

Dervis Karaboga

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7870011/publications.pdf>

Version: 2024-02-01

106
papers

23,166
citations

70961

41
h-index

66788

78
g-index

107
all docs

107
docs citations

107
times ranked

10786
citing authors

#	ARTICLE	IF	CITATIONS
1	A powerful and efficient algorithm for numerical function optimization: artificial bee colony (ABC) algorithm. <i>Journal of Global Optimization</i> , 2007, 39, 459-471.	1.1	5,949
2	On the performance of artificial bee colony (ABC) algorithm. <i>Applied Soft Computing Journal</i> , 2008, 8, 687-697.	4.1	3,080
3	A comparative study of Artificial Bee Colony algorithm. <i>Applied Mathematics and Computation</i> , 2009, 214, 108-132.	1.4	2,722
4	A comprehensive survey: artificial bee colony (ABC) algorithm and applications. <i>Artificial Intelligence Review</i> , 2014, 42, 21-57.	9.7	1,420
5	A modified Artificial Bee Colony algorithm for real-parameter optimization. <i>Information Sciences</i> , 2012, 192, 120-142.	4.0	945
6	A novel clustering approach: Artificial Bee Colony (ABC) algorithm. <i>Applied Soft Computing Journal</i> , 2011, 11, 652-657.	4.1	913
7	Artificial Bee Colony (ABC) Optimization Algorithm for Solving Constrained Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2007, , 789-798.	1.0	785
8	A survey: algorithms simulating bee swarm intelligence. <i>Artificial Intelligence Review</i> , 2009, 31, 61-85.	9.7	518
9	A modified Artificial Bee Colony (ABC) algorithm for constrained optimization problems. <i>Applied Soft Computing Journal</i> , 2011, 11, 3021-3031.	4.1	513
10	Artificial bee colony algorithm for large-scale problems and engineering design optimization. <i>Journal of Intelligent Manufacturing</i> , 2012, 23, 1001-1014.	4.4	443
11	Artificial bee colony algorithm. <i>Scholarpedia Journal</i> , 2010, 5, 6915.	0.3	437
12	Adaptive network based fuzzy inference system (ANFIS) training approaches: a comprehensive survey. <i>Artificial Intelligence Review</i> , 2019, 52, 2263-2293.	9.7	377
13	Artificial Bee Colony (ABC) Optimization Algorithm for Training Feed-Forward Neural Networks. <i>Lecture Notes in Computer Science</i> , 2007, , 318-329.	1.0	306
14	A quick artificial bee colony (qABC) algorithm and its performance on optimization problems. <i>Applied Soft Computing Journal</i> , 2014, 23, 227-238.	4.1	269
15	Cluster based wireless sensor network routing using artificial bee colony algorithm. <i>Wireless Networks</i> , 2012, 18, 847-860.	2.0	250
16	Pareto front feature selection based on artificial bee colony optimization. <i>Information Sciences</i> , 2018, 422, 462-479.	4.0	240
17	On clarifying misconceptions when comparing variants of the Artificial Bee Colony Algorithm by offering a new implementation. <i>Information Sciences</i> , 2015, 291, 115-127.	4.0	199
18	Artificial bee colony programming for symbolic regression. <i>Information Sciences</i> , 2012, 209, 1-15.	4.0	166

#	ARTICLE	IF	CITATIONS
19	Routing in Wireless Sensor Networks Using an Ant Colony Optimization (ACO) Router Chip. Sensors, 2009, 9, 909-921.	2.1	150
20	Probabilistic Dynamic Deployment of Wireless Sensor Networks by Artificial Bee Colony Algorithm. Sensors, 2011, 11, 6056-6065.	2.1	143
21	A binary ABC algorithm based on advanced similarity scheme for feature selection. Applied Soft Computing Journal, 2015, 36, 334-348.	4.1	137
22	Dynamic clustering with improved binary artificial bee colony algorithm. Applied Soft Computing Journal, 2015, 28, 69-80.	4.1	136
23	A novel binary artificial bee colony algorithm based on genetic operators. Information Sciences, 2015, 297, 154-170.	4.0	134
24	A comprehensive review of deep learning in colon cancer. Computers in Biology and Medicine, 2020, 126, 104003.	3.9	125
25	Designing digital IIR filters using ant colony optimisation algorithm. Engineering Applications of Artificial Intelligence, 2004, 17, 301-309.	4.3	124
26	Artificial Bee Colony (ABC) Algorithm on Training Artificial Neural Networks. , 2007, , .		122
27	A survey on the applications of artificial bee colony in signal, image, and video processing. Signal, Image and Video Processing, 2015, 9, 967-990.	1.7	121
28	Parameter Tuning for the Artificial Bee Colony Algorithm. Lecture Notes in Computer Science, 2009, , 608-619.	1.0	117
29	A combinatorial Artificial Bee Colony algorithm for traveling salesman problem. , 2011, , .		114
30	An adaptive and hybrid artificial bee colony algorithm (aABC) for ANFIS training. Applied Soft Computing Journal, 2016, 49, 423-436.	4.1	113
31	Hybrid Artificial Bee Colony algorithm for neural network training. , 2011, , .		105
32	Neural computation of resonant frequency of electrically thin and thick rectangular microstrip antennas. IET Microwaves Antennas and Propagation, 1999, 146, 155.	1.2	97
33	A comprehensive survey of traditional, merge-split and evolutionary approaches proposed for determination of cluster number. Swarm and Evolutionary Computation, 2017, 32, 49-67.	4.5	93
34	A robust real-time deep learning based automatic polyp detection system. Computers in Biology and Medicine, 2021, 134, 104519.	3.9	84
35	Routing in Wireless Sensor Networks Using Ant Colony Optimization. , 2006, , .		76
36	Training Elman and Jordan networks for system identification using genetic algorithms. Advanced Engineering Informatics, 1999, 13, 107-117.	0.5	69

#	ARTICLE	IF	CITATIONS
37	An efficient real-time colonic polyp detection with YOLO algorithms trained by using negative samples and large datasets. <i>Computers in Biology and Medicine</i> , 2022, 141, 105031.	3.9	67
38	The Artificial Bee Colony algorithm in layer optimization for the maximum fundamental frequency of symmetrical laminated composite plates. <i>Engineering Optimization</i> , 2014, 46, 420-437.	1.5	65
39	Antenna array pattern nulling by controlling both amplitude and phase using modified touring ant colony optimization algorithm. <i>International Journal of Electronics</i> , 2004, 91, 241-251.	0.9	60
40	Color Image Quantization: A Short Review and an Application with Artificial Bee Colony Algorithm. <i>Informatica</i> , 2014, 25, 485-503.	1.5	52
41	A survey on the Artificial Bee Colony algorithm variants for binary, integer and mixed integer programming problems. <i>Applied Soft Computing Journal</i> , 2021, 106, 107351.	4.1	52
42	Touring Ant Colony Optimization Algorithm for Shaped-Beam Pattern Synthesis of Linear Antenna. <i>Electromagnetics</i> , 2006, 26, 615-628.	0.3	48
43	An application of Wireless Sensor Network routing based on Artificial Bee Colony Algorithm. , 2011, , .		47
44	Solving Traveling Salesman Problem by Using Combinatorial Artificial Bee Colony Algorithms. <i>International Journal on Artificial Intelligence Tools</i> , 2019, 28, 1950004.	0.7	46
45	Self-generated fuzzy systems design using artificial bee colony optimization. <i>Information Sciences</i> , 2015, 295, 145-159.	4.0	45
46	Improved clustering criterion for image clustering with artificial bee colony algorithm. <i>Pattern Analysis and Applications</i> , 2015, 18, 587-599.	3.1	45
47	A multi-objective artificial bee colony approach to feature selection using fuzzy mutual information. , 2015, , .		42
48	Improved quick artificial bee colony (iqABC) algorithm for global optimization. <i>Soft Computing</i> , 2019, 23, 13161-13182.	2.1	42
49	Artificial Bee Colony based image clustering method. , 2012, , .		41
50	Cluster based wireless sensor network routings using Artificial Bee Colony Algorithm. , 2010, , .		37
51	Partial transmit sequences based on artificial bee colony algorithm for peak-to-average power ratio reduction in multicarrier code division multiple access systems. <i>IET Communications</i> , 2011, 5, 1155-1162.	1.5	35
52	Simple and accurate effective side length expression obtained by using a modified genetic algorithm for the resonant frequency of an equilateral triangular microstrip antenna. <i>International Journal of Electronics</i> , 1997, 83, 99-108.	0.9	34
53	Training recurrent neural networks by using parallel tabu search algorithm based on crossover operation. <i>Engineering Applications of Artificial Intelligence</i> , 2004, 17, 529-542.	4.3	33
54	Controlling spillway gates of dams by using fuzzy logic controller with optimum rule number. <i>Applied Soft Computing Journal</i> , 2008, 8, 232-238.	4.1	32

#	ARTICLE	IF	CITATIONS
55	A genetic Artificial Bee Colony algorithm for signal reconstruction based big data optimization. Applied Soft Computing Journal, 2020, 88, 106053.	4.1	32
56	A comprehensive survey on optimizing deep learning models by metaheuristics. Artificial Intelligence Review, 2022, 55, 829-894.	9.7	32
57	Solving Integer Programming Problems by Using Artificial Bee Colony Algorithm. Lecture Notes in Computer Science, 2009, , 355-364.	1.0	32
58	Artificial bee colony algorithm for dynamic deployment of wireless sensor networks. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	0.9	31
59	Proportionalâ€”Integralâ€”Derivative Controller Design by Using Artificial Bee Colony, Harmony Search, and the Bees Algorithms. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2010, 224, 869-883.	0.7	28
60	Extraction of brain tumors from MRI images with artificial bee colony based segmentation methodology. , 2013, , .		27
61	Fuzzy Logic Based Operation of Spillway Gates of Reservoirs during Floods. Journal of Hydrologic Engineering - ASCE, 2004, 9, 544-549.	0.8	26
62	Training ANFIS by Using an Adaptive and Hybrid Artificial Bee Colony Algorithm (aABC) for the Identification of Nonlinear Static Systems. Arabian Journal for Science and Engineering, 2019, 44, 3531-3547.	1.7	26
63	Discovery of conserved regions in DNA sequences by Artificial Bee Colony (ABC) algorithm based methods. Natural Computing, 2019, 18, 333-350.	1.8	26
64	Artificial bee colony data miner (ABC-Miner). , 2011, , .		25
65	Training ANFIS by using the artificial bee colony algorithm. Turkish Journal of Electrical Engineering and Computer Sciences, 2017, 25, 1669-1679.	0.9	24
66	Estimation of number of foreign visitors with ANFIS by using ABC algorithm. Soft Computing, 2020, 24, 7579-7591.	2.1	24
67	A quick artificial bee colony -qABC- algorithm for optimization problems. , 2012, , .		23
68	A discrete artificial bee colony algorithm for detecting transcription factor binding sites in DNA sequences. Genetics and Molecular Research, 2016, 15, .	0.3	23
69	A quick semantic artificial bee colony programming (qsABCP) for symbolic regression. Information Sciences, 2019, 502, 346-362.	4.0	23
70	A new effective side length expression obtained using a modified tabu search algorithm for the resonant frequency of a triangular microstrip antenna. International Journal of RF and Microwave Computer-Aided Engineering, 1998, 8, 4-10.	0.8	22
71	CoABCMiner: An Algorithm for Cooperative Rule Classification System Based on Artificial Bee Colony. International Journal on Artificial Intelligence Tools, 2016, 25, 1550028.	0.7	22
72	Modified multiple search cooperative foraging strategy for improved artificial bee colony optimization with robustness analysis. Soft Computing, 2018, 22, 6371-6394.	2.1	21

#	ARTICLE	IF	CITATIONS
73	THE ARTIFICIAL BEE COLONY ALGORITHM IN TRAINING ARTIFICIAL NEURAL NETWORK FOR OIL SPILL DETECTION. <i>Neural Network World</i> , 2011, 21, 473-492.	0.5	21
74	Artificial neural networks and fuzzy logic based control of spillway gates of dams. <i>Hydrological Processes</i> , 2004, 18, 2485-2501.	1.1	18
75	NEW NARROW APERTURE DIMENSION EXPRESSIONS OBTAINED BY USING A DIFFERENTIAL EVOLUTION ALGORITHM FOR OPTIMUM GAIN PYRAMIDAL HORNS. <i>Journal of Electromagnetic Waves and Applications</i> , 2004, 18, 321-339.	1.0	18
76	Regression-Based Neuro-Fuzzy Network Trained by ABC Algorithm for High-Density Impulse Noise Elimination. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 1084-1095.	6.5	18
77	Self-tuning fuzzy controller design using genetic optimisation and neural network modelling. <i>Advanced Engineering Informatics</i> , 1999, 13, 119-130.	0.5	17
78	Training ANFIS using artificial bee colony algorithm. , 2013, , .		16
79	Genetic tracker with neural network for single and multiple target tracking. <i>Neurocomputing</i> , 2006, 69, 2309-2319.	3.5	14
80	Evolutionary algorithm-based fuzzy PD control of spillway gates of dams. <i>Journal of the Franklin Institute</i> , 2007, 344, 1039-1055.	1.9	14
81	Training ANFIS using artificial bee colony algorithm for nonlinear dynamic systems identification. , 2014, , .		13
82	Wavelet packets optimization using Artificial Bee Colony algorithm. , 2011, , .		12
83	A new emigrant creation strategy for parallel Artificial Bee Colony algorithm. , 2015, , .		12
84	Genetic algorithms with variable mutation rates: Application to fuzzy logic controller design. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 1997, 211, 157-167.	0.7	10
85	Mix Proportioning of Aggregates for Concrete by Three Different Approaches. <i>Journal of Materials in Civil Engineering</i> , 2012, 24, 529-537.	1.3	10
86	A new artificial bee colony algorithm employing intelligent forager forwarding strategies. <i>Applied Soft Computing Journal</i> , 2020, 96, 106656.	4.1	10
87	Archive-based multi-criteria Artificial Bee Colony algorithm for whole test suite generation. <i>Engineering Science and Technology, an International Journal</i> , 2021, 24, 806-817.	2.0	10
88	PAPR reduction using artificial bee colony algorithm in OFDM systems. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 0, , .	0.9	10
89	A new method based on artificial bee colony programming for the regional standardized intensityâ€™durationâ€™frequency relationship. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	0.6	10
90	A survey on the studies employing machine learning (ML) for enhancing artificial bee colony (ABC) optimization algorithm. <i>Cogent Engineering</i> , 2020, 7, 1855741.	1.1	7

#	ARTICLE	IF	CITATIONS
91	Tabu Search Tracker for Multiple Target Tracking. Journal of Electromagnetic Waves and Applications, 2004, 18, 1573-1589.	1.0	6
92	A comparative study on Differential Evolution based routing implementations for wireless sensor networks. , 2012, , .		6
93	Training recurrent neural networks by using parallel tabu search algorithm based on crossover operation. Engineering Applications of Artificial Intelligence, 2004, 17, 529-529.	4.3	5
94	A hybrid method to the reconstruction of contour lines from scanned topographic maps. , 2014, , .		5
95	Performance analysis of ABCMiner algorithm with different objective functions. , 2013, , .		4
96	Solving differential equations with artificial bee colony programming. Soft Computing, 2020, 24, 17991-18007.	2.1	4
97	A new emigrant creation strategy based on local best sources for parallel Artificial Bee Colony algorithm. , 2016, , .		3
98	Accelerating Discrete Haar Wavelet Transform on GPU cluster. , 2015, , .		2
99	Performance analysis of artificial bee colony algorithm on ARM based mobile platform. , 2017, , .		2
100	Extending the depth of field of imaging systems using depth sensing camera. Signal, Image and Video Processing, 0, , .	1.7	2
101	Evaluation of Performance of Adaptive and Hybrid ABC (aABC) Algorithm in Solution of Numerical Optimization Problems. , 2018, , .		1
102	Artificial Bee Colony Algorithm and Its Application to Content Filtering in Digital Communication. Springer Tracts in Nature-inspired Computing, 2021, , 337-355.	1.2	1
103	Accelerating search tree based brute force motif discovery technique on a processor cluster. , 2016, , .		0
104	Finding DNA Motifs with Collective Parallel Artificial Bee Colony Algorithm. , 2018, , .		0
105	Elevator Group Control by Using Talented Algorithm. Lecture Notes in Computer Science, 2006, , 203-210.	1.0	0
106	A New Emigrant Creation Strategy with Randomized Sources for Parallel Artificial Bee Colony Algorithm. , 2018, , 81-86.		0