Mohamed Abdel-Basset

List of Publications by Year
in descending order

81 papers	5,716 citations	57758 44 h-index	82547 72 g-index
88 all docs	88 docs citations	88 times ranked	4145 citing authors

#	Article	IF	Citations
1	A new fusion of grey wolf optimizer algorithm with a two-phase mutation for feature selection. Expert Systems With Applications, 2020, 139, 112824.	7.6	215
2	Internet of things in smart education environment: Supportive framework in the decision‑making process. Concurrency Computation Practice and Experience, 2019, 31, e4515.	2.2	180
3	A novel plithogenic TOPSIS- CRITIC model for sustainable supply chain risk management. Journal of Cleaner Production, 2020, 247, 119586.	9.3	178
4	A hybrid approach of neutrosophic sets and DEMATEL method for developing supplier selection criteria. Design Automation for Embedded Systems, 2018, 22, 257-278.	1.0	177
5	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.	7.2	174
6	An intelligent framework using disruptive technologies for COVID-19 analysis. Technological Forecasting and Social Change, 2021, 163, 120431.	11.6	169
7	An approach of TOPSIS technique for developing supplier selection with group decision making under type-2 neutrosophic number. Applied Soft Computing Journal, 2019, 77, 438-452.	7.2	158
8	Flower pollination algorithm: a comprehensive review. Artificial Intelligence Review, 2019, 52, 2533-2557.	15.7	150
9	NMCDA: A framework for evaluating cloud computing services. Future Generation Computer Systems, 2018, 86, 12-29.	7.5	142
10	An Extension of Neutrosophic AHP‑SWOT Analysis for Strategic Planning and Decision-Making. Symmetry, 2018, 10, 116.	2.2	119
11	A Group Decision Making Framework Based on Neutrosophic TOPSIS Approach for Smart Medical Device Selection. Journal of Medical Systems, 2019, 43, 38.	3.6	113
12	Sarcasm Detection Using Soft Attention-Based Bidirectional Long Short-Term Memory Model With Convolution Network. IEEE Access, 2019, 7, 23319-23328.	4.2	109
13	A hybrid Harris Hawks optimization algorithm with simulated annealing for feature selection. Artificial Intelligence Review, 2021, 54, 593-637.	15.7	104
14	Multi-criteria group decision making based on neutrosophic analytic hierarchy process. Journal of Intelligent and Fuzzy Systems, 2017, 33, 4055-4066.	1.4	98
15	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.	4.2	98
16	A Hybrid Artificial Intelligence and Internet of Things Model for Generation of Renewable Resource of Energy. IEEE Access, 2019, 7, 111181-111191.	4.2	97
17	Neutrosophic Multi-Criteria Decision Making Approach for IoT-Based Enterprises. IEEE Access, 2019, 7, 59559-59574.	4.2	95
18	A Novel and Comprehensive Trust Estimation Clustering Based Approach for Large Scale Wireless Sensor Networks. IEEE Access, 2019, 7, 58221-58240.	4.2	93

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19	Towards an efficient risk assessment in software projectsâ€"Fuzzy reinforcement paradigm. Computers and Electrical Engineering, 2018, 71, 833-846.	4.8	85
20	Cosine similarity measures of bipolar neutrosophic set for diagnosis of bipolar disorder diseases. Artificial Intelligence in Medicine, 2019, 101, 101735.	6.5	85
21	Deep Learning Approach for Software Maintainability Metrics Prediction. IEEE Access, 2019, 7, 61840-61855.	4.2	84
22	A model for evaluating green credit rating and its impact on sustainability performance. Journal of Cleaner Production, 2021, 280, 124299.	9.3	83
23	A hybrid neutrosophic multiple criteria group decision making approach for project selection. Cognitive Systems Research, 2019, 57, 216-227.	2.7	81
24	An improved Lévy based whale optimization algorithm for bandwidth-efficient virtual machine placement in cloud computing environment. Cluster Computing, 2019, 22, 8319-8334.	5.0	81
25	Neutrosophic Association Rule Mining Algorithm for Big Data Analysis. Symmetry, 2018, 10, 106.	2.2	80
26	A Hybrid Neutrosophic Group ANP-TOPSIS Framework for Supplier Selection Problems. Symmetry, 2018, 10, 226.	2.2	80
27	A novel equilibrium optimization algorithm for multi-thresholding image segmentation problems. Neural Computing and Applications, 2021, 33, 10685-10718.	5.6	77
28	Neutrosophic AHP-Delphi Group decision making model based on trapezoidal neutrosophic numbers. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1427-1443.	4.9	71
29	A novel method for solving the fully neutrosophic linear programming problems. Neural Computing and Applications, 2019, 31, 1595-1605.	5.6	71
30	A simplex method-based social spider optimization algorithm for clustering analysis. Engineering Applications of Artificial Intelligence, 2017, 64, 67-82.	8.1	64
31	A modified nature inspired meta-heuristic whale optimization algorithm for solving 0â€"1 knapsack problem. International Journal of Machine Learning and Cybernetics, 2019, 10, 495-514.	3.6	64
32	Feature and Intensity Based Medical Image Registration Using Particle Swarm Optimization. Journal of Medical Systems, 2017, 41, 197.	3.6	62
33	Integrating the whale algorithm with Tabu search for quadratic assignment problem: A new approach for locating hospital departments. Applied Soft Computing Journal, 2018, 73, 530-546.	7.2	56
34	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.	1.4	56
35	A novel group decision making model based on neutrosophic sets for heart disease diagnosis. Multimedia Tools and Applications, 2020, 79, 9977-10002.	3.9	56
36	Utilising neutrosophic theory to solve transition difficulties of IoT-based enterprises. Enterprise Information Systems, 2020, 14, 1304-1324.	4.7	56

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37	Evaluation framework for smart disaster response systems in uncertainty environment. Mechanical Systems and Signal Processing, 2020, 145, 106941.	8.0	55
38	A novel model for evaluation Hospital medical care systems based on plithogenic sets. Artificial Intelligence in Medicine, 2019, 100, 101710.	6.5	49
39	A comprehensive study of cuckoo-inspired algorithms. Neural Computing and Applications, 2018, 29, 345-361.	5.6	48
40	Assessment of Code Smell for Predicting Class Change Proneness Using Machine Learning. IEEE Access, 2019, 7, 37414-37425.	4.2	45
41	A novel group decision-making model based on triangular neutrosophic numbers. Soft Computing, 2018, 22, 6629-6643.	3.6	40
42	A Hybrid Plithogenic Decision-Making Approach with Quality Function Deployment for Selecting Supply Chain Sustainability Metrics. Symmetry, 2019, 11, 903.	2.2	40
43	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.	6.3	36
44	A comprehensive review of quadratic assignment problem: variants, hybrids and applications. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	4.9	32
45	Internet of Spatial Things: A New Reference Model With Insight Analysis. IEEE Access, 2019, 7, 19653-19669.	4.2	32
46	Linguistic Approaches to Interval Complex Neutrosophic Sets in Decision Making. IEEE Access, 2019, 7, 38902-38917.	4.2	32
47	2-Levels of clustering strategy to detect and locate copy-move forgery in digital images. Multimedia Tools and Applications, 2020, 79, 5419-5437.	3.9	32
48	A modified flower pollination algorithm for the multidimensional knapsack problem: human-centric decision making. Soft Computing, 2018, 22, 4221-4239.	3.6	31
49	A neutrosophic theory based security approach for fog and mobile-edge computing. Computer Networks, 2019, 157, 122-132.	5.1	31
50	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.	4.2	31
51	A Refined Approach for Forecasting Based on Neutrosophic Time Series. Symmetry, 2019, 11, 457.	2.2	31
52	Solving 0â€"1 knapsack problem by binary flower pollination algorithm. Neural Computing and Applications, 2019, 31, 5477-5495.	5.6	31
53	Krill herd algorithm based on cuckoo search for solving engineering optimization problems. Multimedia Tools and Applications, 2019, 78, 3861-3884.	3.9	31
54	Towards a Reuse Strategic Decision Pattern Framework â€" from Theories to Practices. Information Systems Frontiers, 2019, 21, 27-44.	6.4	28

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55	PTZ-Surveillance coverage based on artificial intelligence for smart cities. International Journal of Information Management, 2019, 49, 520-532.	17.5	28
56	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.	9.5	28
57	Uncertainty assessments of linear time-cost tradeoffs using neutrosophic set. Computers and Industrial Engineering, 2020, 141, 106286.	6.3	27
58	A Novel Whale Optimization Algorithm for Cryptanalysis in Merkle-Hellman Cryptosystem. Mobile Networks and Applications, 2018, 23, 723-733.	3.3	26
59	Link-Disjoint Multipath Routing for Network Traffic Overload Handling in Mobile Ad-hoc Networks. IEEE Access, 2019, 7, 143312-143323.	4.2	25
60	The fusion of Internet of Intelligent Things (IoIT) in remote diagnosis of obstructive Sleep Apnea: A survey and a new model. Information Fusion, 2020, 61, 84-100.	19.1	25
61	Grid quorum-based spatial coverage for IoT smart agriculture monitoring using enhanced multi-verse optimizer. Neural Computing and Applications, 2020, 32, 607-624.	5.6	24
62	A Bipolar Neutrosophic Multi Criteria Decision Making Framework for Professional Selection. Applied Sciences (Switzerland), 2020, 10, 1202.	2.5	24
63	An integrated neutrosophic AHP and SWOT method for strategic planning methodology selection. Benchmarking, 2018, 25, 2546-2564.	4.6	23
64	A New Representation of Intuitionistic Fuzzy Systems and Their Applications in Critical Decision Making. IEEE Intelligent Systems, 2020, 35, 6-17.	4.0	23
65	Novel probabilistic resource migration algorithm for cross-cloud live migration of virtual machines in public cloud. Journal of Supercomputing, 2019, 75, 5848-5865.	3.6	19
66	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.	2.2	19
67	A New Algorithm for High Power Node Multicasting in Wireless Sensor Networks. IEEE Access, 2019, 7, 38584-38592.	4.2	19
68	On the Stabilizability for a Class of Linear Time-Invariant Systems Under Uncertainty. Circuits, Systems, and Signal Processing, 2020, 39, 919-960.	2.0	17
69	Solving 0â€"1 Knapsack Problems by Binary Dragonfly Algorithm. Lecture Notes in Computer Science, 2017, , 491-502.	1.3	16
70	Resource levelling problem in construction projects under neutrosophic environment. Journal of Supercomputing, 2020, 76, 964-988.	3.6	15
71	A comparative study of cuckoo search and flower pollination algorithm on solving global optimization problems. Library Hi Tech, 2017, 35, 588-601.	5.1	12
72	An Improved Binary Grey-Wolf Optimizer With Simulated Annealing for Feature Selection. IEEE Access, 2021, 9, 139792-139822.	4.2	12

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73	Heuristic Search Based Localization in Mobile Computational Grid. IEEE Access, 2019, 7, 78652-78664.	4.2	11
74	A Novel Single Valued Neutrosophic Hesitant Fuzzy Time Series Model: Applications in Indonesian and Argentinian Stock Index Forecasting. IEEE Access, 2020, 8, 60126-60141.	4.2	10
75	A modified hybrid whale optimization algorithm for the scheduling problem in multimedia data objects. Concurrency Computation Practice and Experience, 2020, 32, e5137.	2.2	9
76	Hybrid Computational Intelligence Algorithm for Autonomous Handling of COVID-19 Pandemic Emergency in Smart Cities. Sustainable Cities and Society, 2022, 76, 103430.	10.4	7
77	Decision Making Methods for Evaluation of Efficiency of General Insurance Companies in Malaysia: A Comparative Study. IEEE Access, 2019, 7, 160637-160649.	4.2	6
78	Grid quorumâ€based spatial coverage in mobile wireless sensor networks using natureâ€inspired firefly algorithm. Expert Systems, 2019, 36, e12421.	4.5	4
79	Some appraisal criteria for multi-mode scheduling problem. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1641-1654.	4.9	2
80	Special issue on â€œApplications of neutrosophic theory in decision making-recent advances and future trendsâ€. Complex & Intelligent Systems, 2019, 5, 363-364.	6.5	0
81	Special issue on recent advances in intelligent algorithms and its applications. Concurrency Computation Practice and Experience, 2020, 32, e5417.	2.2	0