Hesitant fuzzy information aggregation in decision mak

International Journal of Approximate Reasoning
52, 395-407
DOI: 10.1016/j.ijar.2010.09.002

Citation Report

#	Article	IF	Citations
1	On distance and correlation measures of hesitant fuzzy information. International Journal of Intelligent Systems, 2011, 26, 410-425.	3.3	429
2	Dual Hesitant Fuzzy Sets. Journal of Applied Mathematics, 2012, 2012, 1-13.	0.4	357
3	Interval-valued intuitionistic fuzzy coimplications. , 2012, , .		0
4	Hesitant fuzzy entropy and cross-entropy and their use in multiattribute decision-making. International Journal of Intelligent Systems, 2012, 27, 799-822.	3.3	262
5	Hesitant fuzzy prioritized operators and their application to multiple attribute decision making. Knowledge-Based Systems, 2012, 31, 176-182.	4.0	399
6	New Operations over Hesitant Fuzzy Sets. Fuzzy Information and Engineering, 2013, 5, 129-146.	1.0	33
7	Extension of VIKOR method for decision making problem based on hesitant fuzzy set. Applied Mathematical Modelling, 2013, 37, 4938-4947.	2.2	321
8	Studies on Consistency Measure of Hesitant Fuzzy Preference Relations. Procedia Computer Science, 2013, 17, 457-464.	1.2	34
9	A VIKOR-based method for hesitant fuzzy multi-criteria decision making. Fuzzy Optimization and Decision Making, 2013, 12, 373-392.	3.4	271
10	Hesitant fuzzy multi-attribute decision making based on TOPSIS with incomplete weight information. Knowledge-Based Systems, 2013, 52, 53-64.	4.0	530
11	Aggregating Fuzzy QL-Implications. , 2013, , .		2
12	Using power aggregation operators to fuse hesitant fuzzy information in multiple attribute decision making. , 2013, , .		0
13	Hesitant fuzzy Bonferroni means for multi-criteria decision making. Journal of the Operational Research Society, 2013, 64, 1831-1840.	2.1	138
14	Group decision making under hesitant fuzzy environment with application to personnel evaluation. Knowledge-Based Systems, 2013, 52, 1-10.	4.0	121
15	Hesitant fuzzy power aggregation operators and their application to multiple attribute group decision making. Information Sciences, 2013, 234, 150-181.	4.0	286
16	The induced linguistic continuous ordered weighted geometric operator and its application to group decision making. Computers and Industrial Engineering, 2013, 66, 222-232.	3.4	45
17	Some Hesitant Fuzzy Aggregation Operators with Their Application in Group Decision Making. Group Decision and Negotiation, 2013, 22, 259-279.	2.0	354
18	Information measures for hesitant fuzzy sets and interval-valued hesitant fuzzy sets. Information Sciences, 2013, 240, 129-144.	4.0	307

#	Article	IF	Citations
19	Some hesitant interval-valued fuzzy aggregation operators and their applications to multiple attribute decision making. Knowledge-Based Systems, 2013, 46, 43-53.	4.0	223
20	Generalized hesitant fuzzy synergetic weighted distance measures and their application to multiple criteria decision-making. Applied Mathematical Modelling, 2013, 37, 5837-5850.	2.2	149
21	A Novel Method of Ranking Hesitant Fuzzy Values for Multiple Attribute Decision-Making Problems. International Journal of Intelligent Systems, 2013, 28, 752-767.	3.3	128
22	Correlation coefficients of hesitant fuzzy sets and their applications to clustering analysis. Applied Mathematical Modelling, 2013, 37, 2197-2211.	2.2	426
23	Generalized hesitant fuzzy sets and their application in decision support system. Knowledge-Based Systems, 2013, 37, 357-365.	4.0	241
24	Interval-valued hesitant preference relations and their applications to group decision making. Knowledge-Based Systems, 2013, 37, 528-540.	4.0	455
25	Dual Hesitant Fuzzy Information Aggregation in Decision Making. Applied Mechanics and Materials, 2013, 389, 854-859.	0.2	4
26	Interval-Valued Intuitionistic Hesitant Fuzzy Aggregation Operators and Their Application in Group Decision-Making. Journal of Applied Mathematics, 2013, 2013, 1-33.	0.4	39
27	Inclusion measure and its use in measuring similarity and distance measure between hesitant fuzzy sets. , 2013, , .		2
28	Generalized hesitant fuzzy prioritized Einstein weighted averaging operator and its application in group decision making. , 2013, , .		0
29	Aggregation Operators on the Fuzzy e-Xor and e-XNor Classes. , 2013, , .		1
30	A Hesitant Fuzzy Multiple Attribute Group Decision Making Approach Based on TOPSIS for Parts Supplier Selection. Applied Mechanics and Materials, 0, 357-360, 2730-2737.	0.2	6
31	MANAGING HESITANT INFORMATION IN GDM PROBLEMS UNDER FUZZY AND MULTIPLICATIVE PREFERENCE RELATIONS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2013, 21, 865-897.	0.9	123
32	Evaluation matrix with the speed feature based on double inspiriting control lines. Journal of Systems Engineering and Electronics, 2013, 24, 962-970.	1.1	1
33	Induced hesitant interval-valued fuzzy Einstein aggregation operators and their application to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2013, 24, 789-803.	0.8	129
34	Some Issues on Hesitant Fuzzy Sets. Journal of Applied & Computational Mathematics, 2013, 02, .	0.1	0
35	Hesitant Fuzzy Sets and Hesitant Fuzzy Preference Relations. Industrial Engineering & Management, 2013, 02, .	0.1	0
36	Hesitant Fuzzy Soft Subalgebras and Ideals inBCK/BCI-Algebras. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	12

#	Article	IF	Citations
37	Continuous Hesitant Fuzzy Aggregation Operators and Their Application to Decision Making under Interval-Valued Hesitant Fuzzy Setting. Scientific World Journal, The, 2014, 2014, 1-20.	0.8	14
38	Multicriteria Group Decision Making by Using Trapezoidal Valued Hesitant Fuzzy Sets. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	13
39	Hesitant Fuzzy Linguistic Multicriteria Decision-Making Method Based on Generalized Prioritized Aggregation Operator. Scientific World Journal, The, 2014, 2014, 1-16.	0.8	14
40	A Novel Multiple Attribute Satisfaction Evaluation Approach with Hesitant Intuitionistic Linguistic Fuzzy Information. Mathematical Problems in Engineering, 2014, 2014, 1-15.	0.6	5
41	Multicriteria Decision-Making Approach with Hesitant Interval-Valued Intuitionistic Fuzzy Sets. Scientific World Journal, The, 2014, 2014, 1-22.	0.8	21
42	Some Aggregation Operators Based on Einstein Operations under Interval-Valued Dual Hesitant Fuzzy Setting and Their Application. Mathematical Problems in Engineering, 2014, 2014, 1-21.	0.6	12
43	Multiple Attribute Decision Making Based on Generalized Aggregation Operators under Dual Hesitant Fuzzy Environment. Journal of Applied Mathematics, 2014, 2014, 1-12.	0.4	7
44	Hesitant Triangular Fuzzy Information Aggregation Operators Based on Bonferroni Means and Their Application to Multiple Attribute Decision Making. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	10
45	A new assessment method of new energy in regional sustainable development based on hesitant fuzzy information. Journal of Industrial Engineering and Management, 2014, 7, .	1.0	1
46	Approach to multiple attribute decision making with hesitant triangular fuzzy information and their application to customer credit risk assessment. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2853-2860.	0.8	3
47	New Hesitant Fuzzy Operators. Fuzzy Information and Engineering, 2014, 6, 379-392.	1.0	7
48	A multiple criteria hesitant fuzzy decision making with Shapley value-based VIKOR method. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1065-1075.	0.8	89
49	Some Generalized Dual Hesistant Fuzzy Geometric Aggregation Operators and Applications. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2014, 22, 367-384.	0.9	23
50	Satisfaction Degree Based Interactive Decision Making under Hesitant Fuzzy Environment with Incomplete Weights. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2014, 22, 553-572.	0.9	60
51	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.	2.3	219
52	Strategic Decision Selection Using Hesitant fuzzy TOPSIS and Interval Type-2 Fuzzy AHP: A case study. International Journal of Computational Intelligence Systems, 2014, 7, 1002.	1.6	144
53	An approach to hesitant fuzzy multi-stage multi-criterion decision making. Kybernetes, 2014, 43, 1447-1468.	1.2	34
54	Subtraction and division operations over hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2014, 27, 65-72.	0.8	107

#	Article	IF	Citations
55	Models for decision making problems with hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2014, 27, 839-847.	0.8	1
56	A novel SIR method for multiple attributes group decision making problem under hesitant fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2119-2130.	0.8	20
57	Approach to multiple attribute decision making based on the intelligence computing with hesitant triangular fuzzy information and their application. Journal of Intelligent and Fuzzy Systems, 2014, 27, 701-707.	0.8	8
58	Distance and similarity measures for hesitant interval-valued fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2014, 27, 19-36.	0.8	52
59	Properties of interval-valued hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2014, 27, 143-158.	0.8	25
60	Some dual hesitant fuzzy Hamacher aggregation operators and their applications to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 27, 2481-2495.	0.8	21
61	Some new dual hesitant fuzzy aggregation operators based on Choquet integral and their applications to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 27, 2857-2868.	0.8	66
62	Some interval-valued hesitant fuzzy aggregation operators based on Archimedean t-norm and t-conorm with their application in multi-criteria decision making. Journal of Intelligent and Fuzzy Systems, 2014, 27, 2737-2748.	0.8	16
63	Approaches to hesitant fuzzy multiple attribute decision making with incomplete weight information. Journal of Intelligent and Fuzzy Systems, 2014, 26, 259-266.	0.8	24
64	Hesitant fuzzy Hamacher aggregation operators and their application to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2689-2699.	0.8	85
65	Dynamic hesitant fuzzy aggregation operators in multi-period decision making. Kybernetes, 2014, 43, 715-736.	1.2	31
66	Models for selecting an ERP system with hesitant fuzzy linguistic information. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2155-2165.	0.8	129
67	Models for hesitant interval-valued fuzzy multiple attribute decision making based on the correlation coefficient with incomplete weight information. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1631-1644.	0.8	10
68	Model for software quality evaluation with hesitant fuzzy uncertain linguistic information. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2639-2647.	0.8	56
69	Hesitant Fuzzy Soft Set and Its Applications in Multicriteria Decision Making. Journal of Applied Mathematics, 2014, 2014, 1-10.	0.4	53
70	Models for multiple attribute decision making method in hesitant triangular fuzzy setting. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2167-2174.	0.8	5
71	Model for multiple attribute decision making based on the Einstein correlated information fusion with hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2014, 26, 3057-3064.	0.8	23
72	Hesitant fuzzy linguistic aggregation operators and their application to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 27, 49-63.	0.8	65

#	Article	IF	Citations
73	Method for aggregating induced correlated interval grey linguistic variables and their application to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1169-1177.	0.8	2
74	Hesitant intuitionistic fuzzy linguistic aggregation operators and their applications to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1187-1201.	0.8	40
75	Dual hesitant fuzzy multi-criteria decision making and its application to teaching quality assessment. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1679-1688.	0.8	28
76	An approach to multiple attribute decision making problems based on hesitant fuzzy set. Journal of Intelligent and Fuzzy Systems, 2014, 27, 2749-2755.	0.8	13
77	Some new hybrid weighted aggregation operators under hesitant fuzzy multi-criteria decision making environment. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1601-1617.	0.8	75
78	Multiple Attribute Decision Making Based on Hesitant Fuzzy Einstein Geometric Aggregation Operators. Journal of Applied Mathematics, 2014, 2014, 1-14.	0.4	9
79	Objective Attributes Weights Determining Based on Shannon Information Entropy in Hesitant Fuzzy Multiple Attribute Decision Making. Mathematical Problems in Engineering, 2014, 2014, 1-7.	0.6	22
80	TOPSIS method for hesitant fuzzy multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2263-2269.	0.8	15
81	Hesitant triangular fuzzy information aggregation in multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1201-1209.	0.8	69
82	GRA method for multiple criteria group decision making with incomplete weight information under hesitant fuzzy setting. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1095-1105.	0.8	42
83	Interval-valued dual hesitant fuzzy aggregation operators and their applications to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 27, 1203-1218.	0.8	42
84	Dual hesitant fuzzy aggregation operators in multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2281-2290.	0.8	165
85	An Extension of the MULTIMOORA Method for Multiple Criteria Group Decision Making Based upon Hesitant Fuzzy Sets. Journal of Applied Mathematics, 2014, 2014, 1-16.	0.4	25
86	Interval-Valued Hesitant Fuzzy Hamacher Synergetic Weighted Aggregation Operators and Their Application to Shale Gas Areas Selection. Mathematical Problems in Engineering, 2014, 2014, 1-25.	0.6	12
87	Power Geometric Operators of Hesitant Multiplicative Fuzzy Numbers and Their Application to Multiple Attribute Group Decision Making. Mathematical Problems in Engineering, 2014, 2014, 1-16.	0.6	7
88	Some results for dual hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2014, 26, 1657-1668.	0.8	78
89	Hesitant Fuzzy Information Aggregation Operators under Confidence Levels. , 2014, , .		1
90	Dual intuitionistic fuzzy sets and its application in group decision making. , 2014, , .		0

#	Article	IF	Citations
91	Correlation for Dual Hesitant Fuzzy Sets and Dual Interval-Valued Hesitant Fuzzy Sets. International Journal of Intelligent Systems, 2014, 29, 184-205.	3.3	102
92	Multi-criteria direct clustering method based on hesitant fuzzy sets. , 2014, , .		3
93	Some Hesitant Fuzzy Information Aggregation Operators Based on Einstein Operational Laws. International Journal of Intelligent Systems, 2014, 29, 320-340.	3.3	54
94	Aggregating fuzzy implications based on OWA-operators. , 2014, , .		0
95	A new fuzzy multiple criteria decision making method based on likelihood-based comparison relations of hesitant fuzzy linguistic term sets and a-cuts of fuzzy sets. , 2014, , .		2
96	A new hesitant fuzzy analytical hierarchy process method for decision-making problems under uncertainty. , 2014, , .		13
97	On Hesitant Fuzzy Reducible Weighted Bonferroni Mean and Its Generalized Form for Multicriteria Aggregation. Journal of Applied Mathematics, 2014, 2014, 1-10.	0.4	8
98	Clustering within the Framework of Hesitant Fuzzy Sets. Applied Mechanics and Materials, 2014, 668-669, 1143-1146.	0.2	0
99	Pairwise Comparison and Distance Measure of Hesitant Fuzzy Linguistic Term Sets. Mathematical Problems in Engineering, 2014, 2014, 1-8.	0.6	13
100	A Novel Method for Multiattribute Decision Making with Dual Hesitant Fuzzy Triangular Linguistic Information. Journal of Applied Mathematics, 2014, 2014, 1-12.	0.4	10
101	Induced generalized hesitant fuzzy operators and their application to multiple attribute group decision making. Computers and Industrial Engineering, 2014, 67, 116-138.	3.4	83
102	A series of score functions for hesitant fuzzy sets. Information Sciences, 2014, 277, 102-110.	4.0	92
103	Multi-attribute decision analysis under a linguistic hesitant fuzzy environment. Information Sciences, 2014, 267, 287-305.	4.0	126
104	Approaches to multiple attribute decision making based on the correlation coefficient with dual hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2547-2556.	0.8	45
105	Hesitant fuzzy linguistic aggregation operators and their applications to multiple attribute group decision making. Journal of Intelligent and Fuzzy Systems, 2014, 26, 2185-2202.	0.8	99
106	An Accurate Method for Determining Hesitant Fuzzy Aggregation Operator Weights and Its Application to Project Investment. International Journal of Intelligent Systems, 2014, 29, 668-686.	3.3	18
107	Constructive and axiomatic approaches to hesitant fuzzy rough set. Soft Computing, 2014, 18, 1067-1077.	2.1	63
108	Time-Based Hesitant Fuzzy Information Aggregation Approach for Decision-Making Problems. International Journal of Intelligent Systems, 2014, 29, 579-595.	3.3	15

#	Article	IF	Citations
109	Hesitant Fuzzy Sets: State of the Art and Future Directions. International Journal of Intelligent Systems, 2014, 29, 495-524.	3.3	390
110	Typical Hesitant Fuzzy Negations. International Journal of Intelligent Systems, 2014, 29, 525-543.	3.3	37
111	Consistency Measures for Hesitant Fuzzy Linguistic Preference Relations. IEEE Transactions on Fuzzy Systems, 2014, 22, 35-45.	6.5	407
112	Aggregation functions for typical hesitant fuzzy elements and the action of automorphisms. Information Sciences, 2014, 255, 82-99.	4.0	162
113	Multi-criteria outranking approach with hesitant fuzzy sets. OR Spectrum, 2014, 36, 1001-1019.	2.1	63
114	Correlation coefficient of dual hesitant fuzzy sets and its application to multiple attribute decision making. Applied Mathematical Modelling, 2014, 38, 659-666.	2.2	167
115	Deriving a Ranking From Hesitant Fuzzy Preference Relations Under Group Decision Making. IEEE Transactions on Cybernetics, 2014, 44, 1328-1337.	6.2	167
116	On the use of multiplicative consistency in hesitant fuzzy linguistic preference relations. Knowledge-Based Systems, 2014, 72, 13-27.	4.0	107
117	Typical hesitant fuzzy negations based on Xu-Xia-partial order. , 2014, , .		6
118	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
119	A decision support model for group decision making with hesitant multiplicative preference relations. Information Sciences, 2014, 282, 136-166.	4.0	60
120	REGRESSION METHODS FOR HESITANT FUZZY PREFERENCE RELATIONS. Technological and Economic Development of Economy, 2014, 19, S214-S227.	2.3	63
121	Interval programming method for hesitant fuzzy multi-attribute group decision making with incomplete preference over alternatives. Computers and Industrial Engineering, 2014, 75, 217-229.	3.4	52
122	Linguistic continuous ordered weighted distance measure and its application to multiple attributes group decision making. Applied Soft Computing Journal, 2014, 25, 266-276.	4.1	38
123	Distance and similarity measures for hesitant fuzzy linguistic term sets and their application in multi-criteria decision making. Information Sciences, 2014, 271, 125-142.	4.0	503
124	Hierarchical hesitant fuzzy K-means clustering algorithm. Applied Mathematics, 2014, 29, 1-17.	0.6	45
125	Deriving the priority weights from hesitant multiplicative preference relations in group decision making. Applied Soft Computing Journal, 2014, 25, 107-117.	4.1	30
126	Distance and similarity measures for higher order hesitant fuzzy sets. Knowledge-Based Systems, 2014, 55, 43-48.	4.0	116

#	Article	IF	Citations
127	Hesitant triangular fuzzy information aggregation based on Einstein operations and their application to multiple attribute decision making. Expert Systems With Applications, 2014, 41, 1086-1094.	4.4	148
128	The TODIM analysis approach based on novel measured functions under hesitant fuzzy environment. Knowledge-Based Systems, 2014, 61, 48-58.	4.0	203
129	Multicriteria linguistic decision making based on hesitant fuzzy linguistic term sets and the aggregation of fuzzy sets. Information Sciences, 2014, 286, 63-74.	4.0	158
130	Interval-Valued Hesitant Fuzzy Prioritized Weighted Aggregation Operators for Multiple Attribute Decision Making. Journal of Algorithms and Computational Technology, 2014, 8, 179-192.	0.4	20
131	Gray relational analysis method based on hesitant fuzzy linguistic term sets. , 2015, , .		1
132	Typical hesitant fuzzy rough sets. , 2015, , .		3
133	An introduction to hesitant fuzzy data clustering. , 2015, , .		1
134	Ideal solutions for hesitant fuzzy soft sets. Journal of Intelligent and Fuzzy Systems, 2015, 30, 143-150.	0.8	14
135	Operations on hesitant fuzzy sets: Some new results. Journal of Intelligent and Fuzzy Systems, 2015, 29, 43-52.	0.8	13
136	An extended TODIM method for hesitant fuzzy interactive multicriteria decision making based on generalized Choquet integral. Journal of Intelligent and Fuzzy Systems, 2015, 29, 293-305.	0.8	32
137	ELECTRE method for multiple attributes decision making problem with hesitant fuzzyÂinformation. Journal of Intelligent and Fuzzy Systems, 2015, 29, 463-468.	0.8	6
138	Model for evaluating the electrical power system safety with hesitant fuzzy linguistic information. Journal of Intelligent and Fuzzy Systems, 2015, 29, 725-730.	0.8	10
139	Distance and similarity measures for dual hesitant fuzzy sets and their applications inÂpattern recognition. Journal of Intelligent and Fuzzy Systems, 2015, 29, 731-745.	0.8	61
140	Engineering economic analyses using intuitionistic and hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2015, 29, 1151-1168.	0.8	37
141	Interval-valued Hesitant Fuzzy Soft Sets and their Application in Decision Making. Fundamenta Informaticae, 2015, 141, 71-93.	0.3	41
142	Annual cash flow analysis using hesitant fuzzy sets. , 2015, , .		3
143	A Group Decision Making Approach Based on Hesitant Fuzzy Soft Set Theory. Infor, 2015, 53, 113-124.	0.5	3
144	Supplier selection of foreign trade sourcing company using ANP-VIKOR method in hesitant fuzzy environment. Industrial Engineering & Management, 2015, 04, .	0.1	3

#	Article	IF	Citations
145	Assessment of E-learning System in Higher Education Based on Hesitant Fuzzy Information with Incomplete Attribute Weights. International Journal of Emerging Technologies in Learning, 2015, 10, 34.	0.8	5
146	On Interval-Valued Hesitant Fuzzy Soft Sets. Mathematical Problems in Engineering, 2015, 2015, 1-17.	0.6	14
147	Generalized Linguistic Hesitant Intuitionistic Fuzzy Hybrid Aggregation Operators. Mathematical Problems in Engineering, 2015, 2015, 1-11.	0.6	7
148	Hesitant Fuzzy Soft Sets with Application in Multicriteria Group Decision Making Problems. Scientific World Journal, The, 2015, 2015, 1-14.	0.8	24
149	Dual hesitant fuzzy interaction operators and their application to group decision making. Journal of Industrial and Production Engineering, 2015, 32, 273-290.	2.1	10
150	Note on distance measure of hesitant fuzzy sets. Information Sciences, 2015, 321, 103-115.	4.0	79
151	Fuzzified Choquet Integral and its Applications in MADM: A Review and A New Method. International Journal of Fuzzy Systems, 2015, 17, 337-352.	2.3	10
152	Hesitant fuzzy analytic hierarchy process. , 2015, , .		60
153	Some results in hesitant fuzzy filters on BE-algebras. , 2015, , .		0
154	Hesitant fuzzy information aggregation with a prioritization relationship between attributes. , 2015, , .		0
155	Multi-criterion multi-attribute decision-making for an EOQ model in a hesitant fuzzy environment. Pacific Science Review A Natural Science and Engineering, 2015, 17, 61-68.	0.4	2
156	Hesitant fuzzy soft sets and their applications in decision-making. , 2015, , .		1
157	A hesitant fuzzy multiple attribute decision making method based on linear programming and TOPSIS**This work was supported by the Specialized Research Fund for the Doctoral Program of Higher Education under Project No. 20130009120040.. IFAC-PapersOnLine, 2015, 48, 427-431.	0.5	11
158	Entropy Measures for Dual Hesitant Fuzzy Information. , 2015, , .		8
159	A Multi-Criteria Decision-Making Method Based on Heronian Mean Operators Under a Linguistic Hesitant Fuzzy Environment. Asia-Pacific Journal of Operational Research, 2015, 32, 1550035.	0.9	41
160	The fuzzy cross-entropy for intuitionistic hesitant fuzzy sets and their application in multi-criteria decision-making. International Journal of Systems Science, 2015, 46, 2335-2350.	3.7	83
161	A note on operations of hesitant fuzzy sets. International Journal of Computational Intelligence Systems, 2015, 8, 226.	1.6	20
162	Study on the security of information system authentication scheme based on the fuzzy number intuitionistic fuzzy information. Journal of Intelligent and Fuzzy Systems, 2015, 28, 2225-2232.	0.8	12

#	Article	IF	Citations
163	New distance and similarity measures on hesitant fuzzy sets and their applications in multiple criteria decision making. Engineering Applications of Artificial Intelligence, 2015, 40, 11-16.	4.3	115
164	Correlation Coefficients of Hesitant Fuzzy Sets and Their Application Based on Fuzzy Measures. Cognitive Computation, 2015, 7, 445-463.	3.6	81
165	Optimal discrete fitting aggregation approach with hesitant fuzzy information. Knowledge-Based Systems, 2015, 78, 22-33.	4.0	31
166	Novel correlation coefficients between hesitant fuzzy sets and their application in decision making. Knowledge-Based Systems, 2015, 82, 115-127.	4.0	152
167	Intuitionistic fuzzy theory based typhoon disaster evaluation in Zhejiang Province, China: a comparative perspective. Natural Hazards, 2015, 75, 2559-2576.	1.6	40
168	The generalized hybrid weighted average operator based on interval neutrosophic hesitant set and its application to multiple attribute decision making. Neural Computing and Applications, 2015, 26, 457-471.	3.2	109
169	An extension of ELECTRE to multi-criteria decision-making problems with multi-hesitant fuzzy sets. Information Sciences, 2015, 307, 113-126.	4.0	112
170	Generalized fuzzy assignment problem with restriction on the cost of job under hesitant fuzzy environment. Opsearch, 2015, 52, 401-411.	1.1	4
171	Uncertainty Measures for Hesitant Fuzzy Information. International Journal of Intelligent Systems, 2015, 30, 818-836.	3.3	32
172	Study on division and subtraction operations for hesitant fuzzy sets, interval-valued hesitant fuzzy sets and typical dual hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2015, 28, 1393-1402.	0.8	25
173	A Consensus Model for Group Decision Making with Hesitant Fuzzy Information. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2015, 23, 459-480.	0.9	6
174	Ordered visibility graph weighted averaging aggregation operator: A methodology based on network analysis. Computers and Industrial Engineering, 2015, 88, 181-190.	3.4	16
175	Multi-criteria group decision making with incomplete hesitant fuzzy preference relations. Applied Soft Computing Journal, 2015, 36, 1-23.	4.1	54
176	Approaches to group decision making with incomplete information based on power geometric operators and triangular fuzzy AHP. Expert Systems With Applications, 2015, 42, 7846-7857.	4.4	56
177	Approaches to multiple attribute decision making with hesitant fuzzy uncertain linguistic information. Journal of Intelligent and Fuzzy Systems, 2015, 28, 991-998.	0.8	10
178	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
179	A decision support model for group decision making with hesitant fuzzy preference relations. Knowledge-Based Systems, 2015, 86, 77-101.	4.0	80
180	An approach to multiple attributes decision making with hesitant interval-valued fuzzy information and its application. Journal of Intelligent and Fuzzy Systems, 2015, 28, 495-503.	0.8	2

#	Article	IF	Citations
181	Multiple Attribute Group Decision Making Under Hesitant Fuzzy Environment. Lecture Notes in Business Information Processing, 2015, , 171-182.	0.8	1
182	Preference relations based on hesitant-intuitionistic fuzzy information and their application in group decision making. Computers and Industrial Engineering, 2015, 87, 163-175.	3.4	42
183	A novel aggregation principle for hesitant fuzzy elements. Knowledge-Based Systems, 2015, 84, 134-143.	4.0	28
184	Generalized analytic network process. European Journal of Operational Research, 2015, 244, 277-288.	3.5	47
185	A Novel Risk Decision Making Based on Decision-Theoretic Rough Sets Under Hesitant Fuzzy Information. IEEE Transactions on Fuzzy Systems, 2015, 23, 237-247.	6.5	174
186	The Hesitant Fuzzy Soft Set and Its Application in Decision-Making. Springer Proceedings in Mathematics and Statistics, 2015, , 235-247.	0.1	18
187	Hesitant Fuzzy Power Bonferroni Means and Their Application to Multiple Attribute Decision Making. IEEE Transactions on Fuzzy Systems, 2015, 23, 1655-1668.	6.5	111
188	Interval type-2 hesitant fuzzy set and its application in multi-criteria decision making. Computers and Industrial Engineering, 2015, 87, 91-103.	3.4	58
189	Integrating LINMAP and TOPSIS methods for hesitant fuzzy multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2015, 28, 257-269.	0.8	19
190	Generalised operations on hesitant fuzzy values in the framework of Dempsterâ€“Shafer theory. Information Sciences, 2015, 311, 39-58.	4.0	30
191	An Innovative Fuzzy-Neural Decision Analyzer for Qualitative Group Decision Making. International Journal of Information Technology and Decision Making, 2015, 14, 659-696.	2.3	5
192	Archimedean Aggregation Operators Based on Dual Hesitant Fuzzy Set and Their Application to GDM. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2015, 23, 761-780.	0.9	25
194	Fuzzy decision making based on likelihood-based comparison relations of hesitant fuzzy linguistic term sets and hesitant fuzzy linguistic operators. Information Sciences, 2015, 294, 513-529.	4.0	131
195	Hesitant fuzzy linguistic ordered weighted distance operators for group decision making. Journal of Applied Mathematics and Computing, 2015, 49, 285-308.	1.2	26
196	Induced generalized hesitant fuzzy Shapley hybrid operators and their application in multi-attribute decision making. Applied Soft Computing Journal, 2015, 28, 599-607.	4.1	43
197	On multi-granular fuzzy linguistic modeling in group decision making problems: A systematic review and future trends. Knowledge-Based Systems, 2015, 74, 49-60.	4.0	205
198	Hesitant fuzzy agglomerative hierarchical clustering algorithms. International Journal of Systems Science, 2015, 46, 562-576.	3.7	70
199	Hesitant fuzzy Hamacher aggregation operators for multicriteria decision making. Applied Soft Computing Journal, 2015, 26, 325-349.	4.1	93

#	Article	IF	Citations
200	Heterogeneous multiple criteria group decision making with incomplete weight information: A deviation modeling approach. Information Fusion, 2015, 25, 49-62.	11.7	98
201	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.	2.3	75
202	Multi-perspective strategic supplier selection in uncertain environments. International Journal of Production Economics, 2015, 166, 215-225.	5.1	78
203	Enhanced assessment of a supplier selection problem by integration of soft sets and hesitant fuzzy linguistic term set. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1635-1644.	1.5	20
204	Extended hesitant fuzzy linguistic term sets and their aggregation in group decision making. International Journal of Computational Intelligence Systems, 2015, 8, 14-33.	1.6	50
205	Hesitant fuzzy ELECTRE II approach: A new way to handle multi-criteria decision making problems. Information Sciences, 2015, 292, 175-197.	4.0	146
206	Extended hesitant fuzzy hybrid weighted aggregation operators and their application in decision making. Soft Computing, 2015, 19, 2551-2564.	2.1	65
207	Hesitant fuzzy QUALIFLEX approach with a signed distance-based comparison method for multiple criteria decision analysis. Expert Systems With Applications, 2015, 42, 873-884.	4.4	97
208	Generalized ordered weighted logarithmic harmonic averaging operators and their applications to group decision making. Soft Computing, 2015, 19, 715-730.	2.1	17
209	Multi-sensor Information Fusion Method Based on BP Neural Network. International Journal of Online Engineering, 2016, 12, 53.	0.5	3
210	Correlation Coefficients of Intuitionistic Hesitant Fuzzy Sets and Their Applications to Clustering Analysis. International Journal of Control and Automation, 2016, 9, 403-418.	0.3	2
211	Cross-Entropy of Dual Hesitant Fuzzy Sets for Multiple Attribute Decision-Making. International Journal of Decision Support System Technology, 2016, 8, 20-30.	0.4	12
212	A Modification on the Hesitant Fuzzy Set Lexicographical Ranking Method. Symmetry, 2016, 8, 153.	1.1	8
213	Hesitant Trapezoidal Fuzzy QUALIFLEX Method and Its Application in the Evaluation of Green Supply Chain Initiatives. Sustainability, 2016, 8, 952.	1.6	23
214	Multiple attribute group decision making based on IVHFPBMs and a new ranking method for interval-valued hesitant fuzzy information. Computers and Industrial Engineering, 2016, 99, 63-77.	3.4	29
215	Some Hesitant Fuzzy Einstein Aggregation Operators and Their Application to Multiple Attribute Group Decision Making. International Journal of Intelligent Systems, 2016, 31, 722-746.	3.3	10
216	The Properties of Continuous Pythagorean Fuzzy Information. International Journal of Intelligent Systems, 2016, 31, 401-424.	3.3	200
217	Error Analysis Methods for Group Decision Making Based on Hesitant Fuzzy Preference Relation. International Journal of Intelligent Systems, 2016, 31, 1104-1128.	3.3	14

#	Article	IF	Citations
218	On Extending Power-Geometric Operators to Interval-Valued Hesitant Fuzzy Sets and Their Applications to Group Decision Making. International Journal of Information Technology and Decision Making, 2016, 15, 1055-1114.	2.3	19
219	Model for performance evaluation in customs service management with dual hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2016, 30, 2131-2137.	0.8	5
220	Some novel uncertainty measures of hesitant fuzzy sets and their applications. Journal of Intelligent and Fuzzy Systems, 2016, 30, 691-703.	0.8	4
221	Topological structures of interval-valued hesitant fuzzy rough set and its application. Journal of Intelligent and Fuzzy Systems, 2016, 30, 1029-1043.	0.8	7
222	Multi-granulation dual hesitant fuzzy roughÂsets. Journal of Intelligent and Fuzzy Systems, 2016, 30, 623-637.	0.8	6
223	Research on the innovation ability evaluation of traditional enterpriseâ€™s business model for internet transition withÂhesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2016, 31, 91-97.	0.8	4
224	Representations of typical hesitant fuzzy rough sets. Journal of Intelligent and Fuzzy Systems, 2016, 31, 457-468.	0.8	3
225	Induced generalized dual hesitant fuzzy Shapley hybrid operators and their application in multi-attributes decision making. Journal of Intelligent and Fuzzy Systems, 2016, 31, 633-650.	0.8	11
226	Entropy measures for hesitant fuzzy sets and their application in multi-criteria decision-making. Journal of Intelligent and Fuzzy Systems, 2016, 31, 673-685.	0.8	39
227	Research on the enterprise management innovation ability assessment under low carbon economy circumstances with hesitant fuzzy uncertain linguistic information. Journal of Intelligent and Fuzzy Systems, 2016, 31, 1645-1651.	0.8	2
228	Models for real estate investment decision-making with hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2016, 31, 1779-1785.	0.8	4
229	Models for evaluating the resource integration capability of textile enterprise with hesitant fuzzy uncertain linguistic information. Journal of Intelligent and Fuzzy Systems, 2016, 31, 2001-2008.	0.8	3
230	Research on comprehensive performance evaluation of communication network based on the fuzzy number intuitionistic fuzzy information. Journal of Intelligent and Fuzzy Systems, 2016, 31, 2017-2025.	0.8	8
231	Information aggregation operators based onÂhesitant fuzzy sets and prioritization relationship. Journal of Intelligent and Fuzzy Systems, 2016, 31, 765-774.	0.8	5
232	Evaluation of emergency risk management capability based on hesitant fuzzy Einstein operator. Journal of Intelligent and Fuzzy Systems, 2016, 31, 2307-2311.	0.8	3
233	Note on hesitant fuzzy prioritized weighted operators1. Journal of Intelligent and Fuzzy Systems, 2016, 30, 3191-3196.	0.8	2
234	Research on the supplier selection model of closed-loop logistics systems with hesitant fuzzy information1. Journal of Intelligent and Fuzzy Systems, 2016, 30, 3431-3437.	0.8	2
235	Fuzzy Petri Net Method for Hesitant Decision Making. , 2016, , .		0

#	Article	IF	Citations
236	An extended LINMAP method for MAGDM under linguistic hesitant fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2016, 30, 2689-2703.	0.8	10
237	Project investment decision making with fuzzy information: A literature review of methodologies based on taxonomy. Journal of Intelligent and Fuzzy Systems, 2016, 30, 3239-3252.	0.8	10
238	Convex hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2016, 30, 2791-2796.	0.8	14
239	Hesitant interval-valued intuitionistic fuzzy linguistic sets and their applications. Journal of Intelligent and Fuzzy Systems, 2016, 31, 2779-2788.	0.8	9
240	Multiple attribute decision making under interval-valued hesitant fuzzy sets: An priority degrees approach. , 2016, , .		2
241	Hesitant fuzzy semigroups with a frontier. Journal of Intelligent and Fuzzy Systems, 2016, 30, 1613-1618.	0.8	14
242	Models for multiple attribute decision making with hesitant fuzzy linguistic information and their application to Enterprise risk evaluation. Journal of Intelligent and Fuzzy Systems, 2016, 30, 1531-1536.	0.8	1
243	A Review of Hesitant Fuzzy Sets: Quantitative and Qualitative Extensions. Studies in Fuzziness and Soft Computing, 2016, , 109-128.	0.6	8
244	Alternative queuing method for multiple criteria decision making with hybrid fuzzy and ranking information. Information Sciences, 2016, 357, 144-160.	4.0	43
245	Multi-Groups Decision Making using Intuitionistic-valued Hesitant Fuzzy Information. International Journal of Computational Intelligence Systems, 2016, 9, 468-482.	1.6	25
246	A Definition for Hesitant fuzzy Partitions. International Journal of Computational Intelligence Systems, 2016, 9, 497-505.	1.6	7
247	Novel Multi-criteria Decision-making Approaches Based on Hesitant Fuzzy Sets and Prospect Theory. International Journal of Information Technology and Decision Making, 2016, 15, 621-643.	2.3	54
248	Asymmetric hesitant fuzzy sigmoid preference relations in the analytic hierarchy process. Information Sciences, 2016, 358-359, 191-207.	4.0	43
249	The Hesitant Fuzzy Linguistic TOPSIS Method Based on Novel Information Measures. Asia-Pacific Journal of Operational Research, 2016, 33, 1650035.	0.9	21
250	Hospital Site Selection via Hesitant Fuzzy TOPSIS. IFAC-PapersOnLine, 2016, 49, 1140-1145.	0.5	77
251	Some aspects on hesitant fuzzy soft set. Cogent Mathematics, 2016, 3, 1223951.	0.4	4
252	Fuzzy time series forecasting method based on hesitant fuzzy sets. Expert Systems With Applications, 2016, 64, 557-568.	4.4	99
253	Fuzzy TOPSIS: A General View. Procedia Computer Science, 2016, 91, 823-831.	1.2	244

#	Article	IF	Citations
254	Correlation Coefficients of Interval-Valued Hesitant Fuzzy Sets and Their Application Based on the Shapley Function. International Journal of Intelligent Systems, 2016, 31, 17-43.	3.3	42
255	On Typical Hesitant Fuzzy Prioritized â€œorâ€•Operator in Multi-Attribute Decision Making. International Journal of Intelligent Systems, 2016, 31, 73-100.	3.3	17
256	Multiple attribute group decision making based on interval-valued hesitant fuzzy information measures. Computers and Industrial Engineering, 2016, 101, 103-115.	3.4	37
257	An extension on PROMETHEE based on the typical hesitant fuzzy sets to solve multi-attribute decision-making problem. Kybernetes, 2016, 45, 1213-1231.	1.2	37
258	A hesitant fuzzy linguistic multi-criteria decision-making method based on the Quasi-Arithmetic mean and harmonic mean operators. , 2016, , .		0
259	Novel basic operational laws for linguistic terms, hesitant fuzzy linguistic term sets and probabilistic linguistic term sets. Information Sciences, 2016, 372, 407-427.	4.0	303
260	A group decision making approach in interval-valued intuitionistic hesitant fuzzy environment with confidence levels. Journal of Intelligent and Fuzzy Systems, 2016, 31, 1909-1919.	0.8	6
261	Interval-valued dual hesitant fuzzy linguistic geometric aggregation operators in multiple attribute decision making. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2016, 20, 189-196.	0.7	49
262	Models for multiple attribute decision making with dual hesitant fuzzy uncertain linguistic information. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2016, 20, 217-227.	0.7	41
263	An approach to evaluating the performances of the photoelectric devices with hesitant fuzzy linguistic information. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2016, 20, 245-249.	0.7	1
264	Evaluation on connectivity of urban waterfront redevelopment under hesitant fuzzy linguistic environment. Ocean and Coastal Management, 2016, 132, 101-110.	2.0	19
265	Fuzzy Extensions of Confidence Intervals: Estimation for Âμ, Ïƒ2, and p. Studies in Fuzziness and Soft Computing, 2016, , 129-154.	0.6	1
266	QUALITATIVE CROSS IMPACT ANALYSIS USING HESITANT FUZZY SETS. , 2016, , .		0
267	A TRIANGULAR HESITANT FUZZY APPROACH TO FCM: AN ILLUSTRATIVE EXAMPLE. , 2016, , .		0
268	Several New Hesitant Fuzzy Aggregation Operators and their Application to Multi-criteria Decision Making. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2016, 86, 377-393.	0.8	7
269	Deriving the priority weights from incomplete hesitant fuzzy preference relations based on multiplicative consistency. Applied Soft Computing Journal, 2016, 46, 37-59.	4.1	38
270	GHFHC: Generalized Hesitant Fuzzy Hierarchical Clustering Algorithm. International Journal of Intelligent Systems, 2016, 31, 855-871.	3.3	12
271	Hesitant Fuzzy Prioritized Hybrid Average Operator and Its Application to Multiple Attribute Decision Making. Advances in Intelligent Systems and Computing, 2016, , 227-234.	0.5	1

#	Article	IF	Citations
272	Multi-criteria decision-making methods based on the Hausdorff distance of hesitant fuzzy linguistic numbers. Soft Computing, 2016, 20, 1621-1633.	2.1	112
273	Multivariate process capability evaluation of cloud manufacturing resource based on intuitionistic fuzzy set. International Journal of Advanced Manufacturing Technology, 2016, 84, 227-237.	1.5	24
274	A position and perspective analysis of hesitant fuzzy sets on information fusion in decision making. Towards high quality progress. Information Fusion, 2016, 29, 89-97.	11.7	199
275	A segment-based approach to the analysis of project evaluation problems by hesitant fuzzy sets. International Journal of Computational Intelligence Systems, 2016, 9, 325-339.	1.6	11
276	Possibility Distribution-Based Approach for MAGDM With Hesitant Fuzzy Linguistic Information. IEEE Transactions on Cybernetics, 2016, 46, 694-705.	6.2	265
277	Note on â€œHesitant fuzzy prioritized operators and their application to multiple attribute decision makingâ€• Knowledge-Based Systems, 2016, 96, 115-119.	4.0	15
278	Hesitant Fuzzy Filters in BE-algebras. International Journal of Computational Intelligence Systems, 2016, 9, 110.	1.6	6
279	Fusion of heterogeneous incomplete hesitant preference relations in group decision making. International Journal of Computational Intelligence Systems, 2016, 9, 245.	1.6	21
280	A hesitant fuzzy model of computational trust considering hesitancy, vagueness and uncertainty. Applied Soft Computing Journal, 2016, 42, 18-37.	4.1	30
281	Interval valued hesitant fuzzy uncertain linguistic aggregation operators in multiple attribute decision making. International Journal of Machine Learning and Cybernetics, 2016, 7, 1093-1114.	2.3	128
282	Some Hesitant Multiplicative Aggregation Operators and Their Application in Group Decision Making with Hesitant Multiplicative Preference Relations. International Journal of Fuzzy Systems, 2016, 18, 177-197.	2.3	7
283	On fuzzy-qualitative descriptions and entropy. International Journal of Approximate Reasoning, 2016, 75, 93-107.	1.9	0
284	Frank aggregation operators and their application to hesitant fuzzy multiple attribute decision making. Applied Soft Computing Journal, 2016, 41, 428-452.	4.1	80
285	Multiple attribute group decision making based on generalized power aggregation operators under interval-valued dual hesitant fuzzy linguistic environment. International Journal of Machine Learning and Cybernetics, 2016, 7, 1147-1193.	2.3	19
286	A Framework for Triangular Fuzzy Random Multiple-Criteria Decision Making. International Journal of Fuzzy Systems, 2016, 18, 227-247.	2.3	6
287	Dual hesitant fuzzy group decision making method and its application to supplier selection. International Journal of Machine Learning and Cybernetics, 2016, 7, 819-831.	2.3	57
288	DUAL HESITANT FUZZY AGGREGATION OPERATORS. Technological and Economic Development of Economy, 2016, 22, 194-209.	2.3	45
289	Intuitionistic hesitant linguistic sets and their application in multi-criteria decision-making problems. Operational Research, 2016, 16, 131-160.	1.3	37

#	Article	IF	Citations
290	Generalized Hesitant Fuzzy Harmonic Mean Operators and Their Applications in Group Decision Making. International Journal of Fuzzy Systems, 2016, 18, 685-696.	2.3	12
291	Some formal relationships among soft sets, fuzzy sets, and their extensions. International Journal of Approximate Reasoning, 2016, 68, 45-53.	1.9	79
292	Hesitant fuzzy set lexicographical ordering and its application to multi-attribute decision making. Information Sciences, 2016, 327, 233-245.	4.0	34
293	Admissible orders of typical hesitant fuzzy elements and their application in ordered information fusion in multi-criteria decision making. Information Fusion, 2016, 29, 98-104.	11.7	54
294	Inclusion measure for typical hesitant fuzzy sets, the relative similarity measure and fuzzy entropy. Soft Computing, 2016, 20, 1277-1287.	2.1	30
295	Hesitant fuzzy linguistic linear programming technique for multidimensional analysis of preference for multi-attribute group decision making. International Journal of Machine Learning and Cybernetics, 2016, 7, 845-855.	2.3	45
297	Hesitant fuzzy programming technique for multidimensional analysis of hesitant fuzzy preferences. OR Spectrum, 2016, 38, 789-817.	2.1	21
298	Interval-valued hesitant fuzzy Einstein prioritized aggregation operators and their applications to multi-attribute group decision making. Soft Computing, 2016, 20, 1863-1878.	2.1	18
299	Hesitant Fuzzy Worth: An innovative ranking methodology for hesitant fuzzy subsets. Applied Soft Computing Journal, 2016, 38, 232-243.	4.1	49
300	MADM based on distance and correlation coefficient measures with decision-maker preferences under a hesitant fuzzy environment. Soft Computing, 2016, 20, 4449-4461.	2.1	25
301	Interval-valued intuitionistic hesitant fuzzy Choquet integral based TOPSIS method for multi-criteria group decision making. European Journal of Operational Research, 2016, 248, 183-191.	3.5	254
302	Linguistic hesitant fuzzy multi-criteria decision-making method based on evidential reasoning. International Journal of Systems Science, 2016, 47, 314-327.	3.7	59
303	On interval-valued hesitant fuzzy rough approximation operators. Soft Computing, 2016, 20, 189-209.	2.1	29
304	Some generalized interval-valued hesitant uncertain linguistic aggregation operators and their applications to multiple attribute group decision making. Soft Computing, 2016, 20, 495-510.	2.1	17
305	The Multiplicative Consistency Index of Hesitant Fuzzy Preference Relation. IEEE Transactions on Fuzzy Systems, 2016, 24, 82-93.	6.5	59
306	Some studies on properties of hesitant fuzzy sets. International Journal of Machine Learning and Cybernetics, 2017, 8, 489-495.	2.3	11
307	A multi-attribute decision-making method with prioritization relationship and dual hesitant fuzzy decision information. International Journal of Machine Learning and Cybernetics, 2017, 8, 755-763.	2.3	30
308	EXTENDED HESITANT FUZZY SETS. Technological and Economic Development of Economy, 2017, 22, 100-121.	2.3	38

#	Article	IF	Citations
309	Hesitant interval-valued fuzzy sets: some new results. International Journal of Machine Learning and Cybernetics, 2017, 8, 865-876.	2.3	5
310	Dual hesitant fuzzy rough set and its application. Soft Computing, 2017, 21, 3287-3305.	2.1	33
311	A Linear Assignment Method for Multiple Criteria Decision Analysis with Hesitant Fuzzy Sets Based on Fuzzy Measure. International Journal of Fuzzy Systems, 2017, 19, 607-614.	2.3	121
312	Hesitant fuzzy multi-attribute decision-making based on the minimum deviation method. Soft Computing, 2017, 21, 3439-3459.	2.1	25
313	HESITANT FUZZY MULTI-CRITERIA DECISION MAKING METHODS BASED ON HERONIAN MEAN. Technological and Economic Development of Economy, 2017, 23, 296-315.	2.3	36
314	Enhancing relative ratio method for MCDM via attitudinal distance measures of interval-valued hesitant fuzzy sets. International Journal of Machine Learning and Cybernetics, 2017, 8, 1347-1368.	2.3	15
315	A deteriorating EOQ model for natural idle time and imprecise demand: hesitant fuzzy approach. International Journal of Systems Science: Operations and Logistics, 2017, 4, 297-310.	2.0	10
316	Dual hesitant fuzzy information aggregation with Einstein t-conorm and t-norm. Journal of Systems Science and Systems Engineering, 2017, 26, 240-264.	0.8	27
317	Multiple Attribute Group Decision-Making Methods Under Hesitant Fuzzy Linguistic Environment. Journal of Intelligent Systems, 2017, 26, 387-406.	1.2	3
318	Hesitant fuzzy rough set over two universes and its application in decision making. Soft Computing, 2017, 21, 1803-1816.	2.1	29
319	Hesitant triangular multiplicative aggregation operators and their application to multiple attribute group decision making. Neural Computing and Applications, 2017, 28, 195-217.	3.2	5
320	Multiple criteria decision making based on Bonferroni means with hesitant fuzzy linguistic information. Soft Computing, 2017, 21, 6515-6529.	2.1	159
321	Hesitant Fuzzy Multi-Criteria Group Decision Making with Unknown Weight Information. International Journal of Fuzzy Systems, 2017, 19, 615-636.	2.3	22
322	Multi-criteria decision-making using interval-valued hesitant fuzzy QUALIFLEX methods based on a likelihood-based comparison approach. Neural Computing and Applications, 2017, 28, 1835-1854.	3.2	24
323	Data Fusion and Type-2 Fuzzy Inference in Contextual Data Stream Monitoring. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1839-1853.	5.9	21
324	A Framework of Group Decision Making with Hesitant Fuzzy Preference Relations Based on Multiplicative Consistency. International Journal of Fuzzy Systems, 2017, 19, 982-996.	2.3	17
325	Incomplete Hesitant Fuzzy Preference Relations in Group Decision Making. International Journal of Fuzzy Systems, 2017, 19, 637-645.	2.3	20
326	Hesitant fuzzy linguistic entropy and cross-entropy measures and alternative queuing method for multiple criteria decision making. Information Sciences, 2017, 388-389, 225-246.	4.0	200

#	Article	IF	Citations
327	On Hesitant Fuzzy Clustering and Clustering of Hesitant Fuzzy Data. Studies in Computational Intelligence, 2017, , 157-168.	0.7	19
328	Analysis of fuzzy Hamacher aggregation functions for uncertain multiple attribute decision making. Information Sciences, 2017, 387, 19-33.	4.0	36
329	Operations and integrations of probabilistic hesitant fuzzy information in decision making. Information Fusion, 2017, 38, 1-11.	11.7	172
330	Dual hesitant fuzzy VIKOR method for multi-criteria group decision making based on fuzzy measure and new comparison method. Information Sciences, 2017, 388-389, 1-16.	4.0	123
331	Multiple Criteria Decision Making with Hesitant Fuzzy Hybrid Weighted Aggregation Operators. Uncertainty and Operations Research, 2017, , 73-114.	0.1	1
332	Green supplier selection model withÂhesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 32, 189-195.	0.8	20
333	Multistage decision making based on prioritization of hesitant multiplicative preference relations. Journal of Intelligent and Fuzzy Systems, 2017, 32, 691-701.	0.8	8
334	Linguistic hesitant intuitionistic fuzzy linearÂassignment method based onÂChoquetÂintegral. Journal of Intelligent and Fuzzy Systems, 2017, 32, 767-780.	0.8	11
335	Hesitant Intuitionistic Fuzzy Aggregation Operators Based on the Archimedean t-Norms and t-Conorms. International Journal of Fuzzy Systems, 2017, 19, 702-714.	2.3	22
336	Some Power Aggregation Operators for Hesitant Intuitionistic Fuzzy Linguistic Set and Their Applications to Multiple Attribute Decision Making. Uncertainty and Operations Research, 2017, , 325-347.	0.1	0
337	Three-way decisions based on decision-theoretic rough sets with dual hesitant fuzzy information. Information Sciences, 2017, 396, 127-143.	4.0	87
338	An interactive approach to probabilistic hesitant fuzzy multi-attribute group decision making with incomplete weight information. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2523-2536.	0.8	62
339	Partial orderings for hesitant fuzzy sets. International Journal of Approximate Reasoning, 2017, 84, 159-167.	1.9	17
340	An Extended QUALIFLEX Method Under Probability Hesitant Fuzzy Environment for Selecting Green Suppliers. International Journal of Fuzzy Systems, 2017, 19, 1866-1879.	2.3	96
341	Hesitant fuzzy translations and extensionsÂof subalgebras and ideals inÂBCK/BCI-algebras. Journal of Intelligent and Fuzzy Systems, 2017, 32, 43-48.	0.8	19
342	Models for evaluating the vehicle stability performance with hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2763-2769.	0.8	0
343	Hesitant distance set on hesitant fuzzy sets and its application in urban road traffic state identification. Engineering Applications of Artificial Intelligence, 2017, 61, 57-64.	4.3	14
344	Modelling Uncertainties in Multi-Criteria Decision Making using Distance Measure and TOPSIS for Hesitant Fuzzy Sets. Journal of Artificial Intelligence and Soft Computing Research, 2017, 7, 103-109.	3.5	17

#	Article	IF	Citations
345	A consensus model for hesitant fuzzy preference relations and its application in water allocation management. Applied Soft Computing Journal, 2017, 58, 265-284.	4.1	176
346	A new type of hesitant fuzzy subalgebras and ideals in BCK/BCI-algebras. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2009-2016.	0.8	7
347	Group consistency and group decision making under uncertain probabilistic hesitant fuzzy preference environment. Information Sciences, 2017, 414, 276-288.	4.0	85
348	A Multiple Criteria Decision Making Model with Entropy Weight in an Interval-Transformed Hesitant Fuzzy Environment. Cognitive Computation, 2017, 9, 513-525.	3.6	31
349	Priority degrees for hesitant fuzzy sets: Application to multiple attribute decision making. Operations Research Perspectives, 2017, 4, 67-73.	1.2	23
350	Independent hesitant fuzzy group decision making methods with application to person and post matching. Journal of Intelligent and Fuzzy Systems, 2017, 33, 93-103.	0.8	3
351	Multi-criteria Outranking Methods with Hesitant Probabilistic Fuzzy Sets. Cognitive Computation, 2017, 9, 611-625.	3.6	71
352	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.	11.7	270
353	A new approach for group decision making method with hesitant fuzzy preference relations. Knowledge-Based Systems, 2017, 127, 1-15.	4.0	52
354	An outranking method for multi-criteria group decision making using hesitant intuitionistic fuzzy linguistic term sets. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2153-2164.	0.8	19
355	Consensus building with a group of decision makers under the hesitant probabilistic fuzzy environment. Fuzzy Optimization and Decision Making, 2017, 16, 481-503.	3.4	209
356	Hesitant Fuzzy Thermodynamic Method for Emergency Decision Making Based on Prospect Theory. IEEE Transactions on Cybernetics, 2017, 47, 2531-2543.	6.2	74
357	Distance and Aggregation-Based Methodologies for Hesitant Fuzzy Decision Making. Cognitive Computation, 2017, 9, 81-94.	3.6	50
358	Expanded hesitant fuzzy sets and group decision making. , 2017, , .		6
359	Correlation coefficient of hesitant fuzzy sets. , 2017, , .		1
360	A Natural Method for Ranking Objects from Hesitant Fuzzy Preference Relations. International Journal of Information Technology and Decision Making, 2017, 16, 1611-1646.	2.3	21
361	A hesitant fuzzy mathematical programming method for hybrid multi-criteria group decision making with hesitant fuzzy truth degrees. Knowledge-Based Systems, 2017, 138, 232-248.	4.0	58
362	Interval-valued dual hesitant fuzzy uncertain linguistic aggregation operators in multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1881-1893.	0.8	98

#	Article	IF	Citations
363	Grey relational projection method for multiple attribute decision making with interval-valued dual hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1053-1066.	0.8	14
364	Model for evaluating the high-tech industry competitiveness of science and technology parks with fuzzy number intuitionistic fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 33, 2189-2197.	0.8	1
365	Hesitant pythagorean fuzzy hamacher aggregation operators and their application to multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1105-1117.	0.8	151
366	Hesitant bipolar fuzzy aggregation operators in multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1119-1128.	0.8	111
367	Hesitant fuzzy soft decision making methods based on WASPAS, MABAC and COPRAS with combined weights. Journal of Intelligent and Fuzzy Systems, 2017, 33, 1313-1325.	0.8	72
368	Some new Shapley dual hesitant fuzzy Choquet aggregation operators and their applications to multiple attribute group decision making-based TOPSIS. Journal of Intelligent and Fuzzy Systems, 2017, 33, 2463-2483.	0.8	10
369	A group consensus decision support modelÂfor hesitant 2-tuple fuzzy linguisticÂpreference relations withÂadditiveÂconsistency. Journal of Intelligent and Fuzzy Systems, 2017, 33, 41-54.	0.8	14
370	A consensus reaching model for hesitant information with different preference structures. Knowledge-Based Systems, 2017, 135, 99-112.	4.0	19
371	Correlation coefficients of hesitant multiplicative sets and their applications in decision making and clustering analysis. Applied Soft Computing Journal, 2017, 61, 935-946.	4.1	13
372	Similarity Degree for Multi-Attribute Decision Making with Incomplete Dual Hesitant Fuzzy Sets. Lecture Notes in Computer Science, 2017, , 113-122.	1.0	2
373	On cardinalities of finite interval-valued hesitant fuzzy sets. Information Sciences, 2017, 418-419, 421-431.	4.0	9
374	Research on performance evaluation of projects loaned by international financial organizations with fuzzy number intuitionistic fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 33, 3505-3514.	0.8	12
375	Improving the additive and multiplicative consistency of hesitant fuzzy linguistic preference relations. Journal of Intelligent and Fuzzy Systems, 2017, 33, 3677-3693.	0.8	12
376	Hesitant sets and hesitant relations. Journal of Intelligent and Fuzzy Systems, 2017, 33, 3629-3640.	0.8	5
377	Pythagorean hesitant fuzzy sets and their application to group decision making with incomplete weight information. Journal of Intelligent and Fuzzy Systems, 2017, 33, 3971-3985.	0.8	84
378	Models for evaluating the regional carbon emissions performance under the background of urban industrial agglomerations with hesitant fuzzy linguistic information. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2017, 21, 235-242.	0.7	1
379	Model for evaluating the classification modes of the Chinaâ€™s college entrance examination with hesitant fuzzy information. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2017, 21, 265-272.	0.7	2
380	The new extension of TOPSIS method for multiple criteria decision making with hesitant Pythagorean fuzzy sets. Applied Soft Computing Journal, 2017, 60, 167-179.	4.1	254

#	Article	IF	Citations
381	Expected hesitant VaR for tail decision making under probabilistic hesitant fuzzy environment. Applied Soft Computing Journal, 2017, 60, 297-311.	4.1	47
382	A hesitant group emergency decision making method based on prospect theory. Complex & Intelligent Systems, 2017, 3, 177-187.	4.0	20
383	AÂsoft computing based-modified ELECTRE model for renewable energy policy selection with unknown information. Renewable and Sustainable Energy Reviews, 2017, 68, 774-787.	8.2	88
384	A dynamically weight adjustment in the consensus reaching process for group decision-making with hesitant fuzzy preference relations. International Journal of Systems Science, 2017, 48, 1311-1321.	3.7	29
385	Entropy and Cross-entropy for Generalized Hesitant Fuzzy Information and Their Use in Multiple Attribute Decision Making. International Journal of Intelligent Systems, 2017, 32, 266-290.	3.3	13
386	A unified representation of intuitionistic fuzzy sets, hesitant fuzzy sets and generalized hesitant fuzzy sets based on their u-maps. Expert Systems With Applications, 2017, 69, 257-276.	4.4	32
387	A multi-valued neutrosophic qualitative flexible approach based on likelihood for multi-criteria decision-making problems. International Journal of Systems Science, 2017, 48, 425-435.	3.7	69
388	Fuzzy Economic Analysis Methods for Environmental Economics. Intelligent Systems Reference Library, 2017, , 315-346.	1.0	6
389	Hesitant Fuzzy Multiple Criteria Decision Analysis Based on TOPSIS. Studies in Fuzziness and Soft Computing, 2017, , 1-30.	0.6	2
390	Hesitant Fuzzy Multiple Criteria Decision Analysis Based on TODIM. Studies in Fuzziness and Soft Computing, 2017, , 31-69.	0.6	1
391	Hesitant Fuzzy Methods for Multiple Criteria Decision Analysis. Studies in Fuzziness and Soft Computing, 2017, , .	0.6	11
392	Hesitant Fuzzy Multiattribute Matching Decision Making Based on Regret Theory with Uncertain Weights. International Journal of Fuzzy Systems, 2017, 19, 955-966.	2.3	56
393	Hesitant fuzzy integrated MCDM approach for quality function deployment: a case study in electric vehicle. International Journal of Production Research, 2017, 55, 4436-4449.	4.9	102
394	A New Aggregation Method-Based Error Analysis for Decision-Theoretic Rough Sets and Its Application in Hesitant Fuzzy Information Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 1685-1697.	6.5	34
395	Models for evaluating the technological innovation capability of small and micro enterprises with hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 32, 249-256.	0.8	5
396	Model for evaluating the E-commerce logistics service quality with hesitant fuzzy uncertain linguistic information. Journal of Intelligent and Fuzzy Systems, 2017, 32, 4023-4029.	0.8	8
397	An extended multiple criteria decision making method based on neutrosophic hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 32, 4403-4413.	0.8	23
398	Consensus-reaching methods for hesitant fuzzy multiple criteria group decision making with hesitant fuzzy decision making matrices. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1679-1692.	1.5	7

#	Article	IF	Citations
399	Interval-valued hesitant fuzzy filters inÂBE-algebras. Journal of Intelligent and Fuzzy Systems, 2017, 33, 403-411.	0.8	0
400	Evaluating the sustainable mining contractor selection problems: An imprecise last aggregation preference selection index method. Journal of Sustainable Mining, 2017, 16, 207-218.	0.1	40
401	Aggregation operators in group decision making: Identifying citation classics via H-classics. Procedia Computer Science, 2017, 122, 902-909.	1.2	5
402	An approach to handel nondeterminism in fuzzy time series forecasting by hesitant fuzzy sets. , 2017, , .		2
403	HFMADM METHOD BASED ON NONDIMENSIONALIZATION AND ITS APPLICATION IN THE EVALUATION OF INCLUSIVE GROWTH. Journal of Business Economics and Management, 2017, 18, 726-744.	1.1	16
404	Dealing with diversity and novelty in group recommendations using Hesitant fuzzy sets. , 2017, , .		2
405	A hesitant fuzzy cognitive mapping approach with risk preferences for student accommodation problems. International Journal of Applied Management Science, 2017, 9, 253.	0.1	5
406	A hesitant fuzzy extension of VIKOR method for evaluation and selection problems under uncertainty. International Journal of Applied Management Science, 2017, 9, 95.	0.1	10
407	A hierarchical multi-criteria group decision-making method based on TOPSIS and hesitant fuzzy information. International Journal of Applied Decision Sciences, 2017, 10, 213.	0.2	15
408	Hyperfuzzy Ideals in BCK/BCI-Algebras. Mathematics, 2017, 5, 81.	1.1	2
409	Correlation Coefficients of Extended Hesitant Fuzzy Sets and Their Applications to Decision Making. Symmetry, 2017, 9, 47.	1.1	17
410	Dual Hesitant Fuzzy Probability. Symmetry, 2017, 9, 52.	1.1	13
411	Group Decision-Making for Hesitant Fuzzy Sets Based on Characteristic Objects Method. Symmetry, 2017, 9, 136.	1.1	88
412	Valuation Fuzzy Soft Sets: A Flexible Fuzzy Soft Set Based Decision Making Procedure for the Valuation of Assets. Symmetry, 2017, 9, 253.	1.1	42
413	Correlation Coefficients of Probabilistic Hesitant Fuzzy Elements and Their Applications to Evaluation of the Alternatives. Symmetry, 2017, 9, 259.	1.1	31
414	A Dual Hesitant Fuzzy Rough Pattern Recognition Approach Based on Deviation Theories and Its Application in Urban Traffic Modes Recognition. Symmetry, 2017, 9, 262.	1.1	9
415	A Hesitant Fuzzy Linguistic Multicriteria Decision-Making Method with Interactive Criteria and Its Application to Renewable Energy Projects Selection. Mathematical Problems in Engineering, 2017, 2017, 1-15.	0.6	7
416	A Group Decision-Making Model Based on Regression Method with Hesitant Fuzzy Preference Relations. Mathematical Problems in Engineering, 2017, 2017, 1-8.	0.6	5

#	Article	IF	Citations
417	A New Method of Multiattribute Decision-Making Based on Interval-Valued Hesitant Fuzzy Soft Sets and Its Application. Mathematical Problems in Engineering, 2017, 2017, 1-8.	0.6	7
418	Multi-Attribute Decision-Making Based on Prioritized Aggregation Operator under Hesitant Intuitionistic Fuzzy Linguistic Environment. Symmetry, 2017, 9, 270.	1.1	35
419	Interval-Valued Hesitant Fuzzy Multiattribute Group Decision Making Based on Improved Hamacher Aggregation Operators and Continuous Entropy. Mathematical Problems in Engineering, 2017, 2017, 1-20.	0.6	5
420	Distance Measures for Hesitant Fuzzy Linguistic Sets and Their Applications in Multiple Criteria Decision Making. International Journal of Fuzzy Systems, 2018, 20, 2111-2121.	2.3	21
421	Multiple Attribute Group Decision-Making Method Based on Generalized Interval-Valued Hesitant Uncertain Linguistic Power Aggregation Operators and Linguistic-Scale Functions. International Journal of Fuzzy Systems, 2018, 20, 1995-2015.	2.3	7
422	Convexity of hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2018, 34, 2099-2012.	0.8	0
423	Hesitant extension of fuzzy-rough set to address uncertainty in classification. Journal of Intelligent and Fuzzy Systems, 2018, 34, 2535-2550.	0.8	3
424	Site selection for hydrogen underground storage using interval type-2 hesitant fuzzy sets. International Journal of Hydrogen Energy, 2018, 43, 9353-9368.	3.8	74
425	An innovative TOPSIS approach based on hesitant fuzzy correlation coefficient and its applications. Applied Soft Computing Journal, 2018, 68, 249-267.	4.1	60
426	Some new generalized dual hesitant fuzzy generalized Choquet integral operators based on Shapley fuzzy measures. Journal of Intelligent and Fuzzy Systems, 2018, 35, 5477-5493.	0.8	5
427	Multiple-attribute decision-making method based on hesitant fuzzy linguistic Muirhead mean aggregation operators. Soft Computing, 2018, 22, 5513-5524.	2.1	20
428	Cluster head selection using hesitant fuzzy in Wireless Sensor Networks. , 2018, , .		4
429	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.	6.5	71
430	D-Intuitionistic Hesitant Fuzzy Sets and their Application in Multiple Attribute Decision Making. Cognitive Computation, 2018, 10, 496-505.	3.6	53
431	A new approach to DEMATEL based on interval-valued hesitant fuzzy sets. Applied Soft Computing Journal, 2018, 66, 34-49.	4.1	83
432	A YinYang bipolar fuzzy cognitive TOPSIS method to bipolar disorder diagnosis. Computer Methods and Programs in Biomedicine, 2018, 158, 1-10.	2.6	25
433	Consensus Building for Probabilistic Hesitant Fuzzy Preference Relations with Expected Additive Consistency. International Journal of Fuzzy Systems, 2018, 20, 1495-1510.	2.3	34
434	A Hesitant Fuzzy Based Security Approach for Fog and Mobile-Edge Computing. IEEE Access, 2018, 6, 688-701.	2.6	32

#	Article	IF	Citations
435	Portfolio selection and risk investment under the hesitant fuzzy environment. Knowledge-Based Systems, 2018, 144, 21-31.	4.0	54
436	Additive consistency analysis and improvement for hesitant fuzzy preference relations. Expert Systems With Applications, 2018, 98, 118-128.	4.4	115
437	Modeling complex linguistic expressions in qualitative decision making: An overview. Knowledge-Based Systems, 2018, 144, 174-187.	4.0	58
438	Multi-criteria decision-making approaches based on distance measures for linguistic hesitant fuzzy sets. Journal of the Operational Research Society, 2018, 69, 661-675.	2.1	56
439	New types of hesitant fuzzy soft ideals in BCK-algebras. Soft Computing, 2018, 22, 3675-3683.	2.1	5
440	Pythagorean Hesitant Fuzzy Information Aggregation and Their Application to Multi-Attribute Group Decision-Making Problems. Journal of Intelligent Systems, 2019, 29, 154-171.	1.2	15
441	Approaches to the selection of cold chain logistics enterprises under hesitant fuzzy environment based on decision distance measures. Granular Computing, 2018, 3, 27-38.	4.4	13
442	Decision Making Methods Based on Fuzzy Aggregation Operators: Three Decades Review from 1986 to 2017. International Journal of Information Technology and Decision Making, 2018, 17, 391-466.	2.3	89
443	Ordered Weighted Hesitant Fuzzy Information Fusion-Based Approach to Multiple Attribute Decision Making with Probabilistic Linguistic Term Sets. Fundamenta Informaticae, 2018, 159, 361-383.	0.3	14
444	Interval type-2 hesitant fuzzy set method for improving the service quality of domestic airlines in Turkey. Journal of Air Transport Management, 2018, 69, 83-98.	2.4	36
445	Model for evaluating the transformation and upgrading ability of small and medium enterprises with the hesitant fuzzy uncertain linguistic information. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2018, 22, 9-15.	0.7	1
446	Information Aggregation of Hesitant Fuzzy Interval Sets for Multicriteria Decision-Making. Computing in Science and Engineering, 2018, 20, 38-51.	1.2	7
447	Geometric Bonferroni means of interval-valued intuitionistic fuzzy numbers and their application to multiple attribute group decision making. Neural Computing and Applications, 2018, 29, 1139-1154.	3.2	24
448	Linguistic hesitant intuitionistic fuzzy decision-making method based on VIKOR. Neural Computing and Applications, 2018, 29, 613-626.	3.2	45
449	Extension of the VIKOR method for group decision making with extended hesitant fuzzy linguistic information. Neural Computing and Applications, 2018, 30, 3589-3602.	3.2	30
450	Hesitant Fuzzy Linguistic Maclaurin Symmetric Mean Operators and their Applications to Multi-Criteria Decision-Making Problem. International Journal of Intelligent Systems, 2018, 33, 953-982.	3.3	48
451	ELECTRE-Based Outranking Method for Multi-criteria Decision Making Using Hesitant Intuitionistic Fuzzy Linguistic Term Sets. International Journal of Fuzzy Systems, 2018, 20, 78-92.	2.3	38
452	Kernel C-Means Clustering Algorithms for Hesitant Fuzzy Information in Decision Making. International Journal of Fuzzy Systems, 2018, 20, 141-154.	2.3	21

#	Article	IF	Citations
453	Decision Making with Uncertainty Using Hesitant Fuzzy Sets. International Journal of Fuzzy Systems, 2018, 20, 93-103.	2.3	156
454	Hesitant L-Fuzzy Sets. International Journal of Intelligent Systems, 2018, 33, 1027-1042.	3.3	6
455	Probability Calculation and Element Optimization of Probabilistic Hesitant Fuzzy Preference Relations Based on Expected Consistency. IEEE Transactions on Fuzzy Systems, 2018, 26, 1367-1378.	6.5	79
456	Group Recommendations Based on Hesitant Fuzzy Sets. International Journal of Intelligent Systems, 2018, 33, 2058-2077.	3.3	15
457	Some new interval-valued dual hesitant fuzzy Choquet integral aggregation operators and their applications. Journal of Intelligent and Fuzzy Systems, 2018, 34, 245-266.	0.8	9
458	T-operators in hesitant fuzzy sets and their applications to fuzzy rule-based classifier. Applied Soft Computing Journal, 2018, 62, 423-440.	4.1	9
459	Grey relational analysis between hesitant fuzzy sets with applications to pattern recognition. Expert Systems With Applications, 2018, 92, 521-532.	4.4	99
460	Hesitant Fuzzy 2-Dimension Linguistic Term Set and its Application to Multiple Attribute Group Decision Making. International Journal of Fuzzy Systems, 2018, 20, 2301-2321.	2.3	11
461	Extended Intuitionistic Fuzzy Sets Based on the Hesitant Fuzzy Membership and their Application in Decision Making with Risk Preference. International Journal of Intelligent Systems, 2018, 33, 417-443.	3.3	22
462	Similarity and entropy measures for hesitant fuzzy sets. International Transactions in Operational Research, 2018, 25, 857-886.	1.8	68
463	Uncertain linguistic hesitant fuzzy sets and their application in multi-attribute decision making. International Journal of Intelligent Systems, 2018, 33, 586-614.	3.3	17
464	Trapezium cloud TOPSIS method with interval-valued intuitionistic hesitant fuzzy linguistic information. Granular Computing, 2018, 3, 139-152.	4.4	32
465	On priority weights and consistency for incomplete hesitant fuzzy preference relations. Knowledge-Based Systems, 2018, 143, 115-126.	4.0	109
466	A fuzzy compromise programming model based on the modified S-curve membership functions for supplier selection. Granular Computing, 2018, 3, 275-283.	4.4	16
467	B2C Marketplace Prioritization Using Hesitant Fuzzy Linguistic AHP. International Journal of Fuzzy Systems, 2018, 20, 2202-2215.	2.3	39
468	Typhoon disaster assessment based on Dombi hesitant fuzzy information aggregation operators. Natural Hazards, 2018, 90, 1153-1175.	1.6	77
469	Decomposition theorems and extension principles for hesitant fuzzyÂsets. Information Fusion, 2018, 41, 48-56.	11.7	104
470	Hesitant intuitionistic fuzzy entropy/cross-entropy and their applications. Soft Computing, 2018, 22, 2809-2824.	2.1	11

#	Article	IF	Citations
471	Multi-attribute group decision making under probabilistic hesitant fuzzy environment with application to evaluate the transformation efficiency. Applied Intelligence, 2018, 48, 953-965.	3.3	42
472	A Fuzzy Multicriteria Decision-Making Approach to Crime Linkage. International Journal of Information Technologies and Systems Approach, 2018, 11, 31-50.	0.8	10
473	A Brief Review and Future Outline on Decision Making Using Fuzzy Soft Set. International Journal of Fuzzy System Applications, 2018, 7, 1-43.	0.5	12
474	Fuzzy Multicriteria Analysis for Performance Evaluation of Internet-of-Things-Based Supply Chains. Symmetry, 2018, 10, 603.	1.1	11
475	Decision-Making using the Hesitant Fuzzy Sets COMET Method: An Empirical Study of the Electric City Buses Selection. , 2018, , .		27
476	Fuzzy interval linguistic sets with applications in multi-attribute group decision making. Journal of Systems Engineering and Electronics, 2018, 29, 1237.	1.1	6
477	Solving group decision-making problems in manufacturing systems by an uncertain compromise ranking method. International Journal of Applied Decision Sciences, 2018, 11, 55.	0.2	8
478	Hesitant Picture 2-Tuple Linguistic Aggregation Operators Based on Archimedean T-Norm and T-Conorm and Their Use in Decision-Making. Symmetry, 2018, 10, 629.	1.1	2
479	An Improved A* Algorithm Based on Hesitant Fuzzy Set Theory for Multi-Criteria Arctic Route Planning. Symmetry, 2018, 10, 765.	1.1	22
480	Soft computing based on a selection index method with risk preferences under uncertainty: applications to construction industry. International Journal of Computational Systems Engineering, 2018, 4, 238.	0.2	3
481	Dual Hesitant Fuzzy Soft Rings. International Journal of Fuzzy System Applications, 2018, 7, 1-16.	0.5	0
482	Expanded Dual Hesitant Fuzzy Sets. , 2018, , .		4
483	Neural Network Model for Information Security Incident Forecasting. , 2018, , .		1
484	Competition ability evaluation of power generation enterprises using a hybrid MCDM method under fuzzy and hesitant linguistic environment. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	17
485	Dual hesitant fuzzy stochastic multiple attribute decision making method based on regret theory and group satisfaction degree. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6479-6488.	0.8	12
486	The Evaluation of Bus Service Quality Based on Analytic Hierarchy Process and fuzzy soft set. , 2018, , .		0
487	Cosine Distance Measure between Neutrosophic Hesitant Fuzzy Linguistic Sets and Its Application in Multiple Criteria Decision Making. Symmetry, 2018, 10, 602.	1.1	16
488	Multiple Criteria Decision Making Via Dempster-Shafer Theory and Prospect Theory. , 2018, , .		0

#	Article	IF	Citations
489	A novel hesitant fuzzy EDAS method and its application to hospital selection. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6353-6365.	0.8	46
490	A Decision-Making Approach Based on a Multi Q-Hesitant Fuzzy Soft Multi-Granulation Rough Model. Symmetry, 2018, 10, 711.	1.1	6
491	Values evaluation of WTO multilateral trading system with fuzzy number intuitionistic fuzzy information. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2018, 22, 287-295.	0.7	0
492	Weighted Dual Hesitant Fuzzy Sets and Its Application in Group Decision Making. , 2018, , .		2
493	Research on arithmetic operations over generalized orthopair fuzzy sets. International Journal of Intelligent Systems, 2018, 34, 709.	3.3	9
494	A New Methodology for Hesitant Fuzzy Emergency Decision Making with Unknown Weight Information. Complexity, 2018, 2018, 1-12.	0.9	16
495	Triangular Cubic Hesitant Fuzzy Einstein Hybrid Weighted Averaging Operator and Its Application to Decision Making. Symmetry, 2018, 10, 658.	1.1	24
496	Algorithm for Probabilistic Dual Hesitant Fuzzy Multi-Criteria Decision-Making Based on Aggregation Operators With New Distance Measures. Mathematics, 2018, 6, 280.	1.1	53
497	Type-2 Hesitant Fuzzy Sets. Fuzzy Information and Engineering, 2018, 10, 249-259.	1.0	17
498	The lattice generated by hesitant fuzzy filters in pseudo-BCI algebras. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3333-3345.	0.8	2
499	Multiple criteria decision making based on distance and similarity measures under double hierarchy hesitant fuzzy linguistic environment. Computers and Industrial Engineering, 2018, 126, 516-530.	3.4	90
500	Probabilistic Single-Valued (Interval) Neutrosophic Hesitant Fuzzy Set and Its Application in Multi-Attribute Decision Making. Symmetry, 2018, 10, 419.	1.1	22
501	A GIS-based interval type-2 fuzzy set for public bread factory site selection. Journal of Enterprise Information Management, 2018, 31, 820-847.	4.4	32
502	Picture Hesitant Fuzzy Set and Its Application to Multiple Criteria Decision-Making. Symmetry, 2018, 10, 295.	1.1	51
503	Hesitant Probabilistic Fuzzy Information Aggregation Using Einstein Operations. Information (Switzerland), 2018, 9, 226.	1.7	12
504	A Hesitant Fuzzy Set Approach to Ideal Theory in Î“-Semigroups. Advances in Fuzzy Systems, 2018, 2018, 1-6.	0.6	4
505	Selecting the Optimal Mine Ventilation System via a Decision Making Framework under Hesitant Linguistic Environment. Symmetry, 2018, 10, 283.	1.1	4
506	Convex Aggregation Operators and Their Applications to Multi-Hesitant Fuzzy Multi-Criteria Decision-Making. Information (Switzerland), 2018, 9, 207.	1.7	6

#	Article	IF	Citations
507	Additive consistency-based approach for group decision making with hesitant 2-tuple linguistic preference relations. Journal of Intelligent and Fuzzy Systems, 2018, 35, 4657-4672.	0.8	6
508	Some Hesitant Fuzzy Linguistic Muirhead Means with Their Application to Multiattribute Group Decision-Making. Complexity, 2018, 2018, 1-16.	0.9	12
509	Interval-valued dual hesitant fuzzy rough set over two universes and its application. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3195-3211.	0.8	2
510	Probabilistic Interval-Valued Hesitant Fuzzy Information Aggregation Operators and Their Application to Multi-Attribute Decision Making. Algorithms, 2018, 11, 120.	1.2	18
511	Ranking objects from group decision making with interval-valued hesitant fuzzy preference relations in view of additive consistency and consensus. Knowledge-Based Systems, 2018, 162, 46-61.	4.0	13
512	Complex Fuzzy Geometric Aggregation Operators. Symmetry, 2018, 10, 251.	1.1	62
513	Sugeno Integral of Set-Valued Functions with Respect to Multi-submeasures and Its Application in MADM. International Journal of Fuzzy Systems, 2018, 20, 2534-2544.	2.3	5
514	Multi-Criteria Group Decision Making for Green Supply Chain Management under Uncertainty. Sustainability, 2018, 10, 3150.	1.6	15
515	An improvement to generalized regret based decision making method considering unreasonable alternatives. International Journal of Intelligent Systems, 2018, 33, 2295-2313.	3.3	1
516	Application of Dual Hesitant Fuzzy Geometric Bonferroni Mean Operators in Deciding an Energy Policy for the Society. Mathematical Problems in Engineering, 2018, 2018, 1-14.	0.6	8
517	A group decision approach for supplier categorization based on hesitant fuzzy and ELECTRE TRI. International Journal of Production Economics, 2018, 202, 182-196.	5.1	55
518	Consensus reaching process for large-scale group decision making with double hierarchy hesitant fuzzy linguistic preference relations. Knowledge-Based Systems, 2018, 157, 20-33.	4.0	186
520	Hesitant fuzzy preference envelopment analysis and alternative improvement. Information Sciences, 2018, 465, 105-117.	4.0	23
521	Hesitant Fuzzy Sets: A Bibliometric Study. , 2018, , .		2
522	Hesitant Fuzzy Linguistic Term Soft Sets and Their Applications in Decision Making. International Journal of Fuzzy Systems, 2018, 20, 2322-2336.	2.3	5
523	Multiple-attribute decision-making method using similarity measures of single-valued neutrosophic hesitant fuzzy sets based on least common multiple cardinality. Journal of Intelligent and Fuzzy Systems, 2018, 34, 4203-4211.	0.8	27
524	Hesitant Probabilistic Fuzzy Preference Relations in Decision Making. Mathematical Problems in Engineering, 2018, 2018, 1-24.	0.6	10
525	Grey Relational Analysis for Hesitant Fuzzy Sets and Its Applications to Multiattribute Decision-Making. Mathematical Problems in Engineering, 2018, 2018, 1-11.	0.6	12

#	Article	IF	Citations
526	Closeness Degree-Based Hesitant Trapezoidal Fuzzy Multicriteria Decision Making Method for Evaluating Green Suppliers with Qualitative Information. Discrete Dynamics in Nature and Society, 2018, 2018, 1-13.	0.5	4
527	An Approach to Interval-Valued Hesitant Fuzzy Multiattribute Group Decision Making Based on the Generalized Shapley-Choquet Integral. Complexity, 2018, 2018, 1-19.	0.9	7
528	Hesitant fuzzy dual Muirhead mean operators and its application to multiple attribute decision making1. Journal of Intelligent and Fuzzy Systems, 2018, 35, 2161-2172.	0.8	8
529	Hesitant Probabilistic Multiplicative Preference Relations in Group Decision Making. Applied Sciences (Switzerland), 2018, 8, 398.	1.3	40
530	A scientific decision-making framework for supplier outsourcing using hesitant fuzzy information. Soft Computing, 2018, 22, 7445-7461.	2.1	15
531	Length-Fuzzy Subalgebras in BCK/BCI-Algebras. Mathematics, 2018, 6, 11.	1.1	5
532	A Preference Model for Supplier Selection Based on Hesitant Fuzzy Sets. Sustainability, 2018, 10, 659.	1.6	7
533	Single-Valued Neutrosophic Hesitant Fuzzy Choquet Aggregation Operators for Multi-Attribute Decision Making. Symmetry, 2018, 10, 50.	1.1	23
534	Neutrosophic Hesitant Fuzzy Subalgebras and Filters in Pseudo-BCI Algebras. Symmetry, 2018, 10, 174.	1.1	6
535	Basic operations for fuzzy multisets. International Journal of Approximate Reasoning, 2018, 101, 107-118.	1.9	13
536	Normal wiggly hesitant fuzzy sets and their application to environmental quality evaluation. Knowledge-Based Systems, 2018, 159, 286-297.	4.0	38
537	Incomplete interval-valued hesitant fuzzy preference relations in decision making. Journal of Intelligent and Fuzzy Systems, 2018, , 1-9.	0.8	1
538	Entropy for Hesitant Fuzzy Sets Based on Hausdorff Metric with Construction of Hesitant Fuzzy TOPSIS. International Journal of Fuzzy Systems, 2018, 20, 2517-2533.	2.3	38
539	Synthetic Correlation Coefficient Between Hesitant Fuzzy Sets with Applications. International Journal of Fuzzy Systems, 2018, 20, 1968-1985.	2.3	19
540	Graded Soft Expert Set as a Generalization of Hesitant Fuzzy Set. Journal of Intelligent Systems, 2019, 29, 223-236.	1.2	1
541	Improved correlation measures for hesitant fuzzy sets. , 2018, , .		4
542	Approach to Multiple Attribute Group Decision Making Based on Hesitant Fuzzy Linguistic Aggregation Operators. Journal of Intelligent Systems, 2019, 29, 423-439.	1.2	2
543	Hesitant fuzzy preference relation based on Î±â€“normalization with self confidence in decision making. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3421-3435.	0.8	5

#	Article	IF	Citations
544	Power average-based score function and extension rule of hesitant fuzzy set and the hesitant power average operators. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3873-3882.	0.8	19
545	Hesitant Probabilistic Fuzzy Linguistic Sets with Applications in Multi-Criteria Group Decision Making Problems. Mathematics, 2018, 6, 47.	1.1	29
546	Hesitant fuzzy compatible rough set and its application in hesitant fuzzy soft set based decision making. Journal of Intelligent and Fuzzy Systems, 2018, 35, 995-1006.	0.8	3
547	Autocratic decision making using group recommendations based on hesitant fuzzy sets for green hotels selection and bidders selection. Information Sciences, 2018, 467, 604-617.	4.0	27
548	Construction-project risk assessment by a new decision model based on De-Novo multi-approaches analysis and hesitant fuzzy sets under uncertainty. Journal of Intelligent and Fuzzy Systems, 2018, 35, 639-649.	0.8	24
549	Interval neutrosophic hesitant fuzzy choquet integral in multicriteria decision making. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3213-3231.	0.8	7
550	Generalized correlation coefficients of the hesitant fuzzy sets and the hesitant fuzzy soft sets with application in group decision-making. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3821-3833.	0.8	15
551	An extension of VIKOR method for multi-attribute decision-making under Pythagorean hesitant fuzzy setting. Granular Computing, 2019, 4, 421-434.	4.4	43
552	Multiple-criteria decision-making for service quality selection based on Shapley COPRAS method under hesitant fuzzy sets. Granular Computing, 2019, 4, 435-449.	4.4	58
553	Balanced scorecard-based analysis about European energy investment policies: A hybrid hesitant fuzzy decision-making approach with Quality Function Deployment. Expert Systems With Applications, 2019, 115, 152-171.	4.4	126
554	Group decision-making methods based on hesitant N-soft sets. Expert Systems With Applications, 2019, 115, 95-105.	4.4	115
555	Necessary and possible hesitant fuzzy sets: A novel model for group decision making. Information Fusion, 2019, 46, 63-76.	11.7	74
556	Distance and similarity measures of hesitant fuzzy sets based on Hausdorff metric with applications to multi-criteria decision making and clustering. Soft Computing, 2019, 23, 5835-5848.	2.1	31
557	Distance measures for hesitant intuitionistic fuzzy linguistic term sets based on a risk factor parameter. International Journal of Computers and Applications, 2019, 41, 418-435.	0.8	2
558	Order based hierarchies on hesitant fuzzy approximation space. International Journal of Machine Learning and Cybernetics, 2019, 10, 1407-1422.	2.3	12
559	An overview of probabilistic-based expressions for qualitative decision-making: techniques, comparisons and developments. International Journal of Machine Learning and Cybernetics, 2019, 10, 1513-1528.	2.3	39
560	Two regression methods for hesitant multiplicative preference relations with different consistencies. Soft Computing, 2019, 23, 7029-7044.	2.1	2
561	Multi-criteria decision-making method based on dominance degree and BWM with probabilistic hesitant fuzzy information. International Journal of Machine Learning and Cybernetics, 2019, 10, 1671-1685.	2.3	99

#	Article	IF	Citations
562	A novel technique for multiple attribute group decision making in interval-valued hesitant fuzzy environments with incomplete weight information. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2417-2433.	3.3	20
563	Hybrid aggregation operators based on Pythagorean hesitant fuzzy sets and their application to group decision making. Granular Computing, 2019, 4, 469-482.	4.4	26
564	Fusions and preference relations based on probabilistic interval-valued hesitant fuzzy information in group decision making. Soft Computing, 2019, 23, 8291-8306.	2.1	17
565	Note on the aggregation operators and ranking of hesitant interval-valued fuzzy elements. Soft Computing, 2019, 23, 8075-8083.	2.1	5
566	Hesitant fuzzy Lukasiewicz implication operation and its application to alternativesâ€™ sorting and clustering analysis. Soft Computing, 2019, 23, 393-405.	2.1	12
567	Hesitant bipolar-valued fuzzy sets and bipolar-valued hesitant fuzzy sets and their applications in multi-attribute group decision making. Granular Computing, 2019, 4, 559-583.	4.4	30
568	Free Double Hierarchy Hesitant Fuzzy Linguistic Term Sets: An application on ranking alternatives in GDM. Information Fusion, 2019, 47, 45-59.	11.7	55
569	Automatic Iterative Algorithm with Local Revised Strategies to Improve the Consistency of Hesitant Fuzzy Linguistic Preference Relations. International Journal of Fuzzy Systems, 2019, 21, 2283-2298.	2.3	11
570	A New Model for Deriving the Priority Weights from Hesitant Triangular Fuzzy Preference Relations. Mathematical Problems in Engineering, 2019, 2019, 1-12.	0.6	1
571	Multi-attribute group decision making based on cubic bipolar fuzzy information using averaging aggregation operators. Journal of Intelligent and Fuzzy Systems, 2019, 37, 2473-2494.	0.8	47
572	Commutative Ideals of BCK-Algebras Based on Uni-Hesitant Fuzzy Set Theory. Missouri Journal of Mathematical Sciences, 2019, 31, .	0.3	3
573	Extended ELECTRE I Method with Multi-hesitant Fuzzy Information. International Journal of Fuzzy Systems, 2019, 21, 2192-2203.	2.3	10
574	A cumulative belief degree approach for group decisionâ€making problems with heterogeneous information. Expert Systems, 2019, 36, e12458.	2.9	13
575	Group decision making based on hesitant fuzzy ranking of hesitant fuzzy preference relations. Journal of Intelligent and Fuzzy Systems, 2019, 37, 2563-2573.	0.8	5
576	The Sialic Acid-Dependent Nematocyst Discharge Process in Relation to Its Physical-Chemical Properties Is a Role Model for Nanomedical Diagnostic and Therapeutic Tools. Marine Drugs, 2019, 17, 469.	2.2	11
577	Weighted power means of qâ€rung orthopair fuzzy information and their applications in multiattribute decision making. International Journal of Intelligent Systems, 2019, 34, 2835-2862.	3.3	25
578	The generalized dice similarity measures for multiple attribute decision making with hesitant fuzzy linguistic information. Economic Research-Ekonomska Istrazivanja, 2019, 32, 1498-1520.	2.6	30
579	A novel fuzzy TOPSIS method using emerging interval-valued spherical fuzzy sets. Engineering Applications of Artificial Intelligence, 2019, 85, 307-323.	4.3	191

#	Article	IF	Citations
580	Multiple Criteria Decision Making Based on Probabilistic Interval-Valued Hesitant Fuzzy Sets by Using LP Methodology. Discrete Dynamics in Nature and Society, 2019, 2019, 1-12.	0.5	12
581	Some Hesitant Fuzzy Hamacher Power-Aggregation Operators for Multiple-Attribute Decision-Making. Mathematics, 2019, 7, 594.	1.1	9
582	Prioritized aggregation operators based on the priority degrees in multicriteria decisionâ€making. International Journal of Intelligent Systems, 2019, 34, 1985-2018.	3.3	10
583	Assessing the rockburst risk for deep shafts via distance-based multi-criteria decision making approaches with hesitant fuzzy information. Engineering Geology, 2019, 260, 105211.	2.9	43
584	Multi-Criteria Group Decision-Making Using an m-Polar Hesitant Fuzzy TOPSIS Approach. Symmetry, 2019, 11, 795.	1.1	28
585	Research on the security of information system authentication scheme based on the fuzzy number intuitionistic fuzzy information. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1629-1637.	0.8	3
586	Formation mechanism of yellow soil aggregate of tea garden and quality assessments under hesitant fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2019, 37, 2067-2073.	0.8	0
587	Methods for evaluating the government administrative power under the whole area tourism with hesitant fuzzy linguistic information. Journal of Intelligent and Fuzzy Systems, 2019, 37, 2019-2025.	0.8	1
588	A distance measure, similarity measure and possibility degree for hesitant interval-valued fuzzy sets. Computers and Industrial Engineering, 2019, 137, 106088.	3.4	16
589	Application of normal wiggly dual hesitant fuzzy sets to site selection for hydrogen underground storage. International Journal of Hydrogen Energy, 2019, 44, 28874-28892.	3.8	40
590	Weighted hesitant fuzzy linguistic term sets and its application in group decision making. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1099-1112.	0.8	8
591	Novel TOPSIS method for group decision-making based on hesitant m-polar fuzzy model. Journal of Intelligent and Fuzzy Systems, 2019, 37, 8077-8096.	0.8	25
592	TODIM method for probabilistic linguistic multiple attribute group decision making based on the similarity measures and entropy. Journal of Intelligent and Fuzzy Systems, 2019, 37, 7025-7037.	0.8	8
593	Model for multiple attribute decision making with hesitant fuzzy information and their application. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2019, 23, 181-189.	0.7	1
594	A Multi-Criteria Group Decision Making Model for Green Supplier Selection under the Ordered Weighted Hesitant Fuzzy Environment. Symmetry, 2019, 11, 17.	1.1	18
595	Hesitant fuzzy linguistic portfolio model with variable risk appetite and its application in the investment ratio calculation. Applied Soft Computing Journal, 2019, 84, 105719.	4.1	15
596	Extended EDAS Methods for Multi-Criteria Group Decision-Making Based on IV-CFSWAA and IV-CFSWGA Operators With Interval-Valued Complex Fuzzy Soft Information. IEEE Access, 2019, 7, 105546-105561.	2.6	17
597	Deviation Degree: A Perspective on Score Functions in Hesitant Fuzzy Sets. International Journal of Fuzzy Systems, 2019, 21, 2299-2317.	2.3	18

#	Article	IF	Citations
598	Assessing the Performance of Green Mines via a Hesitant Fuzzy ORESTEâ€“QUALIFLEX Method. Mathematics, 2019, 7, 788.	1.1	29
599	Sustainable Assessment for Selecting the Best Alternative of Reclaimed Water Use Under Hesitant Fuzzy Multi-Criteria Decision Making. IEEE Access, 2019, 7, 137217-137231.	2.6	23
600	The exploration of fuzzy linguistic research: A scientometric review based on CiteSpace. Journal of Intelligent and Fuzzy Systems, 2019, 37, 3655-3669.	0.8	13
601	Towards Human-Centric Aggregation via Ordered Weighted Aggregation Operators and Linguistic Data Summaries: A New Perspective on Zadeh's Inspirations. IEEE Computational Intelligence Magazine, 2019, 14, 16-30.	3.4	63
602	A novel cross-efficiency evaluation method under hesitant fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2019, 36, 371-383.	0.8	5
603	Industrial Engineering in the Big Data Era. Lecture Notes in Management and Industrial Engineering, 2019, , .	0.3	8
604	Weighted Interval-Valued Hesitant Fuzzy Sets and Its Application in Group Decision Making. International Journal of Fuzzy Systems, 2019, 21, 421-432.	2.3	17
605	A Fuzzy Based Risk Evaluation Model for Industry 4.0 Transition Process. Lecture Notes in Management and Industrial Engineering, 2019, , 201-215.	0.3	5
606	Novel decision-making approach based on hesitant fuzzy sets and graph theory. Computational and Applied Mathematics, 2019, 38, 1.	1.0	37
607	On generalized correlation coefficients of the hesitant fuzzy sets with their application to clustering analysis. Computational and Applied Mathematics, 2019, 38, 1.	1.0	19
608	Fuzzy classification as a decision making problem in hesitant environments. International Journal of Information and Decision Sciences, 2019, 11, 22.	0.1	3
609	Entropy Measures for Hesitant Fuzzy Sets and Their Extensions. Uncertainty and Operations Research, 2019, , 69-102.	0.1	1
610	Method for large group emergency decision making with complex preferences based on emergency similarity and interval consistency. Natural Hazards, 2019, 97, 45-64.	1.6	17
611	Detecting and Visualizing in the Field of Hesitant Fuzzy Sets: A Bibliometric Analysis from 2009 to 2018. International Journal of Fuzzy Systems, 2019, 21, 1289-1305.	2.3	17
612	Multi-dimensionality reputation evaluation model for C2C E-commerce in hesitant triangular fuzzy setting. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1809-1817.	0.8	0
613	Multiâ€criteria group decisionâ€making method based on TODIM with probabilistic intervalâ€valued hesitant fuzzy information. Expert Systems, 2019, 36, e12424.	2.9	36
614	Information structures in an incomplete real-valued information system1. Journal of Intelligent and Fuzzy Systems, 2019, 36, 5305-5318.	0.8	0
615	An improved intuitionistic fuzzy interval two-stage stochastic programming for resources planning management integrating recourse penalty from resources scarcity and surplus. Journal of Cleaner Production, 2019, 234, 185-199.	4.6	18

#	Article	IF	Citations
616	Economic evaluation of power system dispatch with hesitant fuzzy uncertain linguistic information. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1761-1768.	0.8	2
617	An approximation reduction approach in multi-granulation hesitant fuzzy decision information system. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1555-1567.	0.8	1
618	Hesitant fuzzy bestâ€worst multiâ€criteria decisionâ€making method and its applications. International Journal of Intelligent Systems, 2019, 34, 1953-1967.	3.3	39
619	Research on performance evaluation of leisure agriculture supply-side structural reform with interval-valued dual hesitant fuzzy linguistic information. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1801-1808.	0.8	1
620	Model for evaluating the service quality of elderly institutions with hesitant fuzzy linguistic information. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1981-1988.	0.8	0
621	A topological structure involving hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2019, 36, 6401-6412.	0.8	17
622	An improved structure learning algorithm of Bayesian Network based on the hesitant fuzzy information flow. Applied Soft Computing Journal, 2019, 82, 105549.	4.1	11
623	On Developing Interval-Valued Dual Hesitant Fuzzy Bonferroni Mean Aggregation Operator and Their Application to Multicriteria Decision Making. Communications in Computer and Information Science, 2019, , 27-46.	0.4	3
624	A multi-attribute decision-making method with prioritization relationship and hesitant fuzzy decision information. Journal of Intelligent and Fuzzy Systems, 2019, 37, 4987-4998.	0.8	1
625	Hesitant multi-attribute two-sided matching: A perspective based on prospect theory. Journal of Intelligent and Fuzzy Systems, 2019, 36, 6343-6358.	0.8	14
626	Dual Extended Hesitant Fuzzy Sets. Symmetry, 2019, 11, 714.	1.1	23
627	Multigranulation hesitant Pythagorean fuzzy rough sets and its application in multi-attribute decision making. Journal of Intelligent and Fuzzy Systems, 2019, 36, 5631-5644.	0.8	6
628	A new method for group decision making with hesitant fuzzy preference relations based on multiplicative consistency. IEEE Transactions on Fuzzy Systems, 2019, , 1-1.	6.5	18
629	Group decision making with multiplicative interval linguistic hesitant fuzzy preference relations. Information Sciences, 2019, 495, 215-233.	4.0	16
631	Hesitant relations: Novel properties and applications in three-way decisions. Information Sciences, 2019, 497, 165-188.	4.0	5
632	An integrated approach to multiple criteria decision making based on the average solution and normalized weights of criteria deduced by the hesitant fuzzy best worst method. Computers and Industrial Engineering, 2019, 133, 83-94.	3.4	72
633	On novel hesitant fuzzy rough sets. Soft Computing, 2019, 23, 11357-11371.	2.1	8
634	A bibliometric analysis of aggregation operators. Applied Soft Computing Journal, 2019, 81, 105488.	4.1	64

#	Article	IF	Citations
635	Entropy Measures for Probabilistic Hesitant Fuzzy Information. IEEE Access, 2019, 7, 65714-65727.	2.6	28
636	Hesitant fuzzy N-soft sets: A new model with applications in decision-making. Journal of Intelligent and Fuzzy Systems, 2019, 36, 6113-6127.	0.8	69
637	Algorithms for hesitant fuzzy soft decision making based on revised aggregation operators, WDBA and CODAS. Journal of Intelligent and Fuzzy Systems, 2019, 36, 6307-6323.	0.8	15
638	Multi-Criteria Decision-Making under mHF ELECTRE-I and HmF ELECTRE-I. Energies, 2019, 12, 1661.	1.6	22
639	Research on Supplier Evaluation in a Green Supply Chain. Discrete Dynamics in Nature and Society, 2019, 2019, 1-14.	0.5	11
640	An interactive group decision model for selecting treatment schemes for mitigating air pollution. Environmental Science and Pollution Research, 2019, 26, 18687-18707.	2.7	9
641	Deriving priority weights from hesitant fuzzy preference relations in view of additive consistency and consensus. Soft Computing, 2019, 23, 13691-13707.	2.1	9
642	Uncertain Probabilistic Linguistic Term Sets in Group Decision Making. International Journal of Fuzzy Systems, 2019, 21, 1241-1258.	2.3	43
643	Hazard assessment of landslide dams using the evidential reasoning algorithm with multi-scale hesitant fuzzy linguistic information. Applied Soft Computing Journal, 2019, 79, 74-86.	4.1	26
644	Generalized Hesitant Fuzzy Soft Sets and Its Application to Decision Making. International Journal of Pattern Recognition and Artificial Intelligence, 2019, 33, 1950019.	0.7	7
645	Analysis of balanced scorecard-based SERVQUAL criteria based on hesitant decision-making approaches. Computers and Industrial Engineering, 2019, 131, 1-12.	3.4	28
646	Multi-Attribute Decision Making Method Based on Aggregated Neutrosophic Set. Symmetry, 2019, 11, 267.	1.1	9
647	Multi-Attribute Decision-Making Based on Preference Perspective with Interval Neutrosophic Sets in Venture Capital. Mathematics, 2019, 7, 257.	1.1	17
648	An overview on the applications of the hesitant fuzzy sets in group decision-making: Theory, support and methods. Frontiers of Engineering Management, 2019, 6, 163-182.	3.3	47
649	Application of the Fuzzy CODAS Method Based on Fuzzy Envelopes for Hesitant Fuzzy Linguistic Term Sets: A Case Study on a Personnel Selection Problem. Symmetry, 2019, 11, 493.	1.1	51
650	Trapezoidal cubic hesitant fuzzy aggregation operators and their application in group decision-making. Journal of Intelligent and Fuzzy Systems, 2019, 36, 3619-3635.	0.8	22
651	Distribution-Based Approaches to Deriving Weights from Dual Hesitant Fuzzy Information. Symmetry, 2019, 11, 85.	1.1	7
652	Improvements on Correlation Coefficients of Hesitant Fuzzy Sets and Their Applications. Cognitive Computation, 2019, 11, 529-544.	3.6	13

#	Article	IF	Citations
653	Dual Hesitant Fuzzy Linguistic Power-Average Operators Based on Archimedean t-Conorms and t-Norms. IEEE Access, 2019, 7, 40602-40624.	2.6	5
654	Multi-granulation hesitant fuzzy rough sets and corresponding applications. Soft Computing, 2019, 23, 13085-13103.	2.1	16
655	A three-way decision method based on Gaussian kernel in a hybrid information system with images: An application in medical diagnosis. Applied Soft Computing Journal, 2019, 77, 734-749.	4.1	53
656	Route Selection of the Arctic Northwest Passage Based on Hesitant Fuzzy Decision Field Theory. IEEE Access, 2019, 7, 19979-19989.	2.6	9
657	Optimized fuzzy-based group recommendation with parallel computation. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4189-4199.	0.8	5
658	A clustering method for large-scale group decision-making with multi-stage hesitant fuzzy linguistic terms. Information Fusion, 2019, 50, 231-250.	11.7	79
659	Multiple criteria group decision making method based on extended hesitant fuzzy sets with unknown weight information. Applied Soft Computing Journal, 2019, 78, 310-323.	4.1	33
660	A New Data Fusion Algorithm for Wireless Sensor Networks Inspired by Hesitant Fuzzy Entropy. Sensors, 2019, 19, 784.	2.1	17
661	A dynamic supply chain resilience model for medical equipmentâ€™s industry. Journal of Modelling in Management, 2019, 14, 816-840.	1.1	23
662	Several Novel Aggregation Functions for PHFS and Their Application to MCGDM. , 2019, , .		1
663	Constructive Method for Dual Interval Valued Hesitant Fuzzy Rough Sets. , 2019, , .		0
664	Some new Distance Measures of Hesitant Fuzzy Sets and its Application in Group Decision Making. , 2019, , .		2
665	An Evidential Prospect Theory Framework in Hesitant Fuzzy Multiple-Criteria Decision-Making. Symmetry, 2019, 11, 1467.	1.1	5
666	Fuzzy Reliability of Series-Parallel System Using UGF and Hesitant Fuzzy Set. , 2019, , .		0
667	Some properties of new hesitant fuzzy operators. Journal of Physics: Conference Series, 2019, 1321, 022089.	0.3	0
668	Linguistic multi-attribute decision-making evaluation method for product innovation design scheme with demand preferences of customers. International Journal of Knowledge-Based and Intelligent Engineering Systems, 2019, 23, 211-218.	0.7	2
669	A novel multiple-attribute decision making method based on power Muirhead mean operator under normal wiggly hesitant fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2019, 37, 7003-7023.	0.8	6
670	Paradigm Shift Toward Aggregation Strategies in Proportional Hesitant Fuzzy Multi-Criteria Group Decision Making Models of Advanced Practice for Selecting Electric Vehicle Battery Supplier. IEEE Access, 2019, 7, 172534-172561.	2.6	2

#	Article	IF	Citations
671	Performance Evaluation of Mobile Cloud Services: A Fuzzy Multicriteria Analysis Approach. , 2019, , .		1
672	Computational method for monotonic hesitant fuzzy linguistic terms by fitting Weibull distribution function concerns explicit and implicit appraisal information. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6557-6571.	0.8	1
673	Aggregation Similarity Measure Based on Hesitant Fuzzy Closeness Degree and Its Application to Clustering Analysis. Journal of Systems Science and Information, 2019, 7, 70-89.	0.2	3
674	Calculating priority weights from interval-valued multiplicative hesitant fuzzy preference relations. Soft Computing, 2019, 23, 11573-11592.	2.1	4
675	TOPSIS Approach for MAGDM Based on Interval-Valued Hesitant Fuzzy N-Soft Environment. International Journal of Fuzzy Systems, 2019, 21, 993-1009.	2.3	53
676	A prospect theory-based group decision approach considering consensus for portfolio selection with hesitant fuzzy information. Knowledge-Based Systems, 2019, 168, 28-38.	4.0	75
677	Pythagorean fuzzy average aggregation operators based on generalized and group-generalized parameter with application in MCDM problems. International Journal of Intelligent Systems, 2019, 34, 895-919.	3.3	18
678	New Correlation Coefficients Between Probabilistic Hesitant Fuzzy Sets and Their Applications in Cluster Analysis. International Journal of Fuzzy Systems, 2019, 21, 355-368.	2.3	30
679	Interval-valued probabilistic hesitant fuzzy set for multi-criteria group decision-making. Soft Computing, 2019, 23, 10853-10879.	2.1	34
680	Interval-valued probabilistic hesitant fuzzy set and its application in the Arctic geopolitical risk evaluation. International Journal of Intelligent Systems, 2019, 34, 627-651.	3.3	23
681	A Compromise-Typed Variable Weight Decision Method for Hybrid Multiattribute Decision Making. IEEE Transactions on Fuzzy Systems, 2019, 27, 861-872.	6.5	117
682	Enhancing multiple attribute group decision making flexibility based on information fusion technique and hesitant Pythagorean fuzzy sets. Computers and Industrial Engineering, 2019, 127, 954-970.	3.4	59
683	Hesitant Pythagorean fuzzy Maclaurin symmetric mean operators and its applications to multiattribute decision-making process. International Journal of Intelligent Systems, 2019, 34, 601-626.	3.3	91
684	A Direct Consistency Improvement Method for the Probability-Hesitant Analytic Hierarchy Process. IEEE Access, 2019, 7, 9445-9458.	2.6	10
685	Hesitant Fuzzy Set and Its Extensions. Uncertainty and Operations Research, 2019, , 1-29.	0.1	0
686	Belief structure-based induced aggregation operators in decision making with hesitant fuzzy information. Neural Computing and Applications, 2019, 31, 8917-8929.	3.2	8
687	Consensus building for hesitant fuzzy preference relations with multiplicative consistency. Computers and Industrial Engineering, 2019, 128, 387-400.	3.4	40
688	Distance Measures for Hesitant Fuzzy Sets and Their Extensions. Uncertainty and Operations Research, 2019, , 31-58.	0.1	1

#	Article	IF	Citations
689	Approaches to multi-attribute decision making with risk preference under extended Pythagorean fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2019, 36, 325-335.	0.8	23
690	Alternative Ranking-Based Clustering and Reliability Index-Based Consensus Reaching Process for Hesitant Fuzzy Large Scale Group Decision Making. IEEE Transactions on Fuzzy Systems, 2019, 27, 159-171.	6.5	115
691	Failure Mode and Effect Analysis in a Linguistic Context: A Consensus-Based Multiattribute Group Decision-Making Approach. IEEE Transactions on Reliability, 2019, 68, 566-582.	3.5	133
692	Failure modes and effects analysis for CO2 transmission pipelines using a hesitant fuzzy VIKOR method. Soft Computing, 2019, 23, 10321-10338.	2.1	25
693	Hesitant information sets and application in group decision making. Applied Soft Computing Journal, 2019, 75, 120-129.	4.1	10
694	Group decision making with interval linguistic hesitant fuzzy preference relations. Expert Systems With Applications, 2019, 119, 231-246.	4.4	25
695	Hesitant fuzzy graphs and their applications in decision making. Journal of Intelligent and Fuzzy Systems, 2019, 36, 2729-2741.	0.8	18
696	A new procedure for hesitant multiplicative preference relations. International Journal of Intelligent Systems, 2019, 34, 819-857.	3.3	10
697	Hesitant fuzzy set based computational method for financial time series forecasting. Granular Computing, 2019, 4, 655-669.	4.4	28
698	Multi-attribute decision making methods based on reference ideal theory with probabilistic hesitant information. Expert Systems With Applications, 2019, 118, 459-469.	4.4	66
699	Multi-criteria decision-making with probabilistic hesitant fuzzy information based on expected multiplicative consistency. Neural Computing and Applications, 2019, 31, 8897-8915.	3.2	44
700	Programming model-based method for ranking objects from group decision making with interval-valued hesitant fuzzy preference relations. Applied Intelligence, 2019, 49, 837-857.	3.3	13
701	Expertise-based consensus building for MCGDM with hesitant fuzzy linguistic information. Information Fusion, 2019, 50, 54-70.	11.7	36
702	Pythagorean Hesitant Fuzzy Hamacher Aggregation Operators in Multiple-Attribute Decision Making. Journal of Intelligent Systems, 2019, 28, 759-776.	1.2	7
703	Evaluation of Flexible Manufacturing Systems Using a Hesitant Group Decision Making Approach. Journal of Intelligent Systems, 2019, 28, 245-258.	1.2	5
704	Correlation measure of hesitant fuzzy soft sets and their application in decision making. Neural Computing and Applications, 2019, 31, 1023-1039.	3.2	31
705	Outranking approach for multi-criteria decision-making problems with hesitant interval-valued fuzzy sets. Soft Computing, 2019, 23, 419-430.	2.1	25
706	Global Research Trends of Intuitionistic Fuzzy Set: A Bibliometric Analysis. Journal of Intelligent Systems, 2019, 28, 621-631.	1.2	4

#	Article	IF	Citations
707	New aggregation operators of single-valued neutrosophic hesitant fuzzy set and their application in multi-attribute decision making. Pattern Analysis and Applications, 2019, 22, 417-427.	3.1	25
708	Multigranulation rough set model in hesitant fuzzy information systems and its application in person-job fit. International Journal of Machine Learning and Cybernetics, 2019, 10, 717-729.	2.3	35
709	Pythagorean fuzzy set: state of the art and future directions. Artificial Intelligence Review, 2019, 52, 1873-1927.	9.7	231
710	Hesitant Fuzzy Linguistic Possibility Degree-Based Linear Assignment Method for Multiple Criteria Decision-Making. International Journal of Information Technology and Decision Making, 2019, 18, 35-63.	2.3	13
711	New ranking order for linguistic hesitant fuzzy sets. Journal of the Operational Research Society, 2019, 70, 531-540.	2.1	10
712	Sorting of decision-making methods based on their outcomes using dominance-vector hesitant fuzzy-based distance. Soft Computing, 2019, 23, 1109-1121.	2.1	17
713	Multi-attribute decision making based on prioritized operators under probabilistic hesitant fuzzy environments. Soft Computing, 2019, 23, 3853-3868.	2.1	38
714	Uncertainty and Equivalence Relation Analysis for Hesitant Fuzzyâ€“Rough Sets and Their Applications in Classification. Computing in Science and Engineering, 2019, 21, 26-39.	1.2	7
715	FLM-TOPSIS: The fuzzy linguistic multiset TOPSIS method and its application in linguistic decision making. Information Fusion, 2019, 45, 266-281.	11.7	52
716	Multi-attribute group decision making based on power generalized Heronian mean operator under hesitant fuzzy linguistic environment. Soft Computing, 2019, 23, 3823-3842.	2.1	23
717	A new interval-valued hesitant fuzzy pairwise comparisonâ€“compromise solution methodology: an application to cross-docking location planning. Neural Computing and Applications, 2019, 31, 5159-5173.	3.2	12
718	A new concept of Cosine similarity measures based on dual hesitant fuzzy sets and its possible applications. Cluster Computing, 2019, 22, 15483-15492.	3.5	5
720	Ranking products with online reviews: A novel method based on hesitant fuzzy set and sentiment word framework. Journal of the Operational Research Society, 2020, 71, 528-542.	2.1	45
721	Symmetric and Right-Hand-Side Hesitant Fuzzy Linear Programming. IEEE Transactions on Fuzzy Systems, 2020, 28, 215-227.	6.5	20
722	Maclaurin symmetric mean aggregation operators based on t-norm operations for the dual hesitant fuzzy soft set. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 375-410.	3.3	43
723	Investment Decision Making Based on the Asymmetric Hesitant Fuzzy Sigmoid Preference Relations. Studies in Fuzziness and Soft Computing, 2020, , 21-48.	0.6	1
724	Investment Decision Making Based on the Hesitant Fuzzy Preference Envelopment Analysis. Studies in Fuzziness and Soft Computing, 2020, , 75-94.	0.6	1
725	Investment Decision Making Based on the Hesitant Fuzzy Peer-Evaluation and Strategy Fusion. Studies in Fuzziness and Soft Computing, 2020, , 95-116.	0.6	2

#	Article	IF	Citations
727	Scientometric inspection of research progression in hesitant fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2020, 38, 619-626.	0.8	6
728	Iterative Algorithms to Manage the Consistency and Consensus for Group Decision-Making With Hesitant Multiplicative Preference Relations. IEEE Transactions on Fuzzy Systems, 2020, 28, 2944-2957.	6.5	16
729	A multi-criteria evaluation model based on hesitant fuzzy sets for blockchain technology in supply chain management. Journal of Intelligent and Fuzzy Systems, 2020, 38, 935-946.	0.8	45
730	A vertical ranking technique for linguistic hesitant fuzzy sets. Soft Computing, 2020, 24, 8997-9009.	2.1	2
731	A robust correlation coefficient for probabilistic dual hesitant fuzzy sets and its applications. Neural Computing and Applications, 2020, 32, 8847-8866.	3.2	50
732	A novel distance-based multiple attribute decision-making with hesitant fuzzy sets. Soft Computing, 2020, 24, 5005-5017.	2.1	12
733	A dynamic expert contribution-based consensus model for hesitant fuzzy group decision making with an application to water resources allocation selection. Soft Computing, 2020, 24, 4693-4708.	2.1	15
734	A Choquet Integral-Based GLDS Method for Green Supplier Selection with Hesitant Fuzzy Information. Advances in Intelligent Systems and Computing, 2020, , 273-282.	0.5	4
735	Hesitant interval-valued intuitionistic fuzzy-linguistic term set approach in Prisonersâ€™ dilemma game theory using TOPSIS: a case study on Human-trafficking. Central European Journal of Operations Research, 2020, 28, 797-816.	1.1	51
736	On weakly prioritized multicriteria decision analysis with interval-valued hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2020, 38, 531-543.	0.8	2
737	A low-carbon-orient product design schemes MCDM method hybridizing interval hesitant fuzzy set entropy theory and coupling network analysis. Soft Computing, 2020, 24, 5389-5408.	2.1	14
738	Group decision making with hesitant fuzzy linguistic preference relations. Information Sciences, 2020, 514, 354-368.	4.0	34
739	A heterogeneous QUALIFLEX method with criteria interaction for multi-criteria group decision making. Information Sciences, 2020, 512, 1481-1502.	4.0	46
740	Some new information measures for hesitant fuzzy PROMETHEE method and application to green supplier selection. Soft Computing, 2020, 24, 9179-9203.	2.1	44
741	Interval-valued neutrosophic hypothesis testing. Journal of Intelligent and Fuzzy Systems, 2020, 38, 1107-1117.	0.8	2
742	A TOPSIS method by using generalized trapezoidal hesitant fuzzy numbers and application to a robot selection problem. Journal of Intelligent and Fuzzy Systems, 2020, 38, 779-793.	0.8	46
743	Dynamic ensemble selection based on hesitant fuzzy multiple criteria decision making. Soft Computing, 2020, 24, 12241-12253.	2.1	12
744	On hesitant neutrosophic rough set over two universes and its application. Artificial Intelligence Review, 2020, 53, 4387-4406.	9.7	6

#	Article	IF	Citations
745	Normal wiggly hesitant fuzzy linguistic power Hamy mean aggregation operators and their application to multi-attribute decision-making. Computers and Industrial Engineering, 2020, 140, 106224.	3.4	24
746	Addressing site selection for earthquake shelters with hesitant multiplicative linguistic preference relation. Information Sciences, 2020, 516, 370-387.	4.0	13
747	Visualization analysis of the journal of intelligent & fuzzy systems (2002â€“2018). Journal of Intelligent and Fuzzy Systems, 2020, 38, 2979-2989.	0.8	4
748	Three-way group decisions based on multigranulation hesitant fuzzy decision-theoretic rough set over two universes. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2165-2179.	0.8	17
749	Some distance measures for type 2 hesitant fuzzy sets and their applications to multi-criteria group decision-making problems. Soft Computing, 2020, 24, 9965-9980.	2.1	15
750	Hesitant Fuzzy Multiple Integrals for Information Aggregation. International Journal of Fuzzy Systems, 2020, 22, 668-685.	2.3	6
751	A normal wiggly hesitant fuzzy linguistic projectionâ€based multiattributive border approximation area comparison method. International Journal of Intelligent Systems, 2020, 35, 432-469.	3.3	21
752	TODIM approach based on score function under hesitant 2-tuple linguistic environment. Journal of Intelligent and Fuzzy Systems, 2020, 38, 663-673.	0.8	2
753	Quantifying gesture information in brain hemorrhage patients using probabilistic dual hesitant fuzzy sets with unknown probability information. Computers and Industrial Engineering, 2020, 140, 106211.	3.4	71
754	Modified distance measure on hesitant fuzzy sets and its application in multi-criteria decision making problem. Opsearch, 2020, 57, 584-602.	1.1	8
755	Some power Heronian mean operators in multiple attribute decision-making based on q-rung orthopair hesitant fuzzy environment. Journal of Experimental and Theoretical Artificial Intelligence, 2020, 32, 909-937.	1.8	27
756	Qualitative hesitant fuzzy group decision making: An additively consistent probability and consensusâ€based perspective. Expert Systems, 2020, 37, e12510.	2.9	7
757	A Regret Theory-Based Decision-Making Method with A Reference Set under the Hesitant Fuzzy Environment. , 2020, , .		1
758	Several types of hesitant fuzzy filters on residuated lattices. Journal of Intelligent and Fuzzy Systems, 2020, 39, 3949-3956.	0.8	0
759	An (R,ÂS)-norm information measure for hesitant fuzzy sets and its application in decision-making. Computational and Applied Mathematics, 2020, 39, 1.	1.0	5
760	A novel assessment of bio-medical waste disposal methods using integrating weighting approach and hesitant fuzzy MOOSRA. Journal of Cleaner Production, 2020, 275, 122587.	4.6	67
761	Uncertainty measures for probabilistic hesitant fuzzy sets in multiple criteria decision making. International Journal of Intelligent Systems, 2020, 35, 1646-1679.	3.3	18
762	Interval probability hesitant fuzzy linguistic analytic hierarchy process and its application in talent selection. Journal of Intelligent and Fuzzy Systems, 2020, 39, 2627-2645.	0.8	4

#	Article	IF	Citations
763	A Novel Three-Phase LINMAP Method for Hybrid Multi-Criteria Group Decision Making With Dual Hesitant Fuzzy Truth Degrees. IEEE Access, 2020, 8, 112462-112483.	2.6	6
764	Investment decision making based on the probabilistic hesitant financial data: model and empirical study. Economic Research-Ekonomska Istrazivanja, 2020, , 1-21.	2.6	2
765	Hesitant Fuzzy Generalised Bonferroni Mean Operators Based on Archimedean Copula for Multiple-Attribute Decision-Making. Mathematical Problems in Engineering, 2020, 2020, 1-16.	0.6	2
766	Three-way group decisions under hesitant fuzzy linguistic environment for green supplier selection. Kybernetes, 2020, 49, 2919-2945.	1.2	22
767	New distance and similarity measures for hesitant fuzzy sets and their application in hierarchical clustering. Journal of Intelligent and Fuzzy Systems, 2020, 39, 4349-4360.	0.8	6
768	Hesitant Fuzzy SWARA-Complex Proportional Assessment Approach for Sustainable Supplier Selection (HF-SWARA-COPRAS). Symmetry, 2020, 12, 1152.	1.1	70
769	A Novel Group Decision-Making Approach for Hesitant Fuzzy Linguistic Term Sets and Its Application to VIKOR. Mathematical Problems in Engineering, 2020, 2020, 1-20.	0.6	2
770	A novel extended approach under hesitant fuzzy sets to design a framework for assessing the key challenges of digital health interventions adoption during the COVID-19 outbreak. Applied Soft Computing Journal, 2020, 96, 106613.	4.1	117
771	Hesitant Fuzzy Sets Based Symmetrical Model of Decision-Making for Estimating the Durability of Web Application. Symmetry, 2020, 12, 1770.	1.1	80
772	Assessment of E-waste site selection using MOOSRA based hesitant fuzzy multi-criteria decision making method. AIP Conference Proceedings, 2020, , .	0.3	0
773	Multiple-Attribute Decision-Making Problem Using TOPSIS and Choquet Integral with Hesitant Fuzzy Number Information. Mathematical Problems in Engineering, 2020, 2020, 1-12.	0.6	19
774	Hybrid TODIM Method for Law Enforcement Possibility Evaluation of Judgment Debtor. Mathematics, 2020, 8, 1806.	1.1	16
775	Application of New Method in Location of Logistics Centers. , 2020, , .		0
776	A decision-making approach based on multi Q-dual hesitant fuzzy soft rough model. Journal of Intelligent and Fuzzy Systems, 2020, 38, 1623-1635.	0.8	4
777	The Identification of Poverty Alleviation Targets Based on the Multiple Hybrid Decision-Making Algorithms. IEEE Access, 2020, 8, 169585-169593.	2.6	6
778	Integrations of Continuous Hesitant Fuzzy Information in Group Decision Making With a Case Study of Water Resources Emergency Management. IEEE Access, 2020, 8, 146134-146144.	2.6	4
779	Interval-Valued Complex Fuzzy Geometric Aggregation Operators and Their Application to Decision Making. Mathematical Problems in Engineering, 2020, 2020, 1-10.	0.6	4
780	Multiple Criteria Decision-Making Based on Vector Similarity Measures under the Framework of Dual Hesitant Fuzzy Sets. Discrete Dynamics in Nature and Society, 2020, 2020, 1-11.	0.5	6

#	Article	IF	Citations
781	Hesitant Fuzzy Decision-Making Method Based on Correlation Coefficient under Confidence Levels with Application to Multisensor Electronic Reconnaissance. Mathematical Problems in Engineering, 2020, 2020, 1-9.	0.6	0
782	Systems reliability assessment using hesitant fuzzy set. International Journal of Operational Research, 2020, 38, 1.	0.1	8
783	A novel multiple attribute decision making method based on grey relational projection and its application for e-commerce risk assessment. International Journal of Services, Technology and Management, 2020, 26, 305.	0.1	2
784	Generalized Shapley Choquet Integral Operator Based Method for Interactive Interval-Valued Hesitant Fuzzy Uncertain Linguistic Multi-Criteria Group Decision Making. IEEE Access, 2020, 8, 202194-202215.	2.6	7
785	Hybrid Hesitant Fuzzy Multi-Criteria Decision Making Method: A Symmetric Analysis of the Selection of the Best Water Distribution System. Symmetry, 2020, 12, 2096.	1.1	12
786	Sustainable Decision Making Using a Consensus Model for Consistent Hesitant Fuzzy Preference Relationsâ€"Water Allocation Management Case Study. Symmetry, 2020, 12, 1957.	1.1	1
787	Generalized Hesitant Fuzzy Ideals in Semigroups. Journal of Mathematics, 2020, 2020, 1-12.	0.5	3
788	The general formula of entropy and similarity measures for hesitant fuzzy linguistic term sets. Journal of Physics: Conference Series, 2020, 1544, 012040.	0.3	0
789	A novel probabilistic hesitant fuzzy portfolio selection model with value-at-risk and safety level of score. Engineering Computations, 2020, ahead-of-print, .	0.7	2
790	Extended hesitant fuzzy SWARA techniques to examine the criteria weights and VIKOR method for ranking alternatives. AIP Conference Proceedings, 2020, , .	0.3	3
791	Normal wiggly hesitant fuzzy TODIM approach for multiple attribute decision making. Journal of Intelligent and Fuzzy Systems, 2020, 39, 627-644.	0.8	15
792	Hesitant Fuzzy Linguistic Hamy Mean Aggregation Operators and Their Application to Linguistic Multiple Attribute Decision-Making. Mathematical Problems in Engineering, 2020, 2020, 1-22.	0.6	14
793	Decision making based on interval-valued complex single-valued neutrosophic hesitant fuzzy generalized hybrid weighted averaging operators. Journal of Intelligent and Fuzzy Systems, 2020, 38, 4359-4401.	0.8	32
794	Waterâ€"Energyâ€"Food nexus evaluation with a social network group decision making approach based on hesitant fuzzy preference relations. Applied Soft Computing Journal, 2020, 93, 106363.	4.1	29
795	A Choquet integral-based hesitant fuzzy gained and lost dominance score method for multi-criteria group decision making considering the risk preferences of experts: Case study of higher business education evaluation. Information Fusion, 2020, 62, 121-133.	11.7	40
796	Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7889-7902.	5.9	18
797	HFSMOOK-Means: An Improved K-Means Algorithm Using Hesitant Fuzzy Sets and Multi-objective Optimization. Arabian Journal for Science and Engineering, 2020, 45, 6241-6257.	1.7	6
798	Generalized hesitant multiplicative preference relations and the analytic risk-network process. Information Sciences, 2020, 540, 345-369.	4.0	1

#	Article	IF	Citations
799	Cosine-similarity based approach for weights determination under hesitant fuzzy environment and its extension to priority derivation. Journal of Intelligent and Fuzzy Systems, 2020, 38, 2261-2271.	0.8	3
800	An extended GEDM method with heterogeneous reference points of decision makers and a new hesitant fuzzy distance formula. Computers and Industrial Engineering, 2020, 146, 106533.	3.4	9
801	Generalized hesitant fuzzy information fusion using extended partitioned Bonferroni mean operator with application in decision-making. Computational and Applied Mathematics, 2020, 39, 1.	1.0	3
802	A Knowledge-Based Integrated System of Hesitant Fuzzy Set, AHP and TOPSIS for Evaluating Security-Durability of Web Applications. IEEE Access, 2020, 8, 48870-48885.	2.6	41
803	Group decision making based on acceptable multiplicative consistency of hesitant fuzzy preference relations. Information Sciences, 2020, 524, 77-96.	4.0	33
804	Understanding Interdependencies among Social Sustainability Evaluation Criteria in an Emerging Economy. Sustainability, 2020, 12, 1934.	1.6	13
805	Correlation coefficients of dual typeâ€2 hesitant fuzzy sets and their applications in clustering analysis. International Journal of Intelligent Systems, 2020, 35, 1200-1229.	3.3	43
806	Hesitant fuzzy psychological distance measure. International Journal of Machine Learning and Cybernetics, 2020, 11, 2089-2100.	2.3	12
807	Hesitant fuzzy numbers with (Î±, k)-cuts in compact intervals and applications. Expert Systems With Applications, 2020, 151, 113363.	4.4	17
808	Multi-Granulation Picture Hesitant Fuzzy Rough Sets. Symmetry, 2020, 12, 362.	1.1	6
809	A Stochastic Multi-Attribute Method for Measuring Sustainability Performance of a Supplier Based on a Triple Bottom Line Approach in a Dual Hesitant Fuzzy Linguistic Environment. International Journal of Environmental Research and Public Health, 2020, 17, 2138.	1.2	15
810	Probabilistic hesitant fuzzy multiple attribute decision-making based on regret theory for the evaluation of venture capital projects. Economic Research-Ekonomska Istrazivanja, 2020, 33, 672-697.	2.6	23
811	Archimedean geometric Heronian mean aggregation operators based on dual hesitant fuzzy set and their application to multiple attribute decision making. Soft Computing, 2020, 24, 14721-14733.	2.1	6
812	Visibility Graph Power Geometric Aggregation Operator and Its Application in Water, Energy and Food Efficiency Evaluation. International Journal of Environmental Research and Public Health, 2020, 17, 3891.	1.2	1
813	An Understandable Way to Extend the Ordinary Linear Order on Real Numbers to a Linear Order on Interval Numbers. IEEE Transactions on Fuzzy Systems, 2021, 29, 2675-2688.	6.5	9
814	The optimized evidence k-Nearest Neighbor based on FOA under the hesitant fuzzy environment and its application in classification. Journal of Intelligent and Fuzzy Systems, 2020, 39, 1119-1129.	0.8	2
815	Feature-based hesitant fuzzy aggregation method for satisfaction with life scale. Applied Soft Computing Journal, 2020, 94, 106493.	4.1	9
816	Hesitant fuzzy C-means algorithm and its application in image segmentationâ€. Journal of Intelligent and Fuzzy Systems, 2020, 39, 3681-3695.	0.8	6

#	Article	IF	Citations
817	Similarity Measure of Hesitant Fuzzy Sets Based on Implication Function and Clustering Analysis. IEEE Access, 2020, 8, 119995-120008.	2.6	2
818	Evolutive preference analysis with online consumer ratings. Information Sciences, 2020, 541, 332-344.	4.0	12
819	Archimedean Copula-Based Hesitant Fuzzy Information Aggregation Operators for Multiple Attribute Decision Making. Mathematical Problems in Engineering, 2020, 2020, 1-21.	0.6	2
820	Linguistic Z-number weighted averaging operators and their application to portfolio selection problem. PLoS ONE, 2020, 15, e0227307.	1.1	16
822	Optimal Interaction Priority Calculation From Hesitant Fuzzy Preference Relations Based on the Monte Carlo Simulation Method for the Acceptable Consistency and Consensus. IEEE Transactions on Cybernetics, 2021, 51, 5871-5882.	6.2	12
823	Knowledge measure of hesitant fuzzy set and its application in multi-attribute decision-making. Computational and Applied Mathematics, 2020, 39, 1.	1.0	28
824	Generalized hesitant fuzzy rough sets (GHFRS) and their application in risk analysis. Soft Computing, 2020, 24, 14005-14017.	2.1	12
825	New method for interval-valued hesitant fuzzy decision making based on preference relations. Soft Computing, 2020, 24, 13381-13399.	2.1	4
826	Dynamic hesitant fuzzy Bayesian network and its application in the optimal investment port decision making problem of â€œtwenty-first century maritime silk roadâ€• Applied Intelligence, 2020, 50, 1846-1858.	3.3	16
827	Development of Archimedean tâ€•norm and tâ€•conormâ€•based intervalâ€•valued dual hesitant fuzzy aggregation operators with their application in multicriteria decision making. Engineering Reports, 2020, 2, e12106.	0.9	3
828	Hesitant Fuzzy Entropy-Based Opportunistic Clustering and Data Fusion Algorithm for Heterogeneous Wireless Sensor Networks. Sensors, 2020, 20, 913.	2.1	24
829	Interval-Valued Pythagorean Hesitant Fuzzy Set and Its Application to Multiattribute Group Decision-Making. Complexity, 2020, 2020, 1-26.	0.9	16
830	Prospect theory based method for heterogeneous group decision making with hybrid truth degrees of alternative comparisons. Computers and Industrial Engineering, 2020, 141, 106285.	3.4	44
831	An ORESTE approach for multi-criteria decision-making with probabilistic hesitant fuzzy information. International Journal of Machine Learning and Cybernetics, 2020, 11, 1591-1609.	2.3	48
832	Distance Measures for Multiple-Attributes Decision-Making Based on Connection Numbers of Set Pair Analysis With Dual Hesitant Fuzzy Sets. IEEE Access, 2020, 8, 9172-9184.	2.6	9
833	Multi-criteria evaluation of energy storage technologies based on hesitant fuzzy information: A case study for Turkey. Journal of Energy Storage, 2020, 28, 101211.	3.9	69
834	Correlation Coefficients of Interval-Valued Pythagorean Hesitant Fuzzy Sets and Their Applications. IEEE Access, 2020, 8, 9271-9286.	2.6	11
835	Generalized trapezoidal cubic linguistic fuzzy ordered weighted average operator and group decision-making. Soft Computing, 2020, 24, 3155-3171.	2.1	2

#	Article	IF	Citations
836	Multi-parameter Portfolio Selection Model with Some Novel Score-Deviation Under Dual Hesitant Fuzzy Environment. International Journal of Fuzzy Systems, 2020, 22, 1123-1141.	2.3	8
837	A Method of Uncertainty Measurements for Multidimensional Z-number and Their Applications. Mathematical Problems in Engineering, 2020, 2020, 1-16.	0.6	3
838	Study on Hesitant Fuzzy Multiattribute Quality Evaluation Based on Surface Defect Information of Autobody Panels. Mathematical Problems in Engineering, 2020, 2020, 1-10.	0.6	4
839	A consensus-based approach for multi-criteria decision making with probabilistic hesitant fuzzy information. Soft Computing, 2020, 24, 15577-15594.	2.1	6
840	A New Hesitant Fuzzy-Based Forecasting Method Integrated with Clustering and Modified Smoothing Approach. International Journal of Fuzzy Systems, 2020, 22, 1104-1117.	2.3	9
841	A Novel Three-Way Investment Decisions Based on Decision-Theoretic Rough Sets with Hesitant Fuzzy Information. International Journal of Fuzzy Systems, 2020, 22, 2708-2719.	2.3	25
842	Behavioral factors on the adoption of sustainable supply chain practices. Resources, Conservation and Recycling, 2020, 158, 104818.	5.3	49
843	Hesitant Fuzzy Concept Lattice and its Application. IEEE Access, 2020, 8, 59774-59786.	2.6	3
844	Multi objective programming problem in the hesitant fuzzy environment. Applied Intelligence, 2020, 50, 2991-3006.	3.3	11
845	Coupling coordination degree for urbanization city-industry integration level: Sichuan case. Sustainable Cities and Society, 2020, 58, 102136.	5.1	97
846	On typical hesitant fuzzy automata. Soft Computing, 2020, 24, 8725-8736.	2.1	6
848	Developing the comparison techniques of probabilistic hesitant fuzzy elements in multiple criteria decision making. Soft Computing, 2021, 25, 331-342.	2.1	6
849	Generalized trapezoidal hesitant fuzzy numbers and their applications to multi criteria decision-making problems. Soft Computing, 2021, 25, 1017-1032.	2.1	28
850	Hesitant fuzzy parameterized soft sets and their applications in decision making. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 1869-1878.	3.3	10
851	An improved TODIM method based on the hesitant fuzzy psychological distance measure. International Journal of Machine Learning and Cybernetics, 2021, 12, 973-985.	2.3	6
852	Enhanced fuzzy time series forecasting model based on hesitant differential fuzzy sets and error learning. Expert Systems With Applications, 2021, 166, 114056.	4.4	16
853	A hesitant fuzzy wind speed forecasting system with novel defuzzification method and multi-objective optimization algorithm. Expert Systems With Applications, 2021, 168, 114364.	4.4	30
854	A consensus measure for group decision making with hesitant linguistic preference information based on double alpha-cut. Applied Soft Computing Journal, 2021, 98, 106890.	4.1	14

#	Article	IF	Citations
855	Frank Aggregation Operators and Their Application to Probabilistic Hesitant Fuzzy Multiple Attribute Decision-Making. International Journal of Fuzzy Systems, 2021, 23, 194-215.	2.3	40
856	Hesitant fuzzy N-soft ELECTRE-II model: a new framework for decision-making. Neural Computing and Applications, 2021, 33, 7505-7520.	3.2	25
857	Three-way multi-attribute decision making under hesitant fuzzy environments. Information Sciences, 2021, 552, 328-351.	4.0	52
858	Weighted dual hesitant fuzzy set and its application in group decision making. Neurocomputing, 2021, 458, 714-726.	3.5	17
859	A normal wiggly hesitant fuzzy MABAC method based on CCSD and prospect theory for multiple attribute decision making. International Journal of Intelligent Systems, 2021, 36, 447-477.	3.3	41
860	An improved Taguchi multi-criteria decision-making method based on the hesitant fuzzy correlation coefficient and its application in quality evaluation. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 8241-8254.	3.3	3
861	A trust-enhanced and preference-aware collaborative method for recommending new energy vehicle. Environmental Science and Pollution Research, 2021, 28, 7901-7917.	2.7	7
862	Double hierarchy linguistic term set and its extensions: The stateâ€ofâ€theâ€art survey. International Journal of Intelligent Systems, 2021, 36, 832-865.	3.3	23
863	Positioning pushâ€“pull boundary in a hesitant fuzzy environment. Expert Systems, 2021, 38, e12616.	2.9	1
864	Solving matrix games based on Ambika method with hesitant fuzzy information and its application in the counter-terrorism issue. Applied Intelligence, 2021, 51, 1227-1243.	3.3	19
865	Hybrid vector similarity measures based on complex hesitant fuzzy sets and their applications to pattern recognition and medical diagnosis. Journal of Intelligent and Fuzzy Systems, 2021, 40, 625-646.	0.8	37
866	Intuitionistic interval-valued hesitant fuzzy matrix games with a new aggregation operator for solving management problem. Granular Computing, 2021, 6, 359-375.	4.4	26
867	Aggregation operators on cubic linguistic hesitant fuzzy numbers and their application in group decision-making. Granular Computing, 2021, 6, 303-320.	4.4	16
868	A Thermodynamic Method for Hesitant Fuzzy Decision Making Based on Prospect Theory. Studies in Fuzziness and Soft Computing, 2021, , 45-62.	0.6	0
869	Prospect Theory based Hesitant Fuzzy Multi-Criteria Decision Making for Low Sulphur Fuel of Maritime Transportation. Computers, Materials and Continua, 2021, 66, 1511-1528.	1.5	8
870	An Integrated Hesitant Fuzzy Decision Model for Sustainable Wind Farm Site Selection: The Case Study in the Central Anatolian Region of Turkey. Green Energy and Technology, 2021, , 195-218.	0.4	0
871	Evidential Reasoning With Hesitant Fuzzy Belief Structures for Human Activity Recognition. IEEE Transactions on Fuzzy Systems, 2021, 29, 3607-3619.	6.5	27
872	Some Novel Cosine Similarity Measures Based on Complex Hesitant Fuzzy Sets and Their Applications. Journal of Mathematics, 2021, 2021, 1-20.	0.5	18

#	Article	IF	Citations
873	Bonferroni mean operators of generalized trapezoidal hesitant fuzzy numbers and their application to decision-making problems. Soft Computing, 2021, 25, 4925-4949.	2.1	27
874	Hesitant Fuzzy Linear Fractional Programming Problem. Advances in Intelligent Systems and Computing, 2021, , 864-872.	0.5	0
875	A decisionâ€making methodology based on the weighted correlation coefficient in weighted extended hesitant fuzzy environments. International Journal of Intelligent Systems, 2021, 36, 1485-1534.	3.3	2
876	Analysis of acceptable additive consistency and consensus of group decision making with interval-valued hesitant fuzzy preference relations. Neural Computing and Applications, 2021, 33, 7747-7772.	3.2	8
877	An Overview on Recent Researches of Uncertain Group Decision Making: Methodology, Framework and Development. International Journal of Information Technology and Decision Making, 2021, 20, 165-198.	2.3	5
878	A Multi-Attribute Decision Method under Uncertainty Environment Conditionsâ€"The Green Supplier Evaluation Perspective. International Journal of Environmental Research and Public Health, 2021, 18, 344.	1.2	9
879	Hesitant fuzzy graphs, hesitant fuzzy hypergraphs and fuzzy graph decisions1. Journal of Intelligent and Fuzzy Systems, 2021, 40, 865-875.	0.8	6
880	A series of information measures of hesitant fuzzy soft sets and their application in decision making. Soft Computing, 2021, 25, 4771-4784.	2.1	15
881	Risk Assessment in Failure Mode and Effect Analysis: Improved ORESTE Method With Hesitant Pythagorean Fuzzy Information. IEEE Transactions on Engineering Management, 2023, 70, 2115-2137.	2.4	17
882	Evolutionary Computation of the Generalized Hesitant Fuzzy Envelopment Analysis and Its Application in the Contractor Selection of Green Building Project. IEEE Transactions on Engineering Management, 2023, 70, 3622-3636.	2.4	1
883	A Hesitant Fuzzy Combined Compromise Solution Framework-Based on Discrimination Measure for Ranking Sustainable Third-Party Reverse Logistic Providers. Sustainability, 2021, 13, 2064.	1.6	39
884	Distance-Based Large-Scale Group Decision-Making Method with Group Influence. International Journal of Fuzzy Systems, 2021, 23, 535-554.	2.3	9
885	GREEN SUPPLIER SELECTION BASED ON CODAS METHOD IN PROBABILISTIC UNCERTAIN LINGUISTIC ENVIRONMENT. Technological and Economic Development of Economy, 2021, 27, 530-549.	2.3	59
886	The multi-fuzzy N-soft set and its applications to decision-making. Neural Computing and Applications, 2021, 33, 11437-11446.	3.2	35
887	Identification of dominant risk factor involved in spread of COVID-19 using hesitant fuzzy MCDM methodology. Results in Physics, 2021, 21, 103811.	2.0	60
888	A decision framework under probabilistic hesitant fuzzy environment with probability estimation for multi-criteria decision making. Neural Computing and Applications, 2021, 33, 8417-8433.	3.2	18
889	Hesitant fuzzy power Maclaurin symmetric mean operators in the framework of Dempsterâ€"Shafer theory for multiple criteria decision making. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 1777-1797.	3.3	10
890	A Cognitive Information-Based Decision-Making Algorithm Using Interval-Valued q-Rung Picture Fuzzy Numbers and Heronian Mean Operators. Cognitive Computation, 2021, 13, 357-380.	3.6	8

#	Article	IF	Citations
891	Evaluating barriers and solutions for social sustainability adoption in multi-tier supply chains. International Journal of Production Research, 2021, 59, 3378-3397.	4.9	76
892	A modified class of correlation coefficients of hesitant fuzzy information. Soft Computing, 2021, 25, 7009-7028.	2.1	4
893	Distance measures on intuitionistic hesitant fuzzy set and its application in decision-making. Computational and Applied Mathematics, 2021, 40, 1.	1.0	10
894	Probabilistic hesitant fuzzy TOPSIS emergency decision-making method based on the cumulative prospect theory. Journal of Intelligent and Fuzzy Systems, 2021, 40, 4367-4383.	0.8	25
895	Extended TOPSIS Method for Supplier Selection under Picture Hesitant Fuzzy Environment Using Linguistic Variables. Journal of Mathematics, 2021, 2021, 1-28.	0.5	10
896	Research on hesitant fuzzy clustering method based on fuzzy matroids. Journal of Intelligent and Fuzzy Systems, 2021, 40, 9031-9039.	0.8	1
897	Introducing a new type of HFSs and its application in solving MAGDM problems. Journal of Intelligent and Fuzzy Systems, 2021, 40, 9333-9344.	0.8	0
898	A three-way decision method based onÂhybrid data1. Journal of Intelligent and Fuzzy Systems, 2021, 40, 8639-8650.	0.8	4
899	Dynamic aggregation operators and Einstein operations based on interval-valued picture hesitant fuzzy information and their applications in multi-period decision making. Computational and Applied Mathematics, 2021, 40, 1.	1.0	31
900	A Novel Approach of Complex Dual Hesitant Fuzzy Sets and Their Applications in Pattern Recognition and Medical Diagnosis. Journal of Mathematics, 2021, 2021, 1-31.	0.5	10
901	EDAS method for decision support modeling under the Pythagorean probabilistic hesitant fuzzy aggregation information. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 5491-5504.	3.3	22
902	Hesitant fuzzy multi-attribute group decision making method based on weighted power operators in social network and their application. Journal of Intelligent and Fuzzy Systems, 2021, 40, 9383-9401.	0.8	5
903	The optimized GRNN based on the FDS-FOA under the hesitant fuzzy environment and its application in air quality index prediction. Applied Intelligence, 2021, 51, 8365-8376.	3.3	13
904	A Decision Support Model for Hotel Recommendation Based on the Online Consumer Reviews Using Logarithmic Spherical Hesitant Fuzzy Information. Entropy, 2021, 23, 432.	1.1	7
905	The DEMATELâ€“COPRAS hybrid method under probabilistic linguistic environment and its application in Third Party Logistics provider selection. Fuzzy Optimization and Decision Making, 2022, 21, 137-156.	3.4	31
906	Dual hesitant fuzzy decision making in optimization models. Computers and Industrial Engineering, 2021, 154, 107103.	3.4	8
907	Soft Computing Under Uncertain Knowledge. Journal of Advanced Thermal Science Research, 0, 8, 1-15.	0.4	0
908	Stakeholdersâ€™ environmental preferences based corporate environmental information influencing factors research. Environmental Quality Management, 2021, 30, 113-125.	1.0	2

#	Article	IF	Citations
909	Interval-valued probabilistic uncertain linguistic information for decision-making: selection of hydrogen production methodology. Soft Computing, 2021, 25, 9121-9138.	2.1	4
910	A consensus reaching process for largeâ€scale group decision making with heterogeneous preference information. International Journal of Intelligent Systems, 2021, 36, 4560-4591.	3.3	28
911	An Optimized Logistic Regression Model Based on the Maximum Entropy Estimation Under the Hesitant Fuzzy Environment. International Journal of Information Technology and Decision Making, 2022, 21, 143-167.	2.3	6
912	Multiple-Attribute Decision-Making Method Based on Normalized Geometric Aggregation Operators of Single-Valued Neutrosophic Hesitant Fuzzy Information. Complexity, 2021, 2021, 1-15.	0.9	6
913	An extended fuzzy decision-making framework using hesitant fuzzy sets for the drug selection to treat the mild symptoms of Coronavirus Disease 2019 (COVID-19). Applied Soft Computing Journal, 2021, 103, 107155.	4.1	71
914	Uncertainty quantification in the fixation of Drug Dosage to cancer-induced Rats â€“ A computational and Mathematical modeling using Fuzzy evidence theory. Journal of Physics: Conference Series, 2021, 1850, 012056.	0.3	0
915	Aggregation of Sentiment Analysis Index with Hesitant Fuzzy Sets for Financial Time Series Forecasting. , 2021, , .		0
916	A hybrid fuzzy BWM-VIKOR MCDM to evaluate the service level of bike-sharing companies: A case study from Chengdu, China. Journal of Cleaner Production, 2021, 298, 126759.	4.6	32
917	An extended TDM method under probabilistic interval-valued hesitant fuzzy environment for stock selection. PLoS ONE, 2021, 16, e0252115.	1.1	1
918	Modified Expression to Evaluate the Correlation Coefficient of Dual Hesitant Fuzzy Sets and Its Application to Multi-Attribute Decision Making. , 0, , .		1
919	Probabilistic Hesitation Fuzzy Linguistic Preference Relationship and Its Application in Distance Education. , 2021, , .		0
920	An approach to probabilistic hesitant fuzzy risky multiattribute decision making with unknown probability information. International Journal of Intelligent Systems, 2021, 36, 5714-5740.	3.3	18
921	A review on fuzzy preference modeling methods for group decision-making. Journal of Intelligent and Fuzzy Systems, 2021, 40, 10645-10660.	0.8	6
922	Ranking Tourist Attractions through Online Reviews: A Novel Method with Intuitionistic and Hesitant Fuzzy Information Based on Sentiment Analysis. International Journal of Fuzzy Systems, 2022, 24, 755-777.	2.3	29
923	Extended TOPSIS method based on the entropy measure and probabilistic hesitant fuzzy information and their application in decision support system. Journal of Intelligent and Fuzzy Systems, 2021, 40, 11479-11490.	0.8	14
924	An extended hesitant fuzzy set using SWARA-MULTIMOORA approach to adapt online education for the control of the pandemic spread of COVID-19 in higher education institutions. Artificial Intelligence Review, 2022, 55, 181-206.	9.7	45
925	Group decision making based on the modified probability calculation method and DEA cross-efficiency with probabilistic hesitant fuzzy preference relations. Computers and Industrial Engineering, 2021, 156, 107262.	3.4	26
926	Extended Cumulative Residual Entropy for Emergency Group Decision-Making Under Probabilistic Hesitant Fuzzy Environment. International Journal of Fuzzy Systems, 2022, 24, 159-179.	2.3	19

#	Article	IF	Citations
927	An interval type-2 hesitant fuzzy best-worst method. Journal of Intelligent and Fuzzy Systems, 2021, 40, 11625-11652.	0.8	9
928	Parallel hesitant fuzzy C-means algorithm to image segmentation. Signal, Image and Video Processing, 2022, 16, 73-81.	1.7	2
929	Fuzzy Reliability Appraisal Using Interval-Valued Intuitionistic Hesitant Fuzzy Element and Score Function. International Journal of Reliability, Quality and Safety Engineering, 0, , 2140005.	0.4	0
930	Pythagorean probabilistic hesitant fuzzy aggregation operators and their application in decision-making. Kybernetes, 2022, 51, 1626-1652.	1.2	21
931	Hesitant Mahalanobis distance with applications to estimating the optimal number of clusters. International Journal of Intelligent Systems, 2021, 36, 5264-5306.	3.3	4
932	Probabilistic Linguistic Group Decision-Making Method Based on Attribute Decision and Multiplicative Preference Relations. International Journal of Fuzzy Systems, 2021, 23, 2200.	2.3	4
933	Z-Score Functions of Hesitant Fuzzy Sets. Mathematics and Statistics, 2021, 9, 445-455.	0.2	3
934	Complex hesitant fuzzy sets and its applications in multiple attributes decision-making problems. Journal of Intelligent and Fuzzy Systems, 2021, 41, 7299-7327.	0.8	26
935	Hesitant Fuzzy Soft Combined Compromise Solution Method for IoE Companiesâ€™ Evaluation. International Journal of Fuzzy Systems, 2022, 24, 457-473.	2.3	4
936	Emergency Optimization Decision-Making with Incomplete Probabilistic Information under the Background of COVID-19. Complexity, 2021, 2021, 1-16.	0.9	4
937	Selection of an alternative based on interval-valued hesitant picture fuzzy sets. Journal of Intelligent and Fuzzy Systems, 2021, 42, 551-561.	0.8	1
938	An score index for hesitant fuzzy sets based on the Choquet integral. , 2021, , .		2
939	TODIM Method Based on Cumulative Prospect Theory for Multiple Attributes Group Decision Making Under Probabilistic Hesitant Fuzzy Setting. International Journal of Fuzzy Systems, 2022, 24, 322-339.	2.3	62
940	A Hesitant Intuitionistic Fuzzy Set Approach to Study Ideals of Semirings. International Journal of Fuzzy System Applications, 2021, 10, 1-17.	0.5	3
941	Approaches for multicriteria decision-making based on the hesitant fuzzy bestâ€“worst method. Complex & Intelligent Systems, 2021, 7, 2617-2634.	4.0	9
942	A New Hesitant Fuzzy Rule Base System for Ranking Hydro Power Plant Site Selection. New Mathematics and Natural Computation, 0, , .	0.4	0
944	Hesitant fuzzy Î² covering rough sets and applications in multi-attribute decision making. Journal of Intelligent and Fuzzy Systems, 2021, 41, 2387-2402.	0.8	2
945	Generalized hesitant fuzzy numbers: Introducing, arithmetic operations, aggregation operators, and an application. International Journal of Intelligent Systems, 2021, 36, 7709-7730.	3.3	5

#	Article	IF	Citations
946	Research on hesitant fuzzy matroid based on satisfaction function. Journal of Intelligent and Fuzzy Systems, 2021, , 1-10.	0.8	0
947	Archimedean t-Norm and t-Conorm-Based Aggregation Operators of HFNs, with the Approach of Improving Education. International Journal of Fuzzy Systems, 2022, 24, 310-321.	2.3	12
948	An Interval-Valued Intuitionistic Hesitant Fuzzy Methodology and Application. New Generation Computing, 2021, 39, 377-407.	2.5	4
949	An Intelligent Approach to Evaluating CAD Software Packages through Hesitant Fuzzy AHP. Journal of Advanced Manufacturing Systems, 0, , .	0.4	2
950	Two-person game with hesitant fuzzy payoff: An application in MADM. RAIRO - Operations Research, 2021, 55, 3087-3105.	1.0	5
951	Multiple-attribute decision making method based on power generalized maclaurin symmetric mean operators under normal wiggly hesitant fuzzy environment. Journal of Intelligent and Fuzzy Systems, 2021, 41, 3895-3920.	0.8	11
952	Granulized Zâ€OWA aggregation operator and its application in fuzzy risk assessment. International Journal of Intelligent Systems, 2022, 37, 1479-1508.	3.3	8
953	CPT-MABAC-Based multiple attribute group decision making method with probabilistic hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2021, 41, 6999-7014.	0.8	14
954	Multi-attribute group decision-making based on Bonferroni mean operators for picture hesitant fuzzy numbers. Soft Computing, 2021, 25, 13315-13351.	2.1	11
955	A New Interval-Valued Hesitant Fuzzy-Based Optimization Method. New Mathematics and Natural Computation, 2022, 18, 469-494.	0.4	2
956	Implementation of MCDM-Based Integrated Approach to Identifying the Uncertainty Factors on the Constructional Project. Mathematical Problems in Engineering, 2021, 2021, 1-12.	0.6	7
957	Global fusion of multiple order relations and hesitant fuzzy decision analysis. Applied Intelligence, 0, , 1.	3.3	2
958	A Single-Valued Extended Hesitant Fuzzy Score-Based Technique for Probabilistic Hesitant Fuzzy Multiple Criteria Decision-Making. Complexity, 2021, 2021, 1-19.	0.9	1
959	Optimized data manipulation methods for intensive hesitant fuzzy set with applications to decision making. Information Sciences, 2021, 580, 55-68.	4.0	9
960	A decision-theoretic fuzzy rough set in hesitant fuzzy information systems and its application in multi-attribute decision-making. Information Sciences, 2021, 579, 103-127.	4.0	43
961	A novel three-way decision approach under hesitant fuzzy information. Information Sciences, 2021, 578, 482-506.	4.0	23
962	Novel correlation coefficient between hesitant fuzzy sets with application to medical diagnosis. Expert Systems With Applications, 2021, 183, 115393.	4.4	45
963	Three-way conflict analysis based on hesitant fuzzy information systems. International Journal of Approximate Reasoning, 2021, 139, 12-27.	1.9	24

#	Article	IF	Citations
964	Hesitant Fuzzy-Sets Based Decision-Making Model for Security Risk Assessment. Computers, Materials and Continua, 2022, 70, 2297-2317.	1.5	6
965	Multi-Level Hesitant Fuzzy Based Model for Usable-Security Assessment. Intelligent Automation and Soft Computing, 2022, 31, 61-82.	1.6	8
966	A New Solution for the Generalized Shortest Path Problem. Advances in Intelligent Systems and Computing, 2021, , 321-327.	0.5	0
967	A Multiple Attribute Decision-Making Method Based On Free Double Hierarchy Hesitant Fuzzy Linguistic Information Considering the Prioritized and Interactive Attributes. International Journal of Information Technology and Decision Making, 2021, 20, 225-259.	2.3	4
968	Fuzzy System Reliability Using Hesitant Fuzzy Element and Score Function. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 209-221.	0.5	0
969	Bulbul Disaster Assessment Using Single-Valued Spherical Hesitant Neutrosophic Dombi Weighted Aggregation Operators. , 2021, , 221-243.		2
970	Some new hybrid hesitant fuzzy weighted aggregation operators based on Archimedean and Dombi operations for multi-attribute decision making. Neural Computing and Applications, 2021, 33, 8753-8776.	3.2	38
972	An Initial Study on Typical Hesitant (T,N)-Implication Functions. Communications in Computer and Information Science, 2020, , 747-760.	0.4	2
974	Possible-Degree Generalized Hesitant Fuzzy Set and Its Application in MADM. Advances in Intelligent Systems and Computing, 2014, , 1-12.	0.5	1
975	Applications of probabilistic hesitant fuzzy rough set in decision support system. Soft Computing, 2020, 24, 16759-16774.	2.1	37
976	Dual Hesitant Fuzzy Soft Aggregation Operators and Their Application in Decision-Making. Cognitive Computation, 2018, 10, 769-789.	3.6	78
977	Hesitant interval neutrosophic linguistic set and its application in multiple attribute decision making. International Journal of Machine Learning and Cybernetics, 2019, 10, 667-678.	2.3	23
978	Multi-criteria decision-making approaches based on distance measures for linguistic hesitant fuzzy sets. Journal of the Operational Research Society, 0, , .	2.1	27
979	An outranking method for multicriteria decision making with probabilistic hesitant information. Expert Systems, 2020, 37, e12513.	2.9	10
980	A Hesitant Fuzzy Based Medical Diagnosis Problem. International Journal on Data Science and Technology, 2017, 3, 1.	0.1	9
981	An Approach to Evaluating Three-Dimension Reconstruction Image Quality with Hesitant Fuzzy Information. Journal of Computational and Theoretical Nanoscience, 2018, 15, 273-277.	0.4	1
982	Normalized Geometric Bonferroni Operators of Hesitant Fuzzy Sets and Their Application in Multiple Attribute Decision Making. Journal of Information and Computational Science, 2013, 10, 2815-2822.	0.1	15
983	Triangular Hesitant Fuzzy Set and Its Application to Teaching Quality Evaluation. Journal of Information and Computational Science, 2013, 10, 1925-1934.	0.1	78

#	Article	IF	Citations
984	The Probabilistic Hesitant Fuzzy Weighted Average Operators and Their Application in Strategic Decision Making. Journal of Information and Computational Science, 2013, 10, 3841-3848.	0.1	16
985	Hesitant fuzzy prefilters and filters of EQ-algebras. Applied Mathematical Sciences, 0, 9, 515-532.	0.0	10
986	MULTIATTRIBUTE WAREHOUSE LOCATION SELECTION IN HUMANITARIAN LOGISTICS USING HESITANT FUZZY AHP. International Journal of the Analytic Hierarchy Process, 2016, 8, .	0.2	16
987	TOPSIS Method for Neutrosophic Hesitant Fuzzy Multi-Attribute Decision Making. Informatica, 2020, , 35-63.	1.5	10
988	An Approach to Interval-Valued Hesitant Fuzzy Multi-Attribute Decision Making with Incomplete Weight Information Based on Hybrid Shapley Operators. Informatica, 2014, 25, 617-642.	1.5	21
989	A Hesitant Fuzzy Programming Method for Hybrid MADM with Incomplete Attribute Weight Information. Informatica, 2016, 27, 863-892.	1.5	16
990	NH-MADM Strategy in Neutrosophic Hesitant Fuzzy Set Environment Based on Extended GRA. Informatica, 2019, 30, 213-242.	1.5	13
991	Hesitant fuzzy linguistic two-sided matching decision making. Filomat, 2018, 32, 1853-1860.	0.2	8
992	Triangular hesitant fuzzy preference relations and their applications in multi-criteria group decision-making. Filomat, 2019, 33, 917-930.	0.2	2
993	Typical Hesitant Fuzzy Sets: Evaluating Strategies in GDM Applying Consensus Measures. , 0, , .		2
994	Distance and Similarity Measures for Intuitionistic Hesitant Fuzzy Sets. , 2016, , .		6
995	Construction of Typical Hesitant Triangular Norms regarding Xu-Xia-partial Order. , 0, , .		7
996	Present Worth Analysis Using Hesitant Fuzzy Sets. , 0, , .		5
997	New correlation coefficients for hesitant fuzzy sets. , 0, , .		4
998	A Novel MAGDM Approach With Proportional Hesitant Fuzzy Sets. International Journal of Computational Intelligence Systems, 2018, 11, 256.	1.6	20
999	An orthogonal clustering method under hesitant fuzzy environment. International Journal of Computational Intelligence Systems, 2017, 10, 663.	1.6	4
1000	Linguistic hesitant intuitionistic fuzzy cross-entropy measures. International Journal of Computational Intelligence Systems, 2017, 10, 120.	1.6	10
1001	Dual hesitant fuzzy aggregation operators based on Bonferroni means and their applications to multiple attribute decision making. Annals of Fuzzy Mathematics and Informatics, 2017, 14, 265-278.	0.7	12

#	Article	IF	Citations
1002	System Reliability Analysis Based On Weibull Distribution and Hesitant Fuzzy Set. International Journal of Mathematical, Engineering and Management Sciences, 2018, 3, 513-521.	0.4	17
1003	Fuzzy Reliability Based on Hesitant and Dual Hesitant Fuzzy Set Evaluation. International Journal of Mathematical, Engineering and Management Sciences, 2020, 6, 166-179.	0.4	7
1004	A METHOD BASED ON TOPSIS AND DISTANCE MEASURES FOR HESITANT FUZZY MULTIPLE ATTRIBUTE DECISION MAKING. Technological and Economic Development of Economy, 2018, 24, 969-983.	2.3	61
1005	PROBABILITY-HESITANT FUZZY SETS AND THE REPRESENTATION OF PREFERENCE RELATIONS. Technological and Economic Development of Economy, 2018, 24, 1029-1040.	2.3	74
1006	A BI-OBJECTIVE SCORE-VARIANCE BASED LINEAR ASSIGNMENT METHOD FOR GROUP DECISION MAKING WITH HESITANT FUZZY LINGUISTIC TERM SETS. Technological and Economic Development of Economy, 2018, 24, 1125-1148.	2.3	13
1007	INVESTMENT DECISION MAKING ALONG THE B&R USING CRITIC APPROACH IN PROBABILISTIC HESITANT FUZZY ENVIRONMENT. Journal of Business Economics and Management, 2020, 21, 1683-1706.	1.1	18
1008	CRM-BASED DYNAMIC DECISION-MAKING WITH HESITANT FUZZY INFORMATION FOR THE EVALUATION OF RANGELANDS. Technological and Economic Development of Economy, 2018, 24, 1979-2002.	2.3	9
1009	MULTI-ATTRIBUTE GROUP DECISION MAKING BASED ON HESITANT FUZZY SETS, TOPSIS METHOD AND FUZZY PREFERENCE RELATIONS. Technological and Economic Development of Economy, 2018, 24, 2295-2317.	2.3	7
1010	A novel approach to hesitant multi-fuzzy soft set based decision-making. AIMS Mathematics, 2020, 5, 1985-2008.	0.7	24
1011	Information Systems on Hesitant Fuzzy Sets. International Journal of Rough Sets and Data Analysis, 2016, 3, 71-97.	1.0	8
1012	HESITANT FUZZY BI-IDEALS IN SEMIGROUPS. Communications of the Korean Mathematical Society, 2015, 30, 143-154.	0.2	13
1013	A Method for Hesitant Fuzzy Multiple Attribute Decision Making and Its Application to Risk Investment. Journal of Convergence Information Technology, 2011, 6, 282-287.	0.1	59
1014	Multicriteria Decision-Making Method Using Expected Values in Trapezoidal Hesitant Fuzzy Setting. Journal of Convergence Information Technology, 2013, 8, 135-143.	0.1	4
1015	Multiple Instance Mamdani Fuzzy Inference. International Journal of Fuzzy Logic and Intelligent Systems, 2015, 15, 217-231.	0.6	5
1016	Hesitant fuzzy prioritized operators and their application in multi-criteria group decision making. African Journal of Business Management, 2012, 6, .	0.4	37
1017	Weighted Hesitant Fuzzy Sets and Their Application to Multi-Criteria Decision Making. British Journal of Mathematics & Computer Science, 2014, 4, 1091-1123.	0.3	31
1018	Interval-valued Hesitant Multiplicative Preference Relations and Their Application to Multi-criteria Decision Making. British Journal of Mathematics & Computer Science, 2014, 4, 1390-1426.	0.3	1
1019	2-tuple Linguistic Bonferroni Mean Operators and Their Application to Multiple Attribute Group Decision Making. British Journal of Mathematics & Computer Science, 2014, 4, 1567-1614.	0.3	8

#	Article	IF	Citations
1020	Dynamic Decision Making Method Based on the Hesitant Fuzzy Decision Field Theory. Uncertainty and Operations Research, 2021, , 31-48.	0.1	0
1022	Regression Analysis Models Under the Hesitant Fuzzy Environment. Uncertainty and Operations Research, 2021, , 83-124.	0.1	0
1023	Uncertain Reasoning Algorithm Under the Hesitant Fuzzy Environment. Uncertainty and Operations Research, 2021, , 49-81.	0.1	0
1024	Decision Making Methods Based on Probabilistic and Interval-Valued Probabilistic Hesitant Fuzzy Sets. Uncertainty and Operations Research, 2021, , 125-176.	0.1	0
1025	Development of a new hesitant fuzzy ranking model for NTMP ranking problem. Soft Computing, 2021, 25, 14537-14548.	2.1	0
1026	Analysis of critical success factors for implementing Industry 4.0 integrated circular supply chain â€“ moving towards sustainable operations. Production Planning and Control, 2023, 34, 984-998.	5.8	26
1027	Idempotent Computing Rules and Novel Comparative Laws for Hesitant Fuzzy Cognitive Information and Their Application to Multiattribute Decision Making. Cognitive Computation, 2021, 13, 1515-1529.	3.6	0
1028	Hesitant fuzzy multi-attribute decision making based on binary connection number of set pair analysis. Soft Computing, 2021, 25, 14797-14807.	2.1	31
1029	Hesitant Fuzzy Linear Regression Model for Decision Making. Symmetry, 2021, 13, 1846.	1.1	10
1030	Interval-Valued Hesitant Fuzzy Linguistic Multiattribute Decision-Making Method Based on Three-Parameter Heronian Mean Operators. Journal of Mathematics, 2021, 2021, 1-18.	0.5	3
1031	Picture Hesitant Fuzzy Clustering Based on Generalized Picture Hesitant Fuzzy Distance Measures. Knowledge, 2021, 1, 40-51.	0.7	2
1032	Cluster head selection using hesitant fuzzy and firefly algorithm in wireless sensor networks. Evolving Systems, 2022, 13, 65-84.	2.4	7
1033	A Study on Evaluation Method and Application of Service Marketing Management with Hesitant Fuzzy Information. International Journal of Digital Content Technology and Its Applications, 2013, 7, 350-357.	0.1	1
1034	Hybrid Set Structures for Soft Computing. Advances in Computational Intelligence and Robotics Book Series, 2014, , 75-94.	0.4	0
1035	The Extended TOPSIS Method for Multi-criteria Decision Making Based on Hesitant Heterogeneous Information. , 0, , .		0
1036	An Approach to Multiple Attribute Group Decision Making under Hesitant Fuzzy Linguistic Environments with Incomplete Weight Information. Journal of Scientific Research and Reports, 2014, 3, 2065-2097.	0.2	0
1037	A Novel Method for Hesitant Fuzzy Multiple Attribute Group Decision Making with Incomplete Weight Information. British Journal of Mathematics & Computer Science, 2014, 4, 1865-1893.	0.3	1
1038	New Operations over Interval Valued Intuitionistic Hesitant Fuzzy Set. Mathematics and Statistics, 2014, 2, 62-71.	0.2	38

#	Article	IF	Citations
1039	Similarity Measure Based on Distance of Dual Hesitant Fuzzy Sets and Its Application in Image Feature Comparison and Recognition. Open Automation and Control Systems Journal, 2014, 6, 1691-1696.	0.9	1
1040	A new health classification scheme based on fuzzy hesitant information. , 0, , .		0
1041	Dealing with Hesitant Fuzzy Linguistic Information in Decision Making. , 2015, , 113-129.		0
1042	Hesitant fuzzy topological spaces and some properties. Contemporary Analysis and Applied Mathematics, 2015, 3, .	0.2	1
1043	Multicriteria HR Allocation Based on Hesitant Fuzzy Sets and Possibilistic Programming. Acta Polytechnica Hungarica, 2015, 12, .	2.5	3
1045	HESITANT FUZZY SEMIGROUPS WITH TWO FRONTIERS. Communications of the Korean Mathematical Society, 2016, 31, 17-25.	0.2	1
1046	Overview on the Developments and Applications of Hesitant Fuzzy Sets: An Uncertain Decision Making Tool. Journal of Risk Analysis and Crisis Response (JRACR), 2016, 6, 67.	0.1	0
1047	Rough Approximations on Hesitant Fuzzy Sets. Advances in Computational Intelligence and Robotics Book Series, 2016, , 265-279.	0.4	0
1048	A Novel Multiple Attribute Decision Making Method and its Application in Sustainable Assessment. International Journal of U- and E- Service, Science and Technology, 2016, 9, 385-396.	0.1	0
1049	Information measures for generalized hesitant fuzzy information. Journal of Korean Institute of Intelligent Systems, 2016, 26, 76-81.	0.0	0
1050	A Novel Multiple Attribute Decision Making Framework based on Hamacher Operations in Patron Driven Acquisitions Mode of Library Management. International Journal of U- and E- Service, Science and Technology, 2016, 9, 395-406.	0.1	0
1051	A New Method under Hesitant Fuzzy Context about Green Supplier Selection. International Journal of U- and E- Service, Science and Technology, 2016, 9, 237-246.	0.1	0
1052	Subalgebras and Ideals of BCK/BCI-Algebras in the Frame-work of the Hesitant Intersection. Kyungpook Mathematical Journal, 2016, 56, 371-386.	0.3	1
1053	Hesitant Fuzzy Set and Its Extensions. Uncertainty and Operations Research, 2017, , 1-36.	0.1	1
1054	IDEAL THEORY IN ORDERED SEMIGROUPS BASED ON HESITANT FUZZY SETS. Honam Mathematical Journal, 2016, 38, 783-794.	0.1	0
1055	Information Systems on Hesitant Fuzzy Sets. , 2017, , 1425-1452.		0
1056	Properties for Hesitant Information Sets. , 2018, , .		0
1057	The Hamacher Aggregation Operators and their Application to Decision Making with Hesitant Pythagorean Fuzzy Sets. , 2018, , .		0

#	Article	IF	Citations
1058	System Portfolio Selection Under Hesitant Fuzzy Information. Lecture Notes in Business Information Processing, 2018, , 33-40.	0.8	1
1059	A Hesitant Fuzzy Multiple Attribute Decision Making Method Based on Complementary Judgment Matrix. , 2018, , .		0
1060	A bi-objective multi-echelon supply chain model with Pareto optimal points evaluation for perishable products under uncertainty. Scientia Iranica, 2018, .	0.3	4
1061	A study of hesitant fuzzy soft multiset theory. Annals of Fuzzy Mathematics and Informatics, 2018, 16, 261-284.	0.7	0
1062	Intuitionistic Fuzzy Time Series Forecasting Based on Dual Hesitant Fuzzy Set for Stock Market. Advances in Computer and Electrical Engineering Book Series, 2019, , 37-57.	0.2	3
1063	Three-Way Decisions Approach to Multiple Attribute Group Decision Making with Probabilistic Linguistic Information. Operations Research and Fuzziology, 2019, 09, 203-214.	0.0	1
1064	Group Decision Making Method Based on Hesitant Fuzzy Uncertain Linguistic Information and Its Application in Risk Assessment of Urban Comprehensive Pipeline. Operations Research and Fuzziology, 2019, 09, 93-106.	0.0	0
1065	Research on Decision-Making Decision of Pension Model Based on Hesitant Fuzzy Set. Aging Research, 2019, 06, 54-62.	0.3	0
1066	Some Novel Similarity Measures of Hesitant Fuzzy Sets And Their Applications To MADM. SSRG International Journal of Engineering Trends and Technology, 2019, 67, 31-37.	0.3	0
1068	Hesitant Fuzzy Topological Spaces. Mathematics, 2020, 8, 188.	1.1	4
1069	Hesitant Fuzzy Graphs and Their Products. Fuzzy Information and Engineering, 2020, 12, 238-252.	1.0	10
1071	Double Hierarchy Linguistic Term Set and Its Extensions. Studies in Fuzziness and Soft Computing, 2021, , 1-21.	0.6	3
1072	Cubic Hesitant Fuzzy Heronian Mean Operators and Their Application in Multi Criteria Decision Making. Advances in Intelligent Systems and Computing, 2021, , 276-288.	0.5	1
1073	An extended QUALIFLEX method combined hesitant fuzzy linguistic term sets with prospect theory for medical waste disposal method selection. , 2021, , .		0
1074	Improved multiâ€criteria group decisionâ€making method considering hesitant fuzzy preference relations with selfâ€confidence behaviours for environmental pollution emergency response process evaluation. Expert Systems, 2022, 39, e12866.	2.9	1
1075	Hesitant-Intuitionistic Trapezoidal Fuzzy Prioritized Operators Based on Einstein Operations with Their Application to Multi-criteria Group Decision-Making. Studies in Computational Intelligence, 2020, , 1-24.	0.7	0
1076	A New Hesitant Fuzzy Multiple Attribute Decision Making Method with Unknown Weight Information. Advances in Pure Mathematics, 2020, 10, 405-431.	0.1	0
1077	Hesitant Trapezoid Fuzzy Hamacher Aggregation Operators and Their Application to Multiple Attribute Decision Making. Journal of Systems Science and Information, 2020, 8, 524-548.	0.2	0

#	Article	IF	Citations
1078	Integral Aggregations of Continuous Probabilistic Hesitant Fuzzy Sets. IEEE Transactions on Fuzzy Systems, 2022, 30, 676-686.	6.5	6
1079	Multi-attribute Decision Making Based on the Choquet Integral Operator with Hesitant Fuzzy Linguistic Information. Advances in Intelligent Systems and Computing, 2020, , 107-118.	0.5	1
1080	Uni-Hesitant Fuzzy Set Approach to the Ideal Theory of BCK-Algebras. Advances in Computer and Electrical Engineering Book Series, 2020, , 128-139.	0.2	0
1081	Three-way decision based on canonical soft sets of hesitant fuzzy sets. AIMS Mathematics, 2022, 7, 2061-2083.	0.7	14
1082	Inf-Hesitant Fuzzy Ideals in BCK/BCI-Algebras. Bulletin of the Section of Logic, 2020, 49, .	0.1	1
1084	Application of Linear Programming Model in Multiple Criteria Decision Making Under the Framework of Interval-Valued Hesitant Fuzzy Sets. Advances in Intelligent Systems and Computing, 2021, , 282-290.	0.5	1
1085	Sustainable energy selection based on interval-valued intuitionistic fuzzy and neutrosophic aggregation operators. Journal of Intelligent and Fuzzy Systems, 2020, 39, 6553-6563.	0.8	2
1086	A Decision-making Approach for Choosing a Reliable Product under the Hesitant Fuzzy Environment via a Novel Distance Measure. Vikalpa, 2020, 45, 147-159.	0.8	0
1087	Distance-Based Knowledge Measure of Hesitant Fuzzy Linguistic Term Set With Its Application in Multi-Criteria Decision Making. International Journal of Fuzzy System Applications, 2022, 11, 1-20.	0.5	1
1088	A hybrid fuzzy decision making approach for sitting a solid waste energy production plant. Soft Computing, 2022, 26, 575-587.	2.1	4
1089	Air quality deterministic and probabilistic forecasting system based on hesitant fuzzy sets and nonlinear robust outlier correction. Knowledge-Based Systems, 2022, 237, 107789.	4.0	7
1091	A modified VIKOR method for group decision-making based on aggregation operators for hesitant intuitionistic fuzzy linguistic term sets. Soft Computing, 2022, 26, 2375-2390.	2.1	6
1092	Hesitant fuzzy portfolio selection model with score and novel hesitant semi-variance. Computers and Industrial Engineering, 2022, 164, 107879.	3.4	7
1093	A three-way decision approach with risk strategies in hesitant fuzzy decision information systems. Information Sciences, 2022, 588, 293-314.	4.0	16
1094	Z-Hesitant Fuzzy Network Model with Reliability and Transparency of Information for Decision Systems. International Journal of Computational Intelligence Systems, 2021, 14, 1.	1.6	3
1095	Evaluation Model Based on Hesitation Fuzzy Theory. , 2021, , .		0
1096	Research on Two-Stage Hesitate Fuzzy Information Fusion Framework Incorporating Prospect Theory and Dichotomy Algorithm. International Journal of Fuzzy Systems, 2022, 24, 1530-1547.	2.3	1
1097	New ranking model with evidence theory under probabilistic hesitant fuzzy context and unknown weights. Neural Computing and Applications, 2022, 34, 3923-3937.	3.2	20

#	Article	IF	Citations
1098	A decision making algorithm for wind power plant based on q-rung orthopair hesitant fuzzy rough aggregation information and TOPSIS. AIMS Mathematics, 2022, 7, 5241-5274.	0.7	13
1099	Corporate social responsibility performance evaluation from the perspective of stakeholder heterogeneity based on fuzzy analytical hierarchy process integrated <scp>TOPSIS</scp>. Corporate Social Responsibility and Environmental Management, 2022, 29, 918-935.	5.0	12
1100	Group decision making method with hesitant fuzzy preference relations based on additive consistency and consensus. Complex & Intelligent Systems, 2022, 8, 2203-2225.	4.0	7
1101	A novel approach for the solution of multiobjective optimization problem using hesitant fuzzy aggregation operator. RAIRO - Operations Research, 2022, 56, 275-292.	1.0	6
1102	Clean energy selection for sustainable development by using entropy-based decision model with hesitant fuzzy information. Environmental Science and Pollution Research, 2022, 29, 42973-42990.	2.7	7
1103	IFP-intuitionistic multi fuzzy N-soft set and its induced IFP-hesitant N-soft set in decision-making. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 10143-10152.	3.3	4
1104	An HFMâ€CREAM model for the assessment of human reliability and quantification. Quality and Reliability Engineering International, 2022, 38, 2372-2387.	1.4	6
1105	A Divergence-Based Medical Decision-Making Process of COVID-19 Diagnosis. Mathematical Problems in Engineering, 2022, 2022, 1-18.	0.6	1
1106	A Decision-Making Framework Using q-Rung Orthopair Probabilistic Hesitant Fuzzy Rough Aggregation Information for the Drug Selection to Treat COVID-19. Complexity, 2022, 2022, 1-37.	0.9	14
1107	A framework to evaluate the barriers for adopting the internet of medical things using the extended generalized TODIM method under the hesitant fuzzy environment. Applied Intelligence, 2022, 52, 13345-13363.	3.3	13
1108	HFGLDS: Hesitant Fuzzy Gained and Lost Dominance Score Method Based on Hesitant Fuzzy Utility Function for Multi-Criteria Decision Making. IEEE Access, 2022, 10, 20407-20419.	2.6	5
1111	Decision-making models based on satisfaction degree with incomplete hesitant fuzzy preference relation. Soft Computing, 2022, 26, 3129-3145.	2.1	7
1112	Novel Aczelâ€“Alsina operations-based hesitant fuzzy aggregation operators and their applications in cyclone disaster assessment. International Journal of General Systems, 2022, 51, 511-546.	1.2	36
1113	Representing uncertainty in group decision making through the hesitant information set approach. Soft Computing, 2022, 26, 3171-3186.	2.1	1
1114	Hesitant intuitionistic fuzzy algorithm for multiobjective optimization problem. Operational Research, 2022, 22, 3521-3547.	1.3	3
1115	A q-rung orthopair hesitant fuzzy stochastic method based on regret theory with unknown weight information. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 11935-11952.	3.3	12
1116	System Portfolio Selection based on GRA Method Under Hesitant Fuzzy Environment. Journal of Systems Engineering and Electronics, 2022, 33, 120-133.	1.1	5
1117	A wind power plant site selection algorithm based on q-rung orthopair hesitant fuzzy rough Einstein aggregation information. Scientific Reports, 2022, 12, 5443.	1.6	8

#	Article	IF	Citations
1118	Time-sequential hesitant fuzzy set and its application to multi-attribute decision making. Complex & Intelligent Systems, 2022, 8, 4319-4338.	4.0	12
1119	Decision-making analysis based on hesitant fuzzy N-soft ELECTRE-I approach. Soft Computing, 2022, 26, 11849-11863.	2.1	5
1120	Bibliometric review of research on decision models in uncertainty, 1990â€“2020. International Journal of Intelligent Systems, 2022, 37, 7300-7333.	3.3	5
1121	Generalized hesitant fuzzy numbers and their application in solving MADM problems based on TOPSIS method. Soft Computing, 2022, 26, 4673-4683.	2.1	13
1122	Normal Wiggly Probabilistic Hesitant Fuzzy Information for Environmental Quality Evaluation. Complexity, 2021, 2021, 1-14.	0.9	3
1123	On some weaker hesitant fuzzy open sets. Communications Faculty of Science University of Ankara Series A1Mathematics and Statistics, 2021, 70, 888-899.	0.2	0
1124	Probabilistic Hesitant Fuzzy Recognition Method Based on Comprehensive Characteristic Distance Measure. Mathematical Problems in Engineering, 2021, 2021, 1-16.	0.6	2
1125	Bipolar-valued hesitant fuzzy graph and its application. Social Network Analysis and Mining, 2022, 12, 14.	1.9	2
1126	The two-stage utility function with an aspiration to mass data and uncertain linguistic environment in multiple experts multiple criteria decision making. Journal of the Operational Research Society, 0, , 1-18.	2.1	0
1127	Knowledge Diffusion Trajectories in the Hesitant Fuzzy Domain in the Past Decade: A Citation-Based Analysis. International Journal of Fuzzy Systems, 2022, 24, 2382-2396.	2.3	6
1128	High-end equipment: An improved two-sided based S&M matching and a novel Pareto refining method considering consistency. Expert Systems With Applications, 2022, 202, 117175.	4.4	9
1129	A decision-making framework for Industry 4.0 technology implementation: The case of FinTech and sustainable supply chain finance for SMEs. Technological Forecasting and Social Change, 2022, 180, 121686.	6.2	88
1130	Hesitant Fuzzy MADM Approach in Optimal Selection of Investment Projects. , 0, , .		0
1132	Novel Distance and Similarity Measures for Probabilistic Hesitant Fuzzy Set and Its Applications in Stock Selection Problems. International Journal of Fuzzy System Applications, 2022, 11, 0-0.	0.5	2
1133	Evaluation of the survival of Yangtze finless porpoise under probabilistic hesitant fuzzy environment. International Journal of Intelligent Systems, 2022, 37, 7665-7684.	3.3	4
1134	Topological Data Analysis with Cubic Hesitant Fuzzy TOPSIS Approach. Symmetry, 2022, 14, 865.	1.1	3
1135	An adaptive Grey-Markov model based on parameters Self-optimization with application to passenger flow volume prediction. Expert Systems With Applications, 2022, 202, 117302.	4.4	22
1136	OWA aggregation operators and multi-agent decisions with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e16957" altimg="si78.svg"><mml:mi>N</mml:mi></mml:math>-soft sets. Expert Systems With Applications, 2022, 203, 117430.	4.4	25

#	Article	IF	Citations
1137	Combination of Fuzzy-Weighted Zero-Inconsistency and Fuzzy Decision by Opinion Score Methods in Pythagorean m-Polar Fuzzy Environment: A Case Study of Sign Language Recognition Systems. International Journal of Information Technology and Decision Making, 2023, 22, 1341-1369.	2.3	19
1138	Picture Fuzzy Einstein Hybrid-Weighted Aggregation Operator and Its Application to Multicriteria Group Decision Making. Computational Intelligence and Neuroscience, 2022, 2022, 1-20.	1.1	2
1139	Regret Theory-Based Three-Way Decision Model in Hesitant Fuzzy Environments and Its Application to Medical Decision. IEEE Transactions on Fuzzy Systems, 2022, 30, 5361-5375.	6.5	57
1140	Analyzing critical barriers of smart energy city in Turkey based on two-dimensional uncertainty by hesitant z-fuzzy linguistic terms. Engineering Applications of Artificial Intelligence, 2022, 113, 104935.	4.3	8
1141	Novel operations of weighted hesitant fuzzy sets and their group decision making application. AIMS Mathematics, 2022, 7, 14117-14138.	0.7	2
1142	A hesitant fuzzy SMART method based on a new score function for information literacy assessment of teachers. Economic Research-Ekonomska Istrazivanja, 2023, 36, 357-382.	2.6	4
1143	A new hybrid method to determine the hazardous risk factors. Human and Ecological Risk Assessment (HERA), 0, , 1-23.	1.7	0
1144	Selection of alternative based on linear programming and the extended fuzzy TOPSIS under the framework of dual hesitant fuzzy sets. Soft Computing, 2023, 27, 1985-1996.	2.1	4
1145	Hesitant fuzzy partitioned Maclaurin symmetric mean aggregation operators in multi-criteria decision-making. Physica Scripta, 2022, 97, 075208.	1.2	10
1146	Sustainable supplier selection using HF-DEA-FOCUM-MABAC technique: a case study in the Auto-making industry. Soft Computing, 2022, 26, 8821-8840.	2.1	13
1148	Two Integral Models and Applications of Hesitant Fuzzy Information Fusion. IEEE Transactions on Fuzzy Systems, 2023, 31, 25-39.	6.5	0
1149	Hesitant Fuzzy Variable and Distribution. Symmetry, 2022, 14, 1184.	1.1	0
1150	A Novel Method for Decision Making by Double-Quantitative Rough Sets in Hesitant Fuzzy Systems. Mathematics, 2022, 10, 2069.	1.1	0
1151	Multiattribute decision making based on Fermatean hesitant fuzzy sets and modified VIKOR method. Information Sciences, 2022, 607, 1532-1549.	4.0	36
1152	Distance Measure of Hesitant Fuzzy Sets and its Application in Image Segmentation. International Journal of Fuzzy Systems, 2022, 24, 3134-3143.	2.3	4
1153	A multi-criteria group decision-making approach based on revised distance measures under dual hesitant fuzzy setting with unknown weight information. Soft Computing, 2022, 26, 8387-8401.	2.1	8
1154	A New Approach to Correspondence Analysis based on Interval-valued Hesitant Fuzzy Sets. International Journal of Information Technology and Decision Making, 0, , .	2.3	0
1155	Exploration of barriers and enablers of blockchain adoption for sustainable performance: implications for e-enabled agriculture supply chains. International Journal of Logistics Research and Applications, 2023, 26, 1498-1535.	5.6	18

#	Article	IF	Citations
1156	Green-resilient supplier selection: a hesitant fuzzy multi-criteria decision-making model. Environment, Development and Sustainability, 0, , .	2.7	7
1157	Fully hesitant fuzzy linear programming with hesitant fuzzy numbers. Engineering Applications of Artificial Intelligence, 2022, 114, 105047.	4.3	8
1158	Risk assessment for the integrated energy system using a hesitant fuzzy multi-criteria decision-making framework. Energy Reports, 2022, 8, 7892-7907.	2.5	10
1161	Lanchester equation for cognitive domain using hesitant fuzzy linguistic terms sets. Journal of Systems Engineering and Electronics, 2022, 33, 674-682.	1.1	2
1162	Research on Green Supplier Selection Based on Hesitant Fuzzy Set and Extended LINMAP Method. International Journal of Fuzzy Systems, 0, , .	2.3	3
1163	A novel probabilistic hesitant fuzzy rough set based multi-criteria decision-making method. Information Sciences, 2022, 608, 489-516.	4.0	17
1164	A three-way decision method with prospect theory to multi-attribute decision-making and its applications under hesitant fuzzy environments. Applied Soft Computing Journal, 2022, 126, 109283.	4.1	31
1165	Introducing hesitant fuzzy equations and determining market equilibrium price. , 2021, 50, 363-382.		4
1166	Introducing and solving the hesitant fuzzy system AX = B. , 2021, 50, 553-574.		0
1167	3-Tuple Linguistic Distance-Based Model for a New Product go/no-go Evaluation. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2022, 30, 681-707.	0.9	1
1168	Ranked hesitant fuzzy sets for multi-criteria multi-agent decisions. Expert Systems With Applications, 2022, 209, 118276.	4.4	8
1169	Correlation measures under single-valued neutrosophic hesitant fuzzy sets environment for multi-criteria decision-making problems. Journal of Intelligent and Fuzzy Systems, 2022, , 1-10.	0.8	0
1170	A dual hesitant q-rung orthopair enhanced MARCOS methodology under uncertainty to determine a used PPE kit disposal. Environmental Science and Pollution Research, 2022, 29, 89625-89642.	2.7	10
1171	Occurrence probability derivation considering different behavior strategies and decision making under the probabilistic hesitant fuzzy environment. Journal of the Operational Research Society, 2023, 74, 1554-1569.	2.1	1
1172	Certain Concepts of <math xmlns="http://www.w3.org/1998/Math/MathML" id="M1"> <mi mathvariant="script">Q</mi> </math>-Hesitant Fuzzy Ideals. Journal of Function Spaces, 2022, 2022, 1-8.	0.4	0
1173	Some novel distance measures between dual hesitant fuzzy sets and their application in medical diagnosis. International Journal of Intelligent Systems, 2022, 37, 8653-8671.	3.3	3
1174	Distance and similarity measures for normal wiggly dual hesitant fuzzy sets and their application in medical diagnosis. Scientific Reports, 2022, 12, .	1.6	6
1175	Combinatorial design of the MAUT and PAMSSEM II methods for multiple attributes group decision making with probabilistic linguistic information. Soft Computing, 0, , .	2.1	2

#	Article	IF	Citations
1176	A Ship Fire Escape Speed Correction Method Considering the Influence of Crowd Interaction. Mathematics, 2022, 10, 2749.	1.1	4
1177	An extended EDAS approach based on cumulative prospect theory for multiple attributes group decision making with probabilistic hesitant fuzzy information. Artificial Intelligence Review, 2023, 56, 2971-3003.	9.7	26
1178	TOPSIS methods for probabilistic hesitant fuzzy multiple attribute group decision-making and application to performance evaluation of public charging service quality. Journal of Intelligent and Fuzzy Systems, 2022, 43, 7317-7328.	0.8	3
1179	A Similarity-Based Hesitant Fuzzy Group Decision Making Approach and Its Application in Hydraulic Engineering Project Management. Mathematical Problems in Engineering, 2022, 2022, 1-12.	0.6	0
1180	A Closed-Loop Method for Multiperiod Intelligent Information Processing with Cost Constraints under the Fuzzy Environment. Computational Intelligence and Neuroscience, 2022, 2022, 1-19.	1.1	2
1181	Modeling Human Vagueness and Imprecision: From Fuzzy Sets to Hesitant Fuzzy Sets. New Mathematics and Natural Computation, 2023, 19, 715-736.	0.4	0
1182	A fairness-concern-based LINMAP method for heterogeneous multi-criteria group decision making with hesitant fuzzy linguistic truth degrees. Information Sciences, 2022, 612, 1206-1225.	4.0	14
1183	Hesitant fuzzy-based integrated multi-criteria group decision-making model for supplier selection. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2022, 16, JAMDSM0034-JAMDSM0034.	0.3	1
1184	Ranking Objects from Individual Linguistic Dual Hesitant Fuzzy Information in View of Optimal Model-Based Consistency and Consensus Iteration Algorithm. Group Decision and Negotiation, 2023, 32, 5-44.	2.0	1
1185	Various aggregation operators of the generalized hesitant fuzzy numbers based on Archimedean t-norm and t-conorm functions. Soft Computing, 2022, 26, 13263-13276.	2.1	7
1186	Towards Linking the Sustainable Development Goals and a Novel-Proposed Snow Avalanche Susceptibility Mapping. Water Resources Management, 2022, 36, 6205-6222.	1.9	4
1187	A consensus algorithm based on the worst consistency index of hesitant fuzzy preference relations in group decision-making. Complex & Intelligent Systems, 2023, 9, 1753-1771.	4.0	3
1188	Hesitant Fuzzy Structures on Sheffer Stroke BCK-Algebras. New Mathematics and Natural Computation, 2023, 19, 793-804.	0.4	2
1189	Novel Distance Measure for Hesitant Fuzzy Sets and Its Application to K-Means Clustering. International Journal of Fuzzy System Applications, 2022, 11, 1-32.	0.5	2
1190	A Novel Similarity-Based Multi-Attribute Group Decision-Making Method in a Probabilistic Hesitant Fuzzy Environment. IEEE Access, 2022, 10, 110410-110425.	2.6	3
1191	A Lattice Structure on Hesitant Fuzzy Sets. IEEE Transactions on Fuzzy Systems, 2023, 31, 2018-2028.	6.5	0
1192	Group decision making with hesitant fuzzy linguistic preference relations based on multiplicative DEA cross-efficiency and stochastic acceptability analysis. Engineering Applications of Artificial Intelligence, 2023, 117, 105595.	4.3	8
1193	Cyber security control selection based decision support algorithm under single valued neutrosophic hesitant fuzzy Einstein aggregation information. AIMS Mathematics, 2022, 8, 5551-5573.	0.7	8

#	Article	IF	Citations
1194	Three-Way Behavioral Decision Making With Hesitant Fuzzy Information Systems: Survey and Challenges. IEEE/CAA Journal of Automatica Sinica, 2023, 10, 330-350.	8.5	84
1195	Scores for hesitant fuzzy sets: aggregation functions and generalized integrals. IEEE Transactions on Fuzzy Systems, 2022, , 1-10.	6.5	0
1196	An Improved TODIM Method With Z-number and Its Application in Ranking. , 2022, , .		0
1197	Development of a Decision Support System for Selection of Reviewers to Evaluate Research and Development Projects. International Journal of Information Technology and Decision Making, 0, , 1-30.	2.3	0
1198	Water Eutrophication Evaluation Based on the Improved Projection Pursuit Regression Model Under the Hesitant Fuzzy Environment. International Journal of Information Technology and Decision Making, 2024, 23, 361-380.	2.3	0
1199	Novel distance measures of hesitant fuzzy sets and their applications in clustering analysis. Journal of Engineering and Applied Science, 2022, 69, .	0.8	1
1200	Failure mode and effect analysis using the hesitant intuitionistic fuzzy hybrid GRP approach with ordered comprehensive weights. Quality and Reliability Engineering International, 2023, 39, 328-352.	1.4	9
1201	Matrix games involving interval-valued hesitant fuzzy linguistic sets and its application to electric vehicles. Journal of Intelligent and Fuzzy Systems, 2023, 44, 5085-5105.	0.8	1
1202	Generalized Dombi Weighted Aggregation Operators for Multi-attribute Decision Making with Hesitant Fuzzy Information. Studies in Fuzziness and Soft Computing, 2023, , 1-36.	0.6	1
1203	Evaluating Industry 4.0 technology and sustainable development goals â€“ a social perspective. International Journal of Production Research, 2023, 61, 8094-8114.	4.9	9
1204	FMEA Assessment Under Heterogeneous Hesitant Fuzzy Preference Relations: Based on Extended Multiplicative Consistency and Group Decision Making. IEEE Access, 2023, 11, 5246-5266.	2.6	2
1205	Generalized Interval-Valued q-Rung Orthopair Hesitant Fuzzy Choquet Operators and Their Application. Symmetry, 2023, 15, 127.	1.1	2
1206	Novel Decision Making Methodology under Pythagorean Probabilistic Hesitant Fuzzy Einstein Aggregation Information. CMES - Computer Modeling in Engineering and Sciences, 2023, .	0.8	0
1207	A novel high order hesitant fuzzy time series forecasting by using mean aggregated membership value with support vector machine. Information Sciences, 2023, 626, 494-523.	4.0	11
1208	Score Indices for Hesitant Fuzzy Sets: Generalized Fuzzy Integrals. Lecture Notes in Networks and Systems, 2022, , 679-686.	0.5	1
1209	Hesitant Fuzzy Emergency Decision-Making for the Maximum Flow Finding with Intermediate Storage at Nodes. Lecture Notes in Networks and Systems, 2022, , 705-713.	0.5	3
1210	Modified Expressions to Evaluate the Correlation Coefficient Between Two Dual Hesitant Fuzzy Soft Sets and Their Application in Decision-Making. , 2022, , .		0
1211	Handling uncertanity in decision support systems based on Pythagorean fuzzy sets. , 2022, , .		1

#	Article	IF	Citations
1212	The Correlation Coefficient of Hesitancy Fuzzy Graphs in Decision Making. Computer Systems Science and Engineering, 2023, 46, 579-596.	1.9	2
1213	Probabilistic picture hesitant fuzzy sets and their application to multi-criteria decision-making. AIMS Mathematics, 2023, 8, 8522-8559.	0.7	2
1214	Composite Mapping on Hesitant Fuzzy Soft Classes. , 2023, , 153-164.		1
1215	Integrated MCDM Approaches for Exploring the Ideal Therapeutic Plastic Disposal Technology: Probabilistic Hesitant Fuzzy Domain. Water, Air, and Soil Pollution, 2023, 234, .	1.1	6
1216	Hesitant fuzzy Î²-covering (T , I) rough set models: An application to multi-attribute decision-making. Journal of Intelligent and Fuzzy Systems, 2023, , 1-21.	0.8	1
1217	Robust Multicriteria Sustainability Assessment in Urban Transportation. Journal of the Urban Planning and Development Division, ASCE, 2023, 149, .	0.8	1
1218	A novel normal wiggly hesitant fuzzy multi-criteria group decision making method and its application to electric vehicle charging station location. Expert Systems With Applications, 2023, 223, 119876.	4.4	12
1219	Priority Degrees and Distance Measures of Complex Hesitant Fuzzy Sets With Application to Multi-Criteria Decision Making. IEEE Access, 2023, 11, 13647-13666.	2.6	5
1220	Multi-criteria decision-making problem based on the novel probabilistic hesitant fuzzy entropy and TODIM method. AEJ - Alexandria Engineering Journal, 2023, 68, 437-451.	3.4	9
1221	On hesitant fuzzy ideal topological space. AIP Conference Proceedings, 2023, , .	0.3	0
1222	A cosine similarity measures between hesitancy fuzzy graphs and its application to decision making. AIMS Mathematics, 2023, 8, 11799-11821.	0.7	1
1223	A novel cardinal-normalization method for Probabilistic Hesitant Fuzzy Elements with incomplete information. Journal of Intelligent and Fuzzy Systems, 2023, , 1-20.	0.8	0
1224	Decision-making algorithm based on Pythagorean fuzzy environment with probabilistic hesitant fuzzy set and Choquet integral. AIMS Mathematics, 2023, 8, 12422-12455.	0.7	3
1225	A promising approach for decision modeling with single-valued neutrosophic probabilistic hesitant fuzzy Dombi operators. Yugoslav Journal of Operations Research, 2023, , 7-7.	0.5	2
1226	Modified CPT-TODIM method for evaluating the development level of digital inclusive finance under probabilistic hesitant fuzzy environment. PLoS ONE, 2023, 18, e0282968.	1.1	3
1227	Robust hesitant fuzzy partitional clustering algorithms and their applications in decision making. Applied Soft Computing Journal, 2023, 145, 110212.	4.1	2
1228	Hesitant Fuzzy Sets Based TSK Model for Sentiment Analysis. Algorithms for Intelligent Systems, 2023, , 395-406.	0.5	0
1229	Fermatean Hesitant Fuzzy Choquet Integral Aggregation Operators. IEEE Access, 2023, 11, 38548-38562.	2.6	5

#	Article	IF	Citations
1230	Environmental quality evaluation based on the TODIM method with normal wiggly hesitant fuzzy set. Soft Computing, 2023, 27, 8161-8173.	2.1	2
1231	A novel algorithm for autonomous parking vehicles using adjustable probabilistic neutrosophic hesitant fuzzy set features. Expert Systems With Applications, 2023, 226, 120101.	4.4	9
1232	A consensus reaching process with hesitant fuzzy elements considers the individuals best and worst consensus levels. Knowledge and Information Systems, 0, , .	2.1	0
1233	STIF: Intuitionistic fuzzy Gaussian membership function with statistical transformation weight of evidence and information value for private information preservation. Distributed and Parallel Databases, 2023, 41, 233-266.	1.0	1
1247	A Hesitant Fuzzy Holdout Method for Modelsâ€™ Selection in Machine Learning. Lecture Notes in Networks and Systems, 2023, , 896-902.	0.5	0
1281	TP Mode Transformation based UAV Control Method with Hesitant Fuzzy Sets. , 2023, , .		0
1287	A new extension of fuzzy set and their applications to multi-attribute group decision making. , 2023, , .		0
1288	Hesitant Fuzzy Sublattices of Lattices. , 2023, , .		0
1294	VIKOR decision making method based on multi-granularity hesitant fuzzy linguistic term sets. , 2023, , .		0
1299	Hesitant Fuzzy Three-Way Decision. Studies in Fuzziness and Soft Computing, 2023, , 79-96.	0.6	0
1301	Introducing Hesitancy: TOPSIS and ELECTRE-I Models. Studies in Fuzziness and Soft Computing, 2023, , 157-235.	0.6	0
1302	A New Approach for the Analysis of Resistance to Change in the Digital Transformation Context. Communications in Computer and Information Science, 2024, , 153-167.	0.4	0
1306	Hesitant Fuzzy Three-Way Decision withÂError Analysis. Studies in Fuzziness and Soft Computing, 2023, , 97-117.	0.6	0
1316	Information measure for Hesitant fuzzy sets*. , 2023, , .		0
1329	Application of fuzzy Z-Hesitant data information in fuzzy C-means clustering analysis. AIP Conference Proceedings, 2024, , .	0.3	0