

Mohammed A Awadallah

List of Publications by Year in descending order

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72
papers

2,837
citations

159525

30
h-index

189801

50
g-index

74
all docs

74
docs citations

74
times ranked

1685
citing authors

#	ARTICLE	IF	CITATIONS
1	Coronavirus herd immunity optimizer (CHIO). Neural Computing and Applications, 2021, 33, 5011-5042.	3.2	219
2	White Shark Optimizer: A novel bio-inspired meta-heuristic algorithm for global optimization problems. Knowledge-Based Systems, 2022, 243, 108457.	4.0	206
3	A comprehensive review: Krill Herd algorithm (KH) and its applications. Applied Soft Computing Journal, 2016, 49, 437-446.	4.1	158
4	An improved Dragonfly Algorithm for feature selection. Knowledge-Based Systems, 2020, 203, 106131.	4.0	131
5	Review on COVID-19 diagnosis models based on machine learning and deep learning approaches. Expert Systems, 2022, 39, e12759.	2.9	105
6	Island bat algorithm for optimization. Expert Systems With Applications, 2018, 107, 126-145.	4.4	100
7	Tournament-based harmony search algorithm for non-convex economic load dispatch problem. Applied Soft Computing Journal, 2016, 47, 449-459.	4.1	90
8	Novel selection schemes for harmony search. Applied Mathematics and Computation, 2012, 218, 6095-6117.	1.4	87
9	An Intensive and Comprehensive Overview of JAYA Algorithm, its Versions and Applications. Archives of Computational Methods in Engineering, 2022, 29, 763-792.	6.0	82
10	Bat-inspired algorithms with natural selection mechanisms for global optimization. Neurocomputing, 2018, 273, 448-465.	3.5	76
11	Natural selection methods for Grey Wolf Optimizer. Expert Systems With Applications, 2018, 113, 481-498.	4.4	73
12	Variants of the Flower Pollination Algorithm: A Review. Studies in Computational Intelligence, 2018, , 91-118.	0.7	72
13	Gene selection for microarray data classification based on Gray Wolf Optimizer enhanced with TRIZ-inspired operators. Knowledge-Based Systems, 2021, 223, 107034.	4.0	69
14	Hybridizing \hat{I}^2 -hill climbing with wavelet transform for denoising ECG signals. Information Sciences, 2018, 429, 229-246.	4.0	66
15	Binary Horse herd optimization algorithm with crossover operators for feature selection. Computers in Biology and Medicine, 2022, 141, 105152.	3.9	65
16	Economic load dispatch problems with valve-point loading using natural updated harmony search. Neural Computing and Applications, 2018, 29, 767-781.	3.2	64
17	Island-based harmony search for optimization problems. Expert Systems With Applications, 2015, 42, 2026-2035.	4.4	63
18	A novel gene selection method using modified MRMR and hybrid bat-inspired algorithm with \hat{I}^2 -hill climbing. Applied Intelligence, 2018, 48, 4429-4447.	3.3	62

#	ARTICLE	IF	CITATIONS
19	A hybrid artificial bee colony for a nurse rostering problem. Applied Soft Computing Journal, 2015, 35, 726-739.	4.1	60
20	University course timetabling using hybridized artificial bee colony with hill climbing optimizer. Journal of Computational Science, 2014, 5, 809-818.	1.5	52
21	Intrusion Detection System for IoT Based on Deep Learning and Modified Reptile Search Algorithm. Computational Intelligence and Neuroscience, 2022, 2022, 1-15.	1.1	50
22	Survival exploration strategies for Harris Hawks Optimizer. Expert Systems With Applications, 2021, 168, 114243.	4.4	45
23	Natural selection methods for artificial bee colony with new versions of onlooker bee. Soft Computing, 2019, 23, 6455-6494.	2.1	44
24	Island flower pollination algorithm for global optimization. Journal of Supercomputing, 2019, 75, 5280-5323.	2.4	43
25	A non-convex economic load dispatch problem with valve loading effect using a hybrid grey wolf optimizer. Neural Computing and Applications, 2020, 32, 12127-12154.	3.2	43
26	Adaptive η - hill climbing for optimization. Soft Computing, 2019, 23, 13489-13512.	2.1	39
27	Binary JAYA Algorithm with Adaptive Mutation for Feature Selection. Arabian Journal for Science and Engineering, 2020, 45, 10875-10890.	1.7	39
28	A Non-convex Economic Dispatch Problem with Valve Loading Effect Using a New Modified η -Hill Climbing Local Search Algorithm. Arabian Journal for Science and Engineering, 2018, 43, 7439-7456.	1.7	38
29	An enhanced binary Rat Swarm Optimizer based on local-best concepts of PSO and collaborative crossover operators for feature selection. Computers in Biology and Medicine, 2022, 147, 105675.	3.9	38
30	An analysis of selection methods in memory consideration for harmony search. Applied Mathematics and Computation, 2013, 219, 10753-10767.	1.4	35
31	A krill herd algorithm for efficient text documents clustering. , 2016, , .		33
32	Hybridization of harmony search with hill climbing for highly constrained nurse rostering problem. Neural Computing and Applications, 2017, 28, 463-482.	3.2	32
33	Gray image enhancement using harmony search. International Journal of Computational Intelligence Systems, 2016, 9, 932.	1.6	27
34	Island artificial bee colony for global optimization. Soft Computing, 2020, 24, 13461-13487.	2.1	27
35	A Non-convex Economic Load Dispatch Using Hybrid Salp Swarm Algorithm. Arabian Journal for Science and Engineering, 2021, 46, 8721-8740.	1.7	26
36	A Hybrid Nature-Inspired Artificial Bee Colony Algorithm for Uncapacitated Examination Timetabling Problems. Journal of Intelligent Systems, 2015, 24, 37-54.	1.2	24

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37	Cellular Harmony Search for Optimization Problems. Journal of Applied Mathematics, 2013, 2013, 1-20.	0.4	23
38	Binary β -hill climbing optimizer with S-shape transfer function for feature selection. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 7637-7665.	3.3	20
39	Harmony Search-based Hyper-heuristic for examination timetabling. , 2013, , .		18
40	β -Hill Climbing Algorithm for Sudoku Game. , 2017, , .		18
41	Multiple-Reservoir Scheduling Using β -Hill Climbing Algorithm. Journal of Intelligent Systems, 2019, 28, 559-570.	1.2	18
42	Flow shop scheduling with blocking using modified harmony search algorithm with neighboring heuristics methods. Applied Soft Computing Journal, 2019, 85, 105861.	4.1	17
43	An Improved Artificial Bee Colony for Course Timetabling. , 2011, , .		15
44	ISA: a hybridization between iterated local search and simulated annealing for multiple-runway aircraft landing problem. Neural Computing and Applications, 2020, 32, 11745-11765.	3.2	15
45	Harmony Search Algorithm for Patient Admission Scheduling Problem. Journal of Intelligent Systems, 2019, 29, 540-553.	1.2	14
46	Nurse Scheduling Using Harmony Search. , 2011, , .		13
47	EEG Channel Selection Using Multiobjective Cuckoo Search for Person Identification as Protection System in Healthcare Applications. Computational Intelligence and Neuroscience, 2022, 2022, 1-18.	1.1	13
48	Economic load dispatch using memetic sine cosine algorithm. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 11685-11713.	3.3	13
49	CCSA: Cellular Crow Search Algorithm with topological neighborhood shapes for optimization. Expert Systems With Applications, 2022, 194, 116431.	4.4	12
50	HARMONY SEARCH WITH NOVEL SELECTION METHODS IN MEMORY CONSIDERATION FOR NURSE ROSTERING PROBLEM. Asia-Pacific Journal of Operational Research, 2014, 31, 1450014.	0.9	11
51	A Modified Coronavirus Herd Immunity Optimizer for the Power Scheduling Problem. Mathematics, 2022, 10, 315.	1.1	10
52	Global best Harmony Search with a new pitch adjustment designed for Nurse Rostering. Journal of King Saud University - Computer and Information Sciences, 2013, 25, 145-162.	2.7	9
53	A modified coronavirus herd immunity optimizer for capacitated vehicle routing problem. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 4782-4795.	2.7	9
54	Island neighboring heuristics harmony search algorithm for flow shop scheduling with blocking. Swarm and Evolutionary Computation, 2022, 74, 101127.	4.5	9

#	ARTICLE	IF	CITATIONS
55	Artificial Bee Colony Algorithm for Solving Educational Timetabling Problems. International Journal of Natural Computing Research, 2012, 3, 1-21.	0.5	8
56	A hybrid flower pollination with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si60.svg" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -hill climbing algorithm for global optimization. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 4821-4835.	2.7	8
57	Office-Space-Allocation Problem Using Harmony Search Algorithm. Lecture Notes in Computer Science, 2012, , 365-374.	1.0	8
58	Harmony Search with Greedy Shuffle for Nurse Rostering. International Journal of Natural Computing Research, 2012, 3, 22-42.	0.5	8
59	Hyper-heuristic approach for solving nurse rostering problem. , 2014, , .		6
60	A Modified Artificial Bee Colony Algorithm for Post-enrolment Course Timetabling. Lecture Notes in Computer Science, 2013, , 377-386.	1.0	5
61	MAX-SAT Problem using Hybrid Harmony Search Algorithm. Journal of Intelligent Systems, 2018, 27, 643-658.	1.2	5
62	Hybrid Harmony Search for Nurse Rostering Problems. , 2013, , .		4
63	Analysis of takeover time and convergence rate for harmony search with novel selection methods. International Journal of Mathematical Modelling and Numerical Optimisation, 2013, 4, 305.	0.1	4
64	Solving Nurse Rostering Problem Using Artificial Bee Colony Algorithm. , 2015, , .		3
65	Development on Harmony Search Hyper-heuristic Framework for Examination Timetabling Problem. Lecture Notes in Computer Science, 2014, , 87-95.	1.0	2
66	A Coronavirus Herd Immunity Optimization (CHIO) for Travelling Salesman Problem. Advances in Intelligent Systems and Computing, 2022, , 717-729.	0.5	2
67	Incorporating Great Deluge with Harmony Search for Global Optimization Problems. Advances in Intelligent Systems and Computing, 2013, , 275-286.	0.5	1
68	Island-based Modified Harmony Search Algorithm with Neighboring Heuristics Methods for Flow Shop Scheduling with Blocking. , 2020, , .		1
69	cJAYA: Cellular JAYA Algorithm. , 2020, , .		1
70	Solving 0-1 Knapsack Problems Using Sine-Cosine Algorithm. , 2021, , .		1
71	EEG Feature Fusion for Person Identification Using Efficient Machine Learning Approach. , 2021, , .		1
72	Solving Truss Structures Problem by Size Optimizing using Red Deer Algorithm. , 2021, , .		1