

# Swagatam Das

## List of Publications by Year in descending order

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342  
papers

20,200  
citations

16451

64  
h-index

12272

133  
g-index

364  
all docs

364  
docs citations

364  
times ranked

11700  
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	Recent advances in differential evolution – An updated survey. Swarm and Evolutionary Computation, 2016, 27, 1-30.	8.1	1,261
3	Differential Evolution Using a Neighborhood-Based Mutation Operator. IEEE Transactions on Evolutionary Computation, 2009, 13, 526-553.	10.0	1,014
4	Automatic Clustering Using an Improved Differential Evolution Algorithm. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2008, 38, 218-237.	2.9	616
5	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
6	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	8.1	430
7	A Distance-Based Locally Informed Particle Swarm Model for Multimodal Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 387-402.	10.0	327
8	Real-parameter evolutionary multimodal optimization – A survey of the state-of-the-art. Swarm and Evolutionary Computation, 2011, 1, 71-88.	8.1	325
9	Two improved differential evolution schemes for faster global search. , 2005, , .		265
10	Design of fractional-order $PI^{\lambda}D^{\mu}$ controllers with an improved differential evolution. Engineering Applications of Artificial Intelligence, 2009, 22, 343-350.	8.1	257
11	Particle Swarm Optimization and Differential Evolution Algorithms: Technical Analysis, Applications and Hybridization Perspectives. Studies in Computational Intelligence, 2008, , 1-38.	0.9	233
12	Bacterial Foraging Optimization Algorithm: Theoretical Foundations, Analysis, and Applications. Studies in Computational Intelligence, 2009, , 23-55.	0.9	230
13	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
14	Exploratory Power of the Harmony Search Algorithm: Analysis and Improvements for Global Numerical Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 89-106.	5.0	221
15	Multimodal Optimization Using a Biobjective Differential Evolution Algorithm Enhanced With Mean Distance-Based Selection. IEEE Transactions on Evolutionary Computation, 2013, 17, 666-685.	10.0	219
16	Adaptive Computational Chemotaxis in Bacterial Foraging Optimization: An Analysis. IEEE Transactions on Evolutionary Computation, 2009, 13, 919-941.	10.0	215
17	Multi-sensor data fusion using support vector machine for motor fault detection. Information Sciences, 2012, 217, 96-107.	6.9	207
18	A dynamic neighborhood learning based particle swarm optimizer for global numerical optimization. Information Sciences, 2012, 209, 16-36.	6.9	177

#	ARTICLE	IF	CITATIONS
19	Automatic kernel clustering with a Multi-Elitist Particle Swarm Optimization Algorithm. Pattern Recognition Letters, 2008, 29, 688-699.	4.2	171
20	Automatic image pixel clustering with an improved differential evolution. Applied Soft Computing Journal, 2009, 9, 226-236.	7.2	167
21	A Cluster-Based Differential Evolution Algorithm With External Archive for Optimization in Dynamic Environments. IEEE Transactions on Cybernetics, 2013, 43, 881-897.	9.5	161
22	Multilevel Image Thresholding Based on 2D Histogram and Maximum Tsallis Entropy A Differential Evolution Approach. IEEE Transactions on Image Processing, 2013, 22, 4788-4797.	9.8	157
23	Inducing Niching Behavior in Differential Evolution Through Local Information Sharing. IEEE Transactions on Evolutionary Computation, 2015, 19, 246-263.	10.0	156
24	An Adaptive Differential Evolution Algorithm for Global Optimization in Dynamic Environments. IEEE Transactions on Cybernetics, 2014, 44, 966-978.	9.5	151
25	Handling data irregularities in classification: Foundations, trends, and future challenges. Pattern Recognition, 2018, 81, 674-693.	8.1	148
26	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
27	Self-adaptive differential evolution with multi-trajectory search for large-scale optimization. Soft Computing, 2011, 15, 2175-2185.	3.6	143
28	A multilevel color image thresholding scheme based on minimum cross entropy and differential evolution. Pattern Recognition Letters, 2015, 54, 27-35.	4.2	138
29	An improved differential evolution algorithm with fitness-based adaptation of the control parameters. Information Sciences, 2011, 181, 3749-3765.	6.9	135
30	An Evolutionary Multiobjective Sleep-Scheduling Scheme for Differentiated Coverage in Wireless Sensor Networks. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1093-1102.	2.9	134
31	An Improved Harmony Search Algorithm with Differential Mutation Operator. Fundamenta Informaticae, 2009, 95, 401-426.	0.4	132
32	A synergy of the sine-cosine algorithm and particle swarm optimizer for improved global optimization and object tracking. Swarm and Evolutionary Computation, 2018, 43, 1-30.	8.1	132
33	Near-Bayesian Support Vector Machines for imbalanced data classification with equal or unequal misclassification costs. Neural Networks, 2015, 70, 39-52.	5.9	131
34	Multi-objective node deployment in WSNs: In search of an optimal trade-off among coverage, lifetime, energy consumption, and connectivity. Engineering Applications of Artificial Intelligence, 2013, 26, 405-416.	8.1	130
35	Synergy of PSO and Bacterial Foraging Optimization A Comparative Study on Numerical Benchmarks. Advances in Intelligent and Soft Computing, 2007, , 255-263.	0.2	128
36	Realization of an Adaptive Memetic Algorithm Using Differential Evolution and Q-Learning: A Case Study in Multirobot Path Planning. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 814-831.	9.3	120

#	ARTICLE	IF	CITATIONS
37	Multiobjective fuzzy dominance based bacterial foraging algorithm to solve economic emission dispatch problem. Energy, 2010, 35, 4761-4770.	8.8	117
38	Kernel-induced fuzzy clustering of image pixels with an improved differential evolution algorithm. Information Sciences, 2010, 180, 1237-1256.	6.9	117
39	A hybrid improved PSO-DV algorithm for multi-robot path planning in a clutter environment. Neurocomputing, 2016, 207, 735-753.	5.9	106
40	Performance assessment of the metaheuristic optimization algorithms: an exhaustive review. Artificial Intelligence Review, 2021, 54, 2323-2409.	15.7	106
41	A survey of swarm and evolutionary computing approaches for deep learning. Artificial Intelligence Review, 2020, 53, 1767-1812.	15.7	104
42	Noisy evolutionary optimization algorithms – A comprehensive survey. Swarm and Evolutionary Computation, 2017, 33, 18-45.	8.1	103
43	An Improved Parent-Centric Mutation With Normalized Neighborhoods for Inducing Niching Behavior in Differential Evolution. IEEE Transactions on Cybernetics, 2014, 44, 1726-1737.	9.5	102
44	Generative Adversarial Minority Oversampling. , 2019, , .		102
45	Computing with the collective intelligence of honey bees – A survey. Swarm and Evolutionary Computation, 2017, 32, 25-48.	8.1	100
46	Multi-objective optimization with artificial weed colonies. Information Sciences, 2011, 181, 2441-2454.	6.9	93
47	Removal of High-Density Salt-and-Pepper Noise in Images With an Iterative Adaptive Fuzzy Filter Using Alpha-Trimmed Mean. IEEE Transactions on Fuzzy Systems, 2014, 22, 1352-1358.	9.8	89
48	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
49	Simultaneous feature selection and weighting – An evolutionary multi-objective optimization approach. Pattern Recognition Letters, 2015, 65, 51-59.	4.2	84
50	Hyper-spectral image segmentation using Rényi entropy based multi-level thresholding aided with differential evolution. Expert Systems With Applications, 2016, 50, 120-129.	7.6	84
51	A Differential Covariance Matrix Adaptation Evolutionary Algorithm for real parameter optimization. Information Sciences, 2012, 182, 199-219.	6.9	83
52	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e10265" altimg="si80.gif" \rangle \langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Chaotic map enabled Grey Wolf Optimizer. Applied Soft Computing Journal, 2019, 75, 84-105.	7.2	82
53	Ant colony optimization based enhanced dynamic source routing algorithm for mobile Ad-hoc network. Information Sciences, 2015, 295, 67-90.	6.9	78
54	On Convergence of Differential Evolution Over a Class of Continuous Functions With Unique Global Optimum. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 107-124.	5.0	77

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55	Uncertainty Management in Differential Evolution Induced Multiobjective Optimization in Presence of Measurement Noise. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 922-937.	9.3	77
56	Adaptive Learning-Based $k$ -Nearest Neighbor Classifiers With Resilience to Class Imbalance. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5713-5725.	11.3	77
57	On Stability of the Chemotactic Dynamics in Bacterial-Foraging Optimization Algorithm. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 670-679.	2.9	72
58	On stability and convergence of the population-dynamics in differential evolution. AI Communications, 2009, 22, 1-20.	1.2	70
59	On convergence of the multi-objective particle swarm optimizers. Information Sciences, 2011, 181, 1411-1425.	6.9	70
60	A multi-start variable neighbourhood descent algorithm for hybrid flowshop rescheduling. Swarm and Evolutionary Computation, 2019, 45, 92-112.	8.1	70
61	Optimal coordination of directional over-current relays using informative differential evolution algorithm. Journal of Computational Science, 2014, 5, 269-276.	2.9	69
62	TWO-DIMENSIONAL IIR FILTER DESIGN WITH MODERN SEARCH HEURISTICS: A COMPARATIVE STUDY. International Journal of Computational Intelligence and Applications, 2006, 06, 329-355.	0.8	68
63	Synergism of Firefly Algorithm and Q-Learning for Robot Arm Path Planning. Swarm and Evolutionary Computation, 2018, 43, 50-68.	8.1	67
64	Automatic circle detection on digital images with an adaptive bacterial foraging algorithm. Soft Computing, 2010, 14, 1151-1164.	3.6	66
65	Synergizing fitness learning with proximity-based food source selection in artificial bee colony algorithm for numerical optimization. Applied Soft Computing Journal, 2013, 13, 4676-4694.	7.2	66
66	Improving particle swarm optimization with differentially perturbed velocity. , 2005, , .		65
67	A swarm intelligence approach to the synthesis of two-dimensional IIR filters. Engineering Applications of Artificial Intelligence, 2007, 20, 1086-1096.	8.1	65
68	Multiobjective bacteria foraging algorithm for electrical load dispatch problem. Energy Conversion and Management, 2011, 52, 1334-1342.	9.2	65
69	Swarm Intelligence Algorithms in Bioinformatics. Studies in Computational Intelligence, 2008, , 113-147.	0.9	63
70	LINEAR ANTENNA ARRAY SYNTHESIS WITH CONSTRAINED MULTI-OBJECTIVE DIFFERENTIAL EVOLUTION. Progress in Electromagnetics Research B, 2010, 21, 87-111.	1.0	62
71	Economic Load Dispatch Using Hybrid Swarm Intelligence Based Harmony Search Algorithm. Electric Power Components and Systems, 2011, 39, 751-767.	1.8	57
72	A Fuzzy Rule-Based Penalty Function Approach for Constrained Evolutionary Optimization. IEEE Transactions on Cybernetics, 2016, 46, 2953-2965.	9.5	57

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73	A differential invasive weed optimization algorithm for improved global numerical optimization. Applied Mathematics and Computation, 2013, 219, 6645-6668.	2.2	55
74	The spherical search algorithm for bound-constrained global optimization problems. Applied Soft Computing Journal, 2019, 85, 105734.	7.2	55
75	Decomposition-based modern metaheuristic algorithms for multi-objective optimal power flow – A comparative study. Engineering Applications of Artificial Intelligence, 2014, 32, 10-20.	8.1	54
76	Cluster-based differential evolution with Crowding Archive for niching in dynamic environments. Information Sciences, 2014, 267, 58-82.	6.9	52
77	An improved particle swarm optimizer with difference mean based perturbation. Neurocomputing, 2014, 129, 315-333.	5.9	50
78	Stability and chaos analysis of a novel swarm dynamics with applications to multi-agent systems. Engineering Applications of Artificial Intelligence, 2014, 30, 189-198.	8.1	48
79	Co-evolving bee colonies by forager migration: A multi-swarm based Artificial Bee Colony algorithm for global search space. Applied Mathematics and Computation, 2014, 232, 216-234.	2.2	48
80	A modified Invasive Weed Optimization algorithm for time-modulated linear antenna array synthesis. , 2010, , .		47
81	Multi-level thresholding with a decomposition-based multi-objective evolutionary algorithm for segmenting natural and medical images. Applied Soft Computing Journal, 2017, 50, 142-157.	7.2	46
82	Dynamic multi-swarm particle swarm optimizer with sub-regional harmony search. , 2010, , .		45
83	Multimodal optimization by artificial weed colonies enhanced with localized group search optimizers. Applied Soft Computing Journal, 2013, 13, 27-46.	7.2	45
84	Evolutionary multiobjective optimization in dynamic environments: A set of novel benchmark functions. , 2014, , .		43
85	Improving Differential Evolution through Bayesian Hyperparameter Optimization. , 2021, , .		43
86	A Discrete Inter-Species Cuckoo Search for flowshop scheduling problems. Computers and Operations Research, 2015, 60, 111-120.	4.0	42
87	$\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle k \langle \text{/mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\ast} \langle \text{/mml:mo} \rangle \langle \text{/mml:mrow} \rangle \langle \text{/mml:math} \rangle$ Means clustering with a new divergence-based distance metric: Convergence and performance analysis. Pattern Recognition Letters, 2017, 100, 67-73.	4.2	41
88	Appropriateness of performance indices for imbalanced data classification: An analysis. Pattern Recognition, 2020, 102, 107197.	8.1	41
89	Multi-Objective Differential Evolution for Automatic Clustering with Application to Micro-Array Data Analysis. Sensors, 2009, 9, 3981-4004.	3.8	40
90	A Bacterial Evolutionary Algorithm for automatic data clustering. , 2009, , .		40

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91	SYNTHESIS OF THINNED PLANAR CONCENTRIC CIRCULAR ANTENNA ARRAYS -- A DIFFERENTIAL EVOLUTIONARY APPROACH. Progress in Electromagnetics Research B, 2011, 29, 63-82.	1.0	40
92	Feature weighting and selection with a Pareto-optimal trade-off between relevancy and redundancy. Pattern Recognition Letters, 2017, 88, 12-19.	4.2	39
93	A switched parameter differential evolution with optional blending crossover for scalable numerical optimization. Applied Soft Computing Journal, 2017, 57, 329-352.	7.2	38
94	A closed loop stability analysis and parameter selection of the Particle Swarm Optimization dynamics for faster convergence. , 2007, , .		36
95	Inter-particle communication and search-dynamics of lbest particle swarm optimizers: An analysis. Information Sciences, 2012, 182, 156-168.	6.9	36
96	Population-variance and explorative power of Harmony Search: An analysis. , 2008, , .		35
97	Stability analysis of the reproduction operator in bacterial foraging optimization. Theoretical Computer Science, 2010, 411, 2127-2139.	0.9	35
98	Modified Differential Evolution with Locality induced Genetic Operators for dynamic optimization. European Journal of Operational Research, 2016, 253, 337-355.	5.7	34
99	A parameter independent fuzzy weighted k -Nearest neighbor classifier. Pattern Recognition Letters, 2018, 101, 80-87.	4.2	34
100	Inertia-Adaptive Particle Swarm Optimizer for Improved Global Search. , 2008, , .		32
101	Adaptive-Differential-Evolution-Based Design of Two-Channel Quadrature Mirror Filter Banks for Sub-Band Coding and Data Transmission. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1613-1623.	2.9	32
102	Dynamic Constrained Optimization with offspring repair based Gravitational Search Algorithm. , 2013, , .		32
103	Reusing the Past Difference Vectors in Differential Evolutionâ€”A Simple But Significant Improvement. IEEE Transactions on Cybernetics, 2020, 50, 4821-4834.	9.5	32
104	A Differential Evolution Based Approach for Multilevel Image Segmentation Using Minimum Cross Entropy Thresholding. Lecture Notes in Computer Science, 2011, , 51-58.	1.3	32
105	Network intrusion detection system: A machine learning approach. Intelligent Decision Technologies, 2011, 5, 347-356.	0.9	31
106	A MODIFIED DIFFERENTIAL EVOLUTION ALGORITHM FOR SHAPED BEAM LINEAR ARRAY ANTENNA DESIGN. Progress in Electromagnetics Research, 2012, 125, 439-457.	4.4	31
107	DESIGN OF TIME-MODULATED LINEAR ARRAYS WITH A MULTI-OBJECTIVE OPTIMIZATION APPROACH. Progress in Electromagnetics Research B, 2010, 23, 83-107.	1.0	30
108	Fast automatic estimation of the number of clusters from the minimum inter-center distance for k-means clustering. Pattern Recognition Letters, 2018, 116, 72-79.	4.2	30

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109	Multiobjective Support Vector Machines: Handling Class Imbalance With Pareto Optimality. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1602-1608.	11.3	30
110	A Spatially Informative Optic Flow Model of Bee Colony With Saccadic Flight Strategy for Global Optimization. IEEE Transactions on Cybernetics, 2014, 44, 1884-1897.	9.5	29
111	Linear Antenna Array Synthesis with Invasive Weed Optimization Algorithm. , 2009, , .		28
112	A Fuzzy Entropy Based Multi-Level Image Thresholding Using Differential Evolution. Lecture Notes in Computer Science, 2015, , 386-395.	1.3	28
113	A Modified Differential Evolution With Distance-based Selection for Continuous Optimization in Presence of Noise. IEEE Access, 2017, 5, 26944-26964.	4.2	28
114	Fuzzy Clustering to Identify Clusters at Different Levels of Fuzziness: An Evolutionary Multiobjective Optimization Approach. IEEE Transactions on Cybernetics, 2021, 51, 2601-2611.	9.5	28
115	Adaptive Computational Chemotaxis in Bacterial Foraging Algorithm. , 2008, , .		26
116	A Modified Invasive Weed Optimization Algorithm for training of feed- forward Neural Networks. , 2010, , .		26
117	Guest Editorial Special Issue on Differential Evolution. IEEE Transactions on Evolutionary Computation, 2011, 15, 1-3.	10.0	26
118	An ecologically inspired direct search method for solving optimal control problems with BĂ©zier parameterization. Engineering Applications of Artificial Intelligence, 2011, 24, 1195-1203.	8.1	26
119	An inertia-adaptive particle swarm system with particle mobility factor for improved global optimization. Neural Computing and Applications, 2012, 21, 237-250.	5.6	26
120	Simultaneous variable weighting and determining the number of clustersâ€”A weighted Gaussian means algorithm. Statistics and Probability Letters, 2018, 137, 148-156.	0.7	26
121	A black-box adversarial attack strategy with adjustable sparsity and generalizability for deep image classifiers. Pattern Recognition, 2022, 122, 108279.	8.1	26
122	Metaheuristic Pattern Clustering â€” An Overview. Studies in Computational Intelligence, 2009, , 1-62.	0.9	25
123	Utilizing time-linkage property in DOPs: An information sharing based Artificial Bee Colony algorithm for tracking multiple optima in uncertain environments. Soft Computing, 2014, 18, 1199-1212.	3.6	25
124	Categorical fuzzy k-modes clustering with automated feature weight learning. Neurocomputing, 2015, 166, 422-435.	5.9	25
125	Annealed Differential Evolution. , 2007, , .		24
126	Boosting with Lexicographic Programming: Addressing Class Imbalance without Cost Tuning. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 883-897.	5.7	24



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127	Analysis of the reproduction operator in an artificial bacterial foraging system. Applied Mathematics and Computation, 2010, 215, 3343-3355.	2.2	23
128	Automatic shape independent clustering inspired by ant dynamics. Swarm and Evolutionary Computation, 2012, 3, 33-45.	8.1	23
129	Power Flow Analysis of Islanded Microgrids: A Differential Evolution Approach. IEEE Access, 2021, 9, 61721-61738.	4.2	23
130	Spatial Information Based Image Segmentation Using a Modified Particle Swarm Optimization Algorithm. , 2006, , .		22
131	A modified differential evolution-based combined routing and sleep scheduling scheme for lifetime maximization of wireless sensor networks. Soft Computing, 2015, 19, 637-659.	3.6	22
132	Using spatial neighborhoods for parameter adaptation: An improved success history based differential evolution. Swarm and Evolutionary Computation, 2022, 71, 101057.	8.1	22
133	Analysis of reproduction operator in Bacterial Foraging Optimization Algorithm. , 2008, , .		21
134	An improved Multiobjective Evolutionary Algorithm based on decomposition with fuzzy dominance. , 2011, , .		21
135	Linear antenna array synthesis with modified invasive weed optimisation algorithm. International Journal of Bio-Inspired Computation, 2011, 3, 238.	0.9	21
136	Economic load dispatch using population-variance harmony search algorithm. Transactions of the Institute of Measurement and Control, 2012, 34, 746-754.	1.7	21
137	Utilizing dependence among variables in evolutionary algorithms for mixed-integer programming: A case study on multi-objective constrained portfolio optimization. Swarm and Evolutionary Computation, 2021, 66, 100928.	8.1	21
138	A micro-bacterial foraging algorithm for high-dimensional optimization. , 2009, , .		20
139	Automatic Hard Clustering Using Improved Differential Evolution Algorithm. Studies in Computational Intelligence, 2009, , 137-174.	0.9	20
140	Modified differential evolution with local search algorithm for real world optimization. , 2011, , .		20
141	Migrating forager population in a multi-population Artificial Bee Colony algorithm with modified perturbation schemes. , 2013, , .		20
142	A novel genetic algorithm to solve travelling salesman problem and blocking flow shop scheduling problem. International Journal of Bio-Inspired Computation, 2013, 5, 303.	0.9	20
143	Hierarchical clustering with optimal transport. Statistics and Probability Letters, 2020, 163, 108781.	0.7	20
144	Detecting Meaningful Clusters From High-Dimensional Data: A Strongly Consistent Sparse Center-Based Clustering Approach. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 2894-2908.	13.9	20

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145	Hardware Software Partitioning Problem in Embedded System Design Using Particle Swarm Optimization Algorithm. , 2008, , .		19
146	Linear antenna array synthesis using fitness-adaptive differential evolution algorithm. , 2010, , .		19
147	Chaotic Dynamics in Social Foraging Swarmsâ€”An Analysis. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1288-1293.	5.0	19
148	A Reference Vector-Based Simplified Covariance Matrix Adaptation Evolution Strategy for Constrained Global Optimization. IEEE Transactions on Cybernetics, 2022, 52, 3696-3709.	9.5	19
149	Multilevel Image Thresholding Based on Tsallis Entropy and Differential Evolution. Lecture Notes in Computer Science, 2012, , 17-24.	1.3	19
150	Teaching and learning best Differential Evolution with self adaptation for real parameter optimization. , 2013, , .		18
151	A feature weighted penalty based dissimilarity measure for k-nearest neighbor classification with missing features. Pattern Recognition Letters, 2016, 80, 231-237.	4.2	18
152	A Radial Boundary Intersection aided interior point method for multi-objective optimization. Information Sciences, 2017, 377, 1-16.	6.9	18
153	Swarm virus - Next-generation virus and antivirus paradigm?. Swarm and Evolutionary Computation, 2018, 43, 207-224.	8.1	18
154	Automatic Clustering Based on Invasive Weed Optimization Algorithm. Lecture Notes in Computer Science, 2011, , 105-112.	1.3	18
155	Improved Harmony Search for Economic Power Dispatch. , 2009, , .		17
156	Geometric divergence based fuzzy clustering with strong resilience to noise features. Pattern Recognition Letters, 2016, 79, 60-67.	4.2	17
157	Selection of appropriate metaheuristic algorithms for protein structure prediction in AB off-lattice model: a perspective from fitness landscape analysis. Information Sciences, 2017, 391-392, 28-64.	6.9	17
158	Continuous fitness landscape analysis using a chaos-based random walk algorithm. Soft Computing, 2018, 22, 921-948.	3.6	17
159	Implementation of a New Hybrid Methodology for Fault Signal Classification Using Short -Time Fourier Transform and Support Vector Machines. Advances in Intelligent and Soft Computing, 2010, , 219-225.	0.2	17
160	Data Clustering Using Multi-objective Differential Evolution Algorithms. Fundamenta Informaticae, 2009, 97, 381-403.	0.4	16
161	Circular antenna array synthesis with a Differential Invasive Weed Optimization algorithm. , 2010, , .		16
162	EFFICIENT CIRCULAR ARRAY SYNTHESIS WITH A MEMETIC DIFFERENTIAL EVOLUTION ALGORITHM. Progress in Electromagnetics Research B, 2012, 38, 367-385.	1.0	16

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163	DESIGN OF NON-UNIFORM CIRCULAR ANTENNA ARRAYS -- AN EVOLUTIONARY ALGORITHM BASED APPROACH. Progress in Electromagnetics Research B, 2012, 43, 333-354.	1.0	16
164	Crowding-based local differential evolution with speciation-based memory archive for dynamic multimodal optimization. , 2013, , .		16
165	A Ā...-Constrained Matrix Adaptation Evolution Strategy With Broyden-Based Mutation for Constrained Optimization. IEEE Transactions on Cybernetics, 2022, 52, 4784-4796.	9.5	16
166	Impact of chaotic dynamics on the performance of metaheuristic optimization algorithms: An experimental analysis. Information Sciences, 2022, 587, 692-719.	6.9	16
167	Dynamic economic load dispatch with wind energy using modified harmony search. International Journal of Bio-Inspired Computation, 2010, 2, 282.	0.9	15
168	Multi-level image segmentation based on fuzzy - Tsallis entropy and differential evolution. , 2013, , .		15
169	Behavioral analysis of the leader particle during stagnation in a particle swarm optimization algorithm. Information Sciences, 2014, 279, 18-36.	6.9	15
170	A Switched Parameter Differential Evolution for Large Scale Global Optimization "Simpler May Be Better. Advances in Intelligent Systems and Computing, 2015, , 103-125.	0.6	15
171	Clustering with missing features: a penalized dissimilarity measure based approach. Machine Learning, 2018, 107, 1987-2025.	5.4	15
172	Kernel based automatic clustering using modified particle swarm optimization algorithm. , 2007, , .		14
173	Economic Load Dispatch Using a Chemotactic Differential Evolution Algorithm. Lecture Notes in Computer Science, 2009, , 252-260.	1.3	14
174	A Strategy Pool Adaptive Artificial Bee Colony Algorithm for Dynamic Environment through Multi-population Approach. Lecture Notes in Computer Science, 2012, , 611-619.	1.3	14
175	A simulated weed colony system with subregional differential evolution for multimodal optimization. Engineering Optimization, 2013, 45, 459-481.	2.6	14
176	DECOMPOSITION-BASED EVOLUTIONARY MULTI-OBJECTIVE OPTIMIZATION APPROACH TO THE DESIGN OF CONCENTRIC CIRCULAR ANTENNA ARRAYS. Progress in Electromagnetics Research B, 2013, 52, 185-205.	1.0	14
177	Stronger Convergence Results for the Center-Based Fuzzy Clustering With Convex Divergence Measure. IEEE Transactions on Cybernetics, 2019, 49, 4229-4242.	9.5	14
178	Efficient hybrid local search heuristics for solving the travelling thief problem. Applied Soft Computing Journal, 2020, 93, 106284.	7.2	14
179	Automatic Clustering Using a Synergy of Genetic Algorithm and Multi-objective Differential Evolution. Lecture Notes in Computer Science, 2009, , 177-186.	1.3	13
180	Rotation and translation selective Pareto optimal solution to the box-pushing problem by mobile robots using NSGA-II. , 2009, , .		12

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181	A new differential evolution with improved mutation strategy. , 2010, , .		12
182	Democracy-inspired particle swarm optimizer with the concept of peer groups. Soft Computing, 2017, 21, 3267-3286.	3.6	12
183	Axiomatic generalization of the membership degree weighting function for fuzzy C means clustering: Theoretical development and convergence analysis. Information Sciences, 2017, 408, 129-145.	6.9	12
184	Self-Organizing Migrating Algorithm Pareto. Mendel, 2019, 25, 111-120.	1.0	12
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