

Iyad Abu Doush

List of Publications by Year in descending order

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77
papers

1,455
citations

394421
19
h-index

361022
35
g-index

79
all docs

79
docs citations

79
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of different stopping criteria on multi-objective optimization algorithms. Neural Computing and Applications, 2023, 35, 1125-1155.	5.6	6
2	Access and Experiences of Arabic Native Speakers With Disabilities on Social Media During and After the World Pandemic. International Journal of Human-Computer Interaction, 2023, 39, 923-948.	4.8	3
3	An Intensive and Comprehensive Overview of JAYA Algorithm, its Versions and Applications. Archives of Computational Methods in Engineering, 2022, 29, 763-792.	10.2	82
4	A hybrid flower pollination with $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{altimg="si60.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -hill climbing algorithm for global optimization. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 4821-4835.	3.9	8
5	Review on $\langle \text{scp} \rangle$ COVID $\langle \text{scpi} \rangle$ diagnosis models based on machine learning and deep learning approaches. Expert Systems, 2022, 39, e12759.	4.5	105
6	A Modified Coronavirus Herd Immunity Optimizer for the Power Scheduling Problem. Mathematics, 2022, 10, 315.	2.2	10
7	CCSA: Cellular Crow Search Algorithm with topological neighborhood shapes for optimization. Expert Systems With Applications, 2022, 194, 116431.	7.6	12
8	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.	7.0	38
9	Island neighboring heuristics harmony search algorithm for flow shop scheduling with blocking. Swarm and Evolutionary Computation, 2022, 74, 101127.	8.1	9
10	Coronavirus herd immunity optimizer (CHIO). Neural Computing and Applications, 2021, 33, 5011-5042.	5.6	219
11	Binary $\langle \text{seta} \rangle$ -hill climbing optimizer with S-shape transfer function for feature selection. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 7637-7665.	4.9	20
12	Gene selection for microarray data classification based on Gray Wolf Optimizer enhanced with TRIZ-inspired operators. Knowledge-Based Systems, 2021, 223, 107034.	7.1	69
13	Wind Driven Optimization With Smart Home Battery for Power Scheduling Problem in Smart Home. , 2021, , .		2
14	EEG Feature Fusion for Person Identification Using Efficient Machine Learning Approach. , 2021, , .		1
15	A Survey on Accessible Context-Aware Systems. EAI/Springer Innovations in Communication and Computing, 2020, , 29-63.	1.1	6
16	A survey for recent applications and variants of nature-inspired immune search algorithm. International Journal of Computer Applications in Technology, 2020, 63, 354.	0.5	6
17	Community detection in complex networks using multi-objective bat algorithm. International Journal of Mathematical Modelling and Numerical Optimisation, 2020, 10, 123.	0.2	1
18	Evaluating Usability and Content Accessibility for e-Learning Websites in the Middle East. International Journal of Technology and Human Interaction, 2020, 16, 54-62.	0.4	8

#	ARTICLE	IF	CITATIONS
19	An improved Dragonfly Algorithm for feature selection. Knowledge-Based Systems, 2020, 203, 106131.	7.1	131
20	Island artificial bee colony for global optimization. Soft Computing, 2020, 24, 13461-13487.	3.6	27
21	A Sensitivity Analysis for Harmony Search with Multi-Parent Crossover Algorithm. Advances in Intelligent Systems and Computing, 2020, , 276-284.	0.6	1
22	Best Polynomial Harmony Search with Best \hat{I}^2 -Hill Climbing Algorithm. Journal of Intelligent Systems, 2020, 30, 1-17.	1.6	6
23	Island-based Modified Harmony Search Algorithm with Neighboring Heuristics Methods for Flow Shop Scheduling with Blocking. , 2020, , .		1
24	cJAYA: Cellular JAYA Algorithm. , 2020, , .		1
25	A survey for recent applications and variants of nature-inspired immune search algorithm. International Journal of Computer Applications in Technology, 2020, 63, 354.	0.5	0
26	Harmony Search Algorithm for Patient Admission Scheduling Problem. Journal of Intelligent Systems, 2019, 29, 540-553.	1.6	14
27	The Hybrid Framework for Multi-objective Evolutionary Optimization Based on Harmony Search Algorithm. Advances in Intelligent Systems and Computing, 2019, , 134-142.	0.6	7
28	On Different Stopping Criteria for Multi-objective Harmony Search Algorithms. , 2019, , .		2
29	Flow shop scheduling with blocking using modified harmony search algorithm with neighboring heuristics methods. Applied Soft Computing Journal, 2019, 85, 105861.	7.2	17
30	Island flower pollination algorithm for global optimization. Journal of Supercomputing, 2019, 75, 5280-5323.	3.6	43
31	Multiple-Reservoir Scheduling Using \hat{I}^2 -Hill Climbing Algorithm. Journal of Intelligent Systems, 2019, 28, 559-570.	1.6	18
32	A novel Arabic OCR post-processing using rule-based and word context techniques. International Journal on Document Analysis and Recognition, 2018, 21, 77-89.	3.4	15
33	A Non-convex Economic Dispatch Problem with Valve Loading Effect Using a New Modified η \hat{I}^2 -Hill Climbing Local Search Algorithm. Arabian Journal for Science and Engineering, 2018, 43, 7439-7456.	3.0	38
34	Incorporation of ISO 25010 with machine learning to develop a novel quality in use prediction system (QiUPS). International Journal of Systems Assurance Engineering and Management, 2018, 9, 344-353.	2.4	6
35	MAX-SAT Problem using Hybrid Harmony Search Algorithm. Journal of Intelligent Systems, 2018, 27, 643-658.	1.6	5
36	Yarmouk Arabic OCR Dataset. , 2018, , .		10

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37	Community detection using intelligent water drops optimisation algorithm. International Journal of Reasoning-based Intelligent Systems, 2017, 9, 52.	0.1	1
38	Can genetic algorithms help virus writers reshape their creations and avoid detection?. Journal of Experimental and Theoretical Artificial Intelligence, 2017, 29, 1297-1310.	2.8	3
39	Currency recognition using a smartphone: Comparison between color SIFT and gray scale SIFT algorithms. Journal of King Saud University - Computer and Information Sciences, 2017, 29, 484-492.	3.9	29
40	Arabic optical character recognition software: A review. Pattern Recognition and Image Analysis, 2017, 27, 763-776.	1.0	8
41	AraDaisy: a system for automatic generation of Arabic DAISY books. International Journal of Computer Applications in Technology, 2017, 55, 322.	0.5	4
42	Community detection using intelligent water drops optimisation algorithm. International Journal of Reasoning-based Intelligent Systems, 2017, 9, 52.	0.1	1
43	AraDaisy: a system for automatic generation of Arabic DAISY books. International Journal of Computer Applications in Technology, 2017, 55, 322.	0.5	0
44	What we have and what is needed, how to evaluate Arabic Speech Synthesizer?. International Journal of Speech Technology, 2016, 19, 415-432.	2.2	4
45	Improving post-processing optical character recognition documents with Arabic language using spelling error detection and correction. International Journal of Reasoning-based Intelligent Systems, 2016, 8, 91.	0.1	2
46	Non-visual navigation interface for completing tasks with a predefined order using mobile phone: a case study of pilgrimage. International Journal of Mobile Network Design and Innovation, 2015, 6, 1.	0.1	3
47	Underwater Image Enhancement Using Particle Swarm Optimization. Journal of Intelligent Systems, 2015, 24, 99-115.	1.6	22
48	Hybridized NSGA-II and MOEA/D with Harmony Search Algorithm to Solve Multi-objective Optimization Problems. Lecture Notes in Computer Science, 2015, , 606-614.	1.3	7
49	Semi-automatic generation of Arabic digital talking books. , 2014, , .		2
50	Hybridizing Harmony Search algorithm with different mutation operators for continuous problems. Applied Mathematics and Computation, 2014, 232, 1166-1182.	2.2	41
51	Memetic techniques for examination timetabling. Annals of Operations Research, 2014, 218, 23-50.	4.1	38
52	Utilizing Mobile Devices' Tactile Feedback for Presenting Braille Characters: An Optimized Approach for Fast Reading and Long Battery Life. Interacting With Computers, 2014, 26, 63-74.	1.5	13
53	Web Accessibility for Persons with Motor Limitations. Advances in Medical Technologies and Clinical Practice Book Series, 2014, , 234-262.	0.3	0
54	The design of RIA accessibility evaluation tool. Advances in Engineering Software, 2013, 57, 1-7.	3.8	31

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55	Non-visual navigation of spreadsheets. Universal Access in the Information Society, 2013, 12, 143-159.	3.0	14
56	Towards a more accessible e-government in Jordan: an evaluation study of visually impaired users and Web developers. Behaviour and Information Technology, 2013, 32, 273-293.	4.0	27
57	An analysis of selection methods in memory consideration for harmony search. Applied Mathematics and Computation, 2013, 219, 10753-10767.	2.2	35
58	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.	0.2	4
59	Detecting Distributed Predicates Using Genetic Algorithms. International Journal of Intelligent Information Technologies, 2013, 9, 56-70.	0.8	4
60	Automatic Semantic Generation and Arabic Translation of Mathematical Expressions on the Web. International Journal of Web-Based Learning and Teaching Technologies, 2013, 8, 1-16.	0.9	1
61	Hybridizing Harmony Search Algorithm with Multi-Parent Crossover to Solve Real World Optimization Problems. International Journal of Applied Metaheuristic Computing, 2013, 4, 1-14.	0.7	6
62	Novel selection schemes for harmony search. Applied Mathematics and Computation, 2012, 218, 6095-6117.	2.2	87
63	Harmony Search with Multi-Parent Crossover for Solving IEEE-CEC2011 Competition Problems. Lecture Notes in Computer Science, 2012, , 108-114.	1.3	7
64	Reading Braille on mobile phones: A fast method with low battery power consumption. , 2011, , .		10
65	A tool for monitoring and tracing multi-agent applications. , 2011, , .		0
66	Searching and Generating Authoring Information. International Journal of Information Technology and Web Engineering, 2011, 6, 1-14.	1.6	2
67	Extracting authoring information based on keywords and semantic search. , 2010, , .		4
68	Detecting and recognizing tables in spreadsheets. , 2010, , .		13
69	Multimodal Presentation of Two-Dimensional Charts. ACM Transactions on Accessible Computing, 2010, 3, 1-50.	2.4	19
70	Non-visual Navigation of Spreadsheet Tables. Lecture Notes in Computer Science, 2010, , 108-115.	1.3	2
71	Integrating Semantic Web and Folksonomies to Improve E-Learning Accessibility. Lecture Notes in Computer Science, 2010, , 376-383.	1.3	3
72	Towards meaningful mathematical expressions in e-learning. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
73	Making Microsoft Excelâ„¢. , 2009, , .		19
74	Building a Programmable Architecture for Non-visual Navigation of Mathematics: Using Rules for Guiding Presentation and Switching between Modalities. Lecture Notes in Computer Science, 2009, , 3-13.	1.3	4
75	Integrating Collaborative Program Development and Debugging within a Virtual Environment. Lecture Notes in Computer Science, 2008, , 107-120.	1.3	6
76	ISAB: Integrated Indoor Navigation System for the Blind. Interacting With Computers, 0, , .	1.5	16
77	Web Accessibility for Persons with Motor Limitations. , 0, , 1496-1524.		0