Mohamed Abdel-Basst

List of Publications by Year in descending order

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137 papers 6,279 citations

45 h-index 70 g-index

139 all docs

139 docs citations

139 times ranked 4207 citing authors

#	Article	IF	CITATIONS
1	Internet of things in smart education environment: Supportive framework in the decisionâ€making process. Concurrency Computation Practice and Experience, 2019, 31, e4515.	1.4	180
2	A novel plithogenic TOPSIS- CRITIC model for sustainable supply chain risk management. Journal of Cleaner Production, 2020, 247, 119586.	4.6	178
3	A hybrid approach of neutrosophic sets and DEMATEL method for developing supplier selection criteria. Design Automation for Embedded Systems, 2018, 22, 257-278.	0.7	177
4	HSMA_WOA: A hybrid novel Slime mould algorithm with whale optimization algorithm for tackling the image segmentation problem of chest X-ray images. Applied Soft Computing Journal, 2020, 95, 106642.	4.1	174
5	An intelligent framework using disruptive technologies for COVID-19 analysis. Technological Forecasting and Social Change, 2021, 163, 120431.	6.2	169
6	Flower pollination algorithm: a comprehensive review. Artificial Intelligence Review, 2019, 52, 2533-2557.	9.7	150
7	A Novel Intelligent Medical Decision Support Model Based on Soft Computing and IoT. IEEE Internet of Things Journal, 2020, 7, 4160-4170.	5.5	145
8	NMCDA: A framework for evaluating cloud computing services. Future Generation Computer Systems, 2018, 86, 12-29.	4.9	142
9	A Hybrid COVID-19 Detection Model Using an Improved Marine Predators Algorithm and a Ranking-Based Diversity Reduction Strategy. IEEE Access, 2020, 8, 79521-79540.	2.6	138
10	A new hybrid multi-criteria decision-making approach for location selection of sustainable offshore wind energy stations: A case study. Journal of Cleaner Production, 2021, 280, 124462.	4.6	128
11	An Extension of Neutrosophic AHP–SWOT Analysis for Strategic Planning and Decision-Making. Symmetry, 2018, 10, 116.	1.1	119
12	A Group Decision Making Framework Based on Neutrosophic TOPSIS Approach for Smart Medical Device Selection. Journal of Medical Systems, 2019, 43, 38.	2.2	113
13	Sarcasm Detection Using Soft Attention-Based Bidirectional Long Short-Term Memory Model With Convolution Network. IEEE Access, 2019, 7, 23319-23328.	2.6	109
14	A hybrid Harris Hawks optimization algorithm with simulated annealing for feature selection. Artificial Intelligence Review, 2021, 54, 593-637.	9.7	104
15	Parameter estimation of photovoltaic models using an improved marine predators algorithm. Energy Conversion and Management, 2021, 227, 113491.	4.4	103
16	Multi-criteria group decision making based on neutrosophic analytic hierarchy process. Journal of Intelligent and Fuzzy Systems, 2017, 33, 4055-4066.	0.8	98
17	An Integrated Neutrosophic-TOPSIS Approach and Its Application to Personnel Selection: A New Trend in Brain Processing and Analysis. IEEE Access, 2019, 7, 29734-29744.	2.6	98
18	A Hybrid Artificial Intelligence and Internet of Things Model for Generation of Renewable Resource of Energy. IEEE Access, 2019, 7, 111181-111191.	2.6	97

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19	Energy-Aware Marine Predators Algorithm for Task Scheduling in IoT-Based Fog Computing Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 5068-5076.	7.2	96
20	Neutrosophic Multi-Criteria Decision Making Approach for IoT-Based Enterprises. IEEE Access, 2019, 7, 59559-59574.	2.6	95
21	A Novel and Comprehensive Trust Estimation Clustering Based Approach for Large Scale Wireless Sensor Networks. IEEE Access, 2019, 7, 58221-58240.	2.6	93
22	FSS-2019-nCov: A deep learning architecture for semi-supervised few-shot segmentation of COVID-19 infection. Knowledge-Based Systems, 2021, 212, 106647.	4.0	93
23	Deep Learning Approach for Software Maintainability Metrics Prediction. IEEE Access, 2019, 7, 61840-61855.	2.6	84
24	A model for evaluating green credit rating and its impact on sustainability performance. Journal of Cleaner Production, 2021, 280, 124299.	4.6	83
25	An improved Lévy based whale optimization algorithm for bandwidth-efficient virtual machine placement in cloud computing environment. Cluster Computing, 2019, 22, 8319-8334.	3.5	81
26	Neutrosophic Association Rule Mining Algorithm for Big Data Analysis. Symmetry, 2018, 10, 106.	1.1	80
27	A Hybrid Neutrosophic Group ANP-TOPSIS Framework for Supplier Selection Problems. Symmetry, 2018, 10, 226.	1.1	80
28	A novel decision-making model for sustainable supply chain finance under uncertainty environment. Journal of Cleaner Production, 2020, 269, 122324.	4.6	80
29	IoTBoT-IDS: A novel statistical learning-enabled botnet detection framework for protecting networks of smart cities. Sustainable Cities and Society, 2021, 72, 103041.	5.1	79
30	A novel equilibrium optimization algorithm for multi-thresholding image segmentation problems. Neural Computing and Applications, 2021, 33, 10685-10718.	3.2	77
31	Neutrosophic AHP-Delphi Group decision making model based on trapezoidal neutrosophic numbers. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1427-1443.	3.3	71
32	A novel method for solving the fully neutrosophic linear programming problems. Neural Computing and Applications, 2019, 31, 1595-1605.	3.2	71
33	An efficient teaching-learning-based optimization algorithm for parameters identification of photovoltaic models: Analysis and validations. Energy Conversion and Management, 2021, 227, 113614.	4.4	70
34	ST-DeepHAR: Deep Learning Model for Human Activity Recognition in IoHT Applications. IEEE Internet of Things Journal, 2021, 8, 4969-4979.	5.5	69
35	A modified nature inspired meta-heuristic whale optimization algorithm for solving 0–1 knapsack problem. International Journal of Machine Learning and Cybernetics, 2019, 10, 495-514.	2.3	64
36	Feature and Intensity Based Medical Image Registration Using Particle Swarm Optimization. Journal of Medical Systems, 2017, 41, 197.	2.2	62

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37	A novel Whale Optimization Algorithm integrated with Nelder–Mead simplex for multi-objective optimization problems. Knowledge-Based Systems, 2021, 212, 106619.	4.0	59
38	A group decision making framework based on neutrosophic VIKOR approach for e-government website evaluation. Journal of Intelligent and Fuzzy Systems, 2018, 34, 4213-4224.	0.8	56
39	A novel group decision making model based on neutrosophic sets for heart disease diagnosis. Multimedia Tools and Applications, 2020, 79, 9977-10002.	2.6	56
40	Utilising neutrosophic theory to solve transition difficulties of IoT-based enterprises. Enterprise Information Systems, 2020, 14, 1304-1324.	3.3	56
41	PV-Net: An innovative deep learning approach for efficient forecasting of short-term photovoltaic energy production. Journal of Cleaner Production, 2021, 303, 127037.	4.6	56
42	Deep-IFS: Intrusion Detection Approach for Industrial Internet of Things Traffic in Fog Environment. IEEE Transactions on Industrial Informatics, 2021, 17, 7704-7715.	7.2	54
43	Energy-Aware Metaheuristic Algorithm for Industrial-Internet-of-Things Task Scheduling Problems in Fog Computing Applications. IEEE Internet of Things Journal, 2021, 8, 12638-12649.	5. 5	52
44	Semi-Supervised Spatiotemporal Deep Learning for Intrusions Detection in IoT Networks. IEEE Internet of Things Journal, 2021, 8, 12251-12265.	5 . 5	50
45	Evaluation of sustainable hydrogen production options using an advanced hybrid MCDM approach: A case study. International Journal of Hydrogen Energy, 2021, 46, 4567-4591.	3.8	49
46	An efficient binary slime mould algorithm integrated with a novel attacking-feeding strategy for feature selection. Computers and Industrial Engineering, 2021, 153, 107078.	3.4	47
47	Evaluation approach for sustainable renewable energy systems under uncertain environment: A case study. Renewable Energy, 2021, 168, 1073-1095.	4.3	47
48	Assessment of Code Smell for Predicting Class Change Proneness Using Machine Learning. IEEE Access, 2019, 7, 37414-37425.	2.6	45
49	A New Design of Mamdani Complex Fuzzy Inference System for Multiattribute Decision Making Problems. IEEE Transactions on Fuzzy Systems, 2021, 29, 716-730.	6.5	43
50	A novel group decision-making model based on triangular neutrosophic numbers. Soft Computing, 2018, 22, 6629-6643.	2.1	40
51	A Hybrid Plithogenic Decision-Making Approach with Quality Function Deployment for Selecting Supply Chain Sustainability Metrics. Symmetry, 2019, 11, 903.	1.1	40
52	A binary multi-verse optimizer for 0-1 multidimensional knapsack problems with application in interactive multimedia systems. Computers and Industrial Engineering, 2019, 132, 187-206.	3.4	36
53	DeepH-DTA: Deep Learning for Predicting Drug-Target Interactions: A Case Study of COVID-19 Drug Repurposing. IEEE Access, 2020, 8, 170433-170451.	2.6	36
54	Energy-aware whale optimization algorithm for real-time task scheduling in multiprocessor systems. Applied Soft Computing Journal, 2020, 93, 106349.	4.1	36

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55	HWOA: A hybrid whale optimization algorithm with a novel local minima avoidance method for multi-level thresholding color image segmentation. Expert Systems With Applications, 2022, 190, 116145.	4.4	35
56	Deep Learning for Heterogeneous Human Activity Recognition in Complex IoT Applications. IEEE Internet of Things Journal, 2022, 9, 5653-5665.	5 . 5	34
57	Balanced multi-objective optimization algorithm using improvement based reference points approach. Swarm and Evolutionary Computation, 2021, 60, 100791.	4.5	34
58	Development of a hybrid multi-criteria decision-making approach for sustainability evaluation of bioenergy production technologies: A case study. Journal of Cleaner Production, 2021, 290, 125805.	4.6	34
59	Arabic text clustering using improved clustering algorithms with dimensionality reduction. Cluster Computing, 2019, 22, 4535-4549.	3.5	33
60	An Improved Artificial Jellyfish Search Optimizer for Parameter Identification of Photovoltaic Models. Energies, 2021, 14, 1867.	1.6	33
61	An efficient heap-based optimization algorithm for parameters identification of proton exchange membrane fuel cells model: Analysis and case studies. International Journal of Hydrogen Energy, 2021, 46, 11908-11925.	3.8	33
62	A comprehensive review of quadratic assignment problem: variants, hybrids and applications. Journal of Ambient Intelligence and Humanized Computing, 0 , 1 .	3.3	32
63	Internet of Spatial Things: A New Reference Model With Insight Analysis. IEEE Access, 2019, 7, 19653-19669.	2.6	32
64	Linguistic Approaches to Interval Complex Neutrosophic Sets in Decision Making. IEEE Access, 2019, 7, 38902-38917.	2.6	32
65	2-Levels of clustering strategy to detect and locate copy-move forgery in digital images. Multimedia Tools and Applications, 2020, 79, 5419-5437.	2.6	32
66	A modified flower pollination algorithm for the multidimensional knapsack problem: human-centric decision making. Soft Computing, 2018, 22, 4221-4239.	2.1	31
67	A Novel Neutrosophic Data Analytic Hierarchy Process for Multi-Criteria Decision Making Method: A Case Study in Kuala Lumpur Stock Exchange. IEEE Access, 2019, 7, 53687-53697.	2.6	31
68	A Refined Approach for Forecasting Based on Neutrosophic Time Series. Symmetry, 2019, 11, 457.	1.1	31
69	Solving O–1 knapsack problem by binary flower pollination algorithm. Neural Computing and Applications, 2019, 31, 5477-5495.	3.2	31
70	Krill herd algorithm based on cuckoo search for solving engineering optimization problems. Multimedia Tools and Applications, 2019, 78, 3861-3884.	2.6	31
71	Novel Incremental Algorithms for Attribute Reduction From Dynamic Decision Tables Using Hybrid Filter–Wrapper With Fuzzy Partition Distance. IEEE Transactions on Fuzzy Systems, 2020, 28, 858-873.	6.5	31
72	Cost-efficient mobility offloading and task scheduling for microservices IoVT applications in container-based fog cloud network. Cluster Computing, 2022, 25, 2061-2083.	3 . 5	31

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73	EA-MSCA: An effective energy-aware multi-objective modified sine-cosine algorithm for real-time task scheduling in multiprocessor systems: Methods and analysis. Expert Systems With Applications, 2021, 173, 114699.	4.4	31
74	New binary marine predators optimization algorithms for 0–1 knapsack problems. Computers and Industrial Engineering, 2021, 151, 106949.	3.4	29
75	Towards a Reuse Strategic Decision Pattern Framework – from Theories to Practices. Information Systems Frontiers, 2019, 21, 27-44.	4.1	28
76	A model for the effective COVID-19 identification in uncertainty environment using primary symptoms and CT scans. Health Informatics Journal, 2020, 26, 3088-3105.	1.1	28
77	Smart Supervision of Cardiomyopathy Based on Fuzzy Harris Hawks Optimizer and Wearable Sensing Data Optimization: A New Model. IEEE Transactions on Cybernetics, 2021, 51, 4944-4958.	6.2	28
78	Energy-Net: A Deep Learning Approach for Smart Energy Management in IoT-Based Smart Cities. IEEE Internet of Things Journal, 2021, 8, 12422-12435.	5.5	28
79	An Efficient Marine Predators Algorithm for Solving Multi-Objective Optimization Problems: Analysis and Validations. IEEE Access, 2021, 9, 42817-42844.	2.6	27
80	Multi-Objective Task Scheduling Approach for Fog Computing. IEEE Access, 2021, 9, 126988-127009.	2.6	27
81	A Novel Whale Optimization Algorithm for Cryptanalysis in Merkle-Hellman Cryptosystem. Mobile Networks and Applications, 2018, 23, 723-733.	2.2	26
82	A Binary Equilibrium Optimization Algorithm for 0–1 Knapsack Problems. Computers and Industrial Engineering, 2021, 151, 106946.	3.4	26
83	IEGA: An improved elitismâ€based genetic algorithm for task scheduling problem in fog computing. International Journal of Intelligent Systems, 2021, 36, 4592-4631.	3.3	26
84	Link-Disjoint Multipath Routing for Network Traffic Overload Handling in Mobile Ad-hoc Networks. IEEE Access, 2019, 7, 143312-143323.	2.6	25
85	Grid quorum-based spatial coverage for IoT smart agriculture monitoring using enhanced multi-verse optimizer. Neural Computing and Applications, 2020, 32, 607-624.	3.2	24
86	Multimodal Infant Brain Segmentation by Fuzzy-Informed Deep Learning. IEEE Transactions on Fuzzy Systems, 2022, 30, 1088-1101.	6.5	24
87	MOEO-EED: A multi-objective equilibrium optimizer with exploration–exploitation†dominance strategy. Knowledge-Based Systems, 2021, 214, 106717.	4.0	22
88	Modified Flower Pollination Algorithm for Global Optimization. Mathematics, 2021, 9, 1661.	1.1	22
89	Federated Threat-Hunting Approach for Microservice-Based Industrial Cyber-Physical System. IEEE Transactions on Industrial Informatics, 2022, 18, 1905-1917.	7.2	21
90	A Simple and Effective Approach for Tackling the Permutation Flow Shop Scheduling Problem. Mathematics, 2021, 9, 270.	1.1	21

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91	Novel probabilistic resource migration algorithm for cross-cloud live migration of virtual machines in public cloud. Journal of Supercomputing, 2019, 75, 5848-5865.	2.4	19
92	IoT and Its Impact on the Electronics Market: A Powerful Decision Support System for Helping Customers in Choosing the Best Product. Symmetry, 2019, 11, 611.	1.1	19
93	A New Algorithm for High Power Node Multicasting in Wireless Sensor Networks. IEEE Access, 2019, 7, 38584-38592.	2.6	19
94	Context-Similarity Collaborative Filtering Recommendation. IEEE Access, 2020, 8, 33342-33351.	2.6	18
95	Parameters Identification of PV Triple-Diode Model Using Improved Generalized Normal Distribution Algorithm. Mathematics, 2021, 9, 995.	1.1	18
96	BSMA: A novel metaheuristic algorithm for multi-dimensional knapsack problems: Method and comprehensive analysis. Computers and Industrial Engineering, 2021, 159, 107469.	3.4	18
97	On the Stabilizability for a Class of Linear Time-Invariant Systems Under Uncertainty. Circuits, Systems, and Signal Processing, 2020, 39, 919-960.	1.2	17
98	Adaptive and efficient optimization model for optimal parameters of proton exchange membrane fuel cells: A comprehensive analysis. Energy, 2021, 233, 121096.	4.5	16
99	An Efficient-Assembler Whale Optimization Algorithm for DNA Fragment Assembly Problem: Analysis and Validations. IEEE Access, 2020, 8, 222144-222167.	2.6	15
100	A Security-by-Design Decision-Making Model for Risk Management in Autonomous Vehicles. IEEE Access, 2021, 9, 107657-107679.	2.6	13
101	Privacy-Preserved Cyberattack Detection in Industrial Edge of Things (IEoT): A Blockchain-Orchestrated Federated Learning Approach. IEEE Transactions on Industrial Informatics, 2022, 18, 7920-7934.	7.2	13
102	Evaluation of Production of Digital Twins Based on Blockchain Technology. Electronics (Switzerland), 2022, 11, 1268.	1.8	13
103	RCTE: A reliable and consistent temporal-ensembling framework for semi-supervised segmentation of COVID-19 lesions. Information Sciences, 2021, 578, 559-573.	4.0	12
104	An Improved Binary Grey-Wolf Optimizer With Simulated Annealing for Feature Selection. IEEE Access, 2021, 9, 139792-139822.	2.6	12
105	Hybrid marine predators algorithm for image segmentation: analysis and validations. Artificial Intelligence Review, 2022, 55, 3315-3367.	9.7	12
106	An Efficient Parameter Estimation Algorithm for Proton Exchange Membrane Fuel Cells. Energies, 2021, 14, 7115.	1.6	12
107	A new fusion of whale optimizer algorithm with Kapur's entropy for multi-threshold image segmentation: analysis and validations. Artificial Intelligence Review, 2022, 55, 6389-6459.	9.7	12
108	Heuristic Search Based Localization in Mobile Computational Grid. IEEE Access, 2019, 7, 78652-78664.	2.6	11

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109	A New Decision-Making Model based on Plithogenic Set for Supplier Selection. Computers, Materials and Continua, 2021, 66, 2751-2769.	1.5	11
110	An Improved Jellyfish Algorithm for Multilevel Thresholding of Magnetic Resonance Brain Image Segmentations. Computers, Materials and Continua, 2021, 68, 2961-2977.	1.5	11
111	A Conceptual Hybrid Approach from a Multicriteria Perspective for Sustainable Third-Party Reverse Logistics Provider Identification. Sustainability, 2021, 13, 4615.	1.6	11
112	Efficient Ranking-Based Whale Optimizer for Parameter Extraction of Three-Diode Photovoltaic Model: Analysis and Validations. Energies, 2021, 14, 3729.	1.6	11
113	Enhanced Computational Intelligence Algorithm for Coverage Optimization of 6G Non-Terrestrial Networks in 3D Space. IEEE Access, 2021, 9, 70419-70429.	2.6	10
114	Efficient MCDM Model for Evaluating the Performance of Commercial Banks: A Case Study. Computers, Materials and Continua, 2021, 67, 2729-2746.	1.5	10
115	A modified hybrid whale optimization algorithm for the scheduling problem in multimedia data objects. Concurrency Computation Practice and Experience, 2020, 32, e5137.	1.4	9
116	A Local Search-Based Generalized Normal Distribution Algorithm for Permutation Flow Shop Scheduling. Applied Sciences (Switzerland), 2021, 11, 4837.	1.3	9
117	MT-nCov-Net: A Multitask Deep-Learning Framework for Efficient Diagnosis of COVID-19 Using Tomography Scans. IEEE Transactions on Cybernetics, 2023, 53, 1285-1298.	6.2	9
118	A Comprehensive Framework for Evaluating Sustainable Green Building Indicators under an Uncertain Environment. Sustainability, 2021, 13, 6243.	1.6	7
119	Hybrid Computational Intelligence Algorithm for Autonomous Handling of COVID-19 Pandemic Emergency in Smart Cities. Sustainable Cities and Society, 2022, 76, 103430.	5.1	7
120	Privacy-Preserved Generative Network for Trustworthy Anomaly Detection in Smart Grids: A Federated Semisupervised Approach. IEEE Transactions on Industrial Informatics, 2023, 19, 995-1005.	7.2	7
121	Decision Making Methods for Evaluation of Efficiency of General Insurance Companies in Malaysia: A Comparative Study. IEEE Access, 2019, 7, 160637-160649.	2.6	6
122	Guest Editorial:Advanced Deep Learning Techniques for COVID-19. IEEE Transactions on Industrial Informatics, 2021, 17, 6476-6479.	7.2	6
123	Deep learning approaches for human-centered IoT applications in smart indoor environments: a contemporary survey. Annals of Operations Research, 0 , 1 .	2.6	5
124	Grid quorumâ€based spatial coverage in mobile wireless sensor networks using natureâ€inspired firefly algorithm. Expert Systems, 2019, 36, e12421.	2.9	4
125	Single rate based extended logarithmic multicast congestion control. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 2779-2791.	3.3	4
126	Recommender Systems Using Collaborative Tagging. International Journal of Data Warehousing and Mining, 2020, 16, 183-200.	0.4	4

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127	An Adaptive Cuckoo Search-Based Optimization Model for Addressing Cyber-Physical Security Problems. Mathematics, 2021, 9, 1140.	1.1	4
128	Recent Meta-Heuristic Algorithms with a Novel Premature Covergence Method for Determining the Parameters of PV Cells and Modules. Electronics (Switzerland), 2021, 10, 1846.	1.8	4
129	A SOCP-Based Automatic Visual Fingerprinting Method for Indoor Localization System. IEEE Access, 2019, 7, 72862-72871.	2.6	3
130	A Robust Visual Localization Method With Unknown Focal Length Camera. IEEE Access, 2021, 9, 42896-42906.	2.6	3
131	Green Communication for Sixth-Generation Intent-Based Networks: An Architecture Based on Hybrid Computational Intelligence Algorithm. Wireless Communications and Mobile Computing, 2021, 2021, 1-13.	0.8	3
132	H2HI-Net: A Dual-Branch Network for Recognizing Human-to-Human Interactions From Channel-State Information. IEEE Internet of Things Journal, 2022, 9, 10010-10021.	5 . 5	3
133	Some appraisal criteria for multi-mode scheduling problem. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1641-1654.	3.3	2
134	A Risk Assessment Model for Cyber-Physical Water and Wastewater Systems: Towards Sustainable Development. Sustainability, 2022, 14, 4480.	1.6	2
135	Special issue on "Applications of neutrosophic theory in decision making-recent advances and future trends― Complex & Intelligent Systems, 2019, 5, 363-364.	4.0	O
136	Special issue on recent advances in intelligent algorithms and its applications. Concurrency Computation Practice and Experience, 2020, 32, e5417.	1.4	0
137	Intelligent Fuzzy Decision-Making System of Afforestation in New Cities: A Case Study of the New Administrative Capital, Egypt. Intelligent Systems With Applications, 2022, , 200085.	1.9	О