Mohamed Abdel-Basset

List of Publications by Citations

82 papers	3,487 citations	38 h-index	56 g-index
88 ext. papers	4,591 ext. citations	4.6 avg, IF	6.76 L-index

#	Paper	IF	Citations
82	Internet of Things (IoT) and its impact on supply chain: A framework for building smart, secure and efficient systems. *Future Generation Computer Systems*, **2018**, 86, 614-628	7.5	200
81	A hybrid whale optimization algorithm based on local search strategy for the permutation flow shop scheduling problem. *Future Generation Computer Systems*, **2018**, 85, 129-145	7.5	182
80	A hybrid approach of neutrosophic sets and DEMATEL method for developing supplier selection criteria. *Design Automation for Embedded Systems*, **2018**, 22, 257-278	0.6	122
79	A new fusion of grey wolf optimizer algorithm with a two-phase mutation for feature selection. *Expert Systems With Applications*, **2020**, 139, 112824	7.8	117
78	Internet of things in smart education environment: Supportive framework in the decision-making process. *Concurrency Computation Practice and Experience*, **2019**, 31, e4515	1.4	112
77	NMCDA: A framework for evaluating cloud computing services. *Future Generation Computer Systems*, **2018**, 86, 12-29	7.5	95
76	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	7.5	93
75	Flower pollination algorithm: a comprehensive review. *Artificial Intelligence Review*, **2019**, 52, 2533-2557	9.7	87
74	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	7.5	83
73	A novel plithogenic TOPSIS- CRITIC model for sustainable supply chain risk management. *Journal of Cleaner Production*, **2020**, 247, 119586	10.3	76
72	An Extension of Neutrosophic AHP–SWOT Analysis for Strategic Planning and Decision-Making. *Symmetry*, **2018**, 10, 116	2.7	75
71	An intelligent framework using disruptive technologies for COVID-19 analysis. *Technological Forecasting and Social Change*, **2021**, 163, 120431	9.5	75
70	A Hybrid Artificial Intelligence and Internet of Things Model for Generation of Renewable Resource of Energy. *IEEE Access*, **2019**, 7, 111181-111191	3.5	70
69	Multi-criteria group decision making based on neutrosophic analytic hierarchy process. *Journal of Intelligent and Fuzzy Systems*, **2017**, 33, 4055-4066	1.6	66
68	Towards an efficient risk assessment in software projects–Fuzzy reinforcement paradigm. *Computers and Electrical Engineering*, **2018**, 71, 833-846	4.3	63
67	Cosine similarity measures of bipolar neutrosophic set for diagnosis of bipolar disorder diseases. *Artificial Intelligence in Medicine*, **2019**, 101, 101735	7.4	62
66	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	3.5	59

65	A hybrid neutrosophic multiple criteria group decision making approach for project selection. *Cognitive Systems Research*, **2019**, 57, 216-227	4.8	59
64	A Novel and Comprehensive Trust Estimation Clustering Based Approach for Large Scale Wireless Sensor Networks. *IEEE Access*, **2019**, 7, 58221-58240	3.5	54
63	. *IEEE Access*, **2019**, 7, 59559-59574	3.5	54
62	Neutrosophic Association Rule Mining Algorithm for Big Data Analysis. *Symmetry*, **2018**, 10, 106	2.7	52
61	A Group Decision Making Framework Based on Neutrosophic TOPSIS Approach for Smart Medical Device Selection. *Journal of Medical Systems*, **2019**, 43, 38	5.1	52
60	. *IEEE Access*, **2019**, 7, 61840-61855	3.5	51
59	Sarcasm Detection Using Soft Attention-Based Bidirectional Long Short-Term Memory Model With Convolution Network. *IEEE Access*, **2019**, 7, 23319-23328	3.5	50
58	A Hybrid Neutrosophic Group ANP-TOPSIS Framework for Supplier Selection Problems. *Symmetry*, **2018**, 10, 226	2.7	49
57	Neutrosophic AHP-Delphi Group decision making model based on trapezoidal neutrosophic numbers. *Journal of Ambient Intelligence and Humanized Computing*, **2018**, 9, 1427-1443	3.7	48
56	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	1.6	47
55	A novel method for solving the fully neutrosophic linear programming problems. *Neural Computing and Applications*, **2019**, 31, 1595-1605	4.8	47
54	A simplex method-based social spider optimization algorithm for clustering analysis. *Engineering Applications of Artificial Intelligence*, **2017**, 64, 67-82	7.2	46
53	An improved Lévy based whale optimization algorithm for bandwidth-efficient virtual machine placement in cloud computing environment. *Cluster Computing*, **2019**, 22, 8319-8334	2.1	44
52	Feature and Intensity Based Medical Image Registration Using Particle Swarm Optimization. *Journal of Medical Systems*, **2017**, 41, 197	5.1	42
51	An improved nature inspired meta-heuristic algorithm for 1-D bin packing problems. *Personal and Ubiquitous Computing*, **2018**, 22, 1117-1132	2.1	40
50	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	7.5	39
49	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	3.8	38
48	A hybrid Harris Hawks optimization algorithm with simulated annealing for feature selection. *Artificial Intelligence Review*, **2021**, 54, 593-637	9.7	38

47	Evaluation framework for smart disaster response systems in uncertainty environment. *Mechanical Systems and Signal Processing*, **2020**, 145, 106941	7.8	36
46	Utilising neutrosophic theory to solve transition difficulties of IoT-based enterprises. *Enterprise Information Systems*, **2020**, 14, 1304-1324	3.5	34
45	A novel group decision-making model based on triangular neutrosophic numbers. *Soft Computing*, **2018**, 22, 6629-6643	3.5	33
44	A novel equilibrium optimization algorithm for multi-thresholding image segmentation problems. *Neural Computing and Applications*, **2020**, 33, 10685	4.8	32
43	A novel group decision making model based on neutrosophic sets for heart disease diagnosis. *Multimedia Tools and Applications*, **2020**, 79, 9977-10002	2.5	31
42	A comprehensive study of cuckoo-inspired algorithms. *Neural Computing and Applications*, **2018**, 29, 345-361	4.8	30
41	A novel model for evaluation Hospital medical care systems based on plithogenic sets. *Artificial Intelligence in Medicine*, **2019**, 100, 101710	7.4	29
40	Assessment of Code Smell for Predicting Class Change Proneness Using Machine Learning. *IEEE Access*, **2019**, 7, 37414-37425	3.5	27
39	Linguistic Approaches to Interval Complex Neutrosophic Sets in Decision Making. *IEEE Access*, **2019**, 7, 38902-38917	3.5	25
38	2-Levels of clustering strategy to detect and locate copy-move forgery in digital images. *Multimedia Tools and Applications*, **2020**, 79, 5419-5437	2.5	25
37	A comprehensive review of quadratic assignment problem: variants, hybrids and applications. *Journal of Ambient Intelligence and Humanized Computing*, **2018**, 1	3.7	24
36	Krill herd algorithm based on cuckoo search for solving engineering optimization problems. *Multimedia Tools and Applications*, **2019**, 78, 3861-3884	2.5	24
35	A model for evaluating green credit rating and its impact on sustainability performance. *Journal of Cleaner Production*, **2021**, 280, 124299	10.3	24
34	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	6.4	23
33	A Novel Whale Optimization Algorithm for Cryptanalysis in Merkle-Hellman Cryptosystem. *Mobile Networks and Applications*, **2018**, 23, 723-733	2.9	22
32	A Hybrid Plithogenic Decision-Making Approach with Quality Function Deployment for Selecting Supply Chain Sustainability Metrics. *Symmetry*, **2019**, 11, 903	2.7	22
31	PTZ-Surveillance coverage based on artificial intelligence for smart cities. *International Journal of Information Management*, **2019**, 49, 520-532	16.4	21
30	A modified flower pollination algorithm for the multidimensional knapsack problem: human-centric decision making. *Soft Computing*, **2018**, 22, 4221-4239	3.5	21

29	A neutrosophic theory based security approach for fog and mobile-edge computing. *Computer Networks*, **2019**, 157, 122-132	5.4	20
28	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	3.5	20
27	A Refined Approach for Forecasting Based on Neutrosophic Time Series. *Symmetry*, **2019**, 11, 457	2.7	20
26	. *IEEE Intelligent Systems*, **2020**, 35, 6-17	4.2	18
25	Solving 0–1 knapsack problem by binary flower pollination algorithm. *Neural Computing and Applications*, **2019**, 31, 5477-5495	4.8	17
24	Internet of Spatial Things: A New Reference Model With Insight Analysis. *IEEE Access*, **2019**, 7, 19653-19669	3.5	16
23	An integrated neutrosophic AHP and SWOT method for strategic planning methodology selection. *Benchmarking*, **2018**, 25, 2546-2564	4	16
22	Towards a Reuse Strategic Decision Pattern Framework From Theories to Practices. *Information Systems Frontiers*, **2019**, 21, 27-44	4	15
21	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	10.2	14
20	On the Stabilizability for a Class of Linear Time-Invariant Systems Under Uncertainty. *Circuits, Systems, and Signal Processing*, **2020**, 39, 919-960	2.2	14
19	A Bipolar Neutrosophic Multi Criteria Decision Making Framework for Professional Selection. *Applied Sciences (Switzerland)*, **2020**, 10, 1202	2.6	13
18	Uncertainty assessments of linear time-cost tradeoffs using neutrosophic set. *Computers and Industrial Engineering*, **2020**, 141, 106286	6.4	13
17	Grid quorum-based spatial coverage for IoT smart agriculture monitoring using enhanced multi-verse optimizer. *Neural Computing and Applications*, **2020**, 32, 607-624	4.8	13
16	Novel probabilistic resource migration algorithm for cross-cloud live migration of virtual machines in public cloud. *Journal of Supercomputing*, **2019**, 75, 5848-5865	2.5	12
15	A New Algorithm for High Power Node Multicasting in Wireless Sensor Networks. *IEEE Access*, **2019**, 7, 38584-38592	3.5	12
14	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	16.7	9
13	Solving 0–1 Knapsack Problems by Binary Dragonfly Algorithm. *Lecture Notes in Computer Science*, **2017**, 491-502	0.9	9
12	Resource levelling problem in construction projects under neutrosophic environment. *Journal of Supercomputing*, **2020**, 76, 964-988	2.5	9

11	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	2.7	8
10	Link-Disjoint Multipath Routing for Network Traffic Overload Handling in Mobile Ad-hoc Networks. *IEEE Access*, **2019**, 7, 143312-143323	3.5	8
9	Heuristic Search Based Localization in Mobile Computational Grid. *IEEE Access*, **2019**, 7, 78652-78664	3.5	7
8	A comparative study of cuckoo search and flower pollination algorithm on solving global optimization problems. *Library Hi Tech*, **2017**, 35, 588-601	1.5	7
7	A Novel Single Valued Neutrosophic Hesitant Fuzzy Time Series Model: Applications in Indonesian and Argentinian Stock Index Forecasting. *IEEE Access*, **2020**, 8, 60126-60141	3.5	4
6	A modified hybrid whale optimization algorithm for the scheduling problem in multimedia data objects. *Concurrency Computation Practice and Experience*, **2020**, 32, e5137	1.4	4
5	Grid quorum-based spatial coverage in mobile wireless sensor networks using nature-inspired firefly algorithm. *Expert Systems*, **2019**, 36, e12421	2.1	3
4	. *IEEE Access*, **2021**, 9, 139792-139822	3.5	3
3	Hybrid Computational Intelligence Algorithm for Autonomous Handling of COVID-19 Pandemic Emergency in Smart Cities. *Sustainable Cities and Society*, **2022**, 76, 103430	10.1	2
2	Some appraisal criteria for multi-mode scheduling problem. *Journal of Ambient Intelligence and Humanized Computing*, **2019**, 10, 1641-1654	3.7	2
1	Decision Making Methods for Evaluation of Efficiency of General Insurance Companies in Malaysia: A Comparative Study. *IEEE Access*, **2019**, 7, 160637-160649	3.5	1