Absalom E Ezugwu

List of Publications by Year
in descending order

71 papers	2,734 citations	236912 25 h-index	197805 49 g-index
78 all docs	78 docs citations	78 times ranked	1120 citing authors

#	Article	IF	Citations
1	Advanced discrete firefly algorithm with adaptive mutation‐based neighborhood search for scheduling unrelated parallel machines with sequence‐dependent setup times. International Journal of Intelligent Systems, 2022, 37, 4612-4653.	5.7	7
2	Characterization of abnormalities in breast cancer images using <scp>nature‐inspired</scp> metaheuristic optimized convolutional neural networks model. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	20
3	Enhanced Intelligent Smart Home Control and Security System Based on Deep Learning Model. Wireless Communications and Mobile Computing, 2022, 2022, 1-22.	1.2	32
4	Initialisation Approaches for Population-Based Metaheuristic Algorithms: A Comprehensive Review. Applied Sciences (Switzerland), 2022, 12, 896.	2.5	25
5	Ebola Optimization Search Algorithm: A New Nature-Inspired Metaheuristic Optimization Algorithm. IEEE Access, 2022, 10, 16150-16177.	4.2	267
6	Influence of probability distribution initialization methods on the performance of advanced arithmetic optimization algorithm with application to unrelated parallel machine scheduling problem. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	4
7	Dwarf Mongoose Optimization Algorithm. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114570.	6.6	409
8	A comparative performance study of random‐grid model for hyperparameters selection in detection of abnormalities in digital breast images. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	6
9	A novel wavelet decomposition and transformation convolutional neural network with data augmentation for breast cancer detection using digital mammogram. Scientific Reports, 2022, 12, 5913.	3.3	19
10	A generative adversarial network for synthetization of regions of interest based on digital mammograms. Scientific Reports, 2022, 12, 6166.	3.3	23
11	A Few-Shot Learning-Based Reward Estimation for Mapless Navigation of Mobile Robots Using a Siamese Convolutional Neural Network. Applied Sciences (Switzerland), 2022, 12, 5323.	2.5	2
12	Prairie Dog Optimization Algorithm. Neural Computing and Applications, 2022, 34, 20017-20065.	5.6	212
13	Automatic clustering algorithms: a systematic review and bibliometric analysis of relevant literature. Neural Computing and Applications, 2021, 33, 6247-6306.	5.6	66
14	Metaheuristic algorithms for one-dimensional bin-packing problems: A survey of recent advances and applications. Journal of Intelligent Systems, 2021, 30, 636-663.	1.6	21
15	CovFrameNet: An Enhanced Deep Learning Framework for COVID-19 Detection. IEEE Access, 2021, 9, 77905-77919.	4.2	36
16	Metaheuristics: a comprehensive overview and classification along with bibliometric analysis. Artificial Intelligence Review, 2021, 54, 4237-4316.	15.7	112
17	A deep learning model using data augmentation for detection of architectural distortion in whole and patches of images. Biomedical Signal Processing and Control, 2021, 65, 102366.	5.7	44
18	A performance study of meta‐heuristic approaches for quadratic assignment problem. Concurrency Computation Practice and Experience, 2021, 33, e6321.	2.2	9

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19	Advanced arithmetic optimization algorithm for solving mechanical engineering design problems. PLoS ONE, 2021, 16, e0255703.	2.5	64
20	A Novel Smart City-Based Framework on Perspectives for Application of Machine Learning in Combating COVID-19. BioMed Research International, 2021, 2021, 1-15.	1.9	14
21	Internet of Things-Based Intelligent Smart Home Control System. Security and Communication Networks, 2021, 2021, 1-17.	1.5	32
22	A bioinspired neural architecture search based convolutional neural network for breast cancer detection using histopathology images. Scientific Reports, 2021, 11, 19940.	3.3	23
23	Enhancing reasoning through reduction of vagueness using fuzzy OWL-2 for representation of breast cancer ontologies. Neural Computing and Applications, 2021, 34, 1-26.	5.6	24
24	K-Means-Based Nature-Inspired Metaheuristic Algorithms for Automatic Data Clustering Problems: Recent Advances and Future Directions. Applied Sciences (Switzerland), 2021, 11, 11246.	2.5	29
25	Deep Learning-Based Big Data Analytics for Internet of Vehicles: Taxonomy, Challenges, and Research Directions. Mathematical Problems in Engineering, 2021, 2021, 1-20.	1.1	5
26	Investigating the impact of vaccination and non-pharmaceutical measures in curbing COVID-19 spread: A South Africa perspective. Mathematical Biosciences and Engineering, 2021, 19, 1058-1077.	1.9	2
27	Evaluation of several initialization methods on arithmetic optimization algorithm performance. Journal of Intelligent Systems, 2021, 31, 70-94.	1.6	11
28	ArchGAN: A Generative Adversarial Network for Architectural Distortion Abnormalities in Digital Mammograms. , 2021, , .		6
29	Ebola Optimization Search Algorithm: A new nature-inspired metaheuristic algorithm for global optimization problems. , 2021, , .		10
30	A conceptual comparison of several metaheuristic algorithms on continuous optimisation problems. Neural Computing and Applications, 2020, 32, 6207-6251.	5.6	87
31	Ant colony optimization edge selection for support vector machine speed optimization. Neural Computing and Applications, 2020, 32, 11385-11417.	5.6	6
32	Smart healthcare support for remote patient monitoring during covid-19 quarantine. Informatics in Medicine Unlocked, 2020, 20, 100428.	3.4	137
33	Computational Intelligence Approach to Dynamic Blood Allocation With ABO-Rhesus Factor Compatibility Under Real-World Scenario. IEEE Access, 2020, 8, 97576-97603.	4.2	2
34	A case-based reasoning framework for early detection and diagnosis of novel coronavirus. Informatics in Medicine Unlocked, 2020, 20, 100395.	3.4	36
35	A State-of-the-Art Survey on Deep Learning Methods for Detection of Architectural Distortion From Digital Mammography. IEEE Access, 2020, 8, 148644-148676.	4.2	31
36	Influence of Initializing Krill Herd Algorithm With Low-Discrepancy Sequences. IEEE Access, 2020, 8, 210886-210909.	4.2	14

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37	Hybrid Symbiotic Organism Search algorithms for Automatic Data Clustering. , 2020, , .		8
38	Deep Learning Model for Forecasting Institutional Building Energy Consumption. , 2020, , .		4
39	A Comparative Performance Study of Hybrid Firefly Algorithms for Automatic Data Clustering. IEEE Access, 2020, 8, 121089-121118.	4.2	18
40	Irenbus: A Real-Time Public Transport Management System. , 2020, , .		3
41	Nature-inspired metaheuristic techniques for automatic clustering: a survey and performance study. SN Applied Sciences, 2020, 2, 1.	2.9	38
42	Smart Home Automation System Using ZigBee, Bluetooth and Arduino Technologies. Lecture Notes in Computer Science, 2020, , 587-597.	1.3	5
43	Smart Home Automation: Taxonomy, Composition, Challenges and Future Direction. Lecture Notes in Computer Science, 2020, , 878-894.	1.3	6
44	Metaheuristic Approaches for One-Dimensional Bin Packing Problem: A Comparative Performance Study. IEEE Access, 2020, 8, 227438-227465.	4.2	12
45	Early survey with bibliometric analysis on machine learning approaches in controlling COVID-19 outbreaks. PeerJ Computer Science, 2020, 6, e313.	4.5	24
46	Parallel Symbiotic Organisms Search Algorithm. Lecture Notes in Computer Science, 2019, , 658-672.	1.3	2
47	Stock Price Forecasting Using Symbiotic Organisms Search Trained Neural Networks. Lecture Notes in Computer Science, 2019, , 673-688.	1.3	2
48	Mathematical model formulation and hybrid metaheuristic optimization approach for near-optimal blood assignment in a blood bank system. Expert Systems With Applications, 2019, 137, 74-99.	7.6	13
49	Nature Inspired Instance Selection Techniques for Support Vector Machine Speed Optimization. IEEE Access, 2019, 7, 154581-154599.	4.2	8
50	A Comparative Study of Meta-Heuristic Optimization Algorithms for 0 â€" 1 Knapsack Problem: Some Initial Results. IEEE Access, 2019, 7, 43979-44001.	4.2	62
51	Enhanced symbiotic organisms search algorithm for unrelated parallel machines manufacturing scheduling with setup times. Knowledge-Based Systems, 2019, 172, 15-32.	7.1	53
52	Automatic Data Clustering Using Hybrid Firefly Particle Swarm Optimization Algorithm. IEEE Access, 2019, 7, 184963-184984.	4.2	43
53	A Symbiotic Organisms Search Algorithm for Optimal Allocation of Blood Products. IEEE Access, 2019, 7, 2567-2588.	4.2	16
54	Symbiotic organisms search algorithm: Theory, recent advances and applications. Expert Systems With Applications, 2019, 119, 184-209.	7.6	109

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55	A Comparative Study of Metaheuristics for Blood Assignment Problem. , 2018, , .		0
56	An Improved Firefly Algorithm for the Unrelated Parallel Machines Scheduling Problem With Sequence-Dependent Setup Times. IEEE Access, 2018, 6, 54459-54478.	4.2	49
57	Symbiotic organisms search algorithm for the unrelated parallel machines scheduling with sequence-dependent setup times. PLoS ONE, 2018, 13, e0200030.	2.5	37
58	Enhanced intelligent water drops algorithm for multi-depot vehicle routing problem. PLoS ONE, 2018, 13, e0193751.	2.5	12
59	Neural networkâ€based multiâ€agent approach for scheduling in distributed systems. Concurrency Computation Practice and Experience, 2017, 29, e3887.	2.2	3
60	Simulated annealing based symbiotic organisms search optimization algorithm for traveling salesman problem. Expert Systems With Applications, 2017, 77, 189-210.	7.6	146
61	Discrete symbiotic organisms search algorithm for travelling salesman problem. Expert Systems With Applications, 2017, 87, 70-78.	7.6	100
62	Soft sets based symbiotic organisms search algorithm for resource discovery in cloud computing environment. Future Generation Computer Systems, 2017, 76, 33-50.	7.5	27
63	Energy neutral protocol based on hierarchical routing techniques for energy harvesting wireless sensor network. AIP Conference Proceedings, 2017, , .	0.4	2
64	Grid Resource Allocation with Genetic Algorithm Using Population Based on Multisets. Journal of Intelligent Systems, 2017, 26, 169-184.	1.6	5
65	An improved ant colony optimization algorithm with fault tolerance for job scheduling in grid computing systems. PLoS ONE, 2017, 12, e0177567.	2.5	25
66	Characterization of grid computing resources using measurement-based evaluation. Multiagent and Grid Systems, 2016, 12, 13-34.	0.9	3
67	Scheduling multiâ€component applications with mobile agents in heterogeneous distributed systems. Concurrency Computation Practice and Experience, 2016, 28, 1462-1479.	2.2	2
68	Multiagent-based approach for scheduling meta-applications in heterogeneous grid environments. Multiagent and Grid Systems, 2015, 11, 59-79.	0.9	2
69	A Reference Architectural Pattern: Component-Based Scheduling System for Heterogeneous Computing Environment. , 2014, , .		0
70	Virtual Machine Allocation in Cloud Computing Environment. International Journal of Cloud Applications and Computing, 2013, 3, 47-60.	2.0	13
71	Boosting symbiotic organism search algorithm with ecosystem service for dynamic blood allocation in blood banking system. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-33.	2.8	1