

Mohammed Azmi Al-Betar

List of Publications by Citations

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155
papers

3,354
citations

30
h-index

49
g-index

165
ext. papers

4,632
ext. citations

3.6
avg, IF

6.33
L-index

#	Paper	IF	Citations
155	Grey wolf optimizer: a review of recent variants and applications. <i>Neural Computing and Applications</i> , 2018 , 30, 413-435	4.8	287
154	A survey on applications and variants of the cuckoo search algorithm. <i>Applied Soft Computing Journal</i> , 2017 , 61, 1041-1059	7.5	151
153	Text feature selection with a robust weight scheme and dynamic dimension reduction to text document clustering. <i>Expert Systems With Applications</i> , 2017 , 84, 24-36	7.8	136
152	A comprehensive review: Krill Herd algorithm (KH) and its applications. <i>Applied Soft Computing Journal</i> , 2016 , 49, 437-446	7.5	100
151	A harmony search algorithm for university course timetabling. <i>Annals of Operations Research</i> , 2012 , 194, 3-31	3.2	88
150	Novel selection schemes for harmony search. <i>Applied Mathematics and Computation</i> , 2012 , 218, 6095-6117	7.7	70
149	Island bat algorithm for optimization. <i>Expert Systems With Applications</i> , 2018 , 107, 126-145	7.8	69
148	. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012 , 42, 664-681		67
147	Tournament-based harmony search algorithm for non-convex economic load dispatch problem. <i>Applied Soft Computing Journal</i> , 2016 , 47, 449-459	7.5	66
146	(beta)-Hill climbing: an exploratory local search. <i>Neural Computing and Applications</i> , 2017 , 28, 153-168	4.8	64
145	Coronavirus herd immunity optimizer (CHIO). <i>Neural Computing and Applications</i> , 2020 , 33, 1-32	4.8	62
144	An improved Dragonfly Algorithm for feature selection. <i>Knowledge-Based Systems</i> , 2020 , 203, 106131	7.3	58
143	Bat-inspired algorithms with natural selection mechanisms for global optimization. <i>Neurocomputing</i> , 2018 , 273, 448-465	5.4	58
142	Hybridizing Hill climbing with wavelet transform for denoising ECG signals. <i>Information Sciences</i> , 2018 , 429, 229-246	7.7	56
141	Natural selection methods for Grey Wolf Optimizer. <i>Expert Systems With Applications</i> , 2018 , 113, 481-498	7.8	55
140	Optimization methods for power scheduling problems in smart home: Survey. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 115, 109362	16.2	50
139	Gene selection for cancer classification by combining minimum redundancy maximum relevancy and bat-inspired algorithm. <i>International Journal of Data Mining and Bioinformatics</i> , 2017 , 19, 32	0.5	50

138	Economic load dispatch problems with valve-point loading using natural updated harmony search. <i>Neural Computing and Applications</i> , 2018 , 29, 767-781	4.8	47
137	Island-based harmony search for optimization problems. <i>Expert Systems With Applications</i> , 2015 , 42, 2026-2035	4.6	46
136	A modified Intelligent Water Drops algorithm and its application to optimization problems. <i>Expert Systems With Applications</i> , 2014 , 41, 6555-6569	7.8	45
135	A hybrid artificial bee colony for a nurse rostering problem. <i>Applied Soft Computing Journal</i> , 2015 , 35, 726-739	7.5	44
134	Variants of the Flower Pollination Algorithm: A Review. <i>Studies in Computational Intelligence</i> , 2018 , 91-118	4.3	43
133	EEG Signals Denoising Using Optimal Wavelet Transform Hybridized With Efficient Metaheuristic Methods. <i>IEEE Access</i> , 2020 , 8, 10584-10605	3.5	41
132	A Harmony Search with Multi-pitch Adjusting Rate for the University Course Timetabling. <i>Studies in Computational Intelligence</i> , 2010 , 147-161	0.8	39
131	The monarch butterfly optimization algorithm for solving feature selection problems. <i>Neural Computing and Applications</i> , 2020 , 1	4.8	38
130	Natural selection methods for artificial bee colony with new versions of onlooker bee. <i>Soft Computing</i> , 2019 , 23, 6455-6494	3.5	33
129	University course timetabling using hybridized artificial bee colony with hill climbing optimizer. <i>Journal of Computational Science</i> , 2014 , 5, 809-818	3.4	33
128	A novel gene selection method using modified MRMR and hybrid bat-inspired algorithm with hill climbing. <i>Applied Intelligence</i> , 2018 , 48, 4429-4447	4.9	33
127	Memetic techniques for examination timetabling. <i>Annals of Operations Research</i> , 2014 , 218, 23-50	3.2	30
126	An analysis of selection methods in memory consideration for harmony search. <i>Applied Mathematics and Computation</i> , 2013 , 219, 10753-10767	2.7	30
125	A krill herd algorithm for efficient text documents clustering 2016 ,		30
124	Island flower pollination algorithm for global optimization. <i>Journal of Supercomputing</i> , 2019 , 75, 5280-5323	3.3	29
123	Link-based multi-verse optimizer for text documents clustering. <i>Applied Soft Computing Journal</i> , 2020 , 87, 106002	7.5	29
122	Unsupervised feature selection technique based on genetic algorithm for improving the Text Clustering 2016 ,		29
121	Hybridizing cuckoo search algorithm with hill climbing for numerical optimization problems 2017 ,		27

120	Intrusion detection system based on a modified binary grey wolf optimisation. <i>Neural Computing and Applications</i> , 2020 , 32, 6125-6137	4.8	27
119	A novel hybrid grey wolf optimizer with min-conflict algorithm for power scheduling problem in a smart home. <i>Swarm and Evolutionary Computation</i> , 2021 , 60, 100793	9.8	26
118	Hybridization of harmony search with hill climbing for highly constrained nurse rostering problem. <i>Neural Computing and Applications</i> , 2017 , 28, 463-482	4.8	25
117	Multi-objective power scheduling problem in smart homes using grey wolf optimiser. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 10, 3643-3667	3.7	25
116	A Non-convex Economic Dispatch Problem with Valve Loading Effect Using a New Modified (beta)-Hill Climbing Local Search Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 7439-7456	2.5	24
115	Multi-objectives-based text clustering technique using K-mean algorithm 2016 ,		24
114	A TRIZ-inspired bat algorithm for gene selection in cancer classification. <i>Genomics</i> , 2020 , 112, 114-126	4.3	24
113	Particle Swarm optimization Algorithm for Power Scheduling Problem Using Smart Battery 2019 ,		23
112	Selection mechanisms in memory consideration for examination timetabling with harmony search 2010 ,		23
111	Survival exploration strategies for Harris Hawks Optimizer. <i>Expert Systems With Applications</i> , 2021 , 168, 114243	7.8	23
110	Person identification using EEG channel selection with hybrid flower pollination algorithm. <i>Pattern Recognition</i> , 2020 , 105, 107393	7.7	22
109	Taming the 0/1 knapsack problem with monogamous pairs genetic algorithm. <i>Expert Systems With Applications</i> , 2016 , 54, 241-250	7.8	22
108	A Grey Wolf Optimizer for Text Document Clustering. <i>Journal of Intelligent Systems</i> , 2018 , 29, 814-830	1.5	22
107	A non-convex economic load dispatch problem with valve loading effect using a hybrid grey wolf optimizer. <i>Neural Computing and Applications</i> , 2020 , 32, 12127-12154	4.8	22
106	EEG Feature Extraction for Person Identification Using Wavelet Decomposition and Multi-Objective Flower Pollination Algorithm. <i>IEEE Access</i> , 2018 , 6, 76007-76024	3.5	22
105	Towards a more accessible e-government in Jordan: an evaluation study of visually impaired users and Web developers. <i>Behaviour and Information Technology</i> , 2013 , 32, 273-293	2.4	21
104	Feature Selection with Hill Climbing Search for Text Clustering Application 2017 ,		21
103	Adaptive (beta-)hill climbing for optimization. <i>Soft Computing</i> , 2019 , 23, 13489-13512	3.5	20

102	Review on COVID-19 diagnosis models based on machine learning and deep learning approaches. <i>Expert Systems</i> , 2021 , e12759	2.1	20
101	The design of RIA accessibility evaluation tool. <i>Advances in Engineering Software</i> , 2013 , 57, 1-7	3.6	19
100	A membrane-inspired bat algorithm to recognize faces in unconstrained scenarios. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 64, 242-260	7.2	19
99	Gray image enhancement using harmony search. <i>International Journal of Computational Intelligence Systems</i> , 2016 , 9, 932-944	3.4	19
98	Cellular Harmony Search for Optimization Problems. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-20	1.1	18
97	Data Clustering Using Harmony Search Algorithm. <i>Lecture Notes in Computer Science</i> , 2011 , 79-88	0.9	18
96	Unsupervised Text Feature Selection Technique Based on Particle Swarm Optimization Algorithm for Improving the Text Clustering 2017 ,		18
95	Smart Home Battery for the Multi-Objective Power Scheduling Problem in a Smart Home Using Grey Wolf Optimizer. <i>Electronics (Switzerland)</i> , 2021 , 10, 447	2.6	18
94	EEG-based Person Authentication Using Multi-objective Flower Pollination Algorithm 2018 ,		18
93	Island artificial bee colony for global optimization. <i>Soft Computing</i> , 2020 , 24, 13461-13487	3.5	17
92	A Hybrid Nature-Inspired Artificial Bee Colony Algorithm for Uncapacitated Examination Timetabling Problems. <i>Journal of Intelligent Systems</i> , 2015 , 24, 37-54	1.5	17
91	Gene selection for microarray data classification based on Gray Wolf Optimizer enhanced with TRIZ-inspired operators. <i>Knowledge-Based Systems</i> , 2021 , 223, 107034	7.3	17
90	A novel hybrid multi-verse optimizer with K-means for text documents clustering. <i>Neural Computing and Applications</i> , 2020 , 32, 17703-17729	4.8	16
89	A hybrid harmony search algorithm for ab initio protein tertiary structure prediction. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2012 , 1, 69-85	1.6	16
88	An Efficient Optimization Technique of EEG Decomposition for User Authentication System 2018 ,		16
87	White Shark Optimizer: A novel bio-inspired meta-heuristic algorithm for global optimization problems. <i>Knowledge-Based Systems</i> , 2022 , 243, 108457	7.3	16
86	Classification of EEG mental tasks using Multi-Objective Flower Pollination Algorithm for Person Identification. <i>International Journal of Integrated Engineering</i> , 2018 , 10,	1.5	15
85	Nurse Rostering Using Modified Harmony Search Algorithm. <i>Lecture Notes in Computer Science</i> , 2011 , 27-37	0.9	15

84	An Intensive and Comprehensive Overview of JAYA Algorithm, its Versions and Applications. <i>Archives of Computational Methods in Engineering</i> , 2021 , 1-30	7.8	15
83	A Text Feature Selection Technique based on Binary Multi-Verse Optimizer for Text Clustering 2019 ,		14
82	New Selection Schemes for Particle Swarm Optimization. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2016 , 136, 1706-1711	0.1	14
81	The effects of EEG feature extraction using multi-wavelet decomposition for mental tasks classification 2019 ,		13
80	(beta)-Hill climbing algorithm with probabilistic neural network for classification problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 3405-3416	3.7	13
79	An ensemble of intelligent water drop algorithm for feature selection optimization problem. <i>Applied Soft Computing Journal</i> , 2018 , 65, 531-541	7.5	12
78	Harmony Search-based Hyper-heuristic for examination timetabling 2013 ,		12
77	ϵHill Climbing Algorithm for Sudoku Game 2017 ,		12
76	Healthcare scheduling in optimization context: a review. <i>Health and Technology</i> , 2021 , 11, 1-25	2.1	12
75	Multiple-Reservoir Scheduling Using ϵHill Climbing Algorithm. <i>Journal of Intelligent Systems</i> , 2019 , 28, 559-570	1.5	12
74	A Hybrid Filter-Wrapper Gene Selection Method for Cancer Classification 2018 ,		12
73	An ensemble of intelligent water drop algorithms and its application to optimization problems. <i>Information Sciences</i> , 2015 , 325, 175-189	7.7	11
72	Adaptive pair bonds in genetic algorithm: An application to real-parameter optimization. <i>Applied Mathematics and Computation</i> , 2015 , 252, 503-519	2.7	11
71	Nurse Scheduling Using Harmony Search 2011 ,		11
70	A survey of techniques for architecting SLC/MLC/TLC hybrid Flash memoryBased SSDs. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4420	1.4	10
69	Coronavirus herd immunity optimizer with greedy crossover for feature selection in medical diagnosis. <i>Knowledge-Based Systems</i> , 2022 , 235, 107629	7.3	10
68	An Improved Text Feature Selection for Clustering Using Binary Grey Wolf Optimizer. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 503-516	0.2	10
67	Binary JAYA Algorithm with Adaptive Mutation for Feature Selection. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 10875-10890	2.5	10

66	ECG signal denoising using Hill climbing algorithm and wavelet transform 2017 ,		9
65	HARMONY SEARCH WITH NOVEL SELECTION METHODS IN MEMORY CONSIDERATION FOR NURSE ROSTERING PROBLEM. <i>Asia-Pacific Journal of Operational Research</i> , 2014 , 31, 1450014	0.8	9
64	An Improved Artificial Bee Colony for Course Timetabling 2011 ,		9
63	Intelligent Water Drops Algorithm for Rough Set Feature Selection. <i>Lecture Notes in Computer Science</i> , 2013 , 356-365	0.9	9
62	Global best Harmony Search with a new pitch adjustment designed for Nurse Rostering. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2013 , 25, 145-162	2.5	8
61	A Non-convex Economic Load Dispatch Using Hybrid Salp Swarm Algorithm. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 8721-8740	2.5	8
60	Unsupervised feature selection technique based on harmony search algorithm for improving the text clustering 2016 ,		8
59	An Optimal Power Scheduling for Smart Home Appliances with Smart Battery using Grey Wolf Optimizer 2018 ,		8
58	Harmony Search Algorithm for Patient Admission Scheduling Problem. <i>Journal of Intelligent Systems</i> , 2018 , 29, 540-553	1.5	7
57	Recognizing faces prone to occlusions and common variations using optimal face subgraphs. <i>Applied Mathematics and Computation</i> , 2016 , 283, 316-332	2.7	7
56	Harmony Search with Greedy Shuffle for Nurse Rostering. <i>International Journal of Natural Computing Research</i> , 2012 , 3, 22-42	0.6	7
55	Office-Space-Allocation Problem Using Harmony Search Algorithm. <i>Lecture Notes in Computer Science</i> , 2012 , 365-374	0.9	7
54	Binary (beta)-hill climbing optimizer with S-shape transfer function for feature selection. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 7637-7665	3.7	7
53	Mobile game approach to prevent childhood obesity using persuasive technology 2014 ,		6
52	Artificial Bee Colony Algorithm for Solving Educational Timetabling Problems. <i>International Journal of Natural Computing Research</i> , 2012 , 3, 1-21	0.6	6
51	Adaptive genetic algorithm using harmony search 2010 ,		6
50	3-SAT Using Island-based Genetic Algorithm. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2016 , 136, 1694-1698	0.1	6
49	Coronavirus herd immunity optimizer (CHIO)		6

48	ISA: a hybridization between iterated local search and simulated annealing for multiple-runway aircraft landing problem. <i>Neural Computing and Applications</i> , 2020 , 32, 11745-11765	4.8	6
47	A Dragonfly Algorithm for Solving Traveling Salesman Problem 2018 ,		6
46	Improved sine cosine algorithm with simulated annealing and singer chaotic map for Hadith classification. <i>Neural Computing and Applications</i> ,1	4.8	6
45	Monogamous pair bonding in genetic algorithm 2015 ,		5
44	EEG Channel Selection Using Multiobjective Cuckoo Search for Person Identification as Protection System in Healthcare Applications.. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 5974634	3	5
43	An Enhanced Grey Wolf Optimizer with a Velocity-Aided Global Search Mechanism. <i>Mathematics</i> , 2022 , 10, 351	2.3	5
42	Binary Horse herd optimization algorithm with crossover operators for feature selection.. <i>Computers in Biology and Medicine</i> , 2021 , 141, 105152	7	5
41	Hybridizing Harmony Search Algorithm with Multi-Parent Crossover to Solve Real World Optimization Problems. <i>International Journal of Applied Metaheuristic Computing</i> , 2013 , 4, 1-14	0.8	5
40	An ensemble topic extraction approach based on optimization clusters using hybrid multi-verse optimizer for scientific publications. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 2765-2801	3.7	5
39	Salp swarm optimizer for modeling the software fault prediction problem. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2021 ,	2.5	5
38	Flow shop scheduling with blocking using modified harmony search algorithm with neighboring heuristics methods. <i>Applied Soft Computing Journal</i> , 2019 , 85, 105861	7.5	4
37	Hyper-heuristic approach for solving nurse rostering problem 2014 ,		4
36	Multiple adaptive neuro-fuzzy inference system with automatic features extraction algorithm for cervical cancer recognition. <i>Computational and Mathematical Methods in Medicine</i> , 2014 , 2014, 181245	2.8	4
35	Edge preserving image enhancement via harmony search algorithm 2012 ,		4
34	EEG Signal Denoising Using Hybridizing Method Between Wavelet Transform with Genetic Algorithm. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 449-469	0.2	4
33	A Min-conflict Algorithm for Power Scheduling Problem in a Smart Home Using Battery. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 489-501	0.2	4
32	A Survey on Accessible Context-Aware Systems. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020 , 29-63	0.6	4
31	A novel ensemble statistical topic extraction method for scientific publications based on optimization clustering. <i>Multimedia Tools and Applications</i> , 2021 , 80, 37-82	2.5	4

30	Intrusion Detection System for IoT Based on Deep Learning and Modified Reptile Search Algorithm. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 1-15	3	4
29	NADTW: new approach for detecting TCP worm. <i>Neural Computing and Applications</i> , 2017 , 28, 525-538	4.8	3
28	MAX-SAT Problem using Hybrid Harmony Search Algorithm. <i>Journal of Intelligent Systems</i> , 2018 , 27, 643-658	3	3
27	Hybrid Harmony Search for Nurse Rostering Problems 2013 ,		3
26	Analysis of takeover time and convergence rate for harmony search with novel selection methods. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2013 , 4, 305	0.3	3
25	A multiswap algorithm for the university course timetabling problem 2012 ,		3
24	Solving Nurse Rostering Problem Using Artificial Bee Colony Algorithm 2015 ,		3
23	Island-Based Harmony Search Algorithm for Non-convex Economic Load Dispatch Problems. <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 1985-2015	1.4	3
22	A hybrid flower pollination with hill climbing algorithm for global optimization. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2021 ,	2.5	3
21	A (beta)-hill climbing optimizer for examination timetabling problem. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 653-666	3.7	3
20	Optimized symmetric partial facegraphs for face recognition in adverse conditions. <i>Information Sciences</i> , 2018 , 429, 194-214	7.7	3
19	A Modified Artificial Bee Colony Algorithm for Post-enrolment Course Timetabling. <i>Lecture Notes in Computer Science</i> , 2013 , 377-386	0.9	2
18	2013 ,		2
17	Performance and reliability concern scheme for efficient garbage collection and wear leveling on flash memory-based solid state disk. <i>Microsystem Technologies</i> , 2017 , 23, 2521-2535	1.7	2
16	Development on Harmony Search Hyper-heuristic Framework for Examination Timetabling Problem. <i>Lecture Notes in Computer Science</i> , 2014 , 87-95	0.9	2
15	EEG Channel Selection for Person Identification Using Binary Grey Wolf Optimizer. <i>IEEE Access</i> , 2022 , 10, 10500-10513	3.5	2
14	A modified coronavirus herd immunity optimizer for capacitated vehicle routing problem. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2021 ,	2.5	2
13	Salp Swarm Optimizer for Modeling Software Reliability Prediction Problems. <i>Neural Processing Letters</i> , 2021 , 53, 4451	2.4	2

12	Hybrid multi-verse optimizer with grey wolf optimizer for power scheduling problem in smart home using IoT. <i>Journal of Supercomputing</i> ,1	2.5	2
11	Incorporating Great Deluge with Harmony Search for Global Optimization Problems. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 275-286	0.4	1
10	Wind Driven Optimization With Smart Home Battery for Power Scheduling Problem in Smart Home		1
9	CCSA: Cellular Crow Search Algorithm with topological neighborhood shapes for optimization. <i>Expert Systems With Applications</i> , 2022 , 194, 116431	7.8	1
8	Economic load dispatch using memetic sine cosine algorithm.. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2022 , 1-29	3.7	1
7	A Hybrid Salp Swarm Algorithm with (beta)-Hill Climbing Algorithm for Text Documents Clustering. <i>Algorithms for Intelligent Systems</i> , 2021 , 129-161	0.5	1
6	An enhanced binary Rat Swarm Optimizer based on local-best concepts of PSO and collaborative crossover operators for feature selection. <i>Computers in Biology and Medicine</i> , 2022 , 105675	7	1
5	Solving University Examination Timetabling Problem Using Intelligent Water Drops Algorithm. <i>Lecture Notes in Computer Science</i> , 2015 , 187-200	0.9	0
4	Multi-objective flower pollination algorithm: a new technique for EEG signal denoising. <i>Neural Computing and Applications</i> ,1	4.8	0
3	A Modified Coronavirus Herd Immunity Optimizer for the Power Scheduling Problem. <i>Mathematics</i> , 2022 , 10, 315	2.3	0
2	Discrete flower pollination algorithm for patient admission scheduling problem. <i>Computers in Biology and Medicine</i> , 2021 , 105007	7	0
1	A Coronavirus Herd Immunity Optimization (CHIO) for Travelling Salesman Problem. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 717-729	0.4	0