Xinwang Liu

List of Publications by Year
in descending order

94 papers	3,743 citations	159525 30 h-index	133188 59 g-index
94 all docs	94 docs citations	94 times ranked	1923 citing authors

#	Article	IF	Citations
1	An extended TODIM multi-criteria group decision making method for green supplier selection in interval type-2 fuzzy environment. European Journal of Operational Research, 2017, 258, 626-638.	3.5	505
2	Intuitionistic Fuzzy Information Aggregation Using Einstein Operations. IEEE Transactions on Fuzzy Systems, 2012, 20, 923-938.	6.5	317
3	Intuitionistic fuzzy geometric aggregation operators based on einstein operations. International Journal of Intelligent Systems, 2011, 26, 1049-1075.	3.3	286
4	An interval type-2 fuzzy TOPSIS model for large scale group decision making problems with social network information. Information Sciences, 2018, 432, 392-410.	4.0	176
5	Simplified Interval Type-2 Fuzzy Logic Systems. IEEE Transactions on Fuzzy Systems, 2013, 21, 1056-1069.	6.5	175
6	An extended VIKOR method based on prospect theory for multiple attribute decision making under interval type-2 fuzzy environment. Knowledge-Based Systems, 2015, 86, 116-130.	4.0	163
7	A risk evaluation and prioritization method for FMEA with prospect theory and Choquet integral. Safety Science, 2018, 110, 152-163.	2.6	127
8	Multi-attribute group decision making using combined ranking value under interval type-2 fuzzy environment. Information Sciences, 2015, 297, 293-315.	4.0	119
9	A two-stage social trust network partition model for large-scale group decision-making problems. Knowledge-Based Systems, 2019, 163, 632-643.	4.0	114
10	An approach to intuitionistic fuzzy multiple attribute decision making based on Maclaurin symmetric mean operators. Journal of Intelligent and Fuzzy Systems, 2014, 27, 2177-2190.	0.8	112
11	Social network community analysis based large-scale group decision making approach with incomplete fuzzy preference relations. Information Fusion, 2020, 60, 98-120.	11.7	108
12	Some properties of the weighted OWA operator. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 118-127.	5.5	86
13	An interval type-2 fuzzy clustering solution for large-scale multiple-criteria group decision-making problems. Knowledge-Based Systems, 2016, 114, 118-127.	4.0	80
14	A multiple attribute interval type-2 fuzzy group decision making and its application to supplier selection with extended LINMAP method. Soft Computing, 2017, 21, 3207-3226.	2.1	65
15	A fuzzy Fine-Kinney-based risk evaluation approach with extended MULTIMOORA method based on Choquet integral. Computers and Industrial Engineering, 2018, 125, 111-123.	3.4	65
16	A linguistic solution for double large-scale group decision-making in E-commerce. Computers and Industrial Engineering, 2018, 116, 97-112.	3.4	60
17	Hesitant Fuzzy Maclaurin Symmetric Mean Operators and Its Application to Multiple-Attribute Decision Making. International Journal of Fuzzy Systems, 2015, 17, 509-520.	2.3	57
18	Interval-valued intuitionistic fuzzy hybrid weighted averaging operator based on Einstein operation and its application to decision making. Journal of Intelligent and Fuzzy Systems, 2013, 25, 279-290.	0.8	52

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19	A modified HEART method with FANP for human error assessment in high-speed railway dispatching tasks. International Journal of Industrial Ergonomics, 2018, 67, 242-258.	1.5	50
20	Consensus evolution networks: A consensus reaching tool for managing consensus thresholds in group decision making. Information Fusion, 2019, 52, 375-388.	11.7	50
21	Interval-valued intuitionistic fuzzy aggregation operators. Journal of Systems Engineering and Electronics, 2012, 23, 574-580.	1.1	47
22	An extended generalized TODIM for risk evaluation and prioritization of failure modes considering risk indicators interaction. IISE Transactions, 2019, 51, 1236-1250.	1.6	44
23	Balance Dynamic Clustering Analysis and Consensus Reaching Process With Consensus Evolution Networks in Large-Scale Group Decision Making. IEEE Transactions on Fuzzy Systems, 2021, 29, 357-371.	6.5	40
24	An interval 2-Tuple linguistic Fine-Kinney model for risk analysis based on extended ORESTE method with cumulative prospect theory. Information Fusion, 2022, 78, 40-56.	11.7	40
25	Assessing contributory factors in potential systemic accidents using AcciMap and integrated fuzzy ISM - MICMAC approach. International Journal of Industrial Ergonomics, 2018, 68, 311-326.	1.5	39
26	Social network analysis based approach to group decision making problem with fuzzy preference relations. Journal of Intelligent and Fuzzy Systems, 2016, 31, 1271-1285.	0.8	38
27	The minimum cost consensus model considering the implicit trust of opinions similarities in social network group decision-making. International Journal of Intelligent Systems, 2020, 35, 470-493.	3.3	33
28	Failure Mode and Effect Analysis for Machine Tool Risk Analysis Using Extended Gained and Lost Dominance Score Method. IEEE Transactions on Reliability, 2020, 69, 954-967.	3.5	33
29	Three-way group decisions based on prospect theory. Journal of the Operational Research Society, 2018, 69, 25-35.	2.1	32
30	Multi-attribute group decision making based on Choquet integral under interval-valued intuitionistic fuzzy environment. International Journal of Computational Intelligence Systems, 2016, 9, 133.	1.6	30
31	A hybrid risk prioritization method based on generalized TODIM and BWM for Fine-Kinney under interval type-2 fuzzy environment. Human and Ecological Risk Assessment (HERA), 2021, 27, 954-979.	1.7	30
32	An Extended FMEA Model Based on Cumulative Prospect Theory and Type-2 Intuitionistic Fuzzy VIKOR for the Railway Train Risk Prioritization. Entropy, 2020, 22, 1418.	1.1	26
33	Dynamic risk assessment of metro station with interval type-2 fuzzy set and TOPSIS method. Journal of Intelligent and Fuzzy Systems, 2015, 29, 93-106.	0.8	25
34	An analytical solution to the TOPSIS model with interval type-2 fuzzy sets. Soft Computing, 2016, 20, 1213-1230.	2.1	24
35	Trapezoidal Interval Type-2 Fuzzy TOPSIS Using Alpha-Cuts. International Journal of Fuzzy Systems, 2020, 22, 293-309.	2.3	23
36	Parameterized additive neat OWA operators with different orness levels. International Journal of Intelligent Systems, 2006, 21, 1045-1072.	3.3	21

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37	Risk priorization for failure modes with extended MULTIMOORA method under interval type-2 fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2019, 36, 1417-1429.	0.8	21
38	An Extended Interval Type-2 Fuzzy ORESTE Method for Risk Analysis in FMEA. International Journal of Fuzzy Systems, 2021, 23, 1379-1395.	2.3	21
39	An extension approach of TOPSIS method with OWAD operator for multiple criteria decision-making. Granular Computing, 2020, 5, 135-148.	4.4	20
40	Can imported cold food cause COVID-19 recurrent outbreaks? A review. Environmental Chemistry Letters, 2022, 20, 119-129.	8.3	20
41	The solution for fuzzy large-scale group decision making problems combining internal preference information and external social network structures. Soft Computing, 2019, 23, 9025-9043.	2.1	18
42	A New Approach for Occupational Risk Evaluation of Natural Gas Pipeline Construction with Extended Cumulative Prospect Theory. International Journal of Fuzzy Systems, 2021, 23, 158-181.	2.3	18
43	On the methods of decision making under uncertainty with probability information. International Journal of Intelligent Systems, 2004, 19, 1217-1238.	3.3	17
44	On the properties of regular increasing monotone (RIM) quantifiers with maximum entropyâ€â€. International Journal of General Systems, 2008, 37, 167-179.	1.2	17
45	Frank Aggregation Operators for Triangular Interval Type-2 Fuzzy Set and Its Application in Multiple Attribute Group Decision Making. Journal of Applied Mathematics, 2014, 2014, 1-24.	0.4	17
46	New closed-form solutions for Karnik-Mendel algorithm+defuzzification of an interval type-2 fuzzy set. , 2012, , .		16
47	SOME OPERATIONS OVER ATANASSOV'S INTUITIONISTIC FUZZY SETS BASED ON EINSTEIN T-NORM AND T-CONORM. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2013, 21, 263-276.	0.9	16
48	An extended CREAM model based on analytic network process under the typeâ€2 fuzzy environment for human reliability analysis in the highâ€speed train operation. Quality and Reliability Engineering International, 2021, 37, 284-308.	1.4	15
49	AN ANALYTICAL SOLUTION METHOD FOR THE GENERALIZED FUZZY WEIGHTED AVERAGE PROBLEM. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2013, 21, 455-480.	0.9	14
50	A Sample Survey Based Linguistic MADM Method with Prospect Theory for Online Shopping Problems. Group Decision and Negotiation, 2016, 25, 749-774.	2.0	14
51	Behavioral DEA model and its application to the efficiency evaluation of manufacturing transformation and upgrading in the Yangtze River Delta. Soft Computing, 2020, 24, 10721-10738.	2.1	14
52	Preference solutions of probability decision making with rim quantifiers. International Journal of Intelligent Systems, 2005, 20, 1253-1271.	3.3	13
53	On the Stress Function-Based OWA Determination Method With Optimization Criteria. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 246-257.	5.5	13
54	A New Clustering Algorithm With Preference Adjustment Cost to Reduce the Cooperation Complexity in Large-Scale Group Decision Making. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5271-5283.	5.9	13

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55	Some interval-valued intuitionistic fuzzy geometric aggregation operators based on einstein operations. , 2012, , .		11
56	A Quantum Framework for Modeling Interference Effects in Linguistic Distribution Multiple Criteria Group Decision Making. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3492-3507.	5.9	11
57	Trust-Consensus Multiplex Networks by Combining Trust Social Network Analysis and Consensus Evolution Methods in Group Decision-Making. IEEE Transactions on Fuzzy Systems, 2022, 30, 4741-4753.	6.5	11
58	SOME HESITANT FUZZY GEOMETRIC OPERATORS AND THEIR APPLICATION TO MULTIPLE ATTRIBUTE GROUP DECISION MAKING. Technological and Economic Development of Economy, 2014, 20, 371-390.	2.3	10
59	Possibility mean and variation coefficient based ranking methods for type-1 fuzzy numbers and interval type-2 fuzzy numbers. Journal of Intelligent and Fuzzy Systems, 2016, 30, 2157-2168.	0.8	10
60	A likelihoodâ€based ORESTE method for failure mode and effect analysis (FMEA) based risk analysis problem under interval typeâ€2 fuzzy environment. Quality and Reliability Engineering International, 2022, 38, 304-325.	1.4	9
61	A Group Decision Making Approach Based on Newly Defined Additively Consistent Interval-Valued Intuitionistic Preference Relations. International Journal of Fuzzy Systems, 2018, 20, 1027-1046.	2.3	8
62	An extended generalized TODIM method for risk assessment of supply chain in social commerce under interval type-2 fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2019, 37, 8551-8565.	0.8	8
63	Fast and direct Karnik-Mendel algorithm computation for the centroid of an interval type-2 fuzzy set. , 2012, , .		7
64	Managing minority opinions in large-scale group decision making based on community detection and group polarization. Computers and Industrial Engineering, 2022, 170, 108337.	3.4	7
65	An extended three-way decision and its application in member selection. Journal of Intelligent and Fuzzy Systems, 2015, 28, 2095-2106.	0.8	6
66	A prospect theory based approach toÂmultiple attribute decision making considering the decision makerâ€™s attitudinalÂcharacter. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2563-2578.	0.8	5
67	An extended HFACS based risk analysis approach for human error accident with interval type-2 fuzzy sets and prospect theory. Journal of Intelligent and Fuzzy Systems, 2019, 37, 8381-8395.	0.8	5
68	A fuzzy ANP with interval type-2 fuzzy sets approach to evaluate enterprise technological innovation ability. , 2015, , .		4
69	A prospect theory based MADM method for solar water heater selection problems. Journal of Intelligent and Fuzzy Systems, 2017, 32, 1855-1865.	0.8	4
70	Operational risk assessment of railway train based on type-2 intuitionistic fuzzy set and dynamic VIKOR approach. Journal of Transportation Safety and Security, 2021, 13, 1025-1046.	1.1	4
71	A new type-2 fuzzy multi-criteria hybrid method for rail transit operation safety assessment. Applied Soft Computing Journal, 2021, 113, 107927.	4.1	4
72	Parametric Extension of the Most Preferred OWA Operator and Its Application in Search Engine's Rank. Journal of Applied Mathematics, 2013, 2013, 1-10.	0.4	3

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73	PARAMETERIZED 2-TUPLE LINGUISTIC MOST PREFERRED OWA OPERATORS AND THEIR APPLICATION IN DECISION MAKING. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2013, 21, 799-819.	0.9	3
74	Parametric Weighting Function for WOWA Operator and Its Application in Decision Making. International Journal of Intelligent Systems, 2014, 29, 119-136.	3.3	3
75	A commuter departure-time model based on cumulative prospect theory. Mathematical Methods of Operations Research, 2018, 87, 285-307.	0.4	3
76	Granular computing in decision-making. Granular Computing, 2018, 3, 191-192.	4.4	3
77	An interval type-2 fuzzy trust evaluation model in social commerce. Computational Intelligence, 2019, 35, 1113-1131.	2.1	3
78	Behavioral Risky Multiple Attribute Decision Making with Interval Type-2 Fuzzy Ranking Method and TOPSIS Method. International Journal of Information Technology and Decision Making, 2022, 21, 665-705.	2.3	3
79	THE RELATIONSHIPS BETWEEN TWO VARIABILITY AND ORNESS OPTIMIZATION PROBLEMS FOR OWA OPERATOR WITH RIM QUANTIFIER EXTENSIONS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2010, 18, 515-538.	0.9	1
80	Direct centroid computation of fuzzy numbers. , 2012, , .		1
81	Parametric WOWA operator and its application in decision making. , 2013, , .		1
82	Parametric WOWA operator and its application in dynamic decision making. Journal of Intelligent and Fuzzy Systems, 2014, 27, 475-486.	0.8	1
83	A distance based ranking methods for type-1 fuzzy numbers and interval type-2 fuzzy numbers. , 2014, , .		1
84	Approaches to interval type-2 fuzzy multiple attribute group decision making based on grey incidence analysis and FTP utility function. , 2015, , .		1
85	A novel three-way decision based on linguistic evaluation. , 2015, , .		1
86	Two decision making models based on newly defined additively consistent intuitionistic preference relation. , 2015, , .		1
87	A improved algorithm for fuzzy multistage portfolio optimization model. , 2016, , .		1
88	Analytical solution for symmetrical OWA operator determination with given medianness level. , 2011, , .		0
89	Extension of Karnik-Mendel algorithms with uncertainty bound method. , 2012, , .		0
90	A new solution of multiplicative consistency for incomplete fuzzy preference relation for group decision making. , 2013, , .		0

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91	Fuzzy logic based security region evaluation of the urban rail transit operating system. , 2013, , .		0
92	Three new uncertainty bound methods of Karnik-Mendel algorithms. , 2013, , .		0
93	A method for estimating criteria weights from interval-valued intuitionistic fuzzy preference relation. , 2014, , .		0
94	A mathematical programming method for the multiple attribute decision making with interval intuitionistic fuzzy values. , 2014, , .		0