

Harish Garg

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.

319
papers

11,725
citations

60
h-index

93
g-index

339
ext. papers

14,077
ext. citations

3.8
avg. IF

8.6
L-index

#	Paper	IF	Citations
319	A New Generalized Pythagorean Fuzzy Information Aggregation Using Einstein Operations and Its Application to Decision Making. <i>International Journal of Intelligent Systems</i> , 2016 , 31, 886-920	8.4	405
318	A hybrid PSO-GA algorithm for constrained optimization problems. <i>Applied Mathematics and Computation</i> , 2016 , 274, 292-305	2.7	345
317	Generalized Pythagorean Fuzzy Geometric Aggregation Operators Using Einstein t-Norm and t-Conorm for Multicriteria Decision-Making Process. <i>International Journal of Intelligent Systems</i> , 2017 , 32, 597-630	8.4	243
316	A novel accuracy function under interval-valued Pythagorean fuzzy environment for solving multicriteria decision making problem. <i>Journal of Intelligent and Fuzzy Systems</i> , 2016 , 31, 529-540	1.6	222
315	A Novel Correlation Coefficients between Pythagorean Fuzzy Sets and Its Applications to Decision-Making Processes. <i>International Journal of Intelligent Systems</i> , 2016 , 31, 1234-1252	8.4	217
314	A new generalized improved score function of interval-valued intuitionistic fuzzy sets and applications in expert systems. <i>Applied Soft Computing Journal</i> , 2016 , 38, 988-999	7.5	211
313	Linguistic Pythagorean fuzzy sets and its applications in multiattribute decision-making process. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 1234-1263	8.4	195
312	Some Picture Fuzzy Aggregation Operators and Their Applications to Multicriteria Decision-Making. <i>Arabian Journal for Science and Engineering</i> , 2017 , 42, 5275-5290	2.5	192
311	Exponential operation and aggregation operator for q-rung orthopair fuzzy set and their decision-making method with a new score function. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 2255-2282	8.4	175
310	Multi-objective reliability-redundancy allocation problem using particle swarm optimization. <i>Computers and Industrial Engineering</i> , 2013 , 64, 247-255	6.4	173
309	TOPSIS method based on the connection number of set pair analysis under interval-valued intuitionistic fuzzy set environment. <i>Computational and Applied Mathematics</i> , 2018 , 37, 1319-1329		163
308	Generalized intuitionistic fuzzy interactive geometric interaction operators using Einstein t-norm and t-conorm and their application to decision making. <i>Computers and Industrial Engineering</i> , 2016 , 101, 53-69	6.4	163
307	Novel intuitionistic fuzzy decision making method based on an improved operation laws and its application. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 60, 164-174	7.2	149
306	An advanced study on the similarity measures of intuitionistic fuzzy sets based on the set pair analysis theory and their application in decision making. <i>Soft Computing</i> , 2018 , 22, 4959-4970	3.5	144
305	Linguistic Interval-Valued Atanassov Intuitionistic Fuzzy Sets and Their Applications to Group Decision Making Problems. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 2302-2311	8.3	133
304	Confidence levels based Pythagorean fuzzy aggregation operators and its application to decision-making process. <i>Computational and Mathematical Organization Theory</i> , 2017 , 23, 546-571	2.1	131
303	New exponential operational laws and their aggregation operators for interval-valued Pythagorean fuzzy multicriteria decision-making. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 653-683	8.4	129

302	A hybrid GSA-GA algorithm for constrained optimization problems. <i>Information Sciences</i> , 2019 , 478, 499-523	5.23	127
301	Algorithms for interval-valued fuzzy soft sets in emergency decision making based on WDBA and CODAS with new information measure. <i>Computers and Industrial Engineering</i> , 2018 , 119, 439-452	6.4	124
300	Solving structural engineering design optimization problems using an artificial bee colony algorithm. <i>Journal of Industrial and Management Optimization</i> , 2014 , 10, 777-794	2	120
299	New logarithmic operational laws and their aggregation operators for Pythagorean fuzzy set and their applications. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 82-106	8.4	117
298	Pythagorean fuzzy interactive Hamacher power aggregation operators for assessment of express service quality with entropy weight. <i>Soft Computing</i> , 2021 , 25, 973-993	3.5	115
297	Complex intuitionistic fuzzy power aggregation operators and their applications in multicriteria decision-making. <i>Expert Systems</i> , 2018 , 35, e12325	2.1	112
296	Intuitionistic fuzzy optimization technique for solving multi-objective reliability optimization problems in interval environment. <i>Expert Systems With Applications</i> , 2014 , 41, 3157-3167	7.8	112
295	Connection number of set pair analysis based TOPSIS method on intuitionistic fuzzy sets and their application to decision making. <i>Applied Intelligence</i> , 2018 , 48, 2112-2119	4.9	107
294	A novel exponential distance and its based TOPSIS method for interval-valued intuitionistic fuzzy sets using connection number of SPA theory. <i>Artificial Intelligence Review</i> , 2020 , 53, 595-624	9.7	106
293	Multiattribute group decision making based on neutrality aggregation operators of q-rung orthopair fuzzy sets. <i>Information Sciences</i> , 2020 , 517, 427-447	7.7	102
292	Generalized and group-based generalized intuitionistic fuzzy soft sets with applications in decision-making. <i>Applied Intelligence</i> , 2018 , 48, 343-356	4.9	101
291	A Novel Improved Accuracy Function for Interval Valued Pythagorean Fuzzy Sets and Its Applications in the Decision-Making Process. <i>International Journal of Intelligent Systems</i> , 2017 , 32, 1247-1260	8.4	99
290	Multi-criteria group decision making based on ELECTRE I method in Pythagorean fuzzy information. <i>Soft Computing</i> , 2020 , 24, 3425-3453	3.5	94
289	Some methods for strategic decision-making problems with immediate probabilities in Pythagorean fuzzy environment. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 687-712	8.4	93
288	An efficient biogeography based optimization algorithm for solving reliability optimization problems. <i>Swarm and Evolutionary Computation</i> , 2015 , 24, 1-10	9.8	93
287	DISTANCE MEASURES BETWEEN THE COMPLEX INTUITIONISTIC FUZZY SETS AND THEIR APPLICATIONS TO THE DECISION-MAKING PROCESS 2017 , 7, 423-439		89
286	Correlation coefficients for T-spherical fuzzy sets and their applications in clustering and multi-attribute decision making. <i>Soft Computing</i> , 2020 , 24, 1647-1659	3.5	87
285	A Linear Programming Method Based on an Improved Score Function for Interval-Valued Pythagorean Fuzzy Numbers and Its Application to Decision-Making. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2018 , 26, 67-80	0.8	86

284	A robust correlation coefficient measure of dual hesitant fuzzy soft sets and their application in decision making. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 72, 80-92	7.2	84
283	Some Generalized Complex Intuitionistic Fuzzy Aggregation Operators and Their Application to Multicriteria Decision-Making Process. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 2679-2698	2.5	83
282	A NEW IMPROVED SCORE FUNCTION OF AN INTERVAL-VALUED PYTHAGOREAN FUZZY SET BASED TOPSIS METHOD 2017 , 7, 463-474		80
281	A robust correlation coefficient measure of complex intuitionistic fuzzy sets and their applications in decision-making. <i>Applied Intelligence</i> , 2019 , 49, 496-512	4.9	76
280	Multi-Attribute Decision-Making Based on Bonferroni Mean Operators under Cubic Intuitionistic Fuzzy Set Environment. <i>Entropy</i> , 2018 , 20,	2.8	75
279	Linguistic single-valued neutrosophic prioritized aggregation operators and their applications to multiple-attribute group decision-making. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018 , 9, 1975-1997	3.7	74
278	A novel TVAC-PSO based mutation strategies algorithm for generation scheduling of pumped storage hydrothermal system incorporating solar units. <i>Energy</i> , 2018 , 142, 822-837	7.9	73
277	A nonlinear-programming methodology for multi-attribute decision-making problem with interval-valued intuitionistic fuzzy soft sets information. <i>Applied Intelligence</i> , 2018 , 48, 2031-2046	4.9	72
276	Distance measures between type-2 intuitionistic fuzzy sets and their application to multicriteria decision-making process. <i>Applied Intelligence</i> , 2017 , 46, 788-799	4.9	72
275	Hesitant Pythagorean fuzzy Maclaurin symmetric mean operators and its applications to multiattribute decision-making process. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 601-626	8.4	72
274	NOVEL SINGLE-VALUED NEUTROSOPHIC AGGREGATED OPERATORS UNDER FRANK NORM OPERATION AND ITS APPLICATION TO DECISION-MAKING PROCESS 2016 , 6, 361-375		71
273	Generalized intuitionistic fuzzy soft power aggregation operator based on t-norm and their application in multicriteria decision-making. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 215-246	8.4	71
272	Dual Hesitant Fuzzy Soft Aggregation Operators and Their Application in Decision-Making. <i>Cognitive Computation</i> , 2018 , 10, 769-789	4.4	70
271	Generalised Pythagorean fuzzy geometric interactive aggregation operators using Einstein operations and their application to decision making. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2018 , 30, 763-794	2	70
270	Interval-Valued Pythagorean Fuzzy Maclaurin Symmetric Mean Operators in Multiple Attribute Decision Making. <i>IEEE Access</i> , 2018 , 6, 67866-67884	3.5	69
269	HESITANT PYTHAGOREAN FUZZY SETS AND THEIR AGGREGATION OPERATORS IN MULTIPLE ATTRIBUTE DECISION-MAKING 2018 , 8, 267-289		68
268	Some series of intuitionistic fuzzy interactive averaging aggregation operators. <i>SpringerPlus</i> , 2016 , 5, 999		66
267	CUBIC INTUITIONISTIC FUZZY AGGREGATION OPERATORS 2018 , 8, 405-427		66

266	Algorithm for Multiple Attribute Decision-Making with Interactive Archimedean Norm Operations Under Pythagorean Fuzzy Uncertainty. <i>International Journal of Computational Intelligence Systems</i> , 2021 , 14, 503	3.4	66
265	Generalized Cubic Intuitionistic Fuzzy Aggregation Operators Using t-Norm Operations and Their Applications to Group Decision-Making Process. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 2775-2794	2.5	66
264	Some Aggregation Operators for Linguistic Intuitionistic Fuzzy Set and its Application to Group Decision-Making Process Using the Set Pair Analysis. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 3213-3227	2.5	66
263	Distance measures for connection number sets based on set pair analysis and its applications to decision-making process. <i>Applied Intelligence</i> , 2018 , 48, 3346-3359	4.9	64
262	A new possibility degree measure for interval-valued q-rung orthopair fuzzy sets in decision-making. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 526-557	8.4	64
261	Algorithm for T-Spherical Fuzzy Multi-Attribute Decision Making Based on Improved Interactive Aggregation Operators. <i>Symmetry</i> , 2018 , 10, 670	2.7	64
260	AN IMPROVED SCORE FUNCTION FOR RANKING NEUTROSOPHIC SETS AND ITS APPLICATION TO DECISION-MAKING PROCESS 2016 , 6, 377-385		60
259	Novel scaled prioritized intuitionistic fuzzy soft interaction averaging aggregation operators and their application to multi criteria decision making. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 71, 100-112	7.2	59
258	Generalized intuitionistic fuzzy multiplicative interactive geometric operators and their application to multiple criteria decision making. <i>International Journal of Machine Learning and Cybernetics</i> , 2016 , 7, 1075-1092	3.8	58
257	Group decision-making method based on prioritized linguistic intuitionistic fuzzy aggregation operators and its fundamental properties. <i>Computational and Applied Mathematics</i> , 2019 , 38, 1	2.4	57
256	DISTANCE AND SIMILARITY MEASURES FOR INTUITIONISTIC MULTIPLICATIVE PREFERENCE RELATION AND ITS APPLICATIONS 2017 , 7, 117-133		56
255	Algorithms for possibility linguistic single-valued neutrosophic decision-making based on COPRAS and aggregation operators with new information measures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 138, 278-290	4.6	55
254	Bonferroni mean aggregation operators under intuitionistic fuzzy soft set environment and their applications to decision-making. <i>Journal of the Operational Research Society</i> , 2018 , 69, 1711-1724	2	55
253	Complex Interval-valued Intuitionistic Fuzzy Sets and their Aggregation Operators. <i>Fundamenta Informaticae</i> , 2019 , 164, 61-101	1	54
252	Evaluation of the Performance of Search and Rescue Robots Using T-spherical Fuzzy Hamacher Aggregation Operators. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 570-582	3.6	54
251	DISTANCE AND SIMILARITY MEASURES FOR DUAL HESITANT FUZZY SOFT SETS AND THEIR APPLICATIONS IN MULTICRITERIA DECISION MAKING PROBLEM 2017 , 7, 229-248		54
250	Quantifying gesture information in brain hemorrhage patients using probabilistic dual hesitant fuzzy sets with unknown probability information. <i>Computers and Industrial Engineering</i> , 2020 , 140, 106211	6.4	54
249	Bi-objective optimization of the reliability-redundancy allocation problem for series-parallel system. <i>Journal of Manufacturing Systems</i> , 2014 , 33, 335-347	9.1	53

248	TOPSIS method based on correlation coefficient for solving decision-making problems with intuitionistic fuzzy soft set information. <i>AIMS Mathematics</i> , 2020 , 5, 2944-2966	2.2	53
247	New Operations on Interval-Valued Picture Fuzzy Set, Interval-Valued Picture Fuzzy Soft Set and Their Applications. <i>IEEE Access</i> , 2019 , 7, 51236-51253	3.5	52
246	Linguistic Interval-Valued Pythagorean Fuzzy Sets and Their Application to Multiple Attribute Group Decision-making Process. <i>Cognitive Computation</i> , 2020 , 12, 1313-1337	4.4	52
245	Intuitionistic Fuzzy Hamacher Aggregation Operators with Entropy Weight and Their Applications to Multi-criteria Decision-Making Problems. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2019 , 43, 597-613	1.9	52
244	Novel neutrality operationBased Pythagorean fuzzy geometric aggregation operators for multiple attribute group decision analysis. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 2459-2489	8.4	51
243	Improved possibility degree method for ranking intuitionistic fuzzy numbers and their application in multiattribute decision-making. <i>Granular Computing</i> , 2019 , 4, 237-247	5.4	51
242	Multiparametric similarity measures on Pythagorean fuzzy sets with applications to pattern recognition. <i>Applied Intelligence</i> , 2019 , 49, 4058-4096	4.9	50
241	Power Aggregation Operators and VIKOR Methods for Complex q-Rung Orthopair Fuzzy Sets and Their Applications. <i>Mathematics</i> , 2020 , 8, 538	2.3	50
240	Multi-objective non-linear programming problem in intuitionistic fuzzy environment: Optimistic and pessimistic view point. <i>Expert Systems With Applications</i> , 2016 , 64, 228-238	7.8	50
239	An efficient two phase approach for solving reliabilityRedundancy allocation problem using artificial bee colony technique. <i>Computers and Operations Research</i> , 2013 , 40, 2961-2969	4.6	50
238	An approach for solving constrained reliability-redundancy allocation problems using cuckoo search algorithm. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2015 , 4, 14-25	2.2	49
237	Non-linear programming method for multi-criteria decision making problems under interval neutrosophic set environment. <i>Applied Intelligence</i> , 2018 , 48, 2199-2213	4.9	49
236	Some results on information measures for complex intuitionistic fuzzy sets. <i>International Journal of Intelligent Systems</i> , 2019 , 34, 2319-2363	8.4	49
235	Reliability analysis of repairable systems using Petri nets and vague Lambda-Tau methodology. <i>ISA Transactions</i> , 2013 , 52, 6-18	5.5	49
234	New logarithmic operational laws and their applications to multiattribute decision making for single-valued neutrosophic numbers. <i>Cognitive Systems Research</i> , 2018 , 52, 931-946	4.8	49
233	Some new operations over the generalized intuitionistic fuzzy sets and their application to decision-making process. <i>Granular Computing</i> , 2018 , 3, 111-122	5.4	46
232	Decision Support Algorithm for Selecting an Antivirus Mask over COVID-19 Pandemic under Spherical Normal Fuzzy Environment. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	45
231	Decision-Making Analysis Based on Fermatean Fuzzy Yager Aggregation Operators with Application in COVID-19 Testing Facility. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-16	1.1	45

230	Stochastic behavior analysis of complex repairable industrial systems utilizing uncertain data. <i>ISA Transactions</i> , 2012 , 51, 752-62	5.5	44
229	CN- q-ROFS: Connection number-based q-rung orthopair fuzzy set and their application to decision-making process. <i>International Journal of Intelligent Systems</i> , 2021 , 36, 3106-3143	8.4	44
228	A novel trigonometric operation-based q-rung orthopair fuzzy aggregation operator and its fundamental properties. <i>Neural Computing and Applications</i> , 2020 , 32, 15077-15099	4.8	43
227	Neutrality operations-based Pythagorean fuzzy aggregation operators and its applications to multiple attribute group decision-making process. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 3021-3041	3.7	43
226	An approach for reliability analysis of industrial systems using PSO and IFS technique. <i>ISA Transactions</i> , 2013 , 52, 701-10	5.5	42
225	Some robust improved geometric aggregation operators under interval-valued intuitionistic fuzzy environment for multi-criteria decision-making process. <i>Journal of Industrial and Management Optimization</i> , 2018 , 14, 283-308	2	42
224	An approach for analyzing the reliability of industrial systems using soft-computing based technique. <i>Expert Systems With Applications</i> , 2014 , 41, 489-501	7.8	41
223	A novel divergence measure and its based TOPSIS method for multi criteria decision-making under single-valued neutrosophic environment. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 36, 101-115	1.6	39
222	Novel aggregation operators and ranking method for complex intuitionistic fuzzy sets and their applications to decision-making process. <i>Artificial Intelligence Review</i> , 2020 , 53, 3595-3620	9.7	39
221	A novel possibility measure to interval-valued intuitionistic fuzzy set using connection number of set pair analysis and its applications. <i>Neural Computing and Applications</i> , 2020 , 32, 3337-3348	4.8	39
220	Multi-Criteria Decision-Making Method Based on Prioritized Muirhead Mean Aggregation Operator under Neutrosophic Set Environment. <i>Symmetry</i> , 2018 , 10, 280	2.7	39
219	A novel approach for analyzing the reliability of series-parallel system using credibility theory and different types of intuitionistic fuzzy numbers. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016 , 38, 1021-1035	2	38
218	Algorithm for Probabilistic Dual Hesitant Fuzzy Multi-Criteria Decision-Making Based on Aggregation Operators With New Distance Measures. <i>Mathematics</i> , 2018 , 6, 280	2.3	37
217	A Hybrid GA-GSA Algorithm for Optimizing the Performance of an Industrial System by Utilizing Uncertain Data. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2015 , 620-654	0.4	36
216	Decision-making model under complex picture fuzzy Hamacher aggregation operators. <i>Computational and Applied Mathematics</i> , 2020 , 39, 1	2.4	36
215	Entropy and distance measures of Pythagorean fuzzy soft sets and their applications. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 37, 4071-4084	1.6	35
214	Behavior analysis of synthesis unit in fertilizer plant. <i>International Journal of Quality and Reliability Management</i> , 2012 , 29, 217-232	2	35
213	Some arithmetic operations on the generalized sigmoidal fuzzy numbers and its application. <i>Granular Computing</i> , 2018 , 3, 9-25	5.4	34

212	Some New Biparametric Distance Measures on Single-Valued Neutrosophic Sets with Applications to Pattern Recognition and Medical Diagnosis. <i>Information (Switzerland)</i> , 2017 , 8, 162	2.6	34
211	Generalized Intuitionistic Fuzzy Entropy-Based Approach for Solving Multi-attribute Decision-Making Problems with Unknown Attribute Weights. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2019 , 89, 129-139	0.9	34
210	Maclaurin symmetric mean aggregation operators based on t-norm operations for the dual hesitant fuzzy soft set. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 375-410	3.7	34
209	Uncertain database retrieval with measure \mathbb{I} -Based belief function attribute values under intuitionistic fuzzy set. <i>Information Sciences</i> , 2021 , 546, 436-447	7.7	34
208	Behavioural analysis of urea decomposition system in a fertiliser plant. <i>International Journal of Industrial and Systems Engineering</i> , 2011 , 8, 271	0.4	33
207	A novel entropy measure of Pythagorean fuzzy soft sets. <i>AIMS Mathematics</i> , 2020 , 5, 1050-1061	2.2	33
206	Symmetric Triangular Interval Type-2 Intuitionistic Fuzzy Sets with Their Applications in Multi Criteria Decision Making. <i>Symmetry</i> , 2018 , 10, 401	2.7	33
205	Performance analysis of an industrial system using soft computing based hybridized technique. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 1441-1451	2	32
204	Exponential similarity measures for Pythagorean fuzzy sets and their applications to pattern recognition and decision-making process. <i>Complex & Intelligent Systems</i> , 2019 , 5, 217-228	7.1	32
203	Robust Averaging Geometric Aggregation Operators for Complex Intuitionistic Fuzzy Sets and Their Applications to MCDM Process. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 2017-2033	2.5	32
202	An Approach for Analyzing the Reliability of Industrial System Using Fuzzy Kolmogorov Differential Equations. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 975-987		31
201	A New Uncertainty Measure of Discrete Z-numbers. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 7603-7616	3.7	31
200	An approach for analyzing the reliability and profit of an industrial system based on the cost free warranty policy. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018 , 40, 1	2	31
199	A Multi-Attribute Decision Making Process with Immediate Probabilistic Interactive Averaging Aggregation Operators of T-Spherical Fuzzy Sets and Its Application in the Selection of Solar Cells. <i>Energies</i> , 2019 , 12, 4436	3.1	31
198	A robust correlation coefficient for probabilistic dual hesitant fuzzy sets and its applications. <i>Neural Computing and Applications</i> , 2020 , 32, 8847-8866	4.8	31
197	New generalised Bonferroni mean aggregation operators of complex intuitionistic fuzzy information based on Archimedean t-norm and t-conorm. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2020 , 32, 81-109	2	30
196	New exponential operation laws and operators for interval-valued q-rung orthopair fuzzy sets in group decision making process. <i>Neural Computing and Applications</i> , 2021 , 33, 13937	4.8	29
195	Investigation of multiple heterogeneous relationships using a q-rung orthopair fuzzy multi-criteria decision algorithm. <i>Neural Computing and Applications</i> , 2020 , 33, 10771	4.8	28

194	Multi-attribute group decision-making using double hierarchy hesitant fuzzy linguistic preference information. <i>Neural Computing and Applications</i> , 2020 , 32, 14031-14045	4.8	28
193	Some hybrid weighted aggregation operators under neutrosophic set environment and their applications to multicriteria decision-making. <i>Applied Intelligence</i> , 2018 , 48, 4871-4888	4.9	28
192	A Robust Ranking Method for Intuitionistic Multiplicative Sets Under Crisp, Interval Environments and Its Applications. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2017 , 1, 366-374	4.1	28
191	Aggregation operators of Pythagorean fuzzy soft sets with their application for green supplier chain management. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021 , 40, 5545-5563	1.6	27
190	The mean operators and generalized products of fuzzy soft matrices and their applications in MCGDM. <i>Computational and Applied Mathematics</i> , 2020 , 39, 1	2.4	26
189	Investigations for melt flow index of Nylon6-Fe composite based hybrid FDM filament. <i>Rapid Prototyping Journal</i> , 2016 , 22, 338-343	3.8	26
188	Algorithms for complex interval-valued q-rung orthopair fuzzy sets in decision making based on aggregation operators,AHP,andTOPSIS. <i>Expert Systems</i> , 2021 , 38,	2.1	26
187	T-spherical fuzzy power aggregation operators and their applications in multi-attribute decision making. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 1-14	3.7	26
186	Performance analysis of complex repairable industrial systems using PSO and fuzzy confidence interval based methodology. <i>ISA Transactions</i> , 2013 , 52, 171-83	5.5	25
185	Novel neutrality aggregation operator-based multiattribute group decision-making method for single-valued neutrosophic numbers. <i>Soft Computing</i> , 2020 , 24, 10327-10349	3.5	25
184	Novel distance measures for cubic intuitionistic fuzzy sets and their applications to pattern recognitions and medical diagnosis. <i>Granular Computing</i> , 2020 , 5, 169-184	5.4	25
183	Reliability, Availability and Maintainability Analysis of Industrial Systems Using PSO and Fuzzy Methodology. <i>Mapan - Journal of Metrology Society of India</i> , 2014 , 29, 115-129	1	24
182	CHOQUET INTEGRAL-BASED INFORMATION AGGREGATION OPERATORS UNDER THE INTERVAL-VALUED INTUITIONISTIC FUZZY SET AND ITS APPLICATIONS TO DECISION-MAKING PROCESS 2017 , 7, 249-269		24
181	Generalized interaction aggregation operators in intuitionistic fuzzy multiplicative preference environment and their application to multicriteria decision-making. <i>Applied Intelligence</i> , 2018 , 48, 2120-2136	4.9	23
180	Novel correlation coefficients under the intuitionistic multiplicative environment and their applications to decision-making process. <i>Journal of Industrial and Management Optimization</i> , 2018 , 14, 1501-1519	2	23
179	Spherical fuzzy soft sets and its applications in decision-making problems. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 37, 8237-8250	1.6	23
178	Some Novel Interactive Hybrid Weighted Aggregation Operators with Pythagorean Fuzzy Numbers and Their Applications to Decision Making. <i>Mathematics</i> , 2019 , 7, 1150	2.3	23
177	TOPSIS based on nonlinear-programming methodology for solving decision-making problems under cubic intuitionistic fuzzy set environment. <i>Computational and Applied Mathematics</i> , 2019 , 38, 1	2.4	22

176	Arithmetic Operations on Generalized Parabolic Fuzzy Numbers and Its Application. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2018 , 88, 15-26	0.9	22
175	Multi-objective optimization problem of system reliability under intuitionistic fuzzy set environment using Cuckoo Search algorithm. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 29, 1653-1669	1.6	22
174	Predicting uncertain behavior of press unit in a paper industry using artificial bee colony and fuzzy Lambda Tau methodology. <i>Applied Soft Computing Journal</i> , 2013 , 13, 1869-1881	7.5	22
173	Multiplicative Consistency Adjustment Model and Data Envelopment Analysis-Driven Decision-Making Process with Probabilistic Hesitant Fuzzy Preference Relations. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 2319-2332	3.6	22
172	Multi-objective linear fractional inventory model with possibility and necessity constraints under generalised intuitionistic fuzzy set environment. <i>CAAI Transactions on Intelligence Technology</i> , 2019 , 4, 175-181	9.7	22
171	Exponential operational laws and new aggregation operators for intuitionistic multiplicative set in multiple-attribute group decision making process. <i>Information Sciences</i> , 2020 , 538, 245-272	7.7	21
170	Generalized Intuitionistic Fuzzy Entropy Measure of Order and Degree and Its Applications to Multi-Criteria Decision Making Problem. <i>International Journal of Fuzzy System Applications</i> , 2017 , 6, 86-107	0.6	21
169	A TWO-PHASE APPROACH FOR RELIABILITY AND MAINTAINABILITY ANALYSIS OF AN INDUSTRIAL SYSTEM. <i>International Journal of Reliability, Quality and Safety Engineering</i> , 2012 , 19, 1250013	0.6	21
168	Generalized Geometric Aggregation Operators Based on T-Norm Operations for Complex Intuitionistic Fuzzy Sets and Their Application to Decision-making. <i>Cognitive Computation</i> , 2020 , 12, 679-698	4.4	21
167	Some Root Level Modifications in Interval Valued Fuzzy Graphs and Their Generalizations Including Neutrosophic Graphs. <i>Mathematics</i> , 2019 , 7, 72	2.3	21
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