

# Dervis Karaboga

## List of Publications by Citations

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103  
papers

17,105  
citations

39  
h-index

107  
g-index

107  
ext. papers

19,866  
ext. citations

4.1  
avg. IF

7.53  
L-index

#	Paper	IF	Citations
103	A powerful and efficient algorithm for numerical function optimization: artificial bee colony (ABC) algorithm. <i>Journal of Global Optimization</i> , <b>2007</b> , 39, 459-471	1.5	4454
102	On the performance of artificial bee colony (ABC) algorithm. <i>Applied Soft Computing Journal</i> , <b>2008</b> , 8, 687-697	7.5	2403
101	A comparative study of Artificial Bee Colony algorithm. <i>Applied Mathematics and Computation</i> , <b>2009</b> , 214, 108-132	2.7	2134
100	A comprehensive survey: artificial bee colony (ABC) algorithm and applications. <i>Artificial Intelligence Review</i> , <b>2014</b> , 42, 21-57	9.7	1045
99	A novel clustering approach: Artificial Bee Colony (ABC) algorithm. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 652-657	7.5	745
98	A modified Artificial Bee Colony algorithm for real-parameter optimization. <i>Information Sciences</i> , <b>2012</b> , 192, 120-142	7.7	722
97	Artificial Bee Colony (ABC) Optimization Algorithm for Solving Constrained Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 789-798	0.9	478
96	A survey: algorithms simulating bee swarm intelligence. <i>Artificial Intelligence Review</i> , <b>2009</b> , 31, 61-85	9.7	414
95	A modified Artificial Bee Colony (ABC) algorithm for constrained optimization problems. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 3021-3031	7.5	408
94	Artificial bee colony algorithm for large-scale problems and engineering design optimization. <i>Journal of Intelligent Manufacturing</i> , <b>2012</b> , 23, 1001-1014	6.7	331
93	Artificial bee colony algorithm. <i>Scholarpedia Journal</i> , <b>2010</b> , 5, 6915	1.5	260
92	Artificial Bee Colony (ABC) Optimization Algorithm for Training Feed-Forward Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 318-329	0.9	243
91	A quick artificial bee colony (qABC) algorithm and its performance on optimization problems. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 23, 227-238	7.5	213
90	Cluster based wireless sensor network routing using artificial bee colony algorithm. <i>Wireless Networks</i> , <b>2012</b> , 18, 847-860	2.5	203
89	Adaptive network based fuzzy inference system (ANFIS) training approaches: a comprehensive survey. <i>Artificial Intelligence Review</i> , <b>2019</b> , 52, 2263-2293	9.7	166
88	On clarifying misconceptions when comparing variants of the Artificial Bee Colony Algorithm by offering a new implementation. <i>Information Sciences</i> , <b>2015</b> , 291, 115-127	7.7	164
87	Pareto front feature selection based on artificial bee colony optimization. <i>Information Sciences</i> , <b>2018</b> , 422, 462-479	7.7	162

86	Artificial bee colony programming for symbolic regression. <i>Information Sciences</i> , <b>2012</b> , 209, 1-15	7.7	122
85	Probabilistic dynamic deployment of wireless sensor networks by artificial bee colony algorithm. <i>Sensors</i> , <b>2011</b> , 11, 6056-65	3.8	121
84	Dynamic clustering with improved binary artificial bee colony algorithm. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 28, 69-80	7.5	114
83	A novel binary artificial bee colony algorithm based on genetic operators. <i>Information Sciences</i> , <b>2015</b> , 297, 154-170	7.7	108
82	Routing in Wireless Sensor Networks Using an Ant Colony Optimization (ACO) Router Chip. <i>Sensors</i> , <b>2009</b> , 9, 909-21	3.8	108
81	A binary ABC algorithm based on advanced similarity scheme for feature selection. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 36, 334-348	7.5	99
80	Designing digital IIR filters using ant colony optimisation algorithm. <i>Engineering Applications of Artificial Intelligence</i> , <b>2004</b> , 17, 301-309	7.2	94
79	A survey on the applications of artificial bee colony in signal, image, and video processing. <i>Signal, Image and Video Processing</i> , <b>2015</b> , 9, 967-990	1.6	93
78	An adaptive and hybrid artificial bee colony algorithm (aABC) for ANFIS training. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 49, 423-436	7.5	87
77	Artificial Bee Colony (ABC) Algorithm on Training Artificial Neural Networks <b>2007</b> ,		86
76	A combinatorial Artificial Bee Colony algorithm for traveling salesman problem <b>2011</b> ,		79
75	Parameter Tuning for the Artificial Bee Colony Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 608-619		76
74	Hybrid Artificial Bee Colony algorithm for neural network training <b>2011</b> ,		72
73	A comprehensive survey of traditional, merge-split and evolutionary approaches proposed for determination of cluster number. <i>Swarm and Evolutionary Computation</i> , <b>2017</b> , 32, 49-67	9.8	70
72	Neural computation of resonant frequency of electrically thin and thick rectangular microstrip antennas. <i>IET Microwaves Antennas and Propagation</i> , <b>1999</b> , 146, 155		65
71	The Artificial Bee Colony algorithm in layer optimization for the maximum fundamental frequency of symmetrical laminated composite plates. <i>Engineering Optimization</i> , <b>2014</b> , 46, 420-437	2	52
70	Training Elman and Jordan networks for system identification using genetic algorithms. <i>Advanced Engineering Informatics</i> , <b>1999</b> , 13, 107-117		48
69	Antenna array pattern nulling by controlling both amplitude and phase using modified touring ant colony optimization algorithm. <i>International Journal of Electronics</i> , <b>2004</b> , 91, 241-251	1.2	46

68	Routing in Wireless Sensor Networks Using Ant Colony Optimization <b>2006</b> ,		44
67	Touring Ant Colony Optimization Algorithm for Shaped-Beam Pattern Synthesis of Linear Antenna. <i>Electromagnetics</i> , <b>2006</b> , 26, 615-628	0.8	41
66	A comprehensive review of deep learning in colon cancer. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 126, 104003	7	40
65	Color Image Quantization: A Short Review and an Application with Artificial Bee Colony Algorithm. <i>Informatica</i> , <b>2014</b> , 25, 485-503	2.9	39
64	Self-generated fuzzy systems design using artificial bee colony optimization. <i>Information Sciences</i> , <b>2015</b> , 295, 145-159	7.7	37
63	Improved clustering criterion for image clustering with artificial bee colony algorithm. <i>Pattern Analysis and Applications</i> , <b>2015</b> , 18, 587-599	2.3	35
62	An application of Wireless Sensor Network routing based on Artificial Bee Colony Algorithm <b>2011</b> ,		32
61	A multi-objective artificial bee colony approach to feature selection using fuzzy mutual information <b>2015</b> ,		31
60	Artificial Bee Colony based image clustering method <b>2012</b> ,		30
59	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> , <b>1997</b> , 83, 99-108	1.2	29
58	Solving Traveling Salesman Problem by Using Combinatorial Artificial Bee Colony Algorithms. <i>International Journal on Artificial Intelligence Tools</i> , <b>2019</b> , 28, 1950004	0.9	28
57	Controlling spillway gates of dams by using fuzzy logic controller with optimum rule number. <i>Applied Soft Computing Journal</i> , <b>2008</b> , 8, 232-238	7.5	27
56	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> , <b>2011</b> , 5, 1155-1162	1.3	26
55	Cluster based wireless sensor network routings using Artificial Bee Colony Algorithm <b>2010</b> ,		26
54	Training recurrent neural networks by using parallel tabu search algorithm based on crossover operation. <i>Engineering Applications of Artificial Intelligence</i> , <b>2004</b> , 17, 529-542	7.2	26
53	Solving Integer Programming Problems by Using Artificial Bee Colony Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 355-364	0.9	23
52	Improved quick artificial bee colony (iqABC) algorithm for global optimization. <i>Soft Computing</i> , <b>2019</b> , 23, 13161-13182	3.5	23
51	Training ANFIS by Using an Adaptive and Hybrid Artificial Bee Colony Algorithm (aABC) for the Identification of Nonlinear Static Systems. <i>Arabian Journal for Science and Engineering</i> , <b>2019</b> , 44, 3531-3547	2.5	22

50	Extraction of brain tumors from MRI images with artificial bee colony based segmentation methodology <b>2013</b> ,		20
49	Fuzzy Logic Based Operation of Spillway Gates of Reservoirs during Floods. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2004</b> , 9, 544-549	1.8	19
48	A genetic Artificial Bee Colony algorithm for signal reconstruction based big data optimization. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 88, 106053	7.5	19
47	Artificial bee colony data miner (ABC-Miner) <b>2011</b> ,		18
46	A quick semantic artificial bee colony programming (qsABCP) for symbolic regression. <i>Information Sciences</i> , <b>2019</b> , 502, 346-362	7.7	17
45	Training ANFIS by using the artificial bee colony algorithm. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , <b>2017</b> , 25, 1669-1679	0.9	17
44	Modified multiple search cooperative foraging strategy for improved artificial bee colony optimization with robustness analysis. <i>Soft Computing</i> , <b>2018</b> , 22, 6371-6394	3.5	17
43	CoABCMiner: An Algorithm for Cooperative Rule Classification System Based on Artificial Bee Colony. <i>International Journal on Artificial Intelligence Tools</i> , <b>2016</b> , 25, 1550028	0.9	17
42	A new effective side length expression obtained using a modified tabu search algorithm for the resonant frequency of a triangular microstrip antenna. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>1998</b> , 8, 4-10	1.5	17
41	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> , <b>2004</b> , 18, 321-339	1.3	17
40	ProportionalIntegralDerivative Controller Design by Using Artificial Bee Colony, Harmony Search, and the Bees Algorithms. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2010</b> , 224, 869-883	1	16
39	A quick artificial bee colony -qABC- algorithm for optimization problems <b>2012</b> ,		15
38	Self-tuning fuzzy controller design using genetic optimisation and neural network modelling. <i>Advanced Engineering Informatics</i> , <b>1999</b> , 13, 119-130		15
37	Discovery of conserved regions in DNA sequences by Artificial Bee Colony (ABC) algorithm based methods. <i>Natural Computing</i> , <b>2019</b> , 18, 333-350	1.3	15
36	Training ANFIS using artificial bee colony algorithm <b>2013</b> ,		14
35	Artificial neural networks and fuzzy logic based control of spillway gates of dams. <i>Hydrological Processes</i> , <b>2004</b> , 18, 2485-2501	3.3	14
34	THE ARTIFICIAL BEE COLONY ALGORITHM IN TRAINING ARTIFICIAL NEURAL NETWORK FOR OIL SPILL DETECTION. <i>Neural Network World</i> , <b>2011</b> , 21, 473-492	2.9	14
33	A robust real-time deep learning based automatic polyp detection system. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 134, 104519	7	14

32	A discrete artificial bee colony algorithm for detecting transcription factor binding sites in DNA sequences. <i>Genetics and Molecular Research</i> , <b>2016</b> , 15,	1.2	14
31	Regression-Based Neuro-Fuzzy Network Trained by ABC Algorithm for High-Density Impulse Noise Elimination. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 28, 1084-1095	8.3	12
30	A survey on the Artificial Bee Colony algorithm variants for binary, integer and mixed integer programming problems. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 106, 107351	7.5	12
29	Training ANFIS using artificial bee colony algorithm for nonlinear dynamic systems identification <b>2014</b> ,		11
28	Evolutionary algorithm-based fuzzy PD control of spillway gates of dams. <i>Journal of the Franklin Institute</i> , <b>2007</b> , 344, 1039-1055	4	11
27	Wavelet packets optimization using Artificial Bee Colony algorithm <b>2011</b> ,		10
26	Genetic tracker with neural network for single and multiple target tracking. <i>Neurocomputing</i> , <b>2006</b> , 69, 2309-2319	5.4	10
25	Estimation of number of foreign visitors with ANFIS by using ABC algorithm. <i>Soft Computing</i> , <b>2020</b> , 24, 7579-7591	3.5	10
24	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> , <b>2021</b> , 141, 105031	7	9
23	A new emigrant creation strategy for parallel Artificial Bee Colony algorithm <b>2015</b> ,		7
22	Artificial bee colony algorithm for dynamic deployment of wireless sensor networks		7
21	A comprehensive survey on optimizing deep learning models by metaheuristics. <i>Artificial Intelligence Review</i> , 1	9.7	7
20	Mix Proportioning of Aggregates for Concrete by Three Different Approaches. <i>Journal of Materials in Civil Engineering</i> , <b>2012</b> , 24, 529-537	3	5
19	Tabu Search Tracker for Multiple Target Tracking. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2004</b> , 18, 1573-1589	1.3	5
18	A hybrid method to the reconstruction of contour lines from scanned topographic maps <b>2014</b> ,		4
17	Performance analysis of ABCMiner algorithm with different objective functions <b>2013</b> ,		4
16	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> , <b>1997</b> , 211, 157-167	1	4
15	A new artificial bee colony algorithm employing intelligent forager forwarding strategies. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 96, 106656	7.5	4

14	A comparative study on Differential Evolution based routing implementations for wireless sensor networks <b>2012</b> ,		3
13	Archive-based multi-criteria Artificial Bee Colony algorithm for whole test suite generation <b>2021</b> , 24, 806-817		3
12	A new emigrant creation strategy based on local best sources for parallel Artificial Bee Colony algorithm <b>2016</b> ,		2
11	A new method based on artificial bee colony programming for the regional standardized intensity-duration-frequency relationship. <i>Arabian Journal of Geosciences</i> , <b>2022</b> , 15, 1	1.8	2
10	PAPR reduction using artificial bee colony algorithm in OFDM systems		2
9	An Efficient Control Method for Elevator Group Control System. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 1042-1047	0.9	2
8	Solving differential equations with artificial bee colony programming. <i>Soft Computing</i> , <b>2020</b> , 24, 17991-18007	1.8	1
7	Performance analysis of artificial bee colony algorithm on ARM based mobile platform <b>2017</b> ,		1
6	Accelerating Discrete Haar Wavelet Transform on GPU cluster <b>2015</b> ,		1
5	Training recurrent neural networks by using parallel tabu search algorithm based on crossover operation. <i>Engineering Applications of Artificial Intelligence</i> , <b>2004</b> , 17, 529-529	7.2	1
4	A survey on the studies employing machine learning (ML) for enhancing artificial bee colony (ABC) optimization algorithm. <i>Cogent Engineering</i> , <b>2020</b> , 7, 1855741	1.5	1
3	A New Emigrant Creation Strategy with Randomized Sources for Parallel Artificial Bee Colony Algorithm <b>2018</b> , 81-86		
2	Elevator Group Control by Using Talented Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 203-210	0.9	
1	Artificial Bee Colony Algorithm and Its Application to Content Filtering in Digital Communication. <i>Springer Tracts in Nature-inspired Computing</i> , <b>2021</b> , 337-355	1.8	