

Swagatam Das

List of Publications by Year in descending order

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342
papers

20,200
citations

18887

64
h-index

14012

133
g-index

364
all docs

364
docs citations

364
times ranked

13185
citing authors

#	ARTICLE	IF	CITATIONS
1	Notice of Violation of IEEE Publication Principles: A Gravitational Search based Fuzzy Approach for Edge Detection in Colour And Grayscale Images. IEEE Transactions on Fuzzy Systems, 2024, , 1-1.	6.5	1
2	Self-Adaptive Spherical Search With a Low-Precision Projection Matrix for Real-World Optimization. IEEE Transactions on Cybernetics, 2023, 53, 4107-4121.	6.2	6
3	Do Preprocessing and Class Imbalance Matter to the Deep Image Classifiers for COVID-19 Detection? An Explainable Analysis. IEEE Transactions on Artificial Intelligence, 2023, 4, 229-241.	3.4	3
4	An Adaptive-Learning-Based Generative Adversarial Network for One-to-One Voice Conversion. IEEE Transactions on Artificial Intelligence, 2023, 4, 92-106.	3.4	6
5	GEN: Generative Equivariant Networks for Diverse Image-to-Image Translation. IEEE Transactions on Cybernetics, 2023, 53, 874-886.	6.2	6
6	On Consistent Entropy-Regularized k-Means Clustering With Feature Weight Learning: Algorithm and Statistical Analyses. IEEE Transactions on Cybernetics, 2023, 53, 4779-4790.	6.2	3
7	A Reference Vector-Based Simplified Covariance Matrix Adaptation Evolution Strategy for Constrained Global Optimization. IEEE Transactions on Cybernetics, 2022, 52, 3696-3709.	6.2	19
8	A $\tilde{\mu}$ -Constrained Matrix Adaptation Evolution Strategy With Broyden-Based Mutation for Constrained Optimization. IEEE Transactions on Cybernetics, 2022, 52, 4784-4796.	6.2	16
9	A black-box adversarial attack strategy with adjustable sparsity and generalizability for deep image classifiers. Pattern Recognition, 2022, 122, 108279.	5.1	26
10	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.	9.7	20
11	Selective Nearest Neighbors Clustering. Pattern Recognition Letters, 2022, 155, 178-185.	2.6	3
12	On strong consistency of kernel k-means: A Rademacher complexity approach. Statistics and Probability Letters, 2022, 182, 109291.	0.4	2
13	Impact of chaotic dynamics on the performance of metaheuristic optimization algorithms: An experimental analysis. Information Sciences, 2022, 587, 692-719.	4.0	16
14	Self-Organizing Migrating Algorithm with narrowing search space strategy for robot path planning. Applied Soft Computing Journal, 2022, 116, 108270.	4.1	10
15	Benchmarking Optimization-Based Energy Disaggregation Algorithms. Energies, 2022, 15, 1600.	1.6	5
16	Using spatial neighborhoods for parameter adaptation: An improved success history based differential evolution. Swarm and Evolutionary Computation, 2022, 71, 101057.	4.5	22
17	Fuzzy Clustering to Identify Clusters at Different Levels of Fuzziness: An Evolutionary Multiobjective Optimization Approach. IEEE Transactions on Cybernetics, 2021, 51, 2601-2611.	6.2	28
18	Performance assessment of the metaheuristic optimization algorithms: an exhaustive review. Artificial Intelligence Review, 2021, 54, 2323-2409.	9.7	106

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19	Power Flow Analysis of Islanded Microgrids: A Differential Evolution Approach. IEEE Access, 2021, 9, 61721-61738.	2.6	23
20	On the uniform concentration bounds and large sample properties of clustering with Bregman divergences. Stat, 2021, 10, e360.	0.3	3
21	Improving Differential Evolution through Bayesian Hyperparameter Optimization. , 2021, , .		43
22	An Inversion-Free Robust Power-Flow Algorithm for Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 2844-2859.	6.2	8
23	\$t\$-Entropy: A New Measure of Uncertainty with Some Applications. , 2021, , .		6
24	On uniform concentration bounds for Bi-clustering by using the Vapnik-Chervonenkis theory. Statistics and Probability Letters, 2021, 175, 109102.	0.4	2
25	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.	4.5	21
26	A Benchmark-Suite of real-World constrained multi-objective optimization problems and some baseline results. Swarm and Evolutionary Computation, 2021, 67, 100961.	4.5	86
27	Transfer Clustering Using a Multiple Kernel Metric Learned Under Multi-Instance Weak Supervision. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, , 1-11.	3.4	0
28	A Deep Learning Framework Integrating the Spectral and Spatial Features for Image-Assisted Medical Diagnostics. IEEE Access, 2021, 9, 163686-163696.	2.6	5
29	Boosting with Lexicographic Programming: Addressing Class Imbalance without Cost Tuning. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 883-897.	4.0	24
30	A survey of swarm and evolutionary computing approaches for deep learning. Artificial Intelligence Review, 2020, 53, 1767-1812.	9.7	104
31	Reusing the Past Difference Vectors in Differential Evolutionâ€”A Simple But Significant Improvement. IEEE Transactions on Cybernetics, 2020, 50, 4821-4834.	6.2	32
32	Gamesourcing: an unconventional tool to assist the solution of the traveling salesman problem. Natural Computing, 2020, , 1.	1.8	3
33	D-Matrix: A Novel Ranking Procedure for Prioritizing Data Items. IEEE Access, 2020, 8, 145843-145861.	2.6	0
34	A Bayesian nonâ€”parametric approach for automatic clustering with feature weighting. Stat, 2020, 9, e306.	0.3	6
35	A simple two-phase differential evolution for improved global numerical optimization. Soft Computing, 2020, 24, 6151-6167.	2.1	8
36	Appropriateness of performance indices for imbalanced data classification: An analysis. Pattern Recognition, 2020, 102, 107197.	5.1	41

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37	A test-suite of non-convex constrained optimization problems from the real-world and some baseline results. Swarm and Evolutionary Computation, 2020, 56, 100693.	4.5	223
38	Efficient hybrid local search heuristics for solving the travelling thief problem. Applied Soft Computing Journal, 2020, 93, 106284.	4.1	14
39	Hierarchical clustering with optimal transport. Statistics and Probability Letters, 2020, 163, 108781.	0.4	20
40	SOMA T3A for Solving the 100-Digit Challenge. Communications in Computer and Information Science, 2020, , 155-165.	0.4	6
41	Stronger Convergence Results for the Center-Based Fuzzy Clustering With Convex Divergence Measure. IEEE Transactions on Cybernetics, 2019, 49, 4229-4242.	6.2	14
42	Testing A Multi-Operator based Differential Evolution Algorithm on the 100-Digit Challenge for Single Objective Numerical Optimization. , 2019, , .		9
43	On semi-supervised active clustering of stable instances with oracles. Information Processing Letters, 2019, 151, 105833.	0.4	1
44	On the non-convergence of differential evolution. , 2019, , .		0
45	The spherical search algorithm for bound-constrained global optimization problems. Applied Soft Computing Journal, 2019, 85, 105734.	4.1	55
46	A multi-start variable neighbourhood descent algorithm for hybrid flowshop rescheduling. Swarm and Evolutionary Computation, 2019, 45, 92-112.	4.5	70
47	On the strong consistency of feature-weighted k-means clustering in a nearmetric space. Stat, 2019, 8, e227.	0.3	5
48	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	4.5	430
49	Generative Adversarial Minority Oversampling. , 2019, , .		102
50	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e10265" altimg="si80.gif" \rangle \langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Chaotic map enabled Grey Wolf Optimizer. Applied Soft Computing Journal, 2019, 75, 84-105.	4.1	82
51	On Convergence of the Class Membership Estimator in Fuzzy k -Nearest Neighbor Classifier. IEEE Transactions on Fuzzy Systems, 2019, 27, 1226-1236.	6.5	9
52	Multiobjective Support Vector Machines: Handling Class Imbalance With Pareto Optimality. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1602-1608.	7.2	30
53	Self-Organizing Migrating Algorithm Pareto. Mendel, 2019, 25, 111-120.	0.5	12
54	Simultaneous variable weighting and determining the number of clusters – A weighted Gaussian means algorithm. Statistics and Probability Letters, 2018, 137, 148-156.	0.4	26

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55	A synergy of the sine-cosine algorithm and particle swarm optimizer for improved global optimization and object tracking. <i>Swarm and Evolutionary Computation</i> , 2018, 43, 1-30.	4.5	132
56	Synergism of Firefly Algorithm and Q-Learning for Robot Arm Path Planning. <i>Swarm and Evolutionary Computation</i> , 2018, 43, 50-68.	4.5	67
57	Adaptive Learning-Based k -Nearest Neighbor Classifiers With Resilience to Class Imbalance. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018, 29, 5713-5725.	7.2	77
58	Handling data irregularities in classification: Foundations, trends, and future challenges. <i>Pattern Recognition</i> , 2018, 81, 674-693.	5.1	148
59	Continuous fitness landscape analysis using a chaos-based random walk algorithm. <i>Soft Computing</i> , 2018, 22, 921-948.	2.1	17
60	On the unification of possibilistic fuzzy clustering: Axiomatic development and convergence analysis. <i>Fuzzy Sets and Systems</i> , 2018, 340, 73-90.	1.6	7
61	Clustering of fuzzy data and simultaneous feature selection: A model selection approach. <i>Fuzzy Sets and Systems</i> , 2018, 340, 1-37.	1.6	11
62	A parameter independent fuzzy weighted k -Nearest neighbor classifier. <i>Pattern Recognition Letters</i> , 2018, 101, 80-87.	2.6	34
63	A Switched Parameter Differential Evolution with Multi-donor Mutation and Annealing Based Local Search for Optimization of Lennard-Jones Atomic Clusters. , 2018, , .		3
64	Fast automatic estimation of the number of clusters from the minimum inter-center distance for k -means clustering. <i>Pattern Recognition Letters</i> , 2018, 116, 72-79.	2.6	30
65	Swarm virus - Next-generation virus and antivirus paradigm?. <i>Swarm and Evolutionary Computation</i> , 2018, 43, 207-224.	4.5	18
66	Clustering with missing features: a penalized dissimilarity measure based approach. <i>Machine Learning</i> , 2018, 107, 1987-2025.	3.4	15
67	Metaheuristic Approach to PSP – An Overview of the Existing State-of-the-art. <i>Emergence, Complexity and Computation</i> , 2018, , 29-38.	0.2	1
68	Protein Structure Prediction Using Improved Variants of Metaheuristic Algorithms. <i>Emergence, Complexity and Computation</i> , 2018, , 169-195.	0.2	1
69	The Lévy Distributed Parameter Adaptive Differential Evolution for Protein Structure Prediction. <i>Emergence, Complexity and Computation</i> , 2018, , 151-167.	0.2	1
70	Hybrid Metaheuristic Approach for Protein Structure Prediction. <i>Emergence, Complexity and Computation</i> , 2018, , 197-206.	0.2	3
71	Democracy-inspired particle swarm optimizer with the concept of peer groups. <i>Soft Computing</i> , 2017, 21, 3267-3286.	2.1	12
72	Feature weighting and selection with a Pareto-optimal trade-off between relevancy and redundancy. <i>Pattern Recognition Letters</i> , 2017, 88, 12-19.	2.6	39

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73	Feature-weighted clustering with inner product induced norm based dissimilarity measures: an optimization perspective. Machine Learning, 2017, 106, 951-992.	3.4	4
74	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.	4.0	17
75	Axiomatic generalization of the membership degree weighting function for fuzzy C means clustering: Theoretical development and convergence analysis. Information Sciences, 2017, 408, 129-145.	4.0	12
76	Generalized mean based back-propagation of errors for ambiguity resolution. Pattern Recognition Letters, 2017, 94, 22-29.	2.6	1
77	A switched parameter differential evolution with optional blending crossover for scalable numerical optimization. Applied Soft Computing Journal, 2017, 57, 329-352.	4.1	38
78	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle k \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\sim} \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Means clustering with a new divergence-based distance metric: Convergence and performance analysis. Pattern Recognition Letters, 2017, 100, 67-73.	2.6	41
79	Protein Structure Optimization in 3D AB off-lattice model using Biogeography Based Optimization with Chaotic Mutation. , 2017, , .		1
80	A noise resilient Differential Evolution with improved parameter and strategy control. , 2017, , .		7
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.	4.1	46
82	A Radial Boundary Intersection aided interior point method for multi-objective optimization. Information Sciences, 2017, 377, 1-16.	4.0	18
83	Computing with the collective intelligence of honey bees â€“ A survey. Swarm and Evolutionary Computation, 2017, 32, 25-48.	4.5	100
84	Noisy evolutionary optimization algorithms â€“ A comprehensive survey. Swarm and Evolutionary Computation, 2017, 33, 18-45.	4.5	103
85	Termite spatial correlation based particle swarm optimization for unconstrained optimization. Swarm and Evolutionary Computation, 2017, 33, 93-107.	4.5	6
86	A Modified Differential Evolution With Distance-based Selection for Continuous Optimization in Presence of Noise. IEEE Access, 2017, 5, 26944-26964.	2.6	28
87	Particle swarm optimization with a modified learning strategy and blending crossover. , 2017, , .		3
88	On the Unification of k-Harmonic Means and Fuzzy c-Means Clustering Problems under Kernelization. , 2017, , .		4
89	An Improved Harmony Search Algorithm for Protein Structure Prediction Using 3D Off-Lattice Model. Advances in Intelligent Systems and Computing, 2017, , 304-314.	0.5	6
90	Geometric divergence based fuzzy clustering with strong resilience to noise features. Pattern Recognition Letters, 2016, 79, 60-67.	2.6	17

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91	Optimizing cluster structures with inner product induced norm based dissimilarity measures: Theoretical development and convergence analysis. Information Sciences, 2016, 372, 796-814.	4.0	3
92	A feature weighted penalty based dissimilarity measure for k-nearest neighbor classification with missing features. Pattern Recognition Letters, 2016, 80, 231-237.	2.6	18
93	A hybrid improved PSO-DV algorithm for multi-robot path planning in a clutter environment. Neurocomputing, 2016, 207, 735-753.	3.5	106
94	A Fuzzy Rule-Based Penalty Function Approach for Constrained Evolutionary Optimization. IEEE Transactions on Cybernetics, 2016, 46, 2953-2965.	6.2	57
95	Linkage based deferred acceptance optimization. Information Sciences, 2016, 349-350, 65-76.	4.0	0
96	Recent advances in differential evolution – An updated survey. Swarm and Evolutionary Computation, 2016, 27, 1-30.	4.5	1,261
97	Modified Differential Evolution with Locality induced Genetic Operators for dynamic optimization. European Journal of Operational Research, 2016, 253, 337-355.	3.5	34
98	Hyper-spectral image segmentation using Rényi entropy based multi-level thresholding aided with differential evolution. Expert Systems With Applications, 2016, 50, 120-129.	4.4	84
99	Ensemble of Constraint Handling Techniques for Single Objective Constrained Optimization. Infosys Science Foundation Series, 2015, , 231-248.	0.3	3
100	A Discrete Inter-Species Cuckoo Search for flowshop scheduling problems. Computers and Operations Research, 2015, 60, 111-120.	2.4	42
101	Improved Bees Algorithm for Protein Structure Prediction Using AB Off-Lattice Model. Advances in Intelligent Systems and Computing, 2015, , 39-52.	0.5	6
102	Simultaneous feature selection and weighting – An evolutionary multi-objective optimization approach. Pattern Recognition Letters, 2015, 65, 51-59.	2.6	84
103	Near-Bayesian Support Vector Machines for imbalanced data classification with equal or unequal misclassification costs. Neural Networks, 2015, 70, 39-52.	3.3	131
104	Automated feature weighting in clustering with separable distances and inner product induced norms – A theoretical generalization. Pattern Recognition Letters, 2015, 63, 50-58.	2.6	4
105	Chaotic patterns in the discrete-time dynamics of social foraging swarms with attractant–repellent profiles: an analysis. Nonlinear Dynamics, 2015, 82, 1399-1417.	2.7	6
106	Rough-Fuzzy Collaborative Multi-level Image Thresholding: A Differential Evolution Approach. Advances in Intelligent Systems and Computing, 2015, , 329-341.	0.5	0
107	A Switched Parameter Differential Evolution for Large Scale Global Optimization – Simpler May Be Better. Advances in Intelligent Systems and Computing, 2015, , 103-125.	0.5	15
108	Categorical fuzzy k-modes clustering with automated feature weight learning. Neurocomputing, 2015, 166, 422-435.	3.5	25

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109	A Fuzzy Entropy Based Multi-Level Image Thresholding Using Differential Evolution. Lecture Notes in Computer Science, 2015, , 386-395.	1.0	28
110	Inducing Niching Behavior in Differential Evolution Through Local Information Sharing. IEEE Transactions on Evolutionary Computation, 2015, 19, 246-263.	7.5	156
111	A multilevel color image thresholding scheme based on minimum cross entropy and differential evolution. Pattern Recognition Letters, 2015, 54, 27-35.	2.6	138
112	Ant colony optimization based enhanced dynamic source routing algorithm for mobile Ad-hoc network. Information Sciences, 2015, 295, 67-90.	4.0	78
113	A modified differential evolution-based combined routing and sleep scheduling scheme for lifetime maximization of wireless sensor networks. Soft Computing, 2015, 19, 637-659.	2.1	22
114	A novel fuzzy non-homogeneity measure based kernelized image segmentation for noisy images. , 2014, , .		1
115	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.	5.9	77
116	A Spatially Informative Optic Flow Model of Bee Colony With Saccadic Flight Strategy for Global Optimization. IEEE Transactions on Cybernetics, 2014, 44, 1884-1897.	6.2	29
117	Evolutionary multiobjective optimization in dynamic environments: A set of novel benchmark functions. , 2014, , .		43
118	Particle Swarm Optimization with population adaptation. , 2014, , .		5
119	The Monarchy Driven Optimization technique. , 2014, , .		0
120	An improved particle swarm optimizer with difference mean based perturbation. Neurocomputing, 2014, 129, 315-333.	3.5	50
121	Stability and chaos analysis of a novel swarm dynamics with applications to multi-agent systems. Engineering Applications of Artificial Intelligence, 2014, 30, 189-198.	4.3	48
122	Optimal coordination of directional over-current relays using informative differential evolution algorithm. Journal of Computational Science, 2014, 5, 269-276.	1.5	69
123	Decomposition-based modern metaheuristic algorithms for multi-objective optimal power flow – A comparative study. Engineering Applications of Artificial Intelligence, 2014, 32, 10-20.	4.3	54
124	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.	1.4	48
125	An Adaptive Differential Evolution Algorithm for Global Optimization in Dynamic Environments. IEEE Transactions on Cybernetics, 2014, 44, 966-978.	6.2	151
126	An Improved Parent-Centric Mutation With Normalized Neighborhoods for Inducing Niching Behavior in Differential Evolution. IEEE Transactions on Cybernetics, 2014, 44, 1726-1737.	6.2	102

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127	Evaluating the performance of Group Counseling Optimizer on CEC 2014 problems for Computational Expensive Optimization. , 2014, , .		7
128	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.	2.1	25
129	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.	6.5	89
130	Behavioral analysis of the leader particle during stagnation in a particle swarm optimization algorithm. Information Sciences, 2014, 279, 18-36.	4.0	15
131	Cluster-based differential evolution with Crowding Archive for niching in dynamic environments. Information Sciences, 2014, 267, 58-82.	4.0	52
132	Crowding-based local differential evolution with speciation-based memory archive for dynamic multimodal optimization. , 2013, , .		16
133	Multi-user detection in multi-carrier CDMA wireless broadband system using a binary adaptive differential evolution algorithm. , 2013, , .		2
134	Dynamic Constrained Optimization with offspring repair based Gravitational Search Algorithm. , 2013, , .		32
135	Modified estimation of Distribution algorithm with differential mutation for constrained optimization. , 2013, , .		1
136	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.	4.1	66
137	Multi-level image segmentation based on fuzzy - Tsallis entropy and differential evolution. , 2013, , .		15
138	Migrating forager population in a multi-population Artificial Bee Colony algorithm with modified perturbation schemes. , 2013, , .		20
139	Dynamic Differential Evolution with Difference Mean Based Perturbation. , 2013, , .		0
140	Teaching and learning best Differential Evolution with self adaptation for real parameter optimization. , 2013, , .		18
141	Improved CMA-ES with Memory based Directed Individual Generation for Real Parameter Optimization. , 2013, , .		5
142	Adaptive Differential Evolution with Locality based Crossover for Dynamic Optimization. , 2013, , .		8
143	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.	5.9	120
144	Synchronizing Differential Evolution with a modified affinity-based mutation framework. , 2013, , .		3

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145	Multimodal optimization by artificial weed colonies enhanced with localized group search optimizers. <i>Applied Soft Computing Journal</i> , 2013, 13, 27-46.	4.1	45
146	Multi-objective node deployment in WSNs: In search of an optimal trade-off among coverage, lifetime, energy consumption, and connectivity. <i>Engineering Applications of Artificial Intelligence</i> , 2013, 26, 405-416.	4.3	130
147	A Cluster-Based Differential Evolution Algorithm With External Archive for Optimization in Dynamic Environments. <i>IEEE Transactions on Cybernetics</i> , 2013, 43, 881-897.	6.2	161
148	Risk minimization in biometric sensor networks: an evolutionary multi-objective optimization approach. <i>Soft Computing</i> , 2013, 17, 133-144.	2.1	3
149	Adaptive evolutionary programming with p-best mutation strategy. <i>Swarm and Evolutionary Computation</i> , 2013, 9, 58-68.	4.5	11
150	Adaptive differential evolution with difference mean based perturbation for dynamic economic dispatch problem. , 2013, , .		5
151	A simulated weed colony system with subregional differential evolution for multimodal optimization. <i>Engineering Optimization</i> , 2013, 45, 459-481.	1.5	14
152	A Distance-Based Locally Informed Particle Swarm Model for Multimodal Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2013, 17, 387-402.	7.5	327
153	A differential invasive weed optimization algorithm for improved global numerical optimization. <i>Applied Mathematics and Computation</i> , 2013, 219, 6645-6668.	1.4	55
154	Multilevel Image Thresholding Based on 2D Histogram and Maximum Tsallis Entropy A Differential Evolution Approach. <i>IEEE Transactions on Image Processing</i> , 2013, 22, 4788-4797.	6.0	157
155	Multimodal Optimization Using a Biobjective Differential Evolution Algorithm Enhanced With Mean Distance-Based Selection. <i>IEEE Transactions on Evolutionary Computation</i> , 2013, 17, 666-685.	7.5	219
156	Design of PID controller based power system stabilizer using Modified Philip-Heffron's model: An artificial bee colony approach. , 2013, , .		10
157	Cooperative Micro Artificial Bee Colony Algorithm for Large Scale Global Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2013, , 469-480.	1.0	1
158	Differential Evolution and Offspring Repair Method Based Dynamic Constrained Optimization. <i>Lecture Notes in Computer Science</i> , 2013, , 298-309.	1.0	11
159	A Differential Evolutionary Multilevel Segmentation of Near Infra-Red Images Using Renyi's Entropy. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 699-706.	0.5	11
160	A Hybrid Discrete Differential Evolution Algorithm for Economic Lot Scheduling Problem with Time Variant Lot Sizing. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 1-12.	0.5	2
161	Two decomposition-based modern metaheuristic algorithms for multi-objective optimization — A comparative study. , 2013, , .		2
162	ABC-TDQL: An adaptive memetic algorithm. , 2013, , .		9

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163	Differential evolution with temporal difference Q-learning based feature selection for motor imagery EEG data. , 2013, , .		4
164	A novel genetic algorithm to solve travelling salesman problem and blocking flow shop scheduling problem. International Journal of Bio-Inspired Computation, 2013, 5, 303.	0.6	20
165	DECOMPOSITION-BASED EVOLUTIONARY MULTI-OBJECTIVE OPTIMIZATION APPROACH TO THE DESIGN OF CONCENTRIC CIRCULAR ANTENNA ARRAYS. Progress in Electromagnetics Research B, 2013, 52, 185-205.	0.7	14
166	A Differential Evolution Approach to Multi-level Image Thresholding Using Type II Fuzzy Sets. Lecture Notes in Computer Science, 2013, , 274-285.	1.0	7
167	Differential Evolution with Controlled Annihilation and Regeneration of Individuals and A Novel Mutation Scheme. Lecture Notes in Computer Science, 2013, , 286-297.	1.0	1
168	A Novel Ant Colony Optimization Algorithm for the Vehicle Routing Problem. Lecture Notes in Computer Science, 2013, , 401-412.	1.0	3
169	Intelligent Fault Tracking by an Adaptive Fuzzy Predictor and a Fractional Controller of Electromechanical System " A Hybrid Approach. Lecture Notes in Computer Science, 2013, , 574-582.	1.0	0
170	A Modified Differential Evolution for Symbol Detection in MIMO-OFDM System. Lecture Notes in Computer Science, 2013, , 236-247.	1.0	0
171	A Game Theoretic Approach for Reliable Power Supply in Islanded DG Grids. Lecture Notes in Computer Science, 2013, , 487-498.	1.0	0
172	Adaptive Differential Evolution with Difference Mean Based Perturbation for Practical Engineering Optimization Problems. Lecture Notes in Computer Science, 2013, , 310-320.	1.0	0
173	An Adaptive Differential Evolution Based Fuzzy Approach for Edge Detection in Color and Grayscale Images. Lecture Notes in Computer Science, 2013, , 260-273.	1.0	1
174	Economic load dispatch using population-variance harmony search algorithm. Transactions of the Institute of Measurement and Control, 2012, 34, 746-754.	1.1	21
175	A Strategy Pool Adaptive Artificial Bee Colony Algorithm for Dynamic Environment through Multi-population Approach. Lecture Notes in Computer Science, 2012, , 611-619.	1.0	14
176	Configuration of sensors on a 3-D terrain. , 2012, , .		0
177	4ABC. , 2012, , .		7
178	An improved multi-objective optimization algorithm based on fuzzy dominance for risk minimization in biometric sensor network. , 2012, , .		2
179	Design of Fractional Order Controller for a servohydraulic positioning system with micro Artificial Bee Colony algorithm. , 2012, , .		9
180	Teaching Learning Opposition Based Optimization for the Location of Median Line in 3-D Space. Lecture Notes in Computer Science, 2012, , 331-338.	1.0	2

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181	A Selective Teaching-Learning Based Niching Technique with Local Diversification Strategy. Lecture Notes in Computer Science, 2012, , 160-168.	1.0	3
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