

Zeshui Xu

List of Publications by Year in Descending Order

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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	A BIBLIOMETRIC ANALYSIS OF NATURAL DISASTERS AND BUSINESS MANAGEMENT IN TOURISM. <i>Journal of Business Economics and Management</i> , 2022 , 23, 305-326	2	3
535	Advantage matrix: two novel multi-attribute decision-making methods and their applications.. <i>Artificial Intelligence Review</i> , 2022 , 1-22	9.7	0
534	Sustainable Process Selection Using a Hybrid Fuzzy DEMATEL and Fuzzy Inference System. <i>International Journal of Fuzzy Systems</i> , 2022 , 24, 1232	3.6	
533	The Journal Buildings: A Bibliometric Analysis (2011-2021). <i>Buildings</i> , 2022 , 12, 37	3.2	1
532	Three-way group consensus decision based on hierarchical social network consisting of decision makers and participants. <i>Information Sciences</i> , 2022 , 585, 289-312	7.7	3
531	A three-way decision approach with risk strategies in hesitant fuzzy decision information systems. <i>Information Sciences</i> , 2022 , 588, 293-314	7.7	3
530	A process-oriented probabilistic linguistic decision-making model with unknown attribute weights. <i>Knowledge-Based Systems</i> , 2022 , 235, 107594	7.3	0
529	Predicting the effectiveness of interventions on population-level sodium reduction: A simulation modeling study.. <i>Health Science Reports</i> , 2022 , 5, e540	2.2	0
528	A look at the focus shift in innovation literature due to Covid-19 pandemic.. <i>Journal of Business Research</i> , 2022 , 145, 1-20	8.7	1
527	A New Coordination Service Design Method for Government Website Considering the Kansei Needs and the Fairness of User Groups. <i>IEEE Transactions on Engineering Management</i> , 2022 , 1-15	2.6	
526	The dual-fuzzy convolutional neural network to deal with handwritten image recognition. <i>IEEE Transactions on Fuzzy Systems</i> , 2022 , 1-1	8.3	
525	Regret theory-based three-way decision model in hesitant fuzzy environments and its application to medical decision. <i>IEEE Transactions on Fuzzy Systems</i> , 2022 , 1-1	8.3	3
524	Regret-Theoretic Multiattribute Decision-Making Model Using Three-Way Framework in Multiscale Information Systems. <i>IEEE Transactions on Cybernetics</i> , 2022 , 1-14	10.2	2
523	Novel operations of weighted hesitant fuzzy sets and their group decision making application. <i>AIMS Mathematics</i> , 2022 , 7, 14117-14138	2.2	
522	EVALUATION OF GOVERNMENT INVESTMENT USING NESTED PROBABILISTIC LINGUISTIC PREFERENCE RELATIONS BASED ON GRAPH THEORY. <i>Technological and Economic Development of Economy</i> , 2022 , 28, 831-853	4.7	
521	Fuzzy multi-attribute decision-making: Theory, methods and Applications 2022 , 621-658		
520	Matrix game-based approach for MADM with probabilistic triangular intuitionistic hesitant fuzzy information and its application. <i>Computers and Industrial Engineering</i> , 2021 , 163, 107787	6.4	3

519	The criteria-oriented three-way ranking and clustering strategies in fuzzy decision environments. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	2
518	Loss function information fusion and decision rule deduction of three-way decisions by construing interval-valued q-Rung Orthopair fuzzy integral. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	2
517	Time-varying intuitionistic fuzzy integral for emergency materials demand prediction with case-based reasoning. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	
516	FINANCIAL CYCLES IN THE ECONOMY AND IN ECONOMIC RESEARCH: A CASE STUDY IN CHINA. <i>Technological and Economic Development of Economy</i> , 2021 , 27, 1250-1279	4.7	1
515	Insights into financial technology (FinTech): a bibliometric and visual study.. <i>Financial Innovation</i> , 2021 , 7, 69	5.7	12
514	Large-Scale Group Consensus Decision-Making Methods with DHHFLPRs. <i>Studies in Fuzziness and Soft Computing</i> , 2021 , 153-195	0.7	2
513	Double Hierarchy Linguistic Term Set and Its Extensions. <i>Studies in Fuzziness and Soft Computing</i> , 2021 , 1-21	0.7	2
512	Group Consensus Decision-Making Methods with DHHFLPRs, LPOs and Self-confident DHLPRs. <i>Studies in Fuzziness and Soft Computing</i> , 2021 , 95-152	0.7	
511	50 Years of international journal of systems science: a review of the past and trends for the future. <i>International Journal of Systems Science</i> , 2021 , 52, 1515-1538	2.3	12
510	Low-Carbon Supply Chain Emission Reduction Strategy Considering the Supervision of Downstream Enterprises Based on Evolutionary Game Theory. <i>Sustainability</i> , 2021 , 13, 2827	3.6	3
509	Probabilistic hesitant fuzzy TOPSIS emergency decision-making method based on the cumulative prospect theory. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 40, 4367-4383	1.6	11
508	An overview of ARAS method: Theory development, application extension, and future challenge. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 3524-3565	8.4	6
507	The optimized GRNN based on the FDS-FOA under the hesitant fuzzy environment and its application in air quality index prediction. <i>Applied Intelligence</i> , 2021 , 51, 8365	4.9	3
506	Probabilistic reliable linguistic term sets applied to investment project selection with the gained and lost dominance score method. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 2163-2183	3.8	2
505	ADVANCES IN FUZZY TECHNIQUES AND APPLICATIONS: IN OCCASION OF LOTFI ZADEH 100 BIRTH ANNIVERSARY. <i>Technological and Economic Development of Economy</i> , 2021 , 27, 280-283	4.7	1
504	A probabilistic linguistic evaluation-based multi-stage medical scheme selection process related to referral system. <i>Expert Systems With Applications</i> , 2021 , 170, 114523	7.8	4
503	Managing noncooperative behaviors in large-scale group decision-making with linguistic preference orderings: The application in Internet Venture Capital. <i>Information Fusion</i> , 2021 , 69, 142-155	16.7	12
502	Belief interval interpretation of probabilistic linguistic term sets and a visual method for solving the preference problem in multicriteria group decision making. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 4364-4391	8.4	1

501	Conversion-based aggregation algorithms for linear ordinal rankings combined with granular computing. <i>Knowledge-Based Systems</i> , 2021 , 219, 106880	7.3	1
500	Caching-Aware Garbage Collection to Improve Performance and Lifetime for NAND Flash SSDs. <i>IEEE Transactions on Consumer Electronics</i> , 2021 , 67, 141-148	4.8	2
499	The research on COVID-19 and economy from 2019 to 2020: analysis from the perspective of bibliometrics. <i>Oeconomia Copernicana</i> , 2021 , 12, 217-268	6	9
498	Group decision making with hesitant fuzzy linguistic preference relations based on modified extent measurement. <i>Expert Systems With Applications</i> , 2021 , 171, 114235	7.8	13
497	A multi-attribute decision-making framework for Chinese medicine medical diagnosis with correlation measures under double hierarchy hesitant fuzzy linguistic environment. <i>Computers and Industrial Engineering</i> , 2021 , 156, 107243	6.4	2
496	Hesitant Mahalanobis distance with applications to estimating the optimal number of clusters. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 5264-5306	8.4	2
495	Consensus Model Handling Minority Opinions and Noncooperative Behaviors in Large-Scale Group Decision-Making Under Double Hierarchy Linguistic Preference Relations. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 283-296	10.2	37
494	Q-Rung Orthopair Fuzzy Integrals in the Frame of Continuous Archimedean T-Norms and T-Conorms and Their Application. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 996-1007	8.3	10
493	Developing the comparison techniques of probabilistic hesitant fuzzy elements in multiple criteria decision making. <i>Soft Computing</i> , 2021 , 25, 331-342	3.5	3
492	Series based on the new order in intuitionistic fuzzy environment. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 40, 319-330	1.6	1
491	An Interval-Valued Best/Worst Method with Normal Distribution for Multi-criteria Decision-Making. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 1771-1785	2.5	12
490	A comprehensive bibliometric analysis of uncertain group decision making from 1980 to 2019. <i>Information Sciences</i> , 2021 , 547, 328-353	7.7	26
489	A Novel Two-Stage Multi-Criteria Decision-Making Method Based on Interval-Valued Pythagorean Fuzzy Aggregation Operators with Self-Confidence Levels. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 1561-1584	2.5	5
488	Managing consensus reaching process with self-confident double hierarchy linguistic preference relations in group decision making. <i>Fuzzy Optimization and Decision Making</i> , 2021 , 20, 51-79	5.1	15
487	Two-stage multi-sided matching dispatching models based on improved BPR function with probabilistic linguistic term sets. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 151-169	3.8	4
486	An improved TODIM method based on the hesitant fuzzy psychological distance measure. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 973-985	3.8	3
485	Are family firms in the eyes of economic policy?. <i>International Entrepreneurship and Management Journal</i> , 2021 , 17, 1233-1259	4.9	2
484	An inverse prospect theory-based algorithm in extended incomplete additive probabilistic linguistic preference relation environment and its application in financial products selection. <i>Fuzzy Optimization and Decision Making</i> , 2021 , 20, 397-428	5.1	3

483	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
482	Pythagorean fuzzy C-means algorithm for image segmentation. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 1223-1243	8.4	9
481	A novel process to determine consensus thresholds and its application in probabilistic linguistic group decision-making. <i>Expert Systems With Applications</i> , 2021 , 168, 114315	7.8	5
480	A measure of probabilistic hesitant I-fuzzy sets and decision makings for strategy choice. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 1244-1269	8.4	0
479	Double hierarchy linguistic term set and its extensions: The state-of-the-art survey. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 832-865	8.4	6
478	Probabilistic Linguistic Term Envelopment Analysis Model. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 262-279	3.6	3
477	Solving matrix games based on Ambika method with hesitant fuzzy information and its application in the counter-terrorism issue. <i>Applied Intelligence</i> , 2021 , 51, 1227-1243	4.9	7
476	The impact of poverty cycles on economic research: evidence from econometric analysis. <i>Economic Research-Ekonomska Istrazivanja</i> , 2021 , 34, 152-171	2.5	7
475	Interval Consistency Repairing Method for Double Hierarchy Hesitant Fuzzy Linguistic Preference Relation and Application in the Diagnosis of Lung Cancer. <i>Economic Research-Ekonomska Istrazivanja</i> , 2021 , 34, 1-20	2.5	8
474	An integrated method for multi-criteria decision-making based on the best-worst method and Dempster-Shafer evidence theory under double hierarchy hesitant fuzzy linguistic environment. <i>Applied Intelligence</i> , 2021 , 51, 713-735	4.9	8
473	Risk interval-valued three-way decisions model with regret theory and its application to project resource allocation. <i>Journal of the Operational Research Society</i> , 2021 , 72, 180-199	2	17
472	A decision-making framework based on prospect theory with probabilistic linguistic term sets. <i>Journal of the Operational Research Society</i> , 2021 , 72, 879-888	2	14
471	A Consensus Model for Hesitant Fuzzy Linguistic Preference Relation Based on Consistency Driven. <i>Studies in Fuzziness and Soft Computing</i> , 2021 , 111-126	0.7	1
470	A Thermodynamic Method for Hesitant Fuzzy Decision Making Based on Prospect Theory. <i>Studies in Fuzziness and Soft Computing</i> , 2021 , 45-62	0.7	
469	The fusion of deep learning and fuzzy systems: A state-of-the-art survey. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	3
468	DEA cross-efficiency framework for efficiency evaluation with probabilistic linguistic term sets. <i>Journal of the Operational Research Society</i> , 2021 , 72, 1191-1206	2	4
467	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
466	QUALIFLEX Based on PT with Probabilistic Linguistic Information. <i>Uncertainty and Operations Research</i> , 2021 , 31-48	0.1	

465	An Overview on Recent Researches of Uncertain Group Decision Making: Methodology, Framework and Development. <i>International Journal of Information Technology and Decision Making</i> , 2021 , 20, 165-198	3.8	4
464	AN OVERVIEW OF A LEADER JOURNAL IN THE FIELD OF TRANSPORT: A BIBLIOMETRIC ANALYSIS OF COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING FROM 2000 TO 2019. <i>Transport</i> , 2021 , 35, 557-575	1.4	3
463	Group Decisions with Intuitionistic Fuzzy Sets 2021 , 977-995		0
462	Consensus model based on probability K-means clustering algorithm for large scale group decision making. <i>International Journal of Machine Learning and Cybernetics</i> , 2021 , 12, 1609-1626	3.8	7
461	Sparse portfolio selection with uncertain probability distribution. <i>Applied Intelligence</i> , 2021 , 51, 6665-6684	4.4	1
460	Simple noncooperative games with intuitionistic fuzzy information and application in ecological management. <i>Applied Intelligence</i> , 2021 , 51, 6685-6697	4.9	2
459	A mixed 0-1 programming approach for multiple attribute strategic weight manipulation based on uncertainty theory. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 1-16	1.6	6
458	Intuitionistic Fuzzy Three-Factor Ratio Models and Multi-preference Fusion. <i>Cognitive Computation</i> , 2021 , 13, 1246	4.4	
457	Three-way decisions based on some Hamacher aggregation operators under double hierarchy linguistic environment. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 7731	8.4	2
456	A NOVEL DECISION-MAKING FRAMEWORK BASED ON PROBABILISTIC LINGUISTIC TERM SET FOR SELECTING SUSTAINABLE SUPPLIER CONSIDERING SOCIAL CREDIT. <i>Technological and Economic Development of Economy</i> , 2021 , 1-34	4.7	2
455	A comprehensive bibliometric analysis of entrepreneurship and crisis literature published from 1984 to 2020. <i>Journal of Business Research</i> , 2021 , 135, 304-318	8.7	9
454	Service networks for sustainable business: A dynamic evolution analysis over half a century. <i>Journal of Business Research</i> , 2021 , 136, 543-557	8.7	9
453	A novel approach of three-way decisions with information interaction strategy for intelligent decision making under uncertainty. <i>Information Sciences</i> , 2021 , 581, 106-135	7.7	3
452	Continuous Exp Strategy for Consumer Preference Analysis based on Online Ratings. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	1
451	The risk assessment of construction project investment based on prospect theory with linguistic preference orderings. <i>Economic Research-Ekonomska Istrazivanja</i> , 2021 , 34, 709-731	2.5	14
450	A Priority Programming Model for Hesitant Fuzzy Linguistic Preference Relation. <i>Studies in Fuzziness and Soft Computing</i> , 2021 , 81-98	0.7	
449	A novel order evaluation model with nested probabilistic-numerical linguistic information applied to traditional order grabbing mode. <i>Applied Intelligence</i> , 2021 , 51, 4470-4489	4.9	1
448	Work Resumption After Epidemic Using Three-Way Decisions. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 630-641	3.6	6

447	A Novel TODIM with Probabilistic Hesitant Fuzzy Information and Its Application in Green Supplier Selection. <i>Complexity</i> , 2020 , 2020, 1-26	1.6	10
446	Profit Allocations for Restricted Coalition With Hesitation Degrees in Cooperative Game Theory. <i>IEEE Access</i> , 2020 , 8, 83105-83115	3.5	2
445	Multiattribute social network matching with unknown weight and different risk preference. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 4031-4048	1.6	6
444	Green Supplier Selection Based on Green Practices Evaluated Using Fuzzy Approaches of TOPSIS and ELECTRE with a Case Study in a Chinese Internet Company. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	18
443	Decision-Making Support for the Evaluation of Clustering Algorithms Based on MCDM. <i>Complexity</i> , 2020 , 2020, 1-17	1.6	6
442	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 11195-11208	10.7	66
441	The Medical Treatment Service Matching Based on the Probabilistic Linguistic Term Sets with Unknown Attribute Weights. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 1487-1505	3.6	15
440	Limited interval-valued probabilistic linguistic term sets in evaluating airline service quality. <i>Journal of the Operational Research Society</i> , 2020 , 1-17	2	4
439	Incomplete and Inconsistent Information Analysis Method Considering Time Factors: Dynamic Paraconsistent Soft Sets and Their Application to Decision Making. <i>IEEE Access</i> , 2020 , 8, 51532-51549	3.5	1
438	Decision making with probabilistic hesitant fuzzy information based on multiplicative consistency. <i>International Journal of Intelligent Systems</i> , 2020 , 35, 1233-1261	8.4	20
437	Hesitant fuzzy psychological distance measure. <i>International Journal of Machine Learning and Cybernetics</i> , 2020 , 11, 2089-2100	3.8	8
436	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. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	9
435	A bibliometric analysis of Economic Research-Ekonomska Istrazivanja (2007-2019). <i>Economic Research-Ekonomska Istrazivanja</i> , 2020 , 33, 865-886	2.5	27
434	Enhancing PROMETHEE method with intuitionistic fuzzy soft sets. <i>International Journal of Intelligent Systems</i> , 2020 , 35, 1071-1104	8.4	54
433	A bibliometric analysis on deep learning during 2007-2019. <i>International Journal of Machine Learning and Cybernetics</i> , 2020 , 11, 2807-2826	3.8	13
432	. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	8
431	The optimized evidence k-Nearest Neighbor based on FOA under the hesitant fuzzy environment and its application in classification. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 1119-1129	1.6	1
430	Feature-based hesitant fuzzy aggregation method for satisfaction with life scale. <i>Applied Soft Computing Journal</i> , 2020 , 94, 106493	7.5	6

429	Hesitant fuzzy C-means algorithm and its application in image segmentation□ <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 3681-3695	1.6	2
428	Similarity Measure of Hesitant Fuzzy Sets Based on Implication Function and Clustering Analysis. <i>IEEE Access</i> , 2020 , 8, 119995-120008	3.5	1
427	A Decision-Making Model Under Probabilistic Linguistic Circumstances with Unknown Criteria Weights for Online Customer Reviews. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 777-789	3.6	9
426	Dynamic hesitant fuzzy Bayesian network and its application in the optimal investment port decision making problem of Twenty-first century maritime silk road□ <i>Applied Intelligence</i> , 2020 , 50, 1846-1858	4.0	8
425	Decision-Making Models Based on Incomplete Hesitant Fuzzy Linguistic Preference Relation With Application to Site Selection of Hydropower Stations. <i>IEEE Transactions on Engineering Management</i> , 2020 , 1-12	2.6	8
424	Managing individual evaluator□ personalized semantic environment of linguistic term with improved vector expression in multi-granularity linguistic group decision making. <i>Applied Soft Computing Journal</i> , 2020 , 92, 106334	7.5	4
423	A novel plausible reasoning based on intuitionistic fuzzy propositional logic and its application in decision making. <i>Fuzzy Optimization and Decision Making</i> , 2020 , 19, 251-274	5.1	6
422	A new multi-criteria decision model based on incomplete dual probabilistic linguistic preference relations. <i>Applied Soft Computing Journal</i> , 2020 , 91, 106237	7.5	13
421	The probe for the weighted dual probabilistic linguistic correlation coefficient to invest an artificial intelligence project. <i>Soft Computing</i> , 2020 , 24, 15389-15408	3.5	5
420	Hesitant Fuzzy Concept Lattice and its Application. <i>IEEE Access</i> , 2020 , 8, 59774-59786	3.5	1
419	AUTOMOBILE COMPONENTS PROCUREMENT USING A DEA-TOPSIS-FMIP APPROACH WITH ALL-UNIT QUANTITY DISCOUNT AND FUZZY FACTORS. <i>Technological and Economic Development of Economy</i> , 2020 , 27, 311-352	4.7	2
418	MANAGING CONSENSUS BY MULTI-STAGE OPTIMIZATION MODELS WITH LINGUISTIC PREFERENCE ORDERINGS AND DOUBLE HIERARCHY LINGUISTIC PREFERENCES. <i>Technological and Economic Development of Economy</i> , 2020 , 26, 642-674	4.7	21
417	APPLICATIONS OF CONTEMPORARY DECISION-MAKING METHODS TO THE DEVELOPMENT OF ECONOMY AND TECHNOLOGY. <i>Technological and Economic Development of Economy</i> , 2020 , 26, 546-548	4.7	3
416	EVALUATION OF GROUP DECISION MAKING BASED ON GROUP PREFERENCES UNDER A MULTI-CRITERIA ENVIRONMENT. <i>Technological and Economic Development of Economy</i> , 2020 , 26, 1187-1212	4.7	4
415	The Knowledge Domain of The Baltic Journal of Road and Bridge Engineering Between 2006 and 2019. <i>Baltic Journal of Road and Bridge Engineering</i> , 2020 , 15, 1-30	0.9	4
414	Integral aggregations of continuous probabilistic hesitant fuzzy sets. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	0
413	Derivatives and Differentials for Generalized Intuitionistic Multiplicative Fuzzy Information. <i>Uncertainty and Operations Research</i> , 2020 , 17-37	0.1	
412	Group Decisions with Intuitionistic Fuzzy Sets 2020 , 1-20		0

411	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
410	Limit Theory and Differential Calculus of Intuitionistic Fuzzy Functions With Several Variables. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 3367-3375	8.3	3
409	Bibliometric analysis of support vector machines research trend: a case study in China. <i>International Journal of Machine Learning and Cybernetics</i> , 2020 , 11, 715-728	3.8	39
408	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
407	Hesitant Fuzzy Multiple Integrals for Information Aggregation. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 668-685	3.6	5
406	Distance-based intuitionistic multiplicative multiple criteria decision-making methods for healthcare management in West China Hospital. <i>Expert Systems</i> , 2020 , 37, e12479	2.1	5
405	Qualitative hesitant fuzzy group decision making: An additively consistent probability and consensus-based perspective. <i>Expert Systems</i> , 2020 , 37, e12510	2.1	6
404	Probabilistic linguistic information fusion: A survey on aggregation operators in terms of principles, definitions, classifications, applications, and challenges. <i>International Journal of Intelligent Systems</i> , 2020 , 35, 529-556	8.4	33
403	Visualizing the Intellectual Structure of the Fuzzy Linguistic Knowledge Domain: A Bibliometric Analysis. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 2397-2413	3.6	1
402	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020 , 13, 5682-5693	4.7	1
401	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
400	Opinion dynamics based on infectious disease transmission model in the non-connected context of Pythagorean fuzzy trust relationship. <i>Journal of the Operational Research Society</i> , 2020 , 1-21	2	2
399	Investment decision making based on the probabilistic hesitant financial data: model and empirical study. <i>Economic Research-Ekonomika Istrazivanja</i> , 2020 , 1-21	2.5	1
398	Assessing economic losses of haze with uncertain probabilistic linguistic analytic hierarchy process. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 39, 7547-7569	1.6	1
397	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
396	Determining consensus thresholds for group decision making with preference relations. <i>Journal of the Operational Research Society</i> , 2020 , 1-11	2	8
395	A Heterogeneous Regret-Theory-Based Method With Choquet Integral to Multiattribute Reverse Auction. <i>IEEE Transactions on Engineering Management</i> , 2020 , 1-12	2.6	2
394	Integrations of Continuous Hesitant Fuzzy Information in Group Decision Making With a Case Study of Water Resources Emergency Management. <i>IEEE Access</i> , 2020 , 8, 146134-146144	3.5	2

393	A Bibliometric Analysis of Symmetry (2009–2019). <i>Symmetry</i> , 2020 , 12, 1304	2.7	1
392	Hybrid TODIM Method with Crisp Number and Probability Linguistic Term Set for Urban Epidemic Situation Evaluation. <i>Complexity</i> , 2020 , 2020, 1-11	1.6	6
391	The evaluation of mobile health apps: A psychological perception-based probabilistic linguistic belief thermodynamic multiple attribute decision making method. <i>Journal of the Operational Research Society</i> , 2020 , 1-15	2	7
390	Intuitionistic fuzzy two-sided matching model and its application to personnel-position matching problems. <i>Journal of the Operational Research Society</i> , 2020 , 71, 312-321	2	30
389	Tracking a Maneuvering Target by Multiple Sensors Using Extended Kalman Filter With Nested Probabilistic-Numerical Linguistic Information. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 346-360	8.3	15
388	Partitioned fuzzy measure-based linear assignment method for Pythagorean fuzzy multi-criteria decision-making with a new likelihood. <i>Journal of the Operational Research Society</i> , 2020 , 71, 831-845	2	14
387	Additive Integrals of q-Rung Orthopair Fuzzy Functions. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4406-4419	4.19	16
386	Multiplicative consistency analysis for q-rung orthopair fuzzy preference relation. <i>International Journal of Intelligent Systems</i> , 2020 , 35, 38-71	8.4	10
385	Assessment of traffic congestion with ORESTE method under double hierarchy hesitant fuzzy linguistic environment. <i>Applied Soft Computing Journal</i> , 2020 , 86, 105864	7.5	34
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	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
382	A novel distance-based multiple attribute decision-making with hesitant fuzzy sets. <i>Soft Computing</i> , 2020 , 24, 5005-5017	3.5	3
381	Envelopment Analysis, Preference Fusion, and Membership Improvement of Intuitionistic Fuzzy Numbers. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 2119-2130	8.3	8
380	An Overview of the Fuzzy Data Envelopment Analysis Research and Its Successful Applications. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 1037-1055	3.6	11
379	Green Credit Product Design Based on Fuzzy Concept Lattice. <i>IEEE Access</i> , 2019 , 7, 141574-141586	3.5	2
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47	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
46	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
45	AN APPROACH TO PURE LINGUISTIC MULTIPLE ATTRIBUTE DECISION MAKING UNDER UNCERTAINTY. <i>International Journal of Information Technology and Decision Making</i> , 2005 , 04, 197-206	2.8	39
44	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
43	On Compatibility of Interval Fuzzy Preference Relations. <i>Fuzzy Optimization and Decision Making</i> , 2004 , 3, 217-225	5.1	192
42	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
41	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
40	An Approach to Improving Consistency of Fuzzy Preference Matrix. <i>Fuzzy Optimization and Decision Making</i> , 2003 , 2, 3-12	5.1	66
39	Structure, trend and prospect of operational research: a scientific analysis for publications from 1952 to 2020 included in Web of Science database. <i>Fuzzy Optimization and Decision Making</i> ,1	5.1	1
38	Research on K-medoids Algorithm with Probabilistic-based Expressions and Its Applications. <i>Applied Intelligence</i> ,1	4.9	
37	Cognitively Inspired Multi-attribute Decision-making Methods Under Uncertainty: a State-of-the-art Survey. <i>Cognitive Computation</i> ,1	4.4	1
36	A group-based FMEA approach with dynamic heterogeneous social network consensus reaching model for uncertain reliability assessment. <i>Journal of the Operational Research Society</i> ,1-15	2	2
35	A Bibliometric Study and Science Mapping Research of Intelligent Decision. <i>Cognitive Computation</i> ,1	4.4	0
34	ELECTRE II method based on the cosine similarity to evaluate the performance of financial logistics enterprises under double hierarchy hesitant fuzzy linguistic environment. <i>Fuzzy Optimization and Decision Making</i> ,1	5.1	7

33	The Interval probabilistic double hierarchy linguistic EDAS method based on natural language processing basic techniques and its application to hotel online reviews. <i>International Journal of Machine Learning and Cybernetics</i> ,1	3.8	2
32	Green supplier selection based on probabilistic dual hesitant fuzzy sets: A process integrating best worst method and superiority and inferiority ranking. <i>Applied Intelligence</i> ,1	4.9	3
31	A comprehensive bibliometric analysis of financial innovation. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-24	2.5	10
30	Multi-attribute strict two-sided matching methods with interval-valued preference ordinal information. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> ,1-25	2	1
29	The DEMATEL-TOPRAS hybrid method under probabilistic linguistic environment and its application in Third Party Logistics provider selection. <i>Fuzzy Optimization and Decision Making</i> ,1	5.1	6
28	A PL-MCDM Method based on the Decision-Making Reliability of Multi-Group for Patients with Chronic Diseases Requiring Downward Referral. <i>Applied Intelligence</i> ,1	4.9	
27	Ranking Tourist Attractions through Online Reviews: A Novel Method with Intuitionistic and Hesitant Fuzzy Information Based on Sentiment Analysis. <i>International Journal of Fuzzy Systems</i> ,1	3.6	5
26	Large-scale consensus with endo-confidence under probabilistic linguistic circumstance and its application. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-34	2.5	1
25	Foreign direct investment and economic growth: a dynamic study of measurement approaches and results. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-24	2.5	8
24	A continuous interval-valued double hierarchy linguistic GLDS method and its application in performance evaluation of bus companies. <i>Applied Intelligence</i> ,1	4.9	4
23	Dynamic reference point method with probabilistic linguistic information based on the regret theory for public health emergency decision-making. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-35	2.5	6
22	A multidimensional decision with nested probabilistic linguistic term sets and its application in corporate investment. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-19	2.5	6
21	Multiple attribute decision-making method based on projection model for dual hesitant fuzzy set. <i>Fuzzy Optimization and Decision Making</i> ,1	5.1	2
20	An Overview of Studies Based on the Probability-Based Decision-Making Information: Current Developments, Methodologies, Applications and Challenges. <i>International Journal of Fuzzy Systems</i> ,1	3.6	1
19	A Novel Hybrid Fuzzy DEA-Fuzzy ARAS Method for Prioritizing High-Performance Innovation-Oriented Human Resource Practices in High Tech SMEs. <i>International Journal of Fuzzy Systems</i> ,1	3.6	2
18	Does Intuitionistic Fuzzy Analytic Hierarchy Process Work Better Than Analytic Hierarchy Process?. <i>International Journal of Fuzzy Systems</i> ,1	3.6	6
17	Global fusion of multiple order relations and hesitant fuzzy decision analysis. <i>Applied Intelligence</i> ,1	4.9	0
16	Consensus reaching with the externality effect of social network for three-way group decisions. <i>Annals of Operations Research</i> ,1	3.2	2

15	Green supplier selection with a multiple criteria decision-making method based on thermodynamic features. <i>Environment, Development and Sustainability</i> ,1	4.5	2
14	Review of fuzzy investment research considering modelling environment and element fusion. <i>International Journal of Systems Science</i> ,1-25	2.3	1
13	An overview of probabilistic preference decision-making based on bibliometric analysis. <i>Applied Intelligence</i> ,1	4.9	1
12	Uncertain linguistic terms with weakened hedges for multi-granular linguistic decision making with its application to evaluating communication technologies. <i>Applied Intelligence</i> ,1	4.9	0
11	A double interaction-based financing group decision-making framework considering uncertain information and inconsistent assessment. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-26	2.5	
10	Heterogeneous group decision making with thermodynamical parameters. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-25	2.5	
9	Sustainable business model innovation literature: a bibliometrics analysis. <i>Review of Managerial Science</i> ,1	3.9	1
8	The two-stage utility function with an aspiration to mass data and uncertain linguistic environment in multiple experts multiple criteria decision making. <i>Journal of the Operational Research Society</i> ,1-18	2	
7	Knowledge Diffusion Trajectories in the Hesitant Fuzzy Domain in the Past Decade: A Citation-Based Analysis. <i>International Journal of Fuzzy Systems</i> ,1	3.6	0
6	Three-way investment decisions during the epidemic with Choquet-based bi-projection method. <i>Fuzzy Optimization and Decision Making</i> ,1	5.1	
5	Granular computing and optimization model-based method for large-scale group decision-making and its application. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-32	2.5	
4	The impact of COVID-19 on the service business industry: insights from a bibliometric review. <i>Total Quality Management and Business Excellence</i> ,1-35	2.7	0
3	A probabilistic linguistic thermodynamic method based on the water-filling algorithm and regret theory for emergency decision making. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-26	2.5	
2	A hesitant fuzzy SMART method based on a new score function for information literacy assessment of teachers. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-26	2.5	1
1	Risk assessment in project management by a graph-theory-based group decision making method with comprehensive linguistic preference information. <i>Economic Research-Ekonomska Istrazivanja</i> ,1-30	2.5	0