

# Ponnuthurai N Suganthan

## List of Publications by Citations

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**Version:** 2022-10-05

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

390  
papers

26,794  
citations

77  
h-index

158  
g-index

435  
ext. papers

30,753  
ext. citations

5.5  
avg, IF

7.91  
L-index

#	Paper	IF	Citations
390	Differential Evolution: A Survey of the State-of-the-Art. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2011</b> , 15, 4-31	13.3	2966
389	Differential Evolution Algorithm With Strategy Adaptation for Global Numerical Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2009</b> , 13, 398-417	13.3	2288
388	Comprehensive learning particle swarm optimizer for global optimization of multimodal functions. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2006</b> , 10, 281-295	13.3	2121
387	Multiobjective evolutionary algorithms: A survey of the state of the art. <i>Swarm and Evolutionary Computation</i> , <b>2011</b> , 1, 32-49	9.2	1267
386	Differential evolution algorithm with ensemble of parameters and mutation strategies. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 1679-1696	7.2	863
385	Recent advances in differential evolution [An updated survey]. <i>Swarm and Evolutionary Computation</i> , <b>2016</b> , 27, 1-30	9.2	835
384	Evolutionary extreme learning machine. <i>Pattern Recognition</i> , <b>2005</b> , 38, 1759-1763	7.1	557
383	A discrete artificial bee colony algorithm for the lot-streaming flow shop scheduling problem. <i>Information Sciences</i> , <b>2011</b> , 181, 2455-2468	7.2	376
382	An adaptive differential evolution algorithm with novel mutation and crossover strategies for global numerical optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2012</b> , 42, 482-500		365
381	Self-adaptive differential evolution algorithm for numerical optimization		346
380	Ensemble of Constraint Handling Techniques. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2010</b> , 14, 561-579	13.3	291
379	Differential Evolution With Neighborhood Mutation for Multimodal Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2012</b> , 16, 601-614	13.3	280
378	A self-adaptive global best harmony search algorithm for continuous optimization problems. <i>Applied Mathematics and Computation</i> , <b>2010</b> , 216, 830-848	2.5	278
377	An analysis of diversity measures. <i>Machine Learning</i> , <b>2006</b> , 65, 247-271	3.6	262
376	Ensemble Classification and Regression-Recent Developments, Applications and Future Directions [Review Article]. <i>IEEE Computational Intelligence Magazine</i> , <b>2016</b> , 11, 41-53	4.8	262
375	Differential evolution with multi-population based ensemble of mutation strategies. <i>Information Sciences</i> , <b>2016</b> , 329, 329-345	7.2	250
374	Bio-inspired computation: Where we stand and what's next. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 48, 220-250	9.2	244

373	Heterogeneous comprehensive learning particle swarm optimization with enhanced exploration and exploitation. <i>Swarm and Evolutionary Computation</i> , <b>2015</b> , 24, 11-24	9.2	241
372	Real-parameter evolutionary multimodal optimization – A survey of the state-of-the-art. <i>Swarm and Evolutionary Computation</i> , <b>2011</b> , 1, 71-88	9.2	241
371	Empirical Mode Decomposition based ensemble deep learning for load demand time series forecasting. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 54, 246-255	7.2	230
370	Decomposition-Based Multiobjective Evolutionary Algorithm With an Ensemble of Neighborhood Sizes. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2012</b> , 16, 442-446	13.3	226
369	A Distance-Based Locally Informed Particle Swarm Model for Multimodal Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2013</b> , 17, 387-402	13.3	218
368	Ensemble methods for wind and solar power forecasting – A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 50, 82-91	15.7	216
367	AFP-Pred: A random forest approach for predicting antifreeze proteins from sequence-derived properties. <i>Journal of Theoretical Biology</i> , <b>2011</b> , 270, 56-62	2.2	189
366	Economic dispatch using hybrid grey wolf optimizer. <i>Energy</i> , <b>2016</b> , 111, 630-641	7.8	178
365	Ensemble of differential evolution variants. <i>Information Sciences</i> , <b>2018</b> , 423, 172-186	7.2	177
364	A comprehensive evaluation of random vector functional link networks. <i>Information Sciences</i> , <b>2016</b> , 367-368, 1094-1105	7.2	180
363	A novel hybrid discrete differential evolution algorithm for blocking flow shop scheduling problems. <i>Computers and Operations Research</i> , <b>2010</b> , 37, 509-520	4.5	171
362	A discrete artificial bee colony algorithm for the total flowtime minimization in permutation flow shops. <i>Information Sciences</i> , <b>2011</b> , 181, 3459-3475	7.2	167
361	A Comparative Study of Empirical Mode Decomposition-Based Short-Term Wind Speed Forecasting Methods. <i>IEEE Transactions on Sustainable Energy</i> , <b>2015</b> , 6, 236-244	7.7	160
360	Optimal power flow solutions incorporating stochastic wind and solar power. <i>Energy Conversion and Management</i> , <b>2017</b> , 148, 1194-1207	10.4	153
359	A survey of randomized algorithms for training neural networks. <i>Information Sciences</i> , <b>2016</b> , 364-365, 146-155	7.2	155
358	Ensemble particle swarm optimizer. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 55, 533-548	7.2	134
357	Random vector functional link network for short-term electricity load demand forecasting. <i>Information Sciences</i> , <b>2016</b> , 367-368, 1078-1093	7.2	133
356	A dynamic neighborhood learning based particle swarm optimizer for global numerical optimization. <i>Information Sciences</i> , <b>2012</b> , 209, 16-36	7.2	131

355	Dynamic multi-swarm particle swarm optimizer		138
354			145
353	Novel composition test functions for numerical global optimization		137
352	Comprehensive learning particle swarm optimizer for solving multiobjective optimization problems. <i>International Journal of Intelligent Systems</i> , <b>2006</b> , 21, 209-226	8.2	116
351	A differential evolution algorithm with self-adapting strategy and control parameters. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 394-408	4.5	114
350	A survey on multi-objective evolutionary algorithms for the solution of the environmental/economic dispatch problems. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 38, 1-11	9.2	110
349	Self-adaptive differential evolution with multi-trajectory search for large-scale optimization. <i>Soft Computing</i> , <b>2011</b> , 15, 2175-2185	3.4	111
348	An ensemble of discrete differential evolution algorithms for solving the generalized traveling salesman problem. <i>Applied Mathematics and Computation</i> , <b>2010</b> , 215, 3356-3368	2.5	102
347	Multi-population differential evolution with balanced ensemble of mutation strategies for large-scale global optimization. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 33, 304-327	7.2	98
346	Niching particle swarm optimization with local search for multi-modal optimization. <i>Information Sciences</i> , <b>2012</b> , 197, 131-143	7.2	102
345	A hybrid tabu search algorithm with an efficient neighborhood structure for the flexible job shop scheduling problem. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2011</b> , 52, 683-697	3.1	99
344	DNA-Prot: identification of DNA binding proteins from protein sequence information using random forest. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2009</b> , 26, 679-86	3.5	98
343	Multiobjective economic-environmental power dispatch with stochastic wind-solar-small hydro power. <i>Energy</i> , <b>2018</b> , 150, 1039-1057	7.8	97
342	Optimal power flow solutions using differential evolution algorithm integrated with effective constraint handling techniques. <i>Engineering Applications of Artificial Intelligence</i> , <b>2018</b> , 68, 81-100	6.9	98
341	Discrete harmony search algorithm for flexible job shop scheduling problem with multiple objectives. <i>Journal of Intelligent Manufacturing</i> , <b>2016</b> , 27, 363-374	6.5	96
340	Ensemble strategies for population-based optimization algorithms [A survey]. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 44, 695-711	9.2	96
339	Ensemble of niching algorithms. <i>Information Sciences</i> , <b>2010</b> , 180, 2815-2833	7.2	98
338	Dynamic multi-swarm particle swarm optimizer with local search for Large Scale Global Optimization <b>2008</b> ,		100

337	An improved artificial bee colony algorithm for flexible job-shop scheduling problem with fuzzy processing time. <i>Expert Systems With Applications</i> , <b>2016</b> , 65, 52-67	7.5	91
336	A two-stage artificial bee colony algorithm scheduling flexible job-shop scheduling problem with new job insertion. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 7652-7663	7.5	93
335	Dynamic multi-swarm particle swarm optimizer with harmony search. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 3735-3742	7.5	90
334	Two-lbests based multi-objective particle swarm optimizer. <i>Engineering Optimization</i> , <b>2011</b> , 43, 1-17	2	92
333	Pareto-based grouping discrete harmony search algorithm for multi-objective flexible job shop scheduling. <i>Information Sciences</i> , <b>2014</b> , 289, 76-90	7.2	89
332	Multi-objective evolutionary algorithms based on the summation of normalized objectives and diversified selection. <i>Information Sciences</i> , <b>2010</b> , 180, 3170-3181	7.2	95
331	Constrained multi-objective optimization algorithm with an ensemble of constraint handling methods. <i>Engineering Optimization</i> , <b>2011</b> , 43, 403-416	2	89
330	Design of Non-Uniform Circular Antenna Arrays Using a Modified Invasive Weed Optimization Algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2011</b> , 59, 110-118	4.3	94
329	Static and dynamic photovoltaic models parameters identification using Chaotic Heterogeneous Comprehensive Learning Particle Swarm Optimizer variants. <i>Energy Conversion and Management</i> , <b>2019</b> , 182, 546-563	10.4	87
328	A discrete artificial bee colony algorithm for the no-idle permutation flowshop scheduling problem with the total tardiness criterion. <i>Applied Mathematical Modelling</i> , <b>2013</b> , 37, 6758-6779	4.4	87
327	Ensemble deep learning for regression and time series forecasting <b>2014</b> ,		91
326	Parameter estimation of solar cells using datasheet information with the application of an adaptive differential evolution algorithm. <i>Renewable Energy</i> , <b>2019</b> , 132, 425-438	7.9	85
325	Ensemble strategies with adaptive evolutionary programming. <i>Information Sciences</i> , <b>2010</b> , 180, 1571-1581	7.2	85
324	Flexible Job-Shop Rescheduling for New Job Insertion by Using Discrete Jaya Algorithm. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 1944-1955	8.5	84
323	Efficient constraint handling for optimal reactive power dispatch problems. <i>Swarm and Evolutionary Computation</i> , <b>2012</b> , 5, 28-36	9.2	82
322	Real-parameter unconstrained optimization based on enhanced fitness-adaptive differential evolution algorithm with novel mutation. <i>Soft Computing</i> , <b>2018</b> , 22, 3215-3235	3.4	80
321	A Novel Empirical Mode Decomposition With Support Vector Regression for Wind Speed Forecasting. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2016</b> , 27, 1793-8	8.5	84
320	Population topologies for particle swarm optimization and differential evolution. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 39, 24-35	9.2	80

319	Artificial bee colony algorithm for scheduling and rescheduling fuzzy flexible job shop problem with new job insertion. <i>Knowledge-Based Systems</i> , <b>2016</b> , 109, 1-16	6.9	78
318	Analyzing convergence performance of evolutionary algorithms: A statistical approach. <i>Information Sciences</i> , <b>2014</b> , 289, 41-58	7.2	79
317	A local-best harmony search algorithm with dynamic sub-harmony memories for lot-streaming flow shop scheduling problem. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 3252-3259	7.5	77
316	Comparison between MOEA/D and NSGA-III on a set of novel many and multi-objective benchmark problems with challenging difficulties. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 46, 104-117	9.2	76
315	Oblique Decision Tree Ensemble via Multisurface Proximal Support Vector Machine. <i>IEEE Transactions on Cybernetics</i> , <b>2015</b> , 45, 2165-76	8.5	78
314	An approach for classification of highly imbalanced data using weighting and undersampling. <i>Amino Acids</i> , <b>2010</b> , 39, 1385-91	3.3	76
313	Computing with the collective intelligence of honey bees [A survey]. <i>Swarm and Evolutionary Computation</i> , <b>2017</b> , 32, 25-48	9.2	74
312	A variable iterated greedy algorithm with differential evolution for the no-idle permutation flowshop scheduling problem. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1729-1743	4.5	75
311	Dynamic multi-swarm particle swarm optimizer with local search		87
310	Economic emission dispatch problems with stochastic wind power using summation based multi-objective evolutionary algorithm. <i>Information Sciences</i> , <b>2016</b> , 351, 48-66	7.2	72
309	Ensemble incremental learning Random Vector Functional Link network for short-term electric load forecasting. <i>Knowledge-Based Systems</i> , <b>2018</b> , 145, 182-196	6.9	69
308	Random Forests with ensemble of feature spaces. <i>Pattern Recognition</i> , <b>2014</b> , 47, 3429-3437	7.1	70
307	Multi-objective robust PID controller tuning using two lbests multi-objective particle swarm optimization. <i>Information Sciences</i> , <b>2011</b> , 181, 3323-3335	7.2	69
306	Self-adaptive Differential Evolution Algorithm for Constrained Real-Parameter Optimization		82
305	Robust growing neural gas algorithm with application in cluster analysis. <i>Neural Networks</i> , <b>2004</b> , 17, 1138-1148	6.6	66
304	$\$I_{\text{SDE}}\$$ +An Indicator for Multi and Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 346-352	13.3	65
303	Optimal reactive power dispatch with uncertainties in load demand and renewable energy sources adopting scenario-based approach. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 75, 616-632	7.2	66
302	Solving the steelmaking casting problem using an effective fruit fly optimisation algorithm. <i>Knowledge-Based Systems</i> , <b>2014</b> , 72, 28-36	6.9	67

301	Iterated greedy algorithms for the blocking flowshop scheduling problem with makespan criterion. <i>Computers and Operations Research</i> , <b>2017</b> , 77, 111-126	4.5	64
300	Benchmarking Ensemble Classifiers with Novel Co-Trained Kernel Ridge Regression and Random Vector Functional Link Ensembles [Research Frontier]. <i>IEEE Computational Intelligence Magazine</i> , <b>2017</b> , 12, 61-72	4.8	62
299	Ensemble and Arithmetic Recombination-Based Speciation Differential Evolution for Multimodal Optimization. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 64-74	8.5	65
298	An Adaptive Multipopulation Differential Evolution With Dynamic Population Reduction. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 2768-2779	8.5	62
297	A local-best harmony search algorithm with dynamic subpopulations. <i>Engineering Optimization</i> , <b>2010</b> , 42, 101-117	2	63
296	Novel benchmark functions for continuous multimodal optimization with comparative results. <i>Swarm and Evolutionary Computation</i> , <b>2016</b> , 26, 23-34	9.2	63
295	A multiobjective approach for optimal placement and sizing of distributed generators and capacitors in distribution network. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 60, 268-280	7.2	61
294	Identification of structurally conserved residues of proteins in absence of structural homologs using neural network ensemble. <i>Bioinformatics</i> , <b>2009</b> , 25, 204-10	6.8	61
293	Prediction of apoptosis protein locations with genetic algorithms and support vector machines through a new mode of pseudo amino acid composition. <i>Protein and Peptide Letters</i> , <b>2010</b> , 17, 1473-9	1.8	61
292	Robust visual tracking via co-trained Kernelized correlation filters. <i>Pattern Recognition</i> , <b>2017</b> , 69, 82-93	7.1	62
291	Ensemble sinusoidal differential covariance matrix adaptation with Euclidean neighborhood for solving CEC2017 benchmark problems <b>2017</b> ,		59
290	A Differential Covariance Matrix Adaptation Evolutionary Algorithm for real parameter optimization. <i>Information Sciences</i> , <b>2012</b> , 182, 199-219	7.2	60
289	A test-suite of non-convex constrained optimization problems from the real-world and some baseline results. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 56, 100693	9.2	59
288	Computational intelligence in sports: Challenges and opportunities within a new research domain. <i>Applied Mathematics and Computation</i> , <b>2015</b> , 262, 178-186	2.5	57
287	A variable reduction strategy for evolutionary algorithms handling equality constraints. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 37, 774-786	7.2	57
286	Linear dimensionality reduction using relevance weighted LDA. <i>Pattern Recognition</i> , <b>2005</b> , 38, 485-493	7.1	57
285	Visual Tracking With Convolutional Random Vector Functional Link Network. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3243-3253	8.5	59
284	Dynamic Multi-Swarm Particle Swarm Optimizer with a Novel Constraint-Handling Mechanism		60

283	Pattern recognition by graph matching using the Potts MFT neural networks. <i>Pattern Recognition</i> , <b>1995</b> , 28, 997-1009	7.1	53
282	A hybrid artificial bee colony algorithm for the job-shop scheduling problem with no-wait constraint. <i>Soft Computing</i> , <b>2017</b> , 21, 1193-1202	3.4	51
281	Multi-objective optimization using self-adaptive differential evolution algorithm <b>2009</b> ,		50
280	Gene selection algorithms for microarray data based on least squares support vector machine. <i>BMC Bioinformatics</i> , <b>2006</b> , 7, 95	3.4	52
279	An ensemble sinusoidal parameter adaptation incorporated with L-SHADE for solving CEC2014 benchmark problems <b>2016</b> ,		51
278	Predicting protein structural class by SVM with class-wise optimized features and decision probabilities. <i>Journal of Theoretical Biology</i> , <b>2008</b> , 253, 375-80	2.2	46
277	CADE: A hybridization of Cultural Algorithm and Differential Evolution for numerical optimization. <i>Information Sciences</i> , <b>2017</b> , 378, 215-241	7.2	45
276	An improved differential evolution algorithm using efficient adapted surrogate model for numerical optimization. <i>Information Sciences</i> , <b>2018</b> , 451-452, 326-347	7.2	43
275	Artificial neural network regression as a local search heuristic for ensemble strategies in differential evolution. <i>Nonlinear Dynamics</i> , <b>2016</b> , 84, 895-914	4.8	43
274	An improved class of real-coded Genetic Algorithms for numerical optimization?. <i>Neurocomputing</i> , <b>2018</b> , 275, 155-166	5	42
273	General twin support vector machine with pinball loss function. <i>Information Sciences</i> , <b>2019</b> , 494, 311-327	7.2	41
272	Modeling of steelmaking process with effective machine learning techniques. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 4687-4696	7.5	41
271	Oblique random forest ensemble via Least Square Estimation for time series forecasting. <i>Information Sciences</i> , <b>2017</b> , 420, 249-262	7.2	41
270	A differential evolution algorithm for the no-idle flowshop scheduling problem with total tardiness criterion. <i>International Journal of Production Research</i> , <b>2011</b> , 49, 5033-5050	7.5	40
269	Letter: On non-iterative learning algorithms with closed-form solution. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 70, 1078-1082	7.2	39
268	An ensemble of decision trees with random vector functional link networks for multi-class classification. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 70, 1146-1153	7.2	38
267	Heterogeneous oblique random forest. <i>Pattern Recognition</i> , <b>2020</b> , 99, 107078	7.1	39
266	Novel multimodal problems and differential evolution with ensemble of restricted tournament selection <b>2010</b> ,		45



265	An effective discrete harmony search algorithm for flexible job shop scheduling problem with fuzzy processing time. <i>International Journal of Production Research</i> , <b>2015</b> , 53, 5896-5911	7.5	37
264	Pattern recognition by homomorphic graph matching using Hopfield neural networks. <i>Image and Vision Computing</i> , <b>1995</b> , 13, 45-60	3.4	37
263	Minimizing harmonic distortion in power system with optimal design of hybrid active power filter using differential evolution. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 61, 486-496	7.2	37
262	Major Advances in Particle Swarm Optimization: Theory, Analysis, and Application. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 63, 100868	9.2	36
261	A discrete particle swarm optimization algorithm for the generalized traveling salesman problem <b>2007</b> ,		37
260	Task Scheduling in Cloud Computing based on Meta-heuristics: Review, Taxonomy, Open Challenges, and Future Trends. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 62, 100841	9.2	35
259	Design of Yagi-Uda antennas using comprehensive learning particle swarm optimisation. <i>IET Microwaves Antennas and Propagation</i> , <b>2005</b> , 152, 340		37
258	Differential Evolution Algorithm with Ensemble of Parameters and Mutation and Crossover Strategies. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 71-78	0.8	37
257	Differential evolution with ensemble of constraint handling techniques for solving CEC 2010 benchmark problems <b>2010</b> ,		40
256	Identification of catalytic residues from protein structure using support vector machine with sequence and structural features. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 367, 630-43	4.3	33
255	Multiclass cancer classification by support vector machines with class-wise optimized genes and probability estimates. <i>Journal of Theoretical Biology</i> , <b>2009</b> , 259, 533-40	2.2	33
254	Effective ensembles of heuristics for scheduling flexible job shop problem with new job insertion. <i>Computers and Industrial Engineering</i> , <b>2015</b> , 90, 107-117	6.2	33
253	Differential evolution algorithm with ensemble of populations for global numerical optimization. <i>Opsearch</i> , <b>2009</b> , 46, 184-213	1.5	32
252	Performance Evaluation of Multiagent Genetic Algorithm. <i>Natural Computing</i> , <b>2006</b> , 5, 83-96	1.3	33
251	Robust Visual Tracking Using Oblique Random Forests <b>2017</b> ,		35
250	An efficient Differential Evolution algorithm for stochastic OPF based active-reactive power dispatch problem considering renewable generators. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 76, 445-458	7.2	30
249	A survey on meta-heuristics for solving disassembly line balancing, planning and scheduling problems in remanufacturing. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 57, 100719	9.2	30
248	SVMCRYST: an SVM approach for the prediction of protein crystallization propensity from protein sequence. <i>Protein and Peptide Letters</i> , <b>2010</b> , 17, 423-30	1.8	30

247	LINEAR ANTENNA ARRAY SYNTHESIS WITH CONSTRAINED MULTI-OBJECTIVE DIFFERENTIAL EVOLUTION. <i>Progress in Electromagnetics Research B</i> , <b>2010</b> , 21, 87-111	0.6	32
246	Stacked autoencoder based deep random vector functional link neural network for classification. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 85, 105854	7.2	29
245	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 64, 100888	9.2	29
244	Empirical study on the effect of population size on Differential evolution Algorithm <b>2008</b> ,		33
243	A Multi-Populated Differential Evolution Algorithm for Solving Constrained Optimization Problem		33
242	Structural pattern recognition using genetic algorithms. <i>Pattern Recognition</i> , <b>2002</b> , 35, 1883-1893	7.1	29
241	Ensemble of parameters in a sinusoidal differential evolution with niching-based population reduction. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 39, 141-156	9.2	28
240	Dynamic multi-swarm particle swarm optimizer with sub-regional harmony search <b>2010</b> ,		30
239	Design of triangular FBG filter for sensor applications using covariance matrix adapted evolution algorithm. <i>Optics Communications</i> , <b>2006</b> , 260, 716-722	1.9	28
238	A Discrete Differential Evolution Algorithm for the No-Wait Flowshop Scheduling Problem with Total Flowtime Criterion <b>2007</b> ,		28
237	Effective heuristics for the no-wait flow shop scheduling problem with total flow time minimization. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2013</b> , 66, 1563-1572	3.1	28
236	SPRED: A machine learning approach for the identification of classical and non-classical secretory proteins in mammalian genomes. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 391, 1306-1311	3.1	27
235	Wavelength detection in FBG sensor network using tree search DMS-PSO. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1305-1307	2	29
234	Genetic-algorithm-based design of a reconfigurable antenna array with discrete phase shifters. <i>Microwave and Optical Technology Letters</i> , <b>2005</b> , 45, 461-465	1.2	28
233	A novel hybrid Cultural Algorithms framework with trajectory-based search for global numerical optimization. <i>Information Sciences</i> , <b>2016</b> , 334-335, 219-249	7.2	26
232	Empirical investigations into the exponential crossover of differential evolutions. <i>Swarm and Evolutionary Computation</i> , <b>2013</b> , 9, 27-36	9.2	26
231	Multi-objective optimization based on self-adaptive differential evolution algorithm <b>2007</b> ,		30
230	Kernel neural gas algorithms with application to cluster analysis <b>2004</b> ,		28

229	Evaluation of Comprehensive Learning Particle Swarm Optimizer. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 230-235	0.8	29
228	Enhanced neural gas network for prototype-based clustering. <i>Pattern Recognition</i> , <b>2005</b> , 38, 1275-1288	7.1	26
227	Comprehensive evaluation of twin SVM based classifiers on UCI datasets. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 83, 105617	7.2	25
226	Multi-objective optimal power flow solutions using a constraint handling technique of evolutionary algorithms. <i>Soft Computing</i> , <b>2020</b> , 24, 2999-3023	3.4	25
225	Particle swarm optimization for the design of low-dispersion fiber Bragg gratings. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 615-617	2	25
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222	Decomposition based multi-objective evolutionary algorithm for windfarm layout optimization. <i>Renewable Energy</i> , <b>2018</b> , 115, 326-337	7.9	23
221	Short-term Electricity Price Forecasting with Empirical Mode Decomposition based Ensemble Kernel Machines. <i>Procedia Computer Science</i> , <b>2017</b> , 108, 1308-1317	1.6	23
220	An Adaptive Resource Allocation Strategy for Objective Space Partition-Based Multiobjective Optimization. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 1-16	6.2	27
219	Ensemble differential evolution algorithm for CEC2011 problems <b>2011</b> ,		25
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216	A novel concurrent particle swarm optimization		28
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204	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2016</b> , 20, 218-231	13.3	18
203	Migrating forager population in a multi-population Artificial Bee Colony algorithm with modified perturbation schemes <b>2013</b> ,		18
202	Multi-objective evolutionary programming without non-domination sorting is up to twenty times faster <b>2009</b> ,		19
201	Generalized null space uncorrelated Fisher discriminant analysis for linear dimensionality reduction. <i>Pattern Recognition</i> , <b>2006</b> , 39, 1805-1808	7.1	18
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199	Differential evolution using improved crowding distance for multimodal multiobjective optimization. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 62, 100849	9.2	17
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184	Solving Traffic Signal Scheduling Problems in Heterogeneous Traffic Network by Using Meta-Heuristics. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2019</b> , 20, 3272-3282	5.1	13
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178	Solving dynamic economic emission dispatch problem considering wind power by multi-objective differential evolution with ensemble of selection method. <i>Natural Computing</i> , <b>2019</b> , 18, 695-703	1.3	12
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166	Enhancing Multi-Class Classification of Random Forest using Random Vector Functional Neural Network and Oblique Decision Surfaces <b>2018</b> ,		10
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159	Towards generating random forests via extremely randomized trees <b>2014</b> ,		9
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154	Statistical analysis of convergence performance throughout the evolutionary search: A case study with SaDE-MMTS and Sa-EPsDE-MMTS <b>2013</b> ,		8
153	Ensemble of classification models with weighted functional link network. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 107, 107322	7.2	8
152	Differential Evolution Algorithm: Recent Advances. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 30-46	0.8	8
151	Evaluation of novel adaptive evolutionary programming on four constraint handling techniques <b>2008</b> ,		11
150	Ensemble strategies in Compact Differential Evolution <b>2011</b> ,		8
149	Detecting Wind Power Ramp with Random Vector Functional Link (RVFL) Network <b>2015</b> ,		8
148	Differential evolution with stochastic fractal search algorithm for global numerical optimization <b>2016</b> ,		7
147	Large-Scale Portfolio Optimization Using Multiobjective Evolutionary Algorithms and Preselection Methods. <i>Mathematical Problems in Engineering</i> , <b>2017</b> , 2017, 1-14	1	7
146	Dynamic Multi-Swarm Particle Swarm Optimization for Multi-objective optimization problems <b>2012</b> ,		10
145	Differential Evolution Algorithms for the Generalized Assignment problem <b>2009</b> ,		9
144	Design of optimal length low-dispersion FBG filter using covariance matrix adapted evolution. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 2119-2121	2	7
143	Combining classifiers based on confidence values <b>1999</b> ,		7
142	Optimal mapping of graph homomorphism onto self organising Hopfield network. <i>Image and Vision Computing</i> , <b>1997</b> , 15, 679-694	3.4	7
141	Ensemble Many-Objective Optimization Algorithm Based on Voting Mechanism. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-15	6.2	7
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138	Multi-objective optimization for shading devices in buildings by using evolutionary algorithms <b>2016</b>		7
137	An ensemble approach with external archive for multi- and many-objective optimization with adaptive mating mechanism and two-level environmental selection. <i>Information Sciences</i> , <b>2021,</b> 555, 164-197	7.2	6
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134	Dynamic Grouping Crowding Differential Evolution with Ensemble of Parameters for Multi-modal Optimization. <i>Lecture Notes in Computer Science</i> , <b>2010,</b> 19-28	0.8	7
133	Multi-objective differential evolution based on the summation of normalized objectives and improved selection method <b>2011,</b>		7
132	A differential covariance matrix adaptation evolutionary algorithm for global optimization <b>2011,</b>		7
131	Prediction of functionally important sites from protein sequences using sparse kernel least squares classifiers. <i>Biochemical and Biophysical Research Communications</i> , <b>2009,</b> 384, 155-9	3.3	6
130	A genetic algorithm for the generalized traveling salesman problem <b>2007,</b>		6
129	Multiclass protein fold recognition using multiobjective evolutionary algorithms		8
128	An enhanced migrating birds optimization algorithm for no-wait flow shop scheduling problem <b>2013,</b>		5
127	Large Initial Population and Neighborhood Search incorporated in LSHADE to solve CEC2020 Benchmark Problems <b>2020,</b>		5
126	Electricity load demand time series forecasting with Empirical Mode Decomposition based Random Vector Functional Link network <b>2016,</b>		5
125	Optimal placement of wind turbines in a windfarm using L-SHADE algorithm <b>2017,</b>		6
124	Distribution Network Reconfiguration Together with Distributed Generator and Shunt Capacitor Allocation for Loss Minimization <b>2018,</b>		5
123	Self-adaptive Differential Evolution with Modified Multi-Trajectory Search for CEC2010 Large Scale Optimization. <i>Lecture Notes in Computer Science</i> , <b>2010,</b> 1-10	0.8	5
122	Multi objective evolutionary programming to solve environmental economic dispatch problem <b>2010,</b>		5



121	Constrained real parameter optimization with a gradient repair based Differential Evolution algorithm <b>2011</b> ,		5
120	Boosting the HONG network. <i>Neurocomputing</i> , <b>2003</b> , 51, 75-86	5	5
119	A Greedy Cooperative Co-evolution ary Algorithm with Problem-specific Knowledge for Multi-objective Flowshop Group Scheduling Problems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 1-1	13.3	6
118	Dynamic economic emission dispatch based on multi-objective pigeon-inspired optimization with double disturbance. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3	4
117	Cluster-based differential evolution with heterogeneous influence for numerical optimization <b>2015</b> ,		4
116	Adaptive Differential Evolution with Locality based Crossover for Dynamic Optimization <b>2013</b> ,		6
115	Minimizing THD of multilevel inverters with optimal values of DC voltages and switching angles using LSHADE-EpSin algorithm <b>2017</b> ,		5
114	Short-term wind power ramp forecasting with empirical mode decomposition based ensemble learning techniques <b>2017</b> ,		4
113	Walk-forward empirical wavelet random vector functional link for time series forecasting. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 108, 107450	7.2	4
112	A Benchmark-Suite of real-World constrained multi-objective optimization problems and some baseline results. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 67, 100961	9.2	4
111	A Swarm Intelligence Approach to Flexible Job-Shop Scheduling Problem with No-Wait Constraint in Remanufacturing. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 593-602	0.8	4
110	Design of Fractional Order Controller for a servohydraulic positioning system with micro Artificial Bee Colony algorithm <b>2012</b> ,		5
109	Empirical mode decomposition based adaboost-backpropagation neural network method for wind speed forecasting <b>2014</b> ,		4
108	Multi-objective robust PID controller tuning using multi-objective differential evolution <b>2010</b> ,		4
107	Artificial foraging weeds for global numerical optimization over continuous spaces <b>2010</b> ,		4
106	Constrained multi-objective optimization algorithm with diversity enhanced differential evolution <b>2010</b> ,		4
105	A dynamic bandwidth guaranteed routing using heuristic search for clustered topology <b>2008</b> ,		4
104	SMpred: a support vector machine approach to identify structural motifs in protein structure without using evolutionary information. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2010</b> , 28, 405-14 <sup>2.5</sup>		4

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102	Diversity enhanced particle swarm optimizer for global optimization of multimodal problems <b>2009</b> ,		4
101	An Accumulation Algorithm for Video Shot Boundary Detection. <i>Multimedia Tools and Applications</i> , <b>2004</b> , 22, 89-106	2.3	4
100	Optimal encoding of graph homomorphism energy using fuzzy information aggregation operators. <i>Pattern Recognition</i> , <b>1998</b> , 31, 623-639	7.1	4
99	Minimum Variance Embedded Random Vector Functional Link Network. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 412-419	0.3	4
98	A Differential Evolution Algorithm with a Variable Neighborhood Search for Constrained Function Optimization. <i>Adaptation, Learning, and Optimization</i> , <b>2015</b> , 171-184	0.6	4
97	Optimization of Wind Turbine Rotor Diameters and Hub Heights in a Windfarm Using Differential Evolution Algorithm. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 131-141	0.4	3
96	Cultural Algorithms applied to the evolution of robotic soccer team tactics: A novel perspective <b>2014</b> ,		3
95	Synchronizing Differential Evolution with a modified affinity-based mutation framework <b>2013</b> ,		3
94	A Differential Evolution Algorithm with Q-Learning for Solving Engineering Design Problems <b>2020</b> ,		3
93	Multi-objective harmony search algorithm for layout design in theatre hall acoustics <b>2016</b> ,		4
92	A novel differential crossover strategy based on covariance matrix learning with Euclidean neighborhood for solving real-world problems <b>2017</b> ,		3
91	Remodelling State-Space Prediction With Deep Neural Networks for Probabilistic Load Forecasting. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2021</b> , 1-10	3.5	3
90	An Autonomous Path Planning Method for Unmanned Aerial Vehicle Based on a Tangent Intersection and Target Guidance Strategy. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-13	5.1	3
89	Memetic Fitness Euclidean-Distance Particle Swarm Optimization for Multi-modal Optimization. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 378-385	0.8	3
88	Comprehensive comparison of convergence performance of optimization algorithms based on nonparametric statistical tests <b>2012</b> ,		4
87	A hybrid ARIMA-DENFIS method for wind speed forecasting <b>2013</b> ,		3
86	Instance based random forest with rotated feature space <b>2013</b> ,		4

85	Diversity enhanced Adaptive Evolutionary Programming for solving single objective constrained problems <b>2009</b> ,		3
84	Improved MOCLPSO algorithm for environmental/economic dispatch <b>2007</b> ,		3
83	A multi-layered solution for supporting isp traffic demand using genetic algorithm <b>2007</b> ,		3
82	Feature Selection Approach for Quantitative Prediction of Transcriptional Activities <b>2006</b> ,		3
81	Generalized LDA using relevance weighting and evolution strategy		3
80	Improving the performance of a FBG sensor network using a novel dynamic multi-swarm particle swarm optimizer <b>2005</b> , 5998, 191		3
79	Multiple relational graphs mapping using genetic algorithms		3
78	Solving jigsaw puzzles using Hopfield neural networks		3
77	Solving Fuzzy Job-Shop Scheduling Problem by a Hybrid PSO Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 275-282	0.8	4
76	Ensemble of Constraint Handling Techniques for Single Objective Constrained Optimization. <i>Infosys Science Foundation Series</i> , <b>2015</b> , 231-248	0.1	2
75	Visual Tracking with Convolutional Neural Network <b>2015</b> ,		2
74	Metaheuristic algorithms for the quadratic assignment problem <b>2013</b> ,		3
73	Risk minimization in biometric sensor networks: an evolutionary multi-objective optimization approach. <i>Soft Computing</i> , <b>2013</b> , 17, 133-144	3.4	2
72	Hybrid discrete harmony search algorithm for scheduling re-processing problem in remanufacturing <b>2013</b> ,		2
71	Chaotic Heterogeneous Comprehensive Learning Particle Swarm Optimizer Variants for Permanent Magnet Synchronous Motor Models Parameters Estimation. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , <b>2020</b> , 44, 1299-1318	1.9	2
70	An ensemble of differential evolution algorithms with variable neighborhood search for constrained function optimization <b>2016</b> ,		2
69	Stock Price Forecasting with Empirical Mode Decomposition Based Ensemble (nu)-Support Vector Regression Model. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 22-34	0.3	2
68	Optimal reconfiguration and distributed generator allocation in distribution network using an advanced adaptive differential evolution <b>2017</b> ,		2

67	A heterogeneous ensemble of trees <b>2017</b> ,		2
66	Optimal Power Flow Solutions Using Algorithm Success History Based Adaptive Differential Evolution with Linear Population Reduction <b>2018</b> ,		2
65	Differential Evolution with Stochastic Selection for Uncertain Environments: A Smart Grid Application <b>2018</b> ,		2
64	A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 1-1	13.3	2
63	Modified Artificial Bee Colony Algorithm with Comprehensive Learning Re-initialization Strategy <b>2015</b> ,		2
62	A kernel-ensemble bagging support vector machine <b>2012</b> ,		2
61	A Hybrid Discrete Differential Evolution Algorithm for Economic Lot Scheduling Problem with Time Variant Lot Sizing. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 1-12	0.4	2
60	Identification and analysis of transcription factor family-specific features derived from DNA and protein information. <i>Pattern Recognition Letters</i> , <b>2010</b> , 31, 2097-2102	4.3	2
59	Differential evolution and Evolutionary Programming for solving non-convex economic dispatch problems <b>2008</b> ,		2
58	A novel fuzzy and multiobjective evolutionary algorithm based gene assignment for clustering short time series expression data <b>2007</b> ,		2
57	A Robust Neural Gas algorithm for clustering analysis		3
56	On the performance of the HONG network for pattern classification <b>2000</b> ,		3
55	Attributed relational graph matching by neural-gas networks		2
54	Hybrid Multi-Objective Optimization Approach With Pareto Local Search for Collaborative Truck-Drone Routing Problems Considering Flexible Time Windows. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 1-15	5.1	2
53	Bayesian optimization based dynamic ensemble for time series forecasting. <i>Information Sciences</i> , <b>2022</b> , 591, 155-175	7.2	2
52	Improved Adaptive Differential Evolution Algorithm with External Archive. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 170-178	0.8	2
51	A Novel Improved Discrete ABC Algorithm for Manpower Scheduling Problem in Remanufacturing. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 738-749	0.8	2
50	Bilevel Optimization Using Bacteria Foraging Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 351-362	0.8	1

49	Distance Based Locally Informed Particle Swarm Optimizer with Dynamic Population Size. <i>Proceedings in Adaptation, Learning and Optimization, 2015, 577-587</i>	0.2	1
48	Comprehensive learning particle swarm optimizer with guidance vector selection <b>2013,</b>		1
47	Ensemble crowding differential evolution with neighborhood mutation for multimodal optimization <b>2013,</b>		1
46	Non-iterative Learning Approaches and Their Applications. <i>Cognitive Computation, 2020, 12, 327-329</i>	4.1	1
45	MMOGA for Solving Multimodal Multiobjective Optimization Problems with Local Pareto Sets <b>2020,</b>		1
44	Ensemble Incremental Random Vector Functional Link Network for Short-term Crude Oil Price Forecasting <b>2018,</b>		1
43	Dropout and DropConnect based Ensemble of Random Vector Functional Link Neural Network <b>2018,</b>		1
42	Multiobjective Evolutionary Optimization <b>2018, 1-15</b>		1
41	A Novel Ensemble Method of RVFL For Classification Problem <b>2021,</b>		1
40	K-nearest neighbor based bagging SVM pruning <b>2013,</b>		1
39	Pareto-based discrete harmony search algorithm for flexible job shop scheduling <b>2012,</b>		1
38	Niching-based Self-adaptive Ensemble DE with MMTS for solving dynamic optimization problems <b>2014,</b>		2
37	Achieving high robustness and performance in performing QoS-aware route planning for IPTV networks <b>2010,</b>		1
36	Empirical comparison of niching methods on hybrid composition functions <b>2008,</b>		1
35	Solving lot-streaming flow shop scheduling problems using a discrete harmony search algorithm <b>2010,</b>		1
34	A differential evolution algorithm for the median cycle problem <b>2011,</b>		1
33	Unsupervised similarity-based feature selection using heuristic Hopfield neural networks		2
32	A new generalized LVQ algorithm via harmonic to minimum distance measure transition		1

31	Multiple HONG network fusion by fuzzy integral		1
30	Differential evolution with orthogonal array-based initialization and a novel selection strategy. <i>Swarm and Evolutionary Computation</i> , <b>2022</b> , 68, 101010	9.2	1
29	Alzheimer's Disease Diagnosis via Intuitionistic Fuzzy Random Vector Functional Link Network. <i>IEEE Transactions on Computational Social Systems</i> , <b>2022</b> , 1-12	4	1
28	Video Sequence Boundary Detection Using Neural Gas Networks. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 1048-1053	0.8	1
27	Differential Evolution with Two Subpopulations. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 1-13	0.8	1
26	Prediction of Transcription Factor Families Using DNA Sequence Features. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 154-164	0.8	1
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