

Iyad Abu Doush

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

1,455
citations

394286

19
h-index

360920

35
g-index

79
all docs

79
docs citations

79
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Coronavirus herd immunity optimizer (CHIO). Neural Computing and Applications, 2021, 33, 5011-5042.	3.2	219
2	An improved Dragonfly Algorithm for feature selection. Knowledge-Based Systems, 2020, 203, 106131.	4.0	131
3	Review on <sc>COVID</sc>â€“19 diagnosis models based on machine learning and deep learning approaches. Expert Systems, 2022, 39, e12759.	2.9	105
4	Novel selection schemes for harmony search. Applied Mathematics and Computation, 2012, 218, 6095-6117.	1.4	87
5	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
6	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
7	Island flower pollination algorithm for global optimization. Journal of Supercomputing, 2019, 75, 5280-5323.	2.4	43
8	Hybridizing Harmony Search algorithm with different mutation operators for continuous problems. Applied Mathematics and Computation, 2014, 232, 1166-1182.	1.4	41
9	Memetic techniques for examination timetabling. Annals of Operations Research, 2014, 218, 23-50.	2.6	38
10	A Non-convex Economic Dispatch Problem with Valve Loading Effect Using a New Modified η ² -Hill Climbing Local Search Algorithm. Arabian Journal for Science and Engineering, 2018, 43, 7439-7456.	1.7	38
11	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
12	An analysis of selection methods in memory consideration for harmony search. Applied Mathematics and Computation, 2013, 219, 10753-10767.	1.4	35
13	The design of RIA accessibility evaluation tool. Advances in Engineering Software, 2013, 57, 1-7.	1.8	31
14	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.	2.7	29
15	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.	2.5	27
16	Island artificial bee colony for global optimization. Soft Computing, 2020, 24, 13461-13487.	2.1	27
17	Underwater Image Enhancement Using Particle Swarm Optimization. Journal of Intelligent Systems, 2015, 24, 99-115.	1.2	22
18	Binary η -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

#	ARTICLE	IF	CITATIONS
19	Making Microsoft Excelâ„¢. , 2009, , .		19
20	Multimodal Presentation of Two-Dimensional Charts. ACM Transactions on Accessible Computing, 2010, 3, 1-50.	1.9	19
21	Multiple-Reservoir Scheduling Using \hat{I}^2 -Hill Climbing Algorithm. Journal of Intelligent Systems, 2019, 28, 559-570.	1.2	18
22	Flow shop scheduling with blocking using modified harmony search algorithm with neighboring heuristics methods. Applied Soft Computing Journal, 2019, 85, 105861.	4.1	17
23	ISAB: Integrated Indoor Navigation System for the Blind. Interacting With Computers, 0, , .	1.0	16
24	A novel Arabic OCR post-processing using rule-based and word context techniques. International Journal on Document Analysis and Recognition, 2018, 21, 77-89.	2.7	15
25	Non-visual navigation of spreadsheets. Universal Access in the Information Society, 2013, 12, 143-159.	2.1	14
26	Harmony Search Algorithm for Patient Admission Scheduling Problem. Journal of Intelligent Systems, 2019, 29, 540-553.	1.2	14
27	Detecting and recognizing tables in spreadsheets. , 2010, , .		13
28	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.	1.0	13
29	CCSA: Cellular Crow Search Algorithm with topological neighborhood shapes for optimization. Expert Systems With Applications, 2022, 194, 116431.	4.4	12
30	Reading Braille on mobile phones: A fast method with low battery power consumption. , 2011, , .		10
31	Yarmouk Arabic OCR Dataset. , 2018, , .		10
32	A Modified Coronavirus Herd Immunity Optimizer for the Power Scheduling Problem. Mathematics, 2022, 10, 315.	1.1	10
33	Island neighboring heuristics harmony search algorithm for flow shop scheduling with blocking. Swarm and Evolutionary Computation, 2022, 74, 101127.	4.5	9
34	Arabic optical character recognition software: A review. Pattern Recognition and Image Analysis, 2017, 27, 763-776.	0.6	8
35	Evaluating Usability and Content Accessibility for e-Learning Websites in the Middle East. International Journal of Technology and Human Interaction, 2020, 16, 54-62.	0.3	8
36	A hybrid flower pollination with $\langle \text{mml:math xmlns:mml}="http://www.w3.org/1998/Math/MathML" \text{ altimg}="si60.svg"> \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -hill climbing algorithm for global optimization. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 4821-4835.	2.7	8

#	ARTICLE	IF	CITATIONS
37	The Hybrid Framework for Multi-objective Evolutionary Optimization Based on Harmony Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 134-142.	0.5	7
38	Hybedrized NSGA-II and MOEA/D with Harmony Search Algorithm to Solve Multi-objective Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2015, , 606-614.	1.0	7
39	Harmony Search with Multi-Parent Crossover for Solving IEEE-CEC2011 Competition Problems. <i>Lecture Notes in Computer Science</i> , 2012, , 108-114.	1.0	7
40	Integrating Collaborative Program Development and Debugging within a Virtual Environment. <i>Lecture Notes in Computer Science</i> , 2008, , 107-120.	1.0	6
41	Incorporation of ISO 25010 with machine learning to develop a novel quality in use prediction system (QiUPS). <i>International Journal of Systems Assurance Engineering and Management</i> , 2018, 9, 344-353.	1.5	6
42	A Survey on Accessible Context-Aware Systems. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020, , 29-63.	0.9	6
43	A survey for recent applications and variants of nature-inspired immune search algorithm. <i>International Journal of Computer Applications in Technology</i> , 2020, 63, 354.	0.3	6
44	The effect of different stopping criteria on multi-objective optimization algorithms. <i>Neural Computing and Applications</i> , 2023, 35, 1125-1155.	3.2	6
45	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.	0.5	6
46	Best Polynomial Harmony Search with Best \hat{I}^2 -Hill Climbing Algorithm. <i>Journal of Intelligent Systems</i> , 2020, 30, 1-17.	1.2	6
47	MAX-SAT Problem using Hybrid Harmony Search Algorithm. <i>Journal of Intelligent Systems</i> , 2018, 27, 643-658.	1.2	5
48	Extracting authoring information based on keywords and semantic search. , 2010, , .		4
49	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.	0.1	4
50	What we have and what is needed, how to evaluate Arabic Speech Synthesizer?. <i>International Journal of Speech Technology</i> , 2016, 19, 415-432.	1.4	4
51	AraDaisy: a system for automatic generation of Arabic DAISY books. <i>International Journal of Computer Applications in Technology</i> , 2017, 55, 322.	0.3	4
52	Building a Programmable Architecture for Non-visual Navigation of Mathematics: Using Rules for Guiding Presentation and Switching between Modalities. <i>Lecture Notes in Computer Science</i> , 2009, , 3-13.	1.0	4
53	Detecting Distributed Predicates Using Genetic Algorithms. <i>International Journal of Intelligent Information Technologies</i> , 2013, 9, 56-70.	0.5	4
54	Towards meaningful mathematical expressions in e-learning. , 2010, , .		4

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55	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
56	Can genetic algorithms help virus writers reshape their creations and avoid detection?. Journal of Experimental and Theoretical Artificial Intelligence, 2017, 29, 1297-1310.	1.8	3
57	Integrating Semantic Web and Folksonomies to Improve E-Learning Accessibility. Lecture Notes in Computer Science, 2010, , 376-383.	1.0	3
58	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.	3.3	3
59	Semi-automatic generation of Arabic digital talking books. , 2014, , .		2
60	On Different Stopping Criteria for Multi-objective Harmony Search Algorithms. , 2019, , .		2
61	Non-visual Navigation of Spreadsheet Tables. Lecture Notes in Computer Science, 2010, , 108-115.	1.0	2
62	Searching and Generating Authoring Information. International Journal of Information Technology and Web Engineering, 2011, 6, 1-14.	1.2	2
63	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
64	Wind Driven Optimization With Smart Home Battery for Power Scheduling Problem in Smart Home. , 2021, , .		2
65	Community detection using intelligent water drops optimisation algorithm. International Journal of Reasoning-based Intelligent Systems, 2017, 9, 52.	0.1	1
66	Community detection in complex networks using multi-objective bat algorithm. International Journal of Mathematical Modelling and Numerical Optimisation, 2020, 10, 123.	0.1	1
67	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.	0.6	1
68	Community detection using intelligent water drops optimisation algorithm. International Journal of Reasoning-based Intelligent Systems, 2017, 9, 52.	0.1	1
69	A Sensitivity Analysis for Harmony Search with Multi-Parent Crossover Algorithm. Advances in Intelligent Systems and Computing, 2020, , 276-284.	0.5	1
70	Island-based Modified Harmony Search Algorithm with Neighboring Heuristics Methods for Flow Shop Scheduling with Blocking. , 2020, , .		1
71	cJAYA: Cellular JAYA Algorithm. , 2020, , .		1
72	EEG Feature Fusion for Person Identification Using Efficient Machine Learning Approach. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
73	A tool for monitoring and tracing multi-agent applications. , 2011, , .		0
74	Web Accessibility for Persons with Motor Limitations. Advances in Medical Technologies and Clinical Practice Book Series, 2014, , 234-262.	0.3	0
75	AraDaisy: a system for automatic generation of Arabic DAISY books. International Journal of Computer Applications in Technology, 2017, 55, 322.	0.3	0
76	A survey for recent applications and variants of nature-inspired immune search algorithm. International Journal of Computer Applications in Technology, 2020, 63, 354.	0.3	0
77	Web Accessibility for Persons with Motor Limitations. , 0, , 1496-1524.		0