering renewable generators. Applied Soft Computing Journal, 2019, 76, 445-458.	4.1	57
141	A novel concurrent particle swarm optimization. , 0, , .		56
142	Differential evolution with ensemble of constraint handling techniques for solving CEC 2010 benchmark problems. , 2010, , .		56
143	Artificial neural network regression as a local search heuristic for ensemble strategies in differential evolution. Nonlinear Dynamics, 2016, 84, 895-914.	2.7	56
144	Optimal placement and sizing of FACTS devices for optimal power flow in a wind power integrated electrical network. Neural Computing and Applications, 2021, 33, 6753-6774.	3.2	56

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145	Evolutionary many-Objective algorithm based on fractional dominance relation and improved objective space decomposition strategy. Swarm and Evolutionary Computation, 2021, 60, 100776.	4.5	56
146	Predicting protein structural class by SVM with class-wise optimized features and decision probabilities. Journal of Theoretical Biology, 2008, 253, 375-380.	0.8	55
147	Effective ensembles of heuristics for scheduling flexible job shop problem with new job insertion. Computers and Industrial Engineering, 2015, 90, 107-117.	3.4	53
148	Robust Visual Tracking Using Oblique Random Forests. , 2017, , .		53
149	Ensemble of parameters in a sinusoidal differential evolution with niching-based population reduction. Swarm and Evolutionary Computation, 2018, 39, 141-156.	4.5	52
150	Performance Evaluation of Multiagent Genetic Algorithm. Natural Computing, 2006, 5, 83-96.	1.8	50
151	A differential evolution algorithm for the no-idle flowshop scheduling problem with total tardiness criterion. International Journal of Production Research, 2011, 49, 5033-5050.	4.9	50
152	Pattern recognition by homomorphic graph matching using Hopfield neural networks. Image and Vision Computing, 1995, 13, 45-60.	2.7	49
153	An Adaptive Resource Allocation Strategy for Objective Space Partition-Based Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-16.	5.9	49
154	A Multi-Populated Differential Evolution Algorithm for Solving Constrained Optimization Problem. , 0, , .		48
155	A discrete particle swarm optimization algorithm for the generalized traveling salesman problem. , 2007, , .		48
156	Multi-objective optimization based on self-adaptive differential evolution algorithm. , 2007, , .		47
157	Empirical study on the effect of population size on Differential evolution Algorithm. , 2008, , .		47
158	Dynamic multi-swarm particle swarm optimizer with sub-regional harmony search. , 2010, , .		45
159	Ensemble Many-Objective Optimization Algorithm Based on Voting Mechanism. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1716-1730.	5.9	44
160	Evolutionary multiobjective optimization in dynamic environments: A set of novel benchmark functions. , 2014, , .		43
161	Structural pattern recognition using genetic algorithms. Pattern Recognition, 2002, 35, 1883-1893.	5.1	42
162	Genetic-algorithm-based design of a reconfigurable antenna array with discrete phase shifters. Microwave and Optical Technology Letters, 2005, 45, 461-465.	0.9	42

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163	Decomposition based multi-objective evolutionary algorithm for windfarm layout optimization. Renewable Energy, 2018, 115, 326-337.	4.3	42
164	Comprehensive evaluation of twin SVM based classifiers on UCI datasets. Applied Soft Computing Journal, 2019, 83, 105617.	4.1	42
165	Hierarchical overlapped SOM's for pattern classification. IEEE Transactions on Neural Networks, 1999, 10, 193-196.	4.8	40
166	Enhanced neural gas network for prototype-based clustering. Pattern Recognition, 2005, 38, 1275-1288.	5.1	40
167	Solving Traffic Signal Scheduling Problems in Heterogeneous Traffic Network by Using Meta-Heuristics. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 3272-3282.	4.7	40
168	Effective heuristics for the no-wait flow shop scheduling problem with total flow time minimization. International Journal of Advanced Manufacturing Technology, 2013, 66, 1563-1572.	1.5	38
169	Oblique Decision Tree Ensemble via Twin Bounded SVM. Expert Systems With Applications, 2020, 143, 113072.	4.4	38
170	Evaluation of Comprehensive Learning Particle Swarm Optimizer. Lecture Notes in Computer Science, 2004, , 230-235.	1.0	37
171	Wavelength detection in FBG sensor network using tree search DMS-PSO. IEEE Photonics Technology Letters, 2006, 18, 1305-1307.	1.3	37
172	Empirical investigations into the exponential crossover of differential evolutions. Swarm and Evolutionary Computation, 2013, 9, 27-36.	4.5	37
173	Identification of catalytic residues from protein structure using support vector machine with sequence and structural features. Biochemical and Biophysical Research Communications, 2008, 367, 630-634.	1.0	36
174	A novel hybrid Cultural Algorithms framework with trajectory-based search for global numerical optimization. Information Sciences, 2016, 334-335, 219-249.	4.0	36
175	Short-term Electricity Price Forecasting with Empirical Mode Decomposition based Ensemble Kernel Machines. Procedia Computer Science, 2017, 108, 1308-1317.	1.2	36
176	Particle swarm optimization for the design of low-dispersion fiber Bragg gratings. IEEE Photonics Technology Letters, 2005, 17, 615-617.	1.3	35
177	A Discrete Differential Evolution Algorithm for the No-Wait Flowshop Scheduling Problem with Total Flowtime Criterion. , 2007, , .		35
178	Differential evolution algorithm with ensemble of populations for global numerical optimization. Opsearch, 2009, 46, 184-213.	1.1	35
179	Multiclass cancer classification by support vector machines with class-wise optimized genes and probability estimates. Journal of Theoretical Biology, 2009, 259, 533-540.	0.8	35
180	Unit commitment - a survey and comparison of conventional and nature inspired algorithms. International Journal of Bio-Inspired Computation, 2014, 6, 71.	0.6	35

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181	Kernel neural gas algorithms with application to cluster analysis. , 2004, , .		34
182	SVMCRYS: An SVM Approach for the Prediction of Protein Crystallization Propensity from Protein Sequence. Protein and Peptide Letters, 2010, 17, 423-430.	0.4	34
183	A DIFFERENTIAL EVOLUTION APPROACH FOR ROBUST ADAPTIVE BEAMFORMING BASED ON JOINT ESTIMATION OF LOOK DIRECTION AND ARRAY GEOMETRY. Progress in Electromagnetics Research, 2011, 119, 381-394.	1.6	34
184	Ensemble differential evolution algorithm for CEC2011 problems. , 2011, , .		34
185	Random vector functional link neural network based ensemble deep learning for short-term load forecasting. Expert Systems With Applications, 2022, 206, 117784.	4.4	34
186	Recognition of handprinted Chinese characters by constrained graph matching. Image and Vision Computing, 1998, 16, 191-201.	2.7	33
187	Design of triangular FBG filter for sensor applications using covariance matrix adapted evolution algorithm. Optics Communications, 2006, 260, 716-722.	1.0	33
188	SPRED: A machine learning approach for the identification of classical and non-classical secretory proteins in mammalian genomes. Biochemical and Biophysical Research Communications, 2010, 391, 1306-1311.	1.0	33
189	A balanced fuzzy Cultural Algorithm with a modified Levy flight search for real parameter optimization. Information Sciences, 2018, 447, 12-35.	4.0	33
190	A Greedy Cooperative Co-Evolutionary Algorithm With Problem-Specific Knowledge for Multiobjective Flowshop Group Scheduling Problems. IEEE Transactions on Evolutionary Computation, 2023, 27, 430-444.	7.5	33
191	Initialization insensitive LVQ algorithm based on cost-function adaptation. Pattern Recognition, 2005, 38, 773-776.	5.1	32
192	Uncorrelated heteroscedastic LDA based on the weighted pairwise Chernoff criterion. Pattern Recognition, 2005, 38, 613-616.	5.1	32
193	Meta-Heuristics for Bi-Objective Urban Traffic Light Scheduling Problems. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2618-2629.	4.7	32
194	Walk-forward empirical wavelet random vector functional link for time series forecasting. Applied Soft Computing Journal, 2021, 108, 107450.	4.1	32
195	An Autonomous Path Planning Method for Unmanned Aerial Vehicle Based on a Tangent Intersection and Target Guidance Strategy. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3061-3073.	4.7	32
196	Differential evolution with orthogonal array€based initialization and a novel selection strategy. Swarm and Evolutionary Computation, 2022, 68, 101010.	4.5	32
197	An Ensemble of Kernel Ridge Regression for Multi-class Classification. Procedia Computer Science, 2017, 108, 375-383.	1.2	31
198	Least squares KNN-based weighted multiclass twin SVM. Neurocomputing, 2021, 459, 454-464.	3.5	31

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199	A modified cultural algorithm with a balanced performance for the differential evolution frameworks. Knowledge-Based Systems, 2016, 111, 73-86.	4.0	30
200	Time series classification using diversified Ensemble Deep Random Vector Functional Link and Resnet features. Applied Soft Computing Journal, 2021, 112, 107826.	4.1	30
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