

Zeshui Xu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

536
papers

31,469
citations

90
h-index

165
g-index

552
ext. papers

36,181
ext. citations

4.8
avg, IF

8.57
L-index

#	Paper	IF	Citations
536	Intuitionistic Fuzzy Aggregation Operators. <i>IEEE Transactions on Fuzzy Systems</i> , 2007 , 15, 1179-1187	8.3	1611
535	Some geometric aggregation operators based on intuitionistic fuzzy sets. <i>International Journal of General Systems</i> , 2006 , 35, 417-433	2.1	1536
534	Hesitant fuzzy information aggregation in decision making. <i>International Journal of Approximate Reasoning</i> , 2011 , 52, 395-407	3.6	1052
533	Extension of TOPSIS to Multiple Criteria Decision Making with Pythagorean Fuzzy Sets. <i>International Journal of Intelligent Systems</i> , 2014 , 29, 1061-1078	8.4	813
532	Distance and similarity measures for hesitant fuzzy sets. <i>Information Sciences</i> , 2011 , 181, 2128-2138	7.7	737
531	A method based on linguistic aggregation operators for group decision making with linguistic preference relations*1. <i>Information Sciences</i> , 2004 , 166, 19-30	7.7	649
530	Probabilistic linguistic term sets in multi-attribute group decision making. <i>Information Sciences</i> , 2016 , 369, 128-143	7.7	600
529	An overview of methods for determining OWA weights. <i>International Journal of Intelligent Systems</i> , 2005 , 20, 843-865	8.4	556
528	Uncertain linguistic aggregation operators based approach to multiple attribute group decision making under uncertain linguistic environment. <i>Information Sciences</i> , 2004 , 168, 171-184	7.7	523
527	Dynamic intuitionistic fuzzy multi-attribute decision making. <i>International Journal of Approximate Reasoning</i> , 2008 , 48, 246-262	3.6	453
526	Distance and similarity measures for hesitant fuzzy linguistic term sets and their application in multi-criteria decision making. <i>Information Sciences</i> , 2014 , 271, 125-142	7.7	426
525	Hesitant fuzzy multi-attribute decision making based on TOPSIS with incomplete weight information. <i>Knowledge-Based Systems</i> , 2013 , 52, 53-64	7.3	413
524	Pythagorean fuzzy TODIM approach to multi-criteria decision making. <i>Applied Soft Computing Journal</i> , 2016 , 42, 246-259	7.5	398
523	Interval-valued hesitant preference relations and their applications to group decision making. <i>Knowledge-Based Systems</i> , 2013 , 37, 528-540	7.3	362
522	Correlation coefficients of hesitant fuzzy sets and their applications to clustering analysis. <i>Applied Mathematical Modelling</i> , 2013 , 37, 2197-2211	4.5	339
521	Consistency Measures for Hesitant Fuzzy Linguistic Preference Relations. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 35-45	8.3	337
520	Choquet integrals of weighted intuitionistic fuzzy information. <i>Information Sciences</i> , 2010 , 180, 726-736	7.7	330

519	On distance and correlation measures of hesitant fuzzy information. <i>International Journal of Intelligent Systems</i> , 2011 , 26, 410-425	8.4	328
518	Qualitative decision making with correlation coefficients of hesitant fuzzy linguistic term sets. <i>Knowledge-Based Systems</i> , 2015 , 76, 127-138	7.3	327
517	Hesitant Fuzzy Linguistic VIKOR Method and Its Application in Qualitative Multiple Criteria Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 1343-1355	8.3	297
516	Clustering algorithm for intuitionistic fuzzy sets. <i>Information Sciences</i> , 2008 , 178, 3775-3790	7.7	290
515	Intuitionistic Fuzzy Analytic Hierarchy Process. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 749-761	8.3	288
514	Intuitionistic fuzzy Bonferroni means. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 568-78		288
513	Some Hesitant Fuzzy Aggregation Operators with Their Application in Group Decision Making. <i>Group Decision and Negotiation</i> , 2013 , 22, 259-279	2.5	286
512	A Historical Account of Types of Fuzzy Sets and Their Relationships. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 179-194	8.3	285
511	Some similarity measures of intuitionistic fuzzy sets and their applications to multiple attribute decision making. <i>Fuzzy Optimization and Decision Making</i> , 2007 , 6, 109-121	5.1	272
510	Induced generalized intuitionistic fuzzy operators. <i>Knowledge-Based Systems</i> , 2011 , 24, 197-209	7.3	237
509	Power-Geometric Operators and Their Use in Group Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2010 , 18, 94-105	8.3	236
508	Dual Hesitant Fuzzy Sets. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-13	1.1	233
507	Intuitionistic and interval-valued intuitionistic fuzzy preference relations and their measures of similarity for the evaluation of agreement within a group. <i>Fuzzy Optimization and Decision Making</i> , 2009 , 8, 123-139	5.1	231
506	Novel basic operational laws for linguistic terms, hesitant fuzzy linguistic term sets and probabilistic linguistic term sets. <i>Information Sciences</i> , 2016 , 372, 407-427	7.7	227
505	A VIKOR-based method for hesitant fuzzy multi-criteria decision making. <i>Fuzzy Optimization and Decision Making</i> , 2013 , 12, 373-392	5.1	217
504	Approaches to manage hesitant fuzzy linguistic information based on the cosine distance and similarity measures for HFLTSS and their application in qualitative decision making. <i>Expert Systems With Applications</i> , 2015 , 42, 5328-5336	7.8	209
503	A survey of preference relations. <i>International Journal of General Systems</i> , 2007 , 36, 179-203	2.1	208
502	Entropy/cross entropy-based group decision making under intuitionistic fuzzy environment. <i>Information Fusion</i> , 2012 , 13, 31-47	16.7	205

501	Hesitant fuzzy entropy and cross-entropy and their use in multiattribute decision-making. <i>International Journal of Intelligent Systems</i> , 2012 , 27, 799-822	8.4	200
500	On Compatibility of Interval Fuzzy Preference Relations. <i>Fuzzy Optimization and Decision Making</i> , 2004 , 3, 217-225	5.1	192
499	Some issues on intuitionistic fuzzy aggregation operators based on Archimedean t-conorm and t-norm. <i>Knowledge-Based Systems</i> , 2012 , 31, 78-88	7.3	188
498	Symmetric Pythagorean Fuzzy Weighted Geometric/Averaging Operators and Their Application in Multicriteria Decision-Making Problems. <i>International Journal of Intelligent Systems</i> , 2016 , 31, 1198-1219	8.4	185
497	PROJECTION MODELS FOR INTUITIONISTIC FUZZY MULTIPLE ATTRIBUTE DECISION MAKING. <i>International Journal of Information Technology and Decision Making</i> , 2010 , 09, 267-280	2.8	184
496	Double hierarchy hesitant fuzzy linguistic term set and MULTIMOORA method: A case of study to evaluate the implementation status of haze controlling measures. <i>Information Fusion</i> , 2017 , 38, 22-34	16.7	183
495	MULTIPLICATIVE CONSISTENCY OF HESITANT FUZZY PREFERENCE RELATION AND ITS APPLICATION IN GROUP DECISION MAKING. <i>International Journal of Information Technology and Decision Making</i> , 2014 , 13, 47-76	2.8	180
494	A method based on distance measure for interval-valued intuitionistic fuzzy group decision making. <i>Information Sciences</i> , 2010 , 180, 181-190	7.7	180
493	Probabilistic Linguistic MULTIMOORA: A Multicriteria Decision Making Method Based on the Probabilistic Linguistic Expectation Function and the Improved Borda Rule. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 3688-3702	8.3	174
492	The TODIM analysis approach based on novel measured functions under hesitant fuzzy environment. <i>Knowledge-Based Systems</i> , 2014 , 61, 48-58	7.3	163
491	. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 113-133	8.3	160
490	Method for three-way decisions using ideal TOPSIS solutions at Pythagorean fuzzy information. <i>Information Sciences</i> , 2018 , 435, 282-295	7.7	153
489	A Note on Linguistic Hybrid Arithmetic Averaging Operator in Multiple Attribute Group Decision Making with Linguistic Information. <i>Group Decision and Negotiation</i> , 2006 , 15, 593-604	2.5	153
488	Hesitant Fuzzy Linguistic Term Set and Its Application in Decision Making: A State-of-the-Art Survey. <i>International Journal of Fuzzy Systems</i> , 2018 , 20, 2084-2110	3.6	153
487	The Properties of Continuous Pythagorean Fuzzy Information. <i>International Journal of Intelligent Systems</i> , 2016 , 31, 401-424	8.4	151
486	Emergency decision making for natural disasters: An overview. <i>International Journal of Disaster Risk Reduction</i> , 2018 , 27, 567-576	4.5	146
485	A consensus process for group decision making with probabilistic linguistic preference relations. <i>Information Sciences</i> , 2017 , 414, 260-275	7.7	145
484	Managing multi-granularity linguistic information in qualitative group decision making: an overview. <i>Granular Computing</i> , 2016 , 1, 21-35	5.4	144

483	Information fusion for intuitionistic fuzzy decision making: An overview. <i>Information Fusion</i> , 2016 , 28, 10-23	16.7	141
482	A linear programming method for multiple criteria decision making with probabilistic linguistic information. <i>Information Sciences</i> , 2017 , 415-416, 341-355	7.7	138
481	On the syntax and semantics of virtual linguistic terms for information fusion in decision making. <i>Information Fusion</i> , 2017 , 34, 43-48	16.7	137
480	Multi-attribute group decision-making under probabilistic uncertain linguistic environment. <i>Journal of the Operational Research Society</i> , 2018 , 69, 157-170	2	136
479	Deriving a ranking from hesitant fuzzy preference relations under group decision making. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 1328-37	10.2	136
478	Hesitant fuzzy linguistic entropy and cross-entropy measures and alternative queuing method for multiple criteria decision making. <i>Information Sciences</i> , 2017 , 388-389, 225-246	7.7	132
477	Priorities of Intuitionistic Fuzzy Preference Relation Based on Multiplicative Consistency. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 1669-1681	8.3	130
476	Consensus reaching process for large-scale group decision making with double hierarchy hesitant fuzzy linguistic preference relations. <i>Knowledge-Based Systems</i> , 2018 , 157, 20-33	7.3	130
475	Consensus building with a group of decision makers under the hesitant probabilistic fuzzy environment. <i>Fuzzy Optimization and Decision Making</i> , 2017 , 16, 481-503	5.1	128
474	Towards felicitous decision making: An overview on challenges and trends of Big Data. <i>Information Sciences</i> , 2016 , 367-368, 747-765	7.7	127
473	An extended intuitionistic fuzzy TOPSIS method based on a new distance measure with an application to credit risk evaluation. <i>Information Sciences</i> , 2018 , 428, 105-119	7.7	127
472	Novel correlation coefficients between hesitant fuzzy sets and their application in decision making. <i>Knowledge-Based Systems</i> , 2015 , 82, 115-127	7.3	126
471	Multiple criteria decision making based on Bonferroni means with hesitant fuzzy linguistic information. <i>Soft Computing</i> , 2017 , 21, 6515-6529	3.5	124
470	A survey of approaches to decision making with intuitionistic fuzzy preference relations. <i>Knowledge-Based Systems</i> , 2015 , 80, 131-142	7.3	123
469	A Deviation-Based Approach to Intuitionistic Fuzzy Multiple Attribute Group Decision Making. <i>Group Decision and Negotiation</i> , 2010 , 19, 57-76	2.5	122
468	Hesitant fuzzy ELECTRE II approach: A new way to handle multi-criteria decision making problems. <i>Information Sciences</i> , 2015 , 292, 175-197	7.7	120
467	Analytic hierarchy process-hesitant group decision making. <i>European Journal of Operational Research</i> , 2014 , 239, 794-801	5.6	120
466	Multi-person multi-attribute decision making models under intuitionistic fuzzy environment. <i>Fuzzy Optimization and Decision Making</i> , 2007 , 6, 221-236	5.1	120

465	Two new approaches based on ELECTRE II to solve the multiple criteria decision making problems with hesitant fuzzy linguistic term sets. <i>Applied Soft Computing Journal</i> , 2018 , 63, 223-234	7.5	112
464	Operations and integrations of probabilistic hesitant fuzzy information in decision making. <i>Information Fusion</i> , 2017 , 38, 1-11	16.7	105
463	Recent advances in intuitionistic fuzzy information aggregation. <i>Fuzzy Optimization and Decision Making</i> , 2010 , 9, 359-381	5.1	105
462	MULTIMOORA based MCDM model for site selection of car sharing station under picture fuzzy environment. <i>Sustainable Cities and Society</i> , 2020 , 53, 101873	10.1	105
461	Projection Model for Fusing the Information of Pythagorean Fuzzy Multicriteria Group Decision Making Based on Geometric Bonferroni Mean. <i>International Journal of Intelligent Systems</i> , 2017 , 32, 966-987	8.4	104
460	Generalized intuitionistic fuzzy Bonferroni means. <i>International Journal of Intelligent Systems</i> , 2012 , 27, 23-47	8.4	104
459	A survey of decision-making methods with probabilistic linguistic information: bibliometrics, preliminaries, methodologies, applications and future directions. <i>Fuzzy Optimization and Decision Making</i> , 2020 , 19, 81-134	5.1	104
458	Information sciences 1968-2016: A retrospective analysis with text mining and bibliometric. <i>Information Sciences</i> , 2017 , 418-419, 619-634	7.7	103
457	ELECTRE II method to deal with probabilistic linguistic term sets and its application to edge computing. <i>Nonlinear Dynamics</i> , 2019 , 96, 2125-2143	5	101
456	An Interactive Approach to Multiple Attribute Group Decision Making with Multigranular Uncertain Linguistic Information. <i>Group Decision and Negotiation</i> , 2009 , 18, 119-145	2.5	101
455	Multi-criteria decision making with intuitionistic fuzzy PROMETHEE. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 27, 1703-1717	1.6	98
454	Framework of Group Decision Making With Intuitionistic Fuzzy Preference Information. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 1211-1227	8.3	97
453	On Geometric Aggregation over Interval-Valued Intuitionistic Fuzzy Information 2007 ,		97
452	Ordered weighted distance measure. <i>Journal of Systems Science and Systems Engineering</i> , 2008 , 17, 432-445	4.5	97
451	Probabilistic dual hesitant fuzzy set and its application in risk evaluation. <i>Knowledge-Based Systems</i> , 2017 , 127, 16-28	7.3	95
450	Pythagorean Fuzzy LINMAP Method Based on the Entropy Theory for Railway Project Investment Decision Making. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 93-125	8.4	95
449	An enhanced consensus reaching process in group decision making with intuitionistic fuzzy preference relations. <i>Information Sciences</i> , 2016 , 329, 274-286	7.7	93
448	Fuzzy harmonic mean operators. <i>International Journal of Intelligent Systems</i> , 2009 , 24, 152-172	8.4	93

447	Hesitant fuzzy linguistic term sets for linguistic decision making: Current developments, issues and challenges. <i>Information Fusion</i> , 2018 , 43, 1-12	16.7	91
446	Some consistency measures of extended hesitant fuzzy linguistic preference relations. <i>Information Sciences</i> , 2015 , 297, 316-331	7.7	89
445	Hesitant Fuzzy Sets Theory. <i>Studies in Fuzziness and Soft Computing</i> , 2014 ,	0.7	86
444	Subtraction and division operations over hesitant fuzzy sets. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 27, 65-72	1.6	85
443	Heterogeneous multiple criteria group decision making with incomplete weight information: A deviation modeling approach. <i>Information Fusion</i> , 2015 , 25, 49-62	16.7	84
442	Intuitionistic Fuzzy Multiattribute Decision Making: An Interactive Method. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 514-525	8.3	82
441	Multiple-attribute group decision making with different formats of preference information on attributes. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 1500-11		82
440	Pythagorean fuzzy VIKOR approaches based on TODIM for evaluating internet banking website quality of Ghanaian banking industry. <i>Applied Soft Computing Journal</i> , 2019 , 78, 583-594	7.5	79
439	Hesitant fuzzy QUALIFLEX approach with a signed distance-based comparison method for multiple criteria decision analysis. <i>Expert Systems With Applications</i> , 2015 , 42, 873-884	7.8	78
438	An overview of interval-valued intuitionistic fuzzy information aggregations and applications. <i>Granular Computing</i> , 2017 , 2, 13-39	5.4	77
437	On Method for Uncertain Multiple Attribute Decision Making Problems with Uncertain Multiplicative Preference Information on Alternatives. <i>Fuzzy Optimization and Decision Making</i> , 2005 , 4, 131-139	5.1	77
436	Incomplete interval-valued intuitionistic fuzzy preference relations. <i>International Journal of General Systems</i> , 2009 , 38, 871-886	2.1	75
435	A multi-criteria decision making procedure based on interval-valued intuitionistic fuzzy bonferroni means. <i>Journal of Systems Science and Systems Engineering</i> , 2011 , 20, 217-228	1.2	74
434	Algorithms for estimating missing elements of incomplete intuitionistic preference relations. <i>International Journal of Intelligent Systems</i> , 2011 , 26, 787-813	8.4	74
433	Pythagorean fuzzy Bonferroni mean aggregation operator and its accelerative calculating algorithm with the multithreading. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 615-633	8.4	73
432	On generalized induced linguistic aggregation operators. <i>International Journal of General Systems</i> , 2006 , 35, 17-28	2.1	71
431	Probabilistic linguistic vector-term set and its application in group decision making with multi-granular linguistic information. <i>Applied Soft Computing Journal</i> , 2016 , 49, 801-816	7.5	68
430	Multiple criteria decision making based on distance and similarity measures under double hierarchy hesitant fuzzy linguistic environment. <i>Computers and Industrial Engineering</i> , 2018 , 126, 516-530	6.4	68

429	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 11195-11208	10.7	66
428	Some new similarity measures for intuitionistic fuzzy values and their application in group decision making. <i>Journal of Systems Science and Systems Engineering</i> , 2010 , 19, 430-452	1.2	66
427	An Approach to Improving Consistency of Fuzzy Preference Matrix. <i>Fuzzy Optimization and Decision Making</i> , 2003 , 2, 3-12	5.1	66
426	Some new hybrid weighted aggregation operators under hesitant fuzzy multi-criteria decision making environment. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 26, 1601-1617	1.6	65
425	AN APPROACH TO GROUP DECISION MAKING BASED ON INCOMPLETE LINGUISTIC PREFERENCE RELATIONS. <i>International Journal of Information Technology and Decision Making</i> , 2005 , 04, 153-160	2.8	65
424	Group consistency and group decision making under uncertain probabilistic hesitant fuzzy preference environment. <i>Information Sciences</i> , 2017 , 414, 276-288	7.7	64
423	Expected consistency-based emergency decision making with incomplete probabilistic linguistic preference relations. <i>Knowledge-Based Systems</i> , 2019 , 176, 15-28	7.3	62
422	Bibliometric analysis of fuzzy theory research in China: A 30-year perspective. <i>Knowledge-Based Systems</i> , 2018 , 141, 188-199	7.3	60
421	A Dynamic Weight Determination Approach Based on the Intuitionistic Fuzzy Bayesian Network and Its Application to Emergency Decision Making. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 1893-1907	8.3	59
420	Water security evaluation based on the TODIM method with probabilistic linguistic term sets. <i>Soft Computing</i> , 2019 , 23, 6215-6230	3.5	59
419	Some results for dual hesitant fuzzy sets. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 26, 1657-1668	1.6	59
418	Hesitant Fuzzy Thermodynamic Method for Emergency Decision Making Based on Prospect Theory. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2531-2543	10.2	58
417	Intuitionistic Fuzzy Information Aggregation 2012 ,		58
416	A netting clustering analysis method under intuitionistic fuzzy environment. <i>Applied Soft Computing Journal</i> , 2011 , 11, 5558-5564	7.5	58
415	Measures of Probabilistic Interval-Valued Intuitionistic Hesitant Fuzzy Sets and the Application in Reducing Excessive Medical Examinations. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 1651-1670	8.3	57
414	MOORA under Pythagorean Fuzzy Set for Multiple Criteria Decision Making. <i>Complexity</i> , 2018 , 2018, 1-10	1.6	57
413	A Procedure for Decision Making Based on Incomplete Fuzzy Preference Relation. <i>Fuzzy Optimization and Decision Making</i> , 2005 , 4, 175-189	5.1	57
412	. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 1367-1378	8.3	56

411	Intuitionistic multiplicative analytic hierarchy process in group decision making. <i>Computers and Industrial Engineering</i> , 2016 , 101, 513-524	6.4	56
410	Extended hesitant fuzzy hybrid weighted aggregation operators and their application in decision making. <i>Soft Computing</i> , 2015 , 19, 2551-2564	3.5	55
409	REGRESSION METHODS FOR HESITANT FUZZY PREFERENCE RELATIONS. <i>Technological and Economic Development of Economy</i> , 2014 , 19, S214-S227	4.7	55
408	Enhancing PROMETHEE method with intuitionistic fuzzy soft sets. <i>International Journal of Intelligent Systems</i> , 2020 , 35, 1071-1104	8.4	54
407	The Structure and Citation Landscape of IEEE Transactions on Fuzzy Systems (1994-2015). <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 430-442	8.3	54
406	Pythagorean fuzzy MULTIMOORA method based on distance measure and score function: its application in multicriteria decision making process. <i>Knowledge and Information Systems</i> , 2020 , 62, 4373-4406	2.4	54
405	Hesitant fuzzy agglomerative hierarchical clustering algorithms. <i>International Journal of Systems Science</i> , 2015 , 46, 562-576	2.3	53
404	Intuitionistic Fuzzy Hybrid Weighted Aggregation Operators. <i>International Journal of Intelligent Systems</i> , 2014 , 29, 971-993	8.4	53
403	Multiplicative consistency of interval-valued intuitionistic fuzzy preference relation. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014 , 27, 2969-2985	1.6	53
402	Score function based on concentration degree for probabilistic linguistic term sets: An application to TOPSIS and VIKOR. <i>Information Sciences</i> , 2021 , 551, 270-290	7.7	53
401	Intuitionistic Fuzzy Analytic Network Process. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2578-2590	8.3	51
400	A C-OWA operator-based approach to decision making with interval fuzzy preference relation. <i>International Journal of Intelligent Systems</i> , 2006 , 21, 1289-1298	8.4	51
399	Analysis of Collaboration Evolution in AHP Research: 1982-2018. <i>International Journal of Information Technology and Decision Making</i> , 2021 , 20, 7-36	2.8	51
398	The Multiplicative Consistency Index of Hesitant Fuzzy Preference Relation. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 82-93	8.3	50
397	Derivative and Differential Operations of Intuitionistic Fuzzy Numbers. <i>International Journal of Intelligent Systems</i> , 2015 , 30, 468-498	8.4	50
396	The ELECTRE I Multi-Criteria Decision-Making Method Based on Hesitant Fuzzy Sets. <i>International Journal of Information Technology and Decision Making</i> , 2015 , 14, 621-657	2.8	49
395	An emergency decision making method based on the multiplicative consistency of probabilistic linguistic preference relations. <i>International Journal of Machine Learning and Cybernetics</i> , 2019 , 10, 1613-1629	3.8	49
394	Satisfaction Degree Based Interactive Decision Making under Hesitant Fuzzy Environment with Incomplete Weights. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2014 , 22, 553-572	0.8	49

393	. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 1687-1699	8.3	49
392	Hesitant analytic hierarchy process. <i>European Journal of Operational Research</i> , 2016 , 250, 602-614	5.6	48
391	Intuitionistic fuzzy MST clustering algorithms. <i>Computers and Industrial Engineering</i> , 2012 , 62, 1130-1140.	4	48
390	Group decision making with double hierarchy hesitant fuzzy linguistic preference relations: Consistency based measures, index and repairing algorithms and decision model. <i>Information Sciences</i> , 2019 , 489, 93-112	7.7	47
389	Multi-period multi-attribute group decision-making under linguistic assessments. <i>International Journal of General Systems</i> , 2009 , 38, 823-850	2.1	47
388	PROBABILITY-HESITANT FUZZY SETS AND THE REPRESENTATION OF PREFERENCE RELATIONS. <i>Technological and Economic Development of Economy</i> , 2018 , 24, 1029-1040	4.7	47
387	New operational laws and aggregation method of intuitionistic fuzzy information. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 30, 129-141	1.6	45
386	Entropy Measures of Probabilistic Linguistic Term Sets. <i>International Journal of Computational Intelligence Systems</i> , 2018 , 11, 45	3.4	45
385	An interactive approach to probabilistic hesitant fuzzy multi-attribute group decision making with incomplete weight information. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 32, 2523-2536	1.6	44
384	TODIM-based multi-criteria decision-making method with hesitant fuzzy linguistic term sets. <i>Artificial Intelligence Review</i> , 2020 , 53, 3647-3671	9.7	44
383	Distance and Aggregation-Based Methodologies for Hesitant Fuzzy Decision Making. <i>Cognitive Computation</i> , 2017 , 9, 81-94	4.4	43
382	Modeling complex linguistic expressions in qualitative decision making: An overview. <i>Knowledge-Based Systems</i> , 2018 , 144, 174-187	7.3	43
381	Green Logistic Provider Selection with a Hesitant Fuzzy Linguistic Thermodynamic Method Integrating Cumulative Prospect Theory and PROMETHEE. <i>Sustainability</i> , 2018 , 10, 1291	3.6	43
380	Distance and similarity measures for dual hesitant fuzzy sets and their applications in pattern recognition. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 29, 731-745	1.6	43
379	An interactive procedure for linguistic multiple attribute decision making with incomplete weight information. <i>Fuzzy Optimization and Decision Making</i> , 2007 , 6, 17-27	5.1	43
378	A Practical Procedure for Group Decision Making under Incomplete Multiplicative Linguistic Preference Relations. <i>Group Decision and Negotiation</i> , 2006 , 15, 581-591	2.5	43
377	Hesitancy degree-based correlation measures for hesitant fuzzy linguistic term sets and their applications in multiple criteria decision making. <i>Information Sciences</i> , 2020 , 508, 275-292	7.7	43
376	Multi-attribute decision making methods based on reference ideal theory with probabilistic hesitant information. <i>Expert Systems With Applications</i> , 2019 , 118, 459-469	7.8	43

375	Group decision-making procedure based on incomplete reciprocal relations. <i>Soft Computing</i> , 2008 , 12, 515-521	3.5	42
374	Free Double Hierarchy Hesitant Fuzzy Linguistic Term Sets: An application on ranking alternatives in GDM. <i>Information Fusion</i> , 2019 , 47, 45-59	16.7	41
373	APPROACHES TO MULTI-STAGE MULTI-ATTRIBUTE GROUP DECISION MAKING. <i>International Journal of Information Technology and Decision Making</i> , 2011 , 10, 121-146	2.8	41
372	Probabilistic double hierarchy linguistic term set and its use in designing an improved VIKOR method: The application in smart healthcare. <i>Journal of the Operational Research Society</i> , 2020 , 1-20	2	41
371	Fundamental properties of intuitionistic fuzzy calculus. <i>Knowledge-Based Systems</i> , 2015 , 76, 1-16	7.3	40
370	Severity assessment of chronic obstructive pulmonary disease based on hesitant fuzzy linguistic COPRAS method. <i>Applied Soft Computing Journal</i> , 2018 , 69, 60-71	7.5	40
369	PROJECTION METHOD FOR UNCERTAIN MULTI-ATTRIBUTE DECISION MAKING WITH PREFERENCE INFORMATION ON ALTERNATIVES. <i>International Journal of Information Technology and Decision Making</i> , 2004 , 03, 429-434	2.8	40
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