

# Zeshui Xu

## List of Publications by Year in descending order

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546  
papers

42,680  
citations

2322

98  
h-index

2953

189  
g-index

552  
all docs

552  
docs citations

552  
times ranked

7181  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intuitionistic Fuzzy Aggregation Operators. IEEE Transactions on Fuzzy Systems, 2007, 15, 1179-1187.	9.8	2,103
2	Some geometric aggregation operators based on intuitionistic fuzzy sets. International Journal of General Systems, 2006, 35, 417-433.	2.5	1,967
3	Hesitant fuzzy information aggregation in decision making. International Journal of Approximate Reasoning, 2011, 52, 395-407.	3.3	1,331
4	Extension of TOPSIS to Multiple Criteria Decision Making with Pythagorean Fuzzy Sets. International Journal of Intelligent Systems, 2014, 29, 1061-1078.	5.7	1,155
5	Distance and similarity measures for hesitant fuzzy sets. Information Sciences, 2011, 181, 2128-2138.	6.9	957
6	Probabilistic linguistic term sets in multi-attribute group decision making. Information Sciences, 2016, 369, 128-143.	6.9	913
7	A method based on linguistic aggregation operators for group decision making with linguistic preference relations*1. Information Sciences, 2004, 166, 19-30.	6.9	849
8	An overview of methods for determining OWA weights. International Journal of Intelligent Systems, 2005, 20, 843-865.	5.7	685
9	Uncertain linguistic aggregation operators based approach to multiple attribute group decision making under uncertain linguistic environment. Information Sciences, 2004, 168, 171-184.	6.9	684
10	Hesitant fuzzy multi-attribute decision making based on TOPSIS with incomplete weight information. Knowledge-Based Systems, 2013, 52, 53-64.	7.1	530
11	Pythagorean fuzzy TODIM approach to multi-criteria decision making. Applied Soft Computing Journal, 2016, 42, 246-259.	7.2	528
12	Dynamic intuitionistic fuzzy multi-attribute decision making. International Journal of Approximate Reasoning, 2008, 48, 246-262.	3.3	526
13	Distance and similarity measures for hesitant fuzzy linguistic term sets and their application in multi-criteria decision making. Information Sciences, 2014, 271, 125-142.	6.9	503
14	Interval-valued hesitant preference relations and their applications to group decision making. Knowledge-Based Systems, 2013, 37, 528-540.	7.1	455
15	On distance and correlation measures of hesitant fuzzy information. International Journal of Intelligent Systems, 2011, 26, 410-425.	5.7	429
16	Correlation coefficients of hesitant fuzzy sets and their applications to clustering analysis. Applied Mathematical Modelling, 2013, 37, 2197-2211.	4.2	426
17	Consistency Measures for Hesitant Fuzzy Linguistic Preference Relations. IEEE Transactions on Fuzzy Systems, 2014, 22, 35-45.	9.8	407
18	Choquet integrals of weighted intuitionistic fuzzy information. Information Sciences, 2010, 180, 726-736.	6.9	399

#	ARTICLE	IF	CITATIONS
19	Intuitionistic Fuzzy Analytic Hierarchy Process. IEEE Transactions on Fuzzy Systems, 2014, 22, 749-761.	9.8	393
20	A Historical Account of Types of Fuzzy Sets and Their Relationships. IEEE Transactions on Fuzzy Systems, 2016, 24, 179-194.	9.8	384
21	Clustering algorithm for intuitionistic fuzzy sets. Information Sciences, 2008, 178, 3775-3790.	6.9	372
22	Qualitative decision making with correlation coefficients of hesitant fuzzy linguistic term sets. Knowledge-Based Systems, 2015, 76, 127-138.	7.1	372
23	Some similarity measures of intuitionistic fuzzy sets and their applications to multiple attribute decision making. Fuzzy Optimization and Decision Making, 2007, 6, 109-121.	5.5	358
24	Dual Hesitant Fuzzy Sets. Journal of Applied Mathematics, 2012, 2012, 1-13.	0.9	357
25	Intuitionistic Fuzzy Bonferroni Means. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 568-578.	5.0	355
26	Some Hesitant Fuzzy Aggregation Operators with Their Application in Group Decision Making. Group Decision and Negotiation, 2013, 22, 259-279.	3.3	354
27	Hesitant Fuzzy Linguistic VIKOR Method and Its Application in Qualitative Multiple Criteria Decision Making. IEEE Transactions on Fuzzy Systems, 2015, 23, 1343-1355.	9.8	349
28	Novel basic operational laws for linguistic terms, hesitant fuzzy linguistic term sets and probabilistic linguistic term sets. Information Sciences, 2016, 372, 407-427.	6.9	303
29	Power-Geometric Operators and Their Use in Group Decision Making. IEEE Transactions on Fuzzy Systems, 2010, 18, 94-105.	9.8	284
30	Probabilistic Linguistic MULTIMOORA: A Multicriteria Decision Making Method Based on the Probabilistic Linguistic Expectation Function and the Improved Borda Rule. IEEE Transactions on Fuzzy Systems, 2018, 26, 3688-3702.	9.8	283
31	Intuitionistic and interval-valued intuitionistic fuzzy preference relations and their measures of similarity for the evaluation of agreement within a group. Fuzzy Optimization and Decision Making, 2009, 8, 123-139.	5.5	275
32	Induced generalized intuitionistic fuzzy operators. Knowledge-Based Systems, 2011, 24, 197-209.	7.1	275
33	A VIKOR-based method for hesitant fuzzy multi-criteria decision making. Fuzzy Optimization and Decision Making, 2013, 12, 373-392.	5.5	271
34	Double hierarchy hesitant fuzzy linguistic term set and MULTIMOORA method: A case of study to evaluate the implementation status of haze controlling measures. Information Fusion, 2017, 38, 22-34.	19.1	270
35	Hesitant fuzzy entropy and cross-entropy and their use in multiattribute decision-making. International Journal of Intelligent Systems, 2012, 27, 799-822.	5.7	262
36	Entropy/cross entropy-based group decision making under intuitionistic fuzzy environment. Information Fusion, 2012, 13, 31-47.	19.1	259

#	ARTICLE	IF	CITATIONS
37	Some issues on intuitionistic fuzzy aggregation operators based on Archimedean t-conorm and t-norm. Knowledge-Based Systems, 2012, 31, 78-88.	7.1	248
38	Approaches to manage hesitant fuzzy linguistic information based on the cosine distance and similarity measures for HFLTSS and their application in qualitative decision making. Expert Systems With Applications, 2015, 42, 5328-5336.	7.6	246
39	A survey of preference relations. International Journal of General Systems, 2007, 36, 179-203.	2.5	242
40	Method for three-way decisions using ideal TOPSIS solutions at Pythagorean fuzzy information. Information Sciences, 2018, 435, 282-295.	6.9	240
41	A method based on distance measure for interval-valued intuitionistic fuzzy group decision making. Information Sciences, 2010, 180, 181-190.	6.9	226
42	Symmetric Pythagorean Fuzzy Weighted Geometric/Averaging Operators and Their Application in Multicriteria Decision-Making Problems. International Journal of Intelligent Systems, 2016, 31, 1198-1219.	5.7	221
43	Emergency decision making for natural disasters: An overview. International Journal of Disaster Risk Reduction, 2018, 27, 567-576.	3.9	221
44	On Compatibility of Interval Fuzzy Preference Relations. Fuzzy Optimization and Decision Making, 2004, 3, 217-225.	5.5	219
45	MULTIPLICATIVE CONSISTENCY OF HESITANT FUZZY PREFERENCE RELATION AND ITS APPLICATION IN GROUP DECISION MAKING. International Journal of Information Technology and Decision Making, 2014, 13, 47-76.	3.9	219
46	PROJECTION MODELS FOR INTUITIONISTIC FUZZY MULTIPLE ATTRIBUTE DECISION MAKING. International Journal of Information Technology and Decision Making, 2010, 09, 267-280.	3.9	216
47	Consensus building with a group of decision makers under the hesitant probabilistic fuzzy environment. Fuzzy Optimization and Decision Making, 2017, 16, 481-503.	5.5	209
48	The TODIM analysis approach based on novel measured functions under hesitant fuzzy environment. Knowledge-Based Systems, 2014, 61, 48-58.	7.1	203
49	The Properties of Continuous Pythagorean Fuzzy Information. International Journal of Intelligent Systems, 2016, 31, 401-424.	5.7	200
50	Hesitant fuzzy linguistic entropy and cross-entropy measures and alternative queuing method for multiple criteria decision making. Information Sciences, 2017, 388-389, 225-246.	6.9	200
51	An extended intuitionistic fuzzy TOPSIS method based on a new distance measure with an application to credit risk evaluation. Information Sciences, 2018, 428, 105-119.	6.9	200
52	Preference Relations Based on Intuitionistic Multiplicative Information. IEEE Transactions on Fuzzy Systems, 2013, 21, 113-133.	9.8	192
53	Towards felicitous decision making: An overview on challenges and trends of Big Data. Information Sciences, 2016, 367-368, 747-765.	6.9	190
54	Hesitant Fuzzy Linguistic Term Set and Its Application in Decision Making: A State-of-the-Art Survey. International Journal of Fuzzy Systems, 2018, 20, 2084-2110.	4.0	189

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55	Multi-attribute group decision-making under probabilistic uncertain linguistic environment. Journal of the Operational Research Society, 2018, 69, 157-170.	3.4	188
56	Consensus reaching process for large-scale group decision making with double hierarchy hesitant fuzzy linguistic preference relations. Knowledge-Based Systems, 2018, 157, 20-33.	7.1	186
57	A consensus process for group decision making with probabilistic linguistic preference relations. Information Sciences, 2017, 414, 260-275.	6.9	185
58	A Note on Linguistic Hybrid Arithmetic Averaging Operator in Multiple Attribute Group Decision Making with Linguistic Information. Group Decision and Negotiation, 2006, 15, 593-604.	3.3	183
59	Information fusion for intuitionistic fuzzy decision making: An overview. Information Fusion, 2016, 28, 10-23.	19.1	182
60	MULTIMOORA based MCDM model for site selection of car sharing station under picture fuzzy environment. Sustainable Cities and Society, 2020, 53, 101873.	10.4	175
61	Operations and integrations of probabilistic hesitant fuzzy information in decision making. Information Fusion, 2017, 38, 1-11.	19.1	172
62	Deriving a Ranking From Hesitant Fuzzy Preference Relations Under Group Decision Making. IEEE Transactions on Cybernetics, 2014, 44, 1328-1337.	9.5	167
63	A linear programming method for multiple criteria decision making with probabilistic linguistic information. Information Sciences, 2017, 415-416, 341-355.	6.9	167
64	Priorities of Intuitionistic Fuzzy Preference Relation Based on Multiplicative Consistency. IEEE Transactions on Fuzzy Systems, 2014, 22, 1669-1681.	9.8	166
65	On the syntax and semantics of virtual linguistic terms for information fusion in decision making. Information Fusion, 2017, 34, 43-48.	19.1	165
66	Information sciences 1968â€“2016: A retrospective analysis with text mining and bibliometric. Information Sciences, 2017, 418-419, 619-634.	6.9	163
67	Multiple criteria decision making based on Bonferroni means with hesitant fuzzy linguistic information. Soft Computing, 2017, 21, 6515-6529.	3.6	159
68	Novel correlation coefficients between hesitant fuzzy sets and their application in decision making. Knowledge-Based Systems, 2015, 82, 115-127.	7.1	152
69	Managing multi-granularity linguistic information in qualitative group decision making: an overview. Granular Computing, 2016, 1, 21-35.	8.0	152
70	A survey of decision-making methods with probabilistic linguistic information: bibliometrics, preliminaries, methodologies, applications and future directions. Fuzzy Optimization and Decision Making, 2020, 19, 81-134.	5.5	152
71	Multi-person multi-attribute decision making models under intuitionistic fuzzy environment. Fuzzy Optimization and Decision Making, 2007, 6, 221-236.	5.5	151
72	Probabilistic dual hesitant fuzzy set and its application in risk evaluation. Knowledge-Based Systems, 2017, 127, 16-28.	7.1	148

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73	A Deviation-Based Approach to Intuitionistic Fuzzy Multiple Attribute Group Decision Making. Group Decision and Negotiation, 2010, 19, 57-76.	3.3	146
74	Hesitant fuzzy ELECTRE II approach: A new way to handle multi-criteria decision making problems. Information Sciences, 2015, 292, 175-197.	6.9	146
75	On Geometric Aggregation over Interval-Valued Intuitionistic Fuzzy Information. , 2007, , .		143
76	Analytic hierarchy process-hesitant group decision making. European Journal of Operational Research, 2014, 239, 794-801.	5.7	143
77	ELECTRE II method to deal with probabilistic linguistic term sets and its application to edge computing. Nonlinear Dynamics, 2019, 96, 2125-2143.	5.2	143
78	A survey of approaches to decision making with intuitionistic fuzzy preference relations. Knowledge-Based Systems, 2015, 80, 131-142.	7.1	138
79	Evaluating IoT Platforms Using Integrated Probabilistic Linguistic MCDM Method. IEEE Internet of Things Journal, 2020, 7, 11195-11208.	8.7	137
80	Generalized intuitionistic fuzzy Bonferroni means. International Journal of Intelligent Systems, 2012, 27, 23-47.	5.7	134
81	Two new approaches based on ELECTRE II to solve the multiple criteria decision making problems with hesitant fuzzy linguistic term sets. Applied Soft Computing Journal, 2018, 63, 223-234.	7.2	130
82	Multi-criteria decision making with intuitionistic fuzzy PROMETHEE. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1703-1717.	1.4	129
83	Pythagorean Fuzzy LINMAP Method Based on the Entropy Theory for Railway Project Investment Decision Making. International Journal of Intelligent Systems, 2018, 33, 93-125.	5.7	127
84	Score function based on concentration degree for probabilistic linguistic term sets: An application to TOPSIS and VIKOR. Information Sciences, 2021, 551, 270-290.	6.9	126
85	Probabilistic double hierarchy linguistic term set and its use in designing an improved VIKOR method: The application in smart healthcare. Journal of the Operational Research Society, 2021, 72, 2611-2630.	3.4	125
86	Recent advances in intuitionistic fuzzy information aggregation. Fuzzy Optimization and Decision Making, 2010, 9, 359-381.	5.5	124
87	Pythagorean fuzzy VIKOR approaches based on TODIM for evaluating internet banking website quality of Ghanaian banking industry. Applied Soft Computing Journal, 2019, 78, 583-594.	7.2	124
88	Pythagorean fuzzy MULTIMOORA method based on distance measure and score function: its application in multicriteria decision making process. Knowledge and Information Systems, 2020, 62, 4373-4406.	3.2	121
89	Analysis of Collaboration Evolution in AHP Research: 1982â€“2018. International Journal of Information Technology and Decision Making, 2021, 20, 7-36.	3.9	120
90	Hesitant Fuzzy Sets Theory. Studies in Fuzziness and Soft Computing, 2014, , .	0.8	118

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91	Projection Model for Fusing the Information of Pythagorean Fuzzy Multicriteria Group Decision Making Based on Geometric Bonferroni Mean. <i>International Journal of Intelligent Systems</i> , 2017, 32, 966-987.	5.7	117
92	Ordered weighted distance measure. <i>Journal of Systems Science and Systems Engineering</i> , 2008, 17, 432-445.	1.6	113
93	An Interactive Approach to Multiple Attribute Group Decision Making with Multigranular Uncertain Linguistic Information. <i>Group Decision and Negotiation</i> , 2009, 18, 119-145.	3.3	113
94	Framework of Group Decision Making With Intuitionistic Fuzzy Preference Information. <i>IEEE Transactions on Fuzzy Systems</i> , 2015, 23, 1211-1227.	9.8	112
95	An enhanced consensus reaching process in group decision making with intuitionistic fuzzy preference relations. <i>Information Sciences</i> , 2016, 329, 274-286.	6.9	110
96	Subtraction and division operations over hesitant fuzzy sets. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014, 27, 65-72.	1.4	107
97	Fuzzy harmonic mean operators. <i>International Journal of Intelligent Systems</i> , 2009, 24, 152-172.	5.7	106
98	Consensus Model Handling Minority Opinions and Noncooperative Behaviors in Large-Scale Group Decision-Making Under Double Hierarchy Linguistic Preference Relations. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 283-296.	9.5	105
99	Multiple-Attribute Group Decision Making With Different Formats of Preference Information on Attributes. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007, 37, 1500-1511.	5.0	104
100	Hesitant fuzzy linguistic term sets for linguistic decision making: Current developments, issues and challenges. <i>Information Fusion</i> , 2018, 43, 1-12.	19.1	104
101	Some consistency measures of extended hesitant fuzzy linguistic preference relations. <i>Information Sciences</i> , 2015, 297, 316-331.	6.9	102
102	Heterogeneous multiple criteria group decision making with incomplete weight information: A deviation modeling approach. <i>Information Fusion</i> , 2015, 25, 49-62.	19.1	98
103	Bibliometric analysis of fuzzy theory research in China: A 30-year perspective. <i>Knowledge-Based Systems</i> , 2018, 141, 188-199.	7.1	98
104	Expected consistency-based emergency decision making with incomplete probabilistic linguistic preference relations. <i>Knowledge-Based Systems</i> , 2019, 176, 15-28.	7.1	98
105	Hesitant fuzzy QUALIFLEX approach with a signed distance-based comparison method for multiple criteria decision analysis. <i>Expert Systems With Applications</i> , 2015, 42, 873-884.	7.6	97
106	Pythagorean fuzzy Bonferroni mean aggregation operator and its accelerative calculating algorithm with the multithreading. <i>International Journal of Intelligent Systems</i> , 2018, 33, 615-633.	5.7	94
107	Enhancing PROMETHEE method with intuitionistic fuzzy soft sets. <i>International Journal of Intelligent Systems</i> , 2020, 35, 1071-1104.	5.7	94
108	Intuitionistic Fuzzy Multiattribute Decision Making: An Interactive Method. <i>IEEE Transactions on Fuzzy Systems</i> , 2012, 20, 514-525.	9.8	92

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109	On generalized induced linguistic aggregation operators. <i>International Journal of General Systems</i> , 2006, 35, 17-28.	2.5	91
110	Algorithms for estimating missing elements of incomplete intuitionistic preference relations. <i>International Journal of Intelligent Systems</i> , 2011, 26, 787-813.	5.7	91
111	Multiple criteria decision making based on distance and similarity measures under double hierarchy hesitant fuzzy linguistic environment. <i>Computers and Industrial Engineering</i> , 2018, 126, 516-530.	6.3	90
112	On Method for Uncertain Multiple Attribute Decision Making Problems with Uncertain Multiplicative Preference Information on Alternatives. <i>Fuzzy Optimization and Decision Making</i> , 2005, 4, 131-139.	5.5	88
113	An Approach to Improving Consistency of Fuzzy Preference Matrix. <i>Fuzzy Optimization and Decision Making</i> , 2003, 2, 3-12.	5.5	86
114	Group consistency and group decision making under uncertain probabilistic hesitant fuzzy preference environment. <i>Information Sciences</i> , 2017, 414, 276-288.	6.9	85
115	An overview of interval-valued intuitionistic fuzzy information aggregations and applications. <i>Granular Computing</i> , 2017, 2, 13-39.	8.0	84
116	A Dynamic Weight Determination Approach Based on the Intuitionistic Fuzzy Bayesian Network and Its Application to Emergency Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 1893-1907.	9.8	83
117	A multi-criteria decision making procedure based on interval-valued intuitionistic fuzzy bonferroni means. <i>Journal of Systems Science and Systems Engineering</i> , 2011, 20, 217-228.	1.6	82
118	Incomplete interval-valued intuitionistic fuzzy preference relations. <i>International Journal of General Systems</i> , 2009, 38, 871-886.	2.5	81
119	Probabilistic linguistic vector-term set and its application in group decision making with multi-granular linguistic information. <i>Applied Soft Computing Journal</i> , 2016, 49, 801-816.	7.2	81
120	Some new similarity measures for intuitionistic fuzzy values and their application in group decision making. <i>Journal of Systems Science and Systems Engineering</i> , 2010, 19, 430-452.	1.6	79
121	Probability Calculation and Element Optimization of Probabilistic Hesitant Fuzzy Preference Relations Based on Expected Consistency. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 1367-1378.	9.8	79
122	Some results for dual hesitant fuzzy sets. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014, 26, 1657-1668.	1.4	78
123	A Procedure for Decision Making Based on Incomplete Fuzzy Preference Relation. <i>Fuzzy Optimization and Decision Making</i> , 2005, 4, 175-189.	5.5	76
124	Water security evaluation based on the TODIM method with probabilistic linguistic term sets. <i>Soft Computing</i> , 2019, 23, 6215-6230.	3.6	76
125	TODIM-based multi-criteria decision-making method with hesitant fuzzy linguistic term sets. <i>Artificial Intelligence Review</i> , 2020, 53, 3647-3671.	15.7	76
126	Some new hybrid weighted aggregation operators under hesitant fuzzy multi-criteria decision making environment. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014, 26, 1601-1617.	1.4	75



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127	The ELECTRE I Multi-Criteria Decision-Making Method Based on Hesitant Fuzzy Sets. International Journal of Information Technology and Decision Making, 2015, 14, 621-657.	3.9	75
128	Intuitionistic Fuzzy Information Aggregation. , 2012, , .		74
129	Hesitant Fuzzy Thermodynamic Method for Emergency Decision Making Based on Prospect Theory. IEEE Transactions on Cybernetics, 2017, 47, 2531-2543.	9.5	74
130	A bibliometric analysis of Economic Research-Ekonomska IstraÅ¾ivanja (2007â€“2019). Economic Research-Ekonomska Istrazivanja, 2020, 33, 865-886.	4.7	74
131	PROBABILITY-HESITANT FUZZY SETS AND THE REPRESENTATION OF PREFERENCE RELATIONS. Technological and Economic Development of Economy, 2018, 24, 1029-1040.	4.6	74
132	AN APPROACH TO GROUP DECISION MAKING BASED ON INCOMPLETE LINGUISTIC PREFERENCE RELATIONS. International Journal of Information Technology and Decision Making, 2005, 04, 153-160.	3.9	73
133	A netting clustering analysis method under intuitionistic fuzzy environment. Applied Soft Computing Journal, 2011, 11, 5558-5564.	7.2	72
134	Measures of Probabilistic Interval-Valued Intuitionistic Hesitant Fuzzy Sets and the Application in Reducing Excessive Medical Examinations. IEEE Transactions on Fuzzy Systems, 2018, 26, 1651-1670.	9.8	71
135	An emergency decision making method based on the multiplicative consistency of probabilistic linguistic preference relations. International Journal of Machine Learning and Cybernetics, 2019, 10, 1613-1629.	3.6	71
136	Hesitant fuzzy agglomerative hierarchical clustering algorithms. International Journal of Systems Science, 2015, 46, 562-576.	5.5	70
137	MOORA under Pythagorean Fuzzy Set for Multiple Criteria Decision Making. Complexity, 2018, 2018, 1-10.	1.6	70
138	A comprehensive bibliometric analysis of entrepreneurship and crisis literature published from 1984 to 2020. Journal of Business Research, 2021, 135, 304-318.	10.2	67
139	Intuitionistic multiplicative analytic hierarchy process in group decision making. Computers and Industrial Engineering, 2016, 101, 513-524.	6.3	66
140	The Structure and Citation Landscape of IEEE Transactions on Fuzzy Systems (1994â€“2015). IEEE Transactions on Fuzzy Systems, 2018, 26, 430-442.	9.8	66
141	Group decision making with double hierarchy hesitant fuzzy linguistic preference relations: Consistency based measures, index and repairing algorithms and decision model. Information Sciences, 2019, 489, 93-112.	6.9	66
142	Multi-attribute decision making methods based on reference ideal theory with probabilistic hesitant information. Expert Systems With Applications, 2019, 118, 459-469.	7.6	66
143	Bibliometric analysis of support vector machines research trend: a case study in China. International Journal of Machine Learning and Cybernetics, 2020, 11, 715-728.	3.6	66
144	Intuitionistic Fuzzy Hybrid Weighted Aggregation Operators. International Journal of Intelligent Systems, 2014, 29, 971-993.	5.7	65

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145	Extended hesitant fuzzy hybrid weighted aggregation operators and their application in decision making. <i>Soft Computing</i> , 2015, 19, 2551-2564.	3.6	65
146	A C-OWA operator-based approach to decision making with interval fuzzy preference relation. <i>International Journal of Intelligent Systems</i> , 2006, 21, 1289-1298.	5.7	64
147	A comprehensive bibliometric analysis of uncertain group decision making from 1980 to 2019. <i>Information Sciences</i> , 2021, 547, 328-353.	6.9	64
148	REGRESSION METHODS FOR HESITANT FUZZY PREFERENCE RELATIONS. <i>Technological and Economic Development of Economy</i> , 2014, 19, S214-S227.	4.6	63
149	Hesitant analytic hierarchy process. <i>European Journal of Operational Research</i> , 2016, 250, 602-614.	5.7	63
150	A Dynamic Reference Point Method for Emergency Response Under Hesitant Probabilistic Fuzzy Environment. <i>International Journal of Fuzzy Systems</i> , 2017, 19, 1261-1278.	4.0	63
151	Continuities, Derivatives, and Differentials of $sq$ -Rung Orthopair Fuzzy Functions. <i>IEEE Transactions on Fuzzy Systems</i> , 2019, 27, 1687-1699.	9.8	63
152	Hesitancy degree-based correlation measures for hesitant fuzzy linguistic term sets and their applications in multiple criteria decision making. <i>Information Sciences</i> , 2020, 508, 275-292.	6.9	63
153	An interactive approach to probabilistic hesitant fuzzy multi-attribute group decision making with incomplete weight information. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017, 32, 2523-2536.	1.4	62
154	Entropy Measures of Probabilistic Linguistic Term Sets. <i>International Journal of Computational Intelligence Systems</i> , 2018, 11, 45.	2.7	62
155	Multiplicative consistency of interval-valued intuitionistic fuzzy preference relation. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014, 27, 2969-2985.	1.4	61
156	Distance and similarity measures for dual hesitant fuzzy sets and their applications in pattern recognition. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 29, 731-745.	1.4	61
157	Derivative and Differential Operations of Intuitionistic Fuzzy Numbers. <i>International Journal of Intelligent Systems</i> , 2015, 30, 468-498.	5.7	61
158	Severity assessment of chronic obstructive pulmonary disease based on hesitant fuzzy linguistic COPRAS method. <i>Applied Soft Computing Journal</i> , 2018, 69, 60-71.	7.2	61
159	Satisfaction Degree Based Interactive Decision Making under Hesitant Fuzzy Environment with Incomplete Weights. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2014, 22, 553-572.	1.9	60
160	The Multiplicative Consistency Index of Hesitant Fuzzy Preference Relation. <i>IEEE Transactions on Fuzzy Systems</i> , 2016, 24, 82-93.	9.8	59
161	Intuitionistic Fuzzy Analytic Network Process. <i>IEEE Transactions on Fuzzy Systems</i> , 2018, 26, 2578-2590.	9.8	59
162	Multiattribute Group Decision-Making Based on Linguistic Pythagorean Fuzzy Interaction Partitioned Bonferroni Mean Aggregation Operators. <i>Complexity</i> , 2018, 2018, 1-24.	1.6	59

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163	Clustering algorithms based on correlation coefficients for probabilistic linguistic term sets. <i>International Journal of Intelligent Systems</i> , 2018, 33, 2402-2424.	5.7	59
164	Modeling complex linguistic expressions in qualitative decision making: An overview. <i>Knowledge-Based Systems</i> , 2018, 144, 174-187.	7.1	58
165	Assessment of traffic congestion with ORESTE method under double hierarchy hesitant fuzzy linguistic environment. <i>Applied Soft Computing Journal</i> , 2020, 86, 105864.	7.2	58
166	An interactive procedure for linguistic multiple attribute decision making with incomplete weight information. <i>Fuzzy Optimization and Decision Making</i> , 2007, 6, 17-27.	5.5	57
167	Regret Theory-Based Three-Way Decision Model in Hesitant Fuzzy Environments and Its Application to Medical Decision. <i>IEEE Transactions on Fuzzy Systems</i> , 2022, 30, 5361-5375.	9.8	57
168	Intuitionistic fuzzy MST clustering algorithms. <i>Computers and Industrial Engineering</i> , 2012, 62, 1130-1140.	6.3	56
169	Green Logistic Provider Selection with a Hesitant Fuzzy Linguistic Thermodynamic Method Integrating Cumulative Prospect Theory and PROMETHEE. <i>Sustainability</i> , 2018, 10, 1291.	3.2	56
170	Free Double Hierarchy Hesitant Fuzzy Linguistic Term Sets: An application on ranking alternatives in GDM. <i>Information Fusion</i> , 2019, 47, 45-59.	19.1	55
171	TOPSIS Method Based on Correlation Coefficient and Entropy Measure for Linguistic Pythagorean Fuzzy Sets and Its Application to Multiple Attribute Decision Making. <i>Complexity</i> , 2019, 2019, 1-16.	1.6	54
172	Bibliometric analysis on the evolution of applied intelligence. <i>Applied Intelligence</i> , 2019, 49, 449-462.	5.3	54
173	PROJECTION METHOD FOR UNCERTAIN MULTI-ATTRIBUTE DECISION MAKING WITH PREFERENCE INFORMATION ON ALTERNATIVES. <i>International Journal of Information Technology and Decision Making</i> , 2004, 03, 429-434.	3.9	53
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175	New operational laws and aggregation method of intuitionistic fuzzy information. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 30, 129-141.	1.4	52
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