Ponnuthurai N Suganthan

List of Publications by Year
in descending order

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426 papers	41,489 citations	3933 88 h-index	2953 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.	10.0	4,326
2	Differential Evolution Algorithm With Strategy Adaptation for Global Numerical Optimization. IEEE Transactions on Evolutionary Computation, 2009, 13, 398-417.	10.0	3,183
3	Comprehensive learning particle swarm optimizer for global optimization of multimodal functions. IEEE Transactions on Evolutionary Computation, 2006, 10, 281-295.	10.0	3,070
4	Multiobjective evolutionary algorithms: A survey of the state of the art. Swarm and Evolutionary Computation, 2011, 1, 32-49.	8.1	1,788
5	Recent advances in differential evolution â€“ An updated survey. Swarm and Evolutionary Computation, 2016, 27, 1-30.	8.1	1,261
6	Differential evolution algorithm with ensemble of parameters and mutation strategies. Applied Soft Computing Journal, 2011, 11, 1679-1696.	7.2	1,156
7	Evolutionary extreme learning machine. Pattern Recognition, 2005, 38, 1759-1763.	8.1	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.	5.0	517
10	A discrete artificial bee colony algorithm for the lot-streaming flow shop scheduling problem. Information Sciences, 2011, 181, 2455-2468.	6.9	493
11	Ensemble Classification and Regression-Recent Developments, Applications and Future Directions [Review Article]. IEEE Computational Intelligence Magazine, 2016, 11, 41-53.	3.2	470
12	Differential Evolution With Neighborhood Mutation for Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2012, 16, 601-614.	10.0	440
13	Differential evolution with multi-population based ensemble of mutation strategies. Information Sciences, 2016, 329, 329-345.	6.9	435
14	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	8.1	430
15	Ensemble of Constraint Handling Techniques. IEEE Transactions on Evolutionary Computation, 2010, 14, 561-579.	10.0	397
16	Heterogeneous comprehensive learning particle swarm optimization with enhanced exploration and exploitation. Swarm and Evolutionary Computation, 2015, 24, 11-24.	8.1	380
17	Decomposition-Based Multiobjective Evolutionary Algorithm With an Ensemble of Neighborhood Sizes. IEEE Transactions on Evolutionary Computation, 2012, 16, 442-446.	10.0	364
18	Empirical Mode Decomposition based ensemble deep learning for load demand time series forecasting. Applied Soft Computing Journal, 2017, 54, 246-255.	7.2	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.	2.2	346
20	An analysis of diversity measures. Machine Learning, 2006, 65, 247-271.	5.4	343
21	Optimal power flow solutions incorporating stochastic wind and solar power. Energy Conversion and Management, 2017, 148, 1194-1207.	9.2	342
22	A Distance-Based Locally Informed Particle Swarm Model for Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 387-402.	10.0	327
23	Real-parameter evolutionary multimodal optimization â€" A survey of the state-of-the-art. Swarm and Evolutionary Computation, 2011, 1, 71-88.	8.1	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.	16.4	314
25	A comprehensive evaluation of random vector functional link networks. Information Sciences, 2016, 367-368, 1094-1105.	6.9	306
26	Ensemble of differential evolution variants. Information Sciences, 2018, 423, 172-186.	6.9	302
27	Economic dispatch using hybrid grey wolf optimizer. Energy, 2016, 111, 630-641.	8.8	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.	8.8	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.	6.9	237
33	AFP-Pred: A random forest approach for predicting antifreeze proteins from sequence-derived properties. Journal of Theoretical Biology, 2011, 270, 56-62.	1.7	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.	8.1	223
35	A novel hybrid discrete differential evolution algorithm for blocking flow shop scheduling problems. Computers and Operations Research, 2010, 37, 509-520.	4.0	221
36	A discrete artificial bee colony algorithm for the total flowtime minimization in permutation flow shops. Information Sciences, 2011, 181, 3459-3475.	6.9	220

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37	Ensemble particle swarm optimizer. Applied Soft Computing Journal, 2017, 55, 533-548.	7.2	217
38	Random vector functional link network for short-term electricity load demand forecasting. Information Sciences, 2016, 367-368, 1078-1093.	6.9	214
39	Major Advances in Particle Swarm Optimization: Theory, Analysis, and Application. Swarm and Evolutionary Computation, 2021, 63, 100868.	8.1	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.	8.1	196
41	Ensemble strategies for population-based optimization algorithms â€“ A survey. Swarm and Evolutionary Computation, 2019, 44, 695-711.	8.1	189
42	Multiobjective economic-environmental power dispatch with stochastic wind-solar-small hydro power. Energy, 2018, 150, 1039-1057.	8.8	187
43	Flexible Job-Shop Rescheduling for New Job Insertion by Using Discrete Jaya Algorithm. IEEE Transactions on Cybernetics, 2019, 49, 1944-1955.	9.5	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.	8.1	180
46	A dynamic neighborhood learning based particle swarm optimizer for global numerical optimization. Information Sciences, 2012, 209, 16-36.	6.9	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.	8.1	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.	8.1	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.	11.3	151
53	Niching particle swarm optimization with local search for multi-modal optimization. Information Sciences, 2012, 197, 131-143.	6.9	149
54	Comprehensive learning particle swarm optimizer for solving multiobjective optimization problems. International Journal of Intelligent Systems, 2006, 21, 209-226.	5.7	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.	4.0	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.	5.1	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.	7.6	144
58	Self-adaptive differential evolution with multi-trajectory search for large-scale optimization. Soft Computing, 2011, 15, 2175-2185.	3.6	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.	2.2	140
61	Static and dynamic photovoltaic modelsâ€™ parameters identification using Chaotic Heterogeneous Comprehensive Learning Particle Swarm Optimizer variants. Energy Conversion and Management, 2019, 182, 546-563.	9.2	140
62	Constrained multi-objective optimization algorithm with an ensemble of constraint handling methods. Engineering Optimization, 2011, 43, 403-416.	2.6	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.	3.0	137
64	Pareto-based grouping discrete harmony search algorithm for multi-objective flexible job shop scheduling. Information Sciences, 2014, 289, 76-90.	6.9	136
65	An approach for classification of highly imbalanced data using weighting and undersampling. Amino Acids, 2010, 39, 1385-1391.	2.7	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.	7.2	134
67	Real-parameter unconstrained optimization based on enhanced fitness-adaptive differential evolution algorithm with novel mutation. Soft Computing, 2018, 22, 3215-3235.	3.6	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.	8.9	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.	4.2	131
70	Discrete harmony search algorithm for flexible job shop scheduling problem with multiple objectives. Journal of Intelligent Manufacturing, 2016, 27, 363-374.	7.3	131
71	Ensemble of niching algorithms. Information Sciences, 2010, 180, 2815-2833.	6.9	126
72	Ensemble incremental learning Random Vector Functional Link network for short-term electric load forecasting. Knowledge-Based Systems, 2018, 145, 182-196.	7.1	126

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73	Population topologies for particle swarm optimization and differential evolution. Swarm and Evolutionary Computation, 2018, 39, 24-35.	8.1	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.	7.6	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.	10.0	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.	8.1	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.	7.2	121
79	Economic emission dispatch problems with stochastic wind power using summation based multi-objective evolutionary algorithm. Information Sciences, 2016, 351, 48-66.	6.9	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.	3.5	117
81	Analyzing convergence performance of evolutionary algorithms: A statistical approach. Information Sciences, 2014, 289, 41-58.	6.9	117
82	Random vector functional link neural network based ensemble deep learning. Pattern Recognition, 2021, 117, 107978.	8.1	116
83	Multi-objective evolutionary algorithms based on the summation of normalized objectives and diversified selection. Information Sciences, 2010, 180, 3170-3181.	6.9	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.	7.1	112
85	Efficient constraint handling for optimal reactive power dispatch problems. Swarm and Evolutionary Computation, 2012, 5, 28-36.	8.1	111
86	Ensemble strategies with adaptive evolutionary programming. Information Sciences, 2010, 180, 1571-1581.	6.9	110
87	Visual Tracking With Convolutional Random Vector Functional Link Network. IEEE Transactions on Cybernetics, 2017, 47, 3243-3253.	9.5	110
88	Dynamic multi-swarm particle swarm optimizer with harmony search. Expert Systems With Applications, 2011, 38, 3735-3742.	7.6	109
89	Two-<i>lbests</i>based multi-objective particle swarm optimizer. Engineering Optimization, 2011, 43, 1-17.	2.6	107
90	An Adaptive Multipopulation Differential Evolution With Dynamic Population Reduction. IEEE Transactions on Cybernetics, 2017, 47, 2768-2779.	9.5	106

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91	Oblique Decision Tree Ensemble via Multisurface Proximal Support Vector Machine. IEEE Transactions on Cybernetics, 2015, 45, 2165-2176.	9.5	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.	7.2	105
93	Random Forests with ensemble of feature spaces. Pattern Recognition, 2014, 47, 3429-3437.	8.1	100
94	Computing with the collective intelligence of honey bees â€“ A survey. Swarm and Evolutionary Computation, 2017, 32, 25-48.	8.1	100
95	Multi-objective robust PID controller tuning using two lbests multi-objective particle swarm optimization. Information Sciences, 2011, 181, 3323-3335.	6.9	98
96	A variable reduction strategy for evolutionary algorithms handling equality constraints. Applied Soft Computing Journal, 2015, 37, 774-786.	7.2	94
97	Solving the steelmaking casting problem using an effective fruit fly optimisation algorithm. Knowledge-Based Systems, 2014, 72, 28-36.	7.1	93
98	Ensemble and Arithmetic Recombination-Based Speciation Differential Evolution for Multimodal Optimization. IEEE Transactions on Cybernetics, 2016, 46, 64-74.	9.5	93
99	Linear dimensionality reduction using relevance weighted LDA. Pattern Recognition, 2005, 38, 485-493.	8.1	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.	7.6	91
101	Iterated greedy algorithms for the blocking flowshop scheduling problem with makespan criterion. Computers and Operations Research, 2017, 77, 111-126.	4.0	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.	3.2	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.	4.0	86
104	Differential evolution using improved crowding distance for multimodal multiobjective optimization. Swarm and Evolutionary Computation, 2021, 62, 100849.	8.1	86
105	A Benchmark-Suite of real-World constrained multi-objective optimization problems and some baseline results. Swarm and Evolutionary Computation, 2021, 67, 100961.	8.1	86
106	Novel benchmark functions for continuous multimodal optimization with comparative results. Swarm and Evolutionary Computation, 2016, 26, 23-34.	8.1	85
107	Robust visual tracking via co-trained Kernelized correlation filters. Pattern Recognition, 2017, 69, 82-93.	8.1	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.	6.9	83
110	Robust growing neural gas algorithm with application in cluster analysis. Neural Networks, 2004, 17, 1135-1148.	5.9	82
111	General twin support vector machine with pinball loss function. Information Sciences, 2019, 494, 311-327.	6.9	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.	8.1	82
113	An improved differential evolution algorithm using efficient adapted surrogate model for numerical optimization. Information Sciences, 2018, 451-452, 326-347.	6.9	81
114	Gene selection algorithms for microarray data based on least squares support vector machine. BMC Bioinformatics, 2006, 7, 95.	2.6	77
115	On the origins of randomization-based feedforward neural networks. Applied Soft Computing Journal, 2021, 105, 107239.	7.2	77
116	Bayesian optimization based dynamic ensemble for time series forecasting. Information Sciences, 2022, 591, 155-175.	6.9	77
117	Stacked autoencoder based deep random vector functional link neural network for classification. Applied Soft Computing Journal, 2019, 85, 105854.	7.2	76
118	Oblique random forest ensemble via Least Square Estimation for time series forecasting. Information Sciences, 2017, 420, 249-262.	6.9	76
119	A local-best harmony search algorithm with dynamic subpopulations. Engineering Optimization, 2010, 42, 101-117.	2.6	75
120	A hybrid artificial bee colony algorithm for the job-shop scheduling problem with no-wait constraint. Soft Computing, 2017, 21, 1193-1202.	3.6	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.	0.9	75
122	Computational intelligence in sports: Challenges and opportunities within a new research domain. Applied Mathematics and Computation, 2015, 262, 178-186.	2.2	74
123	Heterogeneous oblique random forest. Pattern Recognition, 2020, 99, 107078.	8.1	74
124	CADE: A hybridization of Cultural Algorithm and Differential Evolution for numerical optimization. Information Sciences, 2017, 378, 215-241.	6.9	72
125	Pattern recognition by graph matching using the Potts MFT neural networks. Pattern Recognition, 1995, 28, 997-1009.	8.1	71
126	Modeling of steelmaking process with effective machine learning techniques. Expert Systems With Applications, 2015, 42, 4687-4696.	7.6	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.	4.1	70
128	Multi-objective optimal power flow solutions using a constraint handling technique of evolutionary algorithms. Soft Computing, 2020, 24, 2999-3023.	3.6	69
129	An improved class of real-coded Genetic Algorithms for numerical optimizationâœ°. Neurocomputing, 2018, 275, 155-166.	5.9	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.	7.2	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.	7.2	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.	1.0	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.	7.5	60
136	Letter: On non-iterative learning algorithms with closed-form solution. Applied Soft Computing Journal, 2018, 70, 1078-1082.	7.2	60
137	Differential Evolution Algorithm with Ensemble of Parameters and Mutation and Crossover Strategies. Lecture Notes in Computer Science, 2010, , 71-78.	1.3	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.	5.2	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.	7.2	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.	5.2	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.	5.6	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.	8.1	56
146	Predicting protein structural class by SVM with class-wise optimized features and decision probabilities. Journal of Theoretical Biology, 2008, 253, 375-380.	1.7	55
147	Effective ensembles of heuristics for scheduling flexible job shop problem with new job insertion. Computers and Industrial Engineering, 2015, 90, 107-117.	6.3	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.	8.1	52
150	Performance Evaluation of Multiagent Genetic Algorithm. Natural Computing, 2006, 5, 83-96.	3.0	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.	7.5	50
152	Pattern recognition by homomorphic graph matching using Hopfield neural networks. Image and Vision Computing, 1995, 13, 45-60.	4.5	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.	9.3	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.	9.3	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.	8.1	42
162	Genetic-algorithm-based design of a reconfigurable antenna array with discrete phase shifters. Microwave and Optical Technology Letters, 2005, 45, 461-465.	1.4	42

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163	Decomposition based multi-objective evolutionary algorithm for windfarm layout optimization. Renewable Energy, 2018, 115, 326-337.	8.9	42
164	Comprehensive evaluation of twin SVM based classifiers on UCI datasets. Applied Soft Computing Journal, 2019, 83, 105617.	7.2	42
165	Hierarchical overlapped SOM's for pattern classification. IEEE Transactions on Neural Networks, 1999, 10, 193-196.	4.2	40
166	Enhanced neural gas network for prototype-based clustering. Pattern Recognition, 2005, 38, 1275-1288.	8.1	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.	8.0	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.	3.0	38
169	Oblique Decision Tree Ensemble via Twin Bounded SVM. Expert Systems With Applications, 2020, 143, 113072.	7.6	38
170	Evaluation of Comprehensive Learning Particle Swarm Optimizer. Lecture Notes in Computer Science, 2004, , 230-235.	1.3	37
171	Wavelength detection in FBG sensor network using tree search DMS-PSO. IEEE Photonics Technology Letters, 2006, 18, 1305-1307.	2.5	37
172	Empirical investigations into the exponential crossover of differential evolutions. Swarm and Evolutionary Computation, 2013, 9, 27-36.	8.1	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.	2.1	36
174	A novel hybrid Cultural Algorithms framework with trajectory-based search for global numerical optimization. Information Sciences, 2016, 334-335, 219-249.	6.9	36
175	Short-term Electricity Price Forecasting with Empirical Mode Decomposition based Ensemble Kernel Machines. Procedia Computer Science, 2017, 108, 1308-1317.	2.0	36
176	Particle swarm optimization for the design of low-dispersion fiber Bragg gratings. IEEE Photonics Technology Letters, 2005, 17, 615-617.	2.5	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.	1.8	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.	1.7	35
180	Unit commitment - a survey and comparison of conventional and nature inspired algorithms. International Journal of Bio-Inspired Computation, 2014, 6, 71.	0.9	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.	0.9	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.	4.4	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.	7.6	34
186	Recognition of handprinted Chinese characters by constrained graph matching. Image and Vision Computing, 1998, 16, 191-201.	4.5	33
187	Design of triangular FBG filter for sensor applications using covariance matrix adapted evolution algorithm. Optics Communications, 2006, 260, 716-722.	2.1	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.	2.1	33
189	A balanced fuzzy Cultural Algorithm with a modified Levy flight search for real parameter optimization. Information Sciences, 2018, 447, 12-35.	6.9	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.	10.0	33
191	Initialization insensitive LVQ algorithm based on cost-function adaptation. Pattern Recognition, 2005, 38, 773-776.	8.1	32
192	Uncorrelated heteroscedastic LDA based on the weighted pairwise Chernoff criterion. Pattern Recognition, 2005, 38, 613-616.	8.1	32
193	Meta-Heuristics for Bi-Objective Urban Traffic Light Scheduling Problems. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2618-2629.	8.0	32
194	Walk-forward empirical wavelet random vector functional link for time series forecasting. Applied Soft Computing Journal, 2021, 108, 107450.	7.2	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.	8.0	32
196	Differential evolution with orthogonal arrayâ€based initialization and a novel selection strategy. Swarm and Evolutionary Computation, 2022, 68, 101010.	8.1	32
197	An Ensemble of Kernel Ridge Regression for Multi-class Classification. Procedia Computer Science, 2017, 108, 375-383.	2.0	31
198	Least squares KNN-based weighted multiclass twin SVM. Neurocomputing, 2021, 459, 454-464.	5.9	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.	7.1	30
200	Time series classification using diversified Ensemble Deep Random Vector Functional Link and Resnet features. Applied Soft Computing Journal, 2021, 112, 107826.	7.2	30
201	Hopfield network with constraint parameter adaptation for overlapped shape recognition. IEEE Transactions on Neural Networks, 1999, 10, 444-449.	4.2	29
202	A novel kernel prototype-based learning algorithm. , 2004, , .		29
203	Particle swarm optimization algorithms with novel learning strategies. , 0, , .		29
204	Multi-objective evolutionary programming without non-domination sorting is up to twenty times faster. , 2009, , .		28
205	Using variable reduction strategy to accelerate evolutionary optimization. Applied Soft Computing Journal, 2017, 61, 283-293.	7.2	28
206	Leveraged Neighborhood Restructuring in Cultural Algorithms for Solving Real-World Numerical Optimization Problems. IEEE Transactions on Evolutionary Computation, 2016, 20, 218-231.	10.0	27
207	Bacterial foraging optimization algorithm in robotic cells with sequence-dependent setup times. Knowledge-Based Systems, 2019, 172, 104-122.	7.1	27
208	Guest Editorial Special Issue on Differential Evolution. IEEE Transactions on Evolutionary Computation, 2011, 15, 1-3.	10.0	26
209	Design and modeling of adaptive IIR filtering systems using a weighted sum - variable length particle swarm optimization. Applied Soft Computing Journal, 2021, 109, 107529.	7.2	26
210	MegaMotifBase: a database of structural motifs in protein families and superfamilies. Nucleic Acids Research, 2007, 36, D218-D221.	14.5	25
211	Evolutionary programming with ensemble of explicit memories for dynamic optimization. , 2009, , .		25
212	Solving dynamic economic emission dispatch problem considering wind power by multi-objective differential evolution with ensemble of selection method. Natural Computing, 2019, 18, 695-703.	3.0	25
213	A Voting-Mechanism-Based Ensemble Framework for Constraint Handling Techniques. IEEE Transactions on Evolutionary Computation, 2022, 26, 646-660.	10.0	25
214	SYNTHESIS OF DIFFERENCE PATTERNS FOR MONOPULSE ANTENNAS WITH OPTIMAL COMBINATION OF ARRAY-SIZE AND NUMBER OF SUBARRAYS --- A MULTI-OBJECTIVE OPTIMIZATION APPROACH. Progress in Electromagnetics Research B, 2010, 21, 257-280.	1.0	25
215	A decremental stochastic fractal differential evolution for global numerical optimization. Information Sciences, 2016, 372, 470-491.	6.9	24
216	Neil3 induced neurogenesis protects against prion disease during the clinical phase. Scientific Reports, 2016, 6, 37844.	3.3	24

#	Article	IF	Citations
217	A hybrid cuckoo search algorithm in parallel batch processing machines with unequal job ready times. Computers and Industrial Engineering, 2018, 124, 65-76.	6.3	24
218	Collaborative Truck-Drone Routing for Contactless Parcel Delivery During the Epidemic. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 25077-25091.	8.0	24
219	Shape indexing using self-organizing maps. IEEE Transactions on Neural Networks, 2002, 13, 835-840.	4.2	23
220	A machine learning approach for the identification of odorant binding proteins from sequence-derived properties. BMC Bioinformatics, 2007, 8, 351.	2.6	23
221	High-quality face image generated with conditional boundary equilibrium generative adversarial networks. Pattern Recognition Letters, 2018, 111, 72-79.	4.2	23
222	Self-organizing Hopfield network for attributed relational graph matching. Image and Vision Computing, 1995, 13, 61-73.	4.5	22
223	Video shot motion characterization based on hierarchical overlapped growing neural gas networks. Multimedia Systems, 2003, 9, 378-385.	4.7	22
224	A Discrete Differential Evolution Algorithm for the Total Earliness and Tardiness Penalties with a Common Due Date on a Single-Machine. , 2007, , .		22
225	Empirical Mode Decomposition-k Nearest Neighbor Models for Wind Speed Forecasting. Journal of Power and Energy Engineering, 2014, 02, 176-185.	0.6	22
226	Generalized null space uncorrelated Fisher discriminant analysis for linear dimensionality reduction. Pattern Recognition, 2006, 39, 1805-1808.	8.1	21
227	Ensemble of classification models with weighted functional link network. Applied Soft Computing Journal, 2021, 107, 107322.	7.2	21
228	Evaluation of genetic operators and solution representations for shape recognition by genetic algorithms. Pattern Recognition Letters, 2002, 23, 1589-1597.	4.2	20
229	Modified differential evolution with local search algorithm for real world optimization. , 2011, , .		20
230	Migrating forager population in a multi-population Artificial Bee Colony algorithm with modified perturbation schemes. , 2013, , .		20
231	An ensemble approach with external archive for multi- and many-objective optimization with adaptive mating mechanism and two-level environmental selection. Information Sciences, 2021, 555, 164-197.	6.9	20
232	Oblique and rotation double random forest. Neural Networks, 2022, 153, 496-517.	5.9	19
233	Dynamic Multi-Swarm Particle Swarm Optimization for Multi-objective optimization problems. , 2012, , .		18
234	Fusion of multiple indicators with ensemble incremental learning techniques for stock price forecasting. Journal of Banking and Financial Technology, 2019, 3, 33-42.	3.8	18

#	Article	IF	Citations
235	Sample-Based Data Augmentation Based on Electroencephalogram Intrinsic Characteristics. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 4996-5003.	6.3	18
236	Structural pattern recognition using genetic algorithms with specialized operators. IEEE Transactions on Systems, Man, and Cybernetics, 2003, 33, 156-165.	5.0	17
237	Feature Selection for Microarray Data Using Least Squares SVM and Particle Swarm Optimization. , 2005, , .		17
238	NEAR OPTIMAL ROBUST ADAPTIVE BEAMFORMING APPROACH BASED ON EVOLUTIONARY ALGORITHM. Progress in Electromagnetics Research B, 2011, 29, 157-174.	1.0	17
239	Hybrid Multi-Objective Optimization Approach With Pareto Local Search for Collaborative Truck-Drone Routing Problems Considering Flexible Time Windows. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13011-13025.	8.0	17
240	Differential Evolution Algorithms for the Generalized Assignment problem. , 2009, , .		16
241	Multi-objective differential evolution with diversity enhancement. Journal of Zhejiang University: Science C, 2010, 11, 538-543.	0.7	16
242	Solving manpower scheduling problem in manufacturing using mixed-integer programming with a two-stage heuristic algorithm. International Journal of Advanced Manufacturing Technology, 2010, 46, 1229-1237.	3.0	16
243	Gaussian adaptation based parameter adaptation for differential evolution. , 2014, , .		16
244	Optimal placement of wind turbines in a windfarm using L-SHADE algorithm. , 2017, , .		16
245	Large-Scale Portfolio Optimization Using Multiobjective Evolutionary Algorithms and Preselection Methods. Mathematical Problems in Engineering, 2017, 2017, 1-14.	1.1	16
246	Alzheimer's Disease Diagnosis via Intuitionistic Fuzzy Random Vector Functional Link Network. IEEE Transactions on Computational Social Systems, 2024, , 1-12.	4.4	16
247	Representation learning using deep random vector functional link networks for clustering. Pattern Recognition, 2022, 129, 108744.	8.1	16
248	Combining classifiers based on confidence values. , 1999, , .		15
249	SMotif: a server for structural motifs in proteins. Bioinformatics, 2007, 23, 637-638.	4.1	15
250	Evaluation of novel adaptive evolutionary programming on four constraint handling techniques. , 2008, , .		15
251	A Harmony Search Algorithm with Ensemble of Parameter Sets. , 2009, , .		15
252	Differential Evolution Algorithm: Recent Advances. Lecture Notes in Computer Science, 2012, , 30-46.	1.3	15

#	Article	IF	Citations
253	An enhanced migrating birds optimization algorithm for no-wait flow shop scheduling problem. , 2013, , .		15
254	Solving system-level synthesis problem by a multi-objective estimation of distribution algorithm. Expert Systems With Applications, 2014, 41, 2496-2513.	7.6	15
255	Pattern classification using multiple hierarchical overlapped self-organising maps. Pattern Recognition, 2001, 34, 2173-2179.	8.1	14
256	A genetic algorithm for the generalized traveling salesman problem. , 2007, , .		14
257	Towards generating random forests via extremely randomized trees. , 2014, , .		14
258	Electricity load demand time series forecasting with Empirical Mode Decomposition based Random Vector Functional Link network. , 2016, , .		14
259	Hierarchical overlapped neural gas network with application to pattern classification. Neurocomputing, 2000, 35, 165-176.	5.9	13
260	Multiclass protein fold recognition using multiobjective evolutionary algorithms. , 0, , .		13
261	Insights into Protein Sequence and Structure-Derived Features Mediating 3D Domain Swapping Mechanism using Support Vector Machine Based Approach. Bioinformatics and Biology Insights, 2010, 4, BBI.S4464.	2.0	13
262	Multi-objective differential evolution based on the summation of normalized objectives and improved selection method. , 2011, , .		13
263	Ensemble of Clearing Differential Evolution for Multi-modal Optimization. Lecture Notes in Computer Science, 2012, , 350-357.	1.3	13
264	Minimizing THD of multilevel inverters with optimal values of DC voltages and switching angles using LSHADE-EpSin algorithm. , 2017, , .		13
265	Enhancing Multi-Class Classification of Random Forest using Random Vector Functional Neural Network and Oblique Decision Surfaces. , 2018, , .		13
266	Chaotic Heterogeneous Comprehensive Learning Particle Swarm Optimizer Variants for Permanent Magnet Synchronous Motor Models Parameters Estimation. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2020, 44, 1299-1318.	2.3	13
267	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. Lecture Notes in Computer Science, 2014, , 615-626.	1.3	13
268	Weighting and pruning based ensemble deep random vector functional link network for tabular data classification. Pattern Recognition, 2022, 132, 108879.	8.1	13
269	Constrained multi-objective optimization algorithm with diversity enhanced differential evolution. , 2010, , .		12
270	Constrained self-adaptive differential evolution based design of robust optimal fixed structure controller. Engineering Applications of Artificial Intelligence, 2011, 24, 1084-1093.	8.1	12

#	Article	IF	Citations
271	Multi-objective optimization for shading devices in buildings by using evolutionary algorithms. , 2016, , .		12
272	Differential evolution with stochastic fractal search algorithm for global numerical optimization. , 2016, , .		12
273	Distribution Network Reconfiguration Together with Distributed Generator and Shunt Capacitor Allocation for Loss Minimization. , 2018, , .		12
274	Real-parameter constrained optimization using enhanced quality-based cultural algorithm with novel influence and selection schemes. Information Sciences, 2021, 576, 242-273.	6.9	12
275	Design of optimal length low-dispersion FBG filter using covariance matrix adapted evolution. IEEE Photonics Technology Letters, 2005, 17, 2119-2121.	2.5	11
276	Identification of functionally diverse lipocalin proteins from sequence information using support vector machine. Amino Acids, 2010, 39, 777-783.	2.7	11
277	Ensemble strategies in Compact Differential Evolution. , 2011, , .		11
278	Statistical analysis of convergence performance throughout the evolutionary search: A case study with SaDE-MMTS and Sa-EPSDE-MMTS. , 2013, , .		11
279	Regularized robust fuzzy least squares twin support vector machine for class imbalance learning. , 2020, , .		11
280	Feature Analysis and Classification of Protein Secondary Structure Data. Lecture Notes in Computer Science, 2003, , 1151-1158.	1.3	11
281	Optimal mapping of graph homomorphism onto self organising Hopfield network. Image and Vision Computing, 1997, 15, 679-694.	4.5	10
282	An Accumulation Algorithm for Video Shot Boundary Detection. Multimedia Tools and Applications, 2004, 22, 89-106.	3.9	10
283	Dynamic Grouping Crowding Differential Evolution with Ensemble of Parameters for Multi-modal Optimization. Lecture Notes in Computer Science, 2010, , 19-28.	1.3	10
284	Constrained real parameter optimization with a gradient repair based Differential Evolution algorithm. , 2011, , .		10
285	Large Initial Population and Neighborhood Search incorporated in LSHADE to solve CEC2020 Benchmark Problems. , 2020, , .		10
286	Remodelling State-Space Prediction With Deep Neural Networks for Probabilistic Load Forecasting. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 628-637.	4.9	10
287	Minimum Variance Embedded Random Vector Functional Link Network. Communications in Computer and Information Science, 2020, , 412-419.	0.5	10
288	A General Variable Neighborhood Search Algorithm for the No-Idle Permutation Flowshop Scheduling Problem. Lecture Notes in Computer Science, 2013, , 24-34.	1.3	10

#	Article	IF	Citations
289	Boosting the HONG network. Neurocomputing, 2003, 51, 75-86.	5.9	9
290	Artificial foraging weeds for global numerical optimization over continuous spaces. , 2010, , .		9
291	Design of Fractional Order Controller for a servohydraulic positioning system with micro Artificial Bee Colony algorithm. , 2012, , .		9
292	Metaheuristic algorithms for the quadratic assignment problem. , 2013, , .		9
293	Detecting Wind Power Ramp with Random Vector Functional Link (RVFL) Network. , 2015, , .		9
294	A Differential Evolution Algorithm with Q-Learning for Solving Engineering Design Problems. , 2020, , .		9
295	Solving Fuzzy Job-Shop Scheduling Problem by a Hybrid PSO Algorithm. Lecture Notes in Computer Science, 2012, , 275-282.	1.3	9
296	A differential covariance matrix adaptation evolutionary algorithm for global optimization. , 2011, , .		8
297	Adaptive Differential Evolution with Locality based Crossover for Dynamic Optimization. , 2013, , .		8
298	Optimization of Wind Turbine Rotor Diameters and Hub Heights in a Windfarm Using Differential Evolution Algorithm. Advances in Intelligent Systems and Computing, 2017, , 131-141.	0.6	8
299	Optimal Power Flow Solutions Using Algorithm Success History Based Adaptive Differential Evolution with Linear Population Reduction. , 2018, , .		8
300	A novel dependency-oriented mixed-attribute data classification method. Expert Systems With Applications, 2022, 199, 116782.	7.6	8
301	Programming Hopfield network for object recognition. , 0, , .		7
302	Self-adaptive Differential Evolution with Modified Multi-Trajectory Search for CECâ€™2010 Large Scale Optimization. Lecture Notes in Computer Science, 2010, , 1-10.	1.3	7
303	A hybrid ARIMA-DENFIS method for wind speed forecasting. , 2013, , .		7
304	Empirical mode decomposition based adaboost-backpropagation neural network method for wind speed forecasting. , 2014, , .		7
305	Optimal reconfiguration and distributed generator allocation in distribution network using an advanced adaptive differential evolution. , 2017, , .		7
306	Short-term wind power ramp forecasting with empirical mode decomposition based ensemble learning techniques. , 2017, , .		7

#	Article	IF	Citations
307	Experimental evaluation of stochastic configuration networks: Is SC algorithm inferior to hyper-parameter optimization method?. Applied Soft Computing Journal, 2022, 126, 109257.	7.2	7
308	Multilayer backpropagation network for flexible circuit recognition. , 0, , .		6
309	Improving the performance of a FBG sensor network using a novel dynamic multi-swarm particle swarm optimizer. , 2005, 5998, 191.		6
310	Diversity enhanced Adaptive Evolutionary Programming for solving single objective constrained problems. , 2009, , .		6
311	Diversity enhanced particle swarm optimizer for global optimization of multimodal problems. , 2009, , .		6
312	A differential evolution algorithm with variable parameter search for real-parameter continuous function optimization. , 2009, , .		6
313	Prediction of functionally important sites from protein sequences using sparse kernel least squares classifiers. Biochemical and Biophysical Research Communications, 2009, 384, 155-159.	2.1	6
314	Multi objective evolutionary programming to solve environmental economic dispatch problem. , 2010, , .		6
315	Comprehensive comparison of convergence performance of optimization algorithms based on nonparametric statistical tests. , 2012, , .		6
316	A Swarm Intelligence Approach to Flexible Job-Shop Scheduling Problem with No-Wait Constraint in Remanufacturing. Lecture Notes in Computer Science, 2013, , 593-602.	1.3	6
317	Cluster-based differential evolution with heterogeneous influence for numerical optimization. , 2015, , .		6
318	Visual Tracking with Convolutional Neural Network. , 2015, , .		6
319	A novel differential crossover strategy based on covariance matrix learning with Euclidean neighborhood for solving real-world problems. , 2017, , .		6
320	Dynamic economic emission dispatch based on multi-objective pigeon-inspired optimization with double disturbance. Science China Information Sciences, 2019, 62, 1.	4.3	6
321	MMOGA for Solving Multimodal Multiobjective Optimization Problems with Local Pareto Sets. , 2020, , .		6
322	Voting-mechanism based ensemble constraint handling technique for real-world single-objective constrained optimization. , 2020, , .		6
323	A Differential Evolution Algorithm with a Variable Neighborhood Search for Constrained Function Optimization. Adaptation, Learning, and Optimization, 2015, , 171-184.	0.6	6
324	On the performance of the HONG network for pattern classification. , 2000, , .		5

#	Article	IF	Citations
325	Concurrent PSO and FDR-PSO based reconfigurable phase-differentiated antenna array design. , 0, , .		5
326	A robust neural gas algorithm for clustering analysis. , 0, , .		5
327	Multi-objective robust PID controller tuning using multi-objective differential evolution. , 2010, , .		5
328	SMpred: A Support Vector Machine Approach to Identify Structural Motifs in Protein Structure Without Using Evolutionary Information. Journal of Biomolecular Structure and Dynamics, 2010, 28, 405-414.	3.5	5
329	Improved CMA-ES with Memory based Directed Individual Generation for Real Parameter Optimization. , 2013, , .		5
330	Cultural Algorithms applied to the evolution of robotic soccer team tactics: A novel perspective. , 2014, , .		5
331	Multi-objective harmony search algorithm for layout design in theatre hall acoustics. , 2016, , .		5
332	Ensemble Incremental Random Vector Functional Link Network for Short-term Crude Oil Price Forecasting. , 2018, , .		5
333	Dropout and DropConnect based Ensemble of Random Vector Functional Link Neural Network. , 2018, , .		5
334	Benchmarking Optimization-Based Energy Disaggregation Algorithms. Energies, 2022, 15, 1600.	3.1	5
335	Optimal encoding of graph homomorphism energy using fuzzy information aggregation operators. Pattern Recognition, 1998, 31, 623-639.	8.1	4
336	Multiple HONG network fusion by fuzzy integral. , 0, , .		4
337	Solving jigsaw puzzles using Hopfield neural networks. , 0, , .		4
338	Multiple relational graphs mapping using genetic algorithms. , 0, , .		4
339	Generalized LDA using relevance weighting and evolution strategy. , 0, , .		4
340	Improved MOCLPSO algorithm for environmental/economic dispatch. , 2007, , .		4
341	A dynamic bandwidth guaranteed routing using heuristic search for clustered topology. , 2008, , .		4
342	Instance based random forest with rotated feature space. , 2013, , .		4

#	Article	IF	Citations
343	An ensemble of differential evolution algorithms with variable neighborhood search for constrained function optimization. , 2016, , .		4
344	Stock Price Forecasting with Empirical Mode Decomposition Based Ensemble $$u $$ -Support Vector Regression Model. Communications in Computer and Information Science, 2017, , 22-34.	0.5	4
345	Attributed relational graph matching by neural-gas networks. , 0, , .		3
346	An adaptive cumulation algorithm for video shot detection. , 0, , .		3
347	Unsupervised similarity-based feature selection using heuristic Hopfield neural networks. , 0, , .		3
348	Feature Selection Approach for Quantitative Prediction of Transcriptional Activities. , 2006, , .		3
349	A multi-layered solution for supporting isp traffic demand using genetic algorithm. , 2007, , .		3
350	A novel fuzzy and multiobjective evolutionary algorithm based gene assignment for clustering short time series expression data. , 2007, , .		3
351	Optimal Multi-objective Reactive Power Dispatch Considering Static Voltage Stability Based on Dynamic Multi-group Self-Adaptive Differential Evolution Algorithm. , 2012, , .		3
352	Ensemble Differential Evolution with dynamic subpopulations and adaptive clearing for solving dynamic optimization problems. , 2012, , .		3
353	A kernel-ensemble bagging support vector machine. , 2012, , .		3
354	Memetic Fitness Euclidean-Distance Particle Swarm Optimization for Multi-modal Optimization. Lecture Notes in Computer Science, 2012, , 378-385.	1.3	3
355	Synchronizing Differential Evolution with a modified affinity-based mutation framework. , 2013, , .		3
356	Risk minimization in biometric sensor networks: an evolutionary multi-objective optimization approach. Soft Computing, 2013, 17, 133-144.	3.6	3
357	Hybrid discrete harmony search algorithm for scheduling re-processing problem in remanufacturing. , 2013, , .		3
358	Niching-based Self-adaptive Ensemble DE with MMTS for solving dynamic optimization problems. , 2014, , .		3
359	Ensemble of Constraint Handling Techniques for Single Objective Constrained Optimization. Infosys Science Foundation Series, 2015, , 231-248.	0.6	3
360	Distance Based Locally Informed Particle Swarm Optimizer with Dynamic Population Size. Proceedings in Adaptation, Learning and Optimization, 2015, , 577-587.	1.6	3

#	Article	IF	Citations
361	Differential Evolution with Stochastic Selection for Uncertain Environments: A Smart Grid Application. , 2018, , .		3
362	A Novel Ensemble Method of RVFL For Classification Problem. , 2021, , .		3
363	Improved Adaptive Differential Evolution Algorithm with External Archive. Lecture Notes in Computer Science, 2013, , 170-178.	1.3	3
364	Adaptive Ensemble Variants of Random Vector Functional Link Networks. Communications in Computer and Information Science, 2020, , 30-37.	0.5	3
365	Differential evolution and Evolutionary Programming for solving non-convex economic dispatch problems. , 2008, , .		2
366	Ensemble for Solving Quadratic Assignment Problems. , 2009, , .		2
367	Identification and analysis of transcription factor family-specific features derived from DNA and protein information. Pattern Recognition Letters, 2010, 31, 2097-2102.	4.2	2
368	Solving lot-streaming flow shop scheduling problems using a discrete harmony search algorithm. , 2010, , .		2
369	An improved multi-objective optimization algorithm based on fuzzy dominance for risk minimization in biometric sensor network. , 2012, , .		2
370	Pareto-based discrete harmony search algorithm for flexible job shop scheduling. , 2012, , .		2
371	K-nearest neighbor based bagging SVM pruning. , 2013, , .		2
372	Ensemble crowding differential evolution with neighborhood mutation for multimodal optimization. , 2013, , .		2
373	A Hybrid Discrete Differential Evolution Algorithm for Economic Lot Scheduling Problem with Time Variant Lot Sizing. Advances in Intelligent Systems and Computing, 2013, , 1-12.	0.6	2
374	Modified Artificial Bee Colony Algorithm with Comprehensive Learning Re-initialization Strategy. , 2015, , .		2
375	Heterogeneous ensemble for power load demand forecasting. , 2016, , .		2
376	A heterogeneous ensemble of trees. , 2017, , .		2
377	Unit commitment using time-ahead priority list and heterogeneous comprehensive learning PSO. , 2019, , .		2
378	Co-Trained Random Vector Functional Link Network. , 2021, , .		2

#	Article	IF	Citations
379	A Novel Improved Discrete ABC Algorithm for Manpower Scheduling Problem in Remanufacturing. Lecture Notes in Computer Science, 2013, , 738-749.	1.3	2
380	Differential Evolution with Two Subpopulations. Lecture Notes in Computer Science, 2015, , 1-13.	1.3	2
381	Effective constructive and composite heuristics for grouping printed circuit boards in the electronic assembly industry. Engineering Optimization, 2022, 54, 1758-1772.	2.6	2
382	Fuzzy connectives based optimal mapping of homomorphic ARG matching onto self-organising Hopfield network. , 0, , .		1
383	Structure adaptive multilayer overlapped SOMs with supervision for handprinted digit classification. , 0, , .		1
384	Combining multiple HONG networks for recognizing unconstrained handwritten numerals. , 0, , .		1
385	Growing generalized learning vector quantization with local neighborhood adaptation rule. , 0, , .		1
386	A new generalized LVQ algorithm via harmonic to minimum distance measure transition. , 0, , .		1
387	Upper bounds on Taillard’s benchmark suite for the no-wait flowshop scheduling problem with makespan criterion. , 2008, , .		1
388	Empirical comparison of niching methods on hybrid composition functions. , 2008, , .		1
389	Achieving high robustness and performance in performing QoS-aware route planning for IPTV networks. , 2010, , .		1
390	A differential evolution algorithm for the median cycle problem. , 2011, , .		1
391	Discrete Harmony Search Algorithm for the Disassembly Scheduling Remanufacturing Engineering. Applied Mechanics and Materials, 0, 236-237, 169-174.	0.2	1
392	Comprehensive learning particle swarm optimizer with guidance vector selection. , 2013, , .		1
393	Bilevel Optimization Using Bacteria Foraging Optimization Algorithm. Lecture Notes in Computer Science, 2015, , 351-362.	1.3	1
394	Non-iterative Learning Approaches and Their Applications. Cognitive Computation, 2020, 12, 327-329.	5.2	1
395	Prediction of Transcription Factor Families Using DNA Sequence Features. Lecture Notes in Computer Science, 2008, , 154-164.	1.3	1
396	A Variable Iterated Greedy Algorithm with Differential Evolution for Solving No-Idle Flowshops. Lecture Notes in Computer Science, 2012, , 128-135.	1.3	1

#	Article	IF	Citations
397	Evaluation of Distance Measures for Partial Image Retrieval Using Self-Organizing Map. Lecture Notes in Computer Science, 2001, , 1042-1047.	1.3	1
398	Large Scale Global Optimization Algorithms for IoT Networks: A Comparative Study. , 2021, , .		1
399	Handwritten Chinese character recognition by ARG matching using self-organising Hopfield neural network. , 0, , .		0
400	On mapping of ARG matching onto neural networks. , 0, , .		0
401	Programming Hopfield network for relational homomorphism. , 0, , .		0
402	Learning critical temperature for homomorphic ARG matching by self-organising Hopfield network. , 0, , .		0
403	Potts MFT neural networks for recognition of partially occluded shapes. , 0, , .		0
404	<title>Neural-network-based system for recognition of partially occluded shapes and patterns</title>. , 1996, , .		0
405	Learning parameters for object recognition by the self-organizing Hopfield network. Journal of Network and Computer Applications, 1996, 19, 91-108.	9.1	0
406	Hierarchical overlapped growing neural gas networks with applications to video shot detection and motion characterization. , 0, , .		0
407	Improving the performance of the HONG network with boosting. , 0, , .		0
408	Objective function decomposition within genetic algorithm. , 0, , .		0
409	Efficient Feature Extraction Based on Regularized Uncorrelated Chernoff Discriminant Analysis. , 2006, , .		0
410	Genetic Algorithm for Silhouette Matching. , 2006, , .		0
411	LisBON: A framework for parallelisation and hybridisation of optimisation algorithms. , 2007, , .		0
412	Integration of functional information of genes in fuzzy clustering of short time series gene expression data. , 2010, , .		0
413	Synthesis of Difference Patterns for Monopulse Antenna Arrays â€“ An Evolutionary Multi-objective Optimization Approach. Lecture Notes in Computer Science, 2010, , 504-513.	1.3	0
414	Multiobjective Particle Swarm optimizer with dynamic epsilon-dominance sorting. , 2010, , .		0

#	Article	IF	Citations
415	A composite heuristic for the no-wait flow shop scheduling. , 2012, , .		0
416	Discrete Harmony Search Algorithm for Dynamic FJSSP in Remanufacturing Engineering. Lecture Notes in Computer Science, 2012, , 9-16.	1.3	0
417	Achieving high robustness and performance in QoS-aware route planning for IPTV networks. Information Sciences, 2014, 269, 217-237.	6.9	0
418	Self-adaptive Ensemble Differential Evolution with Sampled Parameter Values for Unit Commitment. Lecture Notes in Computer Science, 2016, , 1-16.	1.3	0
419	Shapesom. , 2001, , 110-117.		0
420	Metaheuristics for Common due Date Total Earliness and Tardiness Single Machine Scheduling Problem. Studies in Computational Intelligence, 2009, , 301-340.	0.9	0
421	Discrete/Binary Approach. Studies in Computational Intelligence, 2009, , 139-162.	0.9	0
422	Constraint Handling in Transmission Network Expansion Planning. Lecture Notes in Computer Science, 2010, , 709-717.	1.3	0
423	Classification of Stock Market Trends with Confidence-Based Selective Predictions. Communications in Computer and Information Science, 2020, , 93-104.	0.5	0
424	Oblique Random Forests on Residual Network Features. Lecture Notes in Computer Science, 2020, , 306-317.	1.3	0
425	Homomorphic ARG matching by Hopfield network. , 0, , .		0
426	Investigating Robustness of Biological vs. Backprop Based Learning. , 2022, , .		0