Shyi-Ming Chen

List of Publications by Citations

335 papers	15,777 citations	76 h-index	116 g-index
371 ext. papers	18,046 ext. citations	5.6 avg, IF	7.64 L-index

#	Paper	IF	Citations
335	Handling multicriteria fuzzy decision-making problems based on vague set theory. *Fuzzy Sets and Systems*, **1994**, 67, 163-172	3.7	749
334	Forecasting enrollments based on fuzzy time series. *Fuzzy Sets and Systems*, **1996**, 81, 311-319	3.7	725
333	Fuzzy multiple attributes group decision-making based on the interval type-2 TOPSIS method. *Expert Systems With Applications*, **2010**, 37, 2790-2798	7.8	366
332	. *IEEE Transactions on Knowledge and Data Engineering*, **1990**, 2, 311-319	4.2	290
331	FORECASTING ENROLLMENTS BASED ON HIGH-ORDER FUZZY TIME SERIES. *Cybernetics and Systems*, **2002**, 33, 1-16	1.9	281
330	Fuzzy risk analysis based on similarity measures of generalized fuzzy numbers. *IEEE Transactions on Fuzzy Systems*, **2003**, 11, 45-56	8.3	269
329	Handling forecasting problems using fuzzy time series. *Fuzzy Sets and Systems*, **1998**, 100, 217-228	3.7	249
328	Temperature prediction using fuzzy time series. *IEEE Transactions on Systems, Man, and Cybernetics*, **2000**, 30, 263-75		247
327	Measures of similarity between vague sets. *Fuzzy Sets and Systems*, **1995**, 74, 217-223	3.7	228
326	Fuzzy multiple attributes group decision-making based on the ranking values and the arithmetic operations of interval type-2 fuzzy sets. *Expert Systems With Applications*, **2010**, 37, 824-833	7.8	224
325	Fuzzy risk analysis based on the ranking of generalized trapezoidal fuzzy numbers. *Applied Intelligence*, **2007**, 26, 1-11	4.9	197
324	Fuzzy risk analysis based on ranking generalized fuzzy numbers with different heights and different spreads. *Expert Systems With Applications*, **2009**, 36, 6833-6842	7.8	186
323	Group Decision Making Based on Heronian Aggregation Operators of Intuitionistic Fuzzy Numbers. *IEEE Transactions on Cybernetics*, **2017**, 47, 2514-2530	10.2	184
322	Some intuitionistic fuzzy Dombi Bonferroni mean operators and their application to multi-attribute group decision making. *Journal of the Operational Research Society*, **2018**, 69, 1-24	2	177
321	Fuzzy system reliability analysis using fuzzy number arithmetic operations. *Fuzzy Sets and Systems*, **1994**, 64, 31-38	3.7	177
320	A comparison of similarity measures of fuzzy values. *Fuzzy Sets and Systems*, **1995**, 72, 79-89	3.7	175
319	Evaluating weapon systems using fuzzy arithmetic operations. *Fuzzy Sets and Systems*, **1996**, 77, 265-276	3.7	175

318	Solving the traveling salesman problem based on the genetic simulated annealing ant colony system with particle swarm optimization techniques. *Expert Systems With Applications*, **2011**, 38, 14439-14450	7.8	170
317	Forecasting enrollments using high-order fuzzy time series and genetic algorithms. *International Journal of Intelligent Systems*, **2006**, 21, 485-501	8.4	167
316	Multiple attribute group decision making based on intuitionistic fuzzy interaction partitioned Bonferroni mean operators. *Information Sciences*, **2017**, 411, 98-121	7.7	163
315	Handling forecasting problems based on two-factors high-order fuzzy time series. *IEEE Transactions on Fuzzy Systems*, **2006**, 14, 468-477	8.3	163
314	A novel similarity measure between Atanassov intuitionistic fuzzy sets based on transformation techniques with applications to pattern recognition. *Information Sciences*, **2015**, 291, 96-114	7.7	162
313	Similarity measures between vague sets and between elements. *IEEE Transactions on Systems, Man, and Cybernetics*, **1997**, 27, 153-8		162
312	TAIEX Forecasting Based on Fuzzy Time Series and Fuzzy Variation Groups. *IEEE Transactions on Fuzzy Systems*, **2011**, 19, 1-12	8.3	152
311	NEW METHODS FOR SUBJECTIVE MENTAL WORKLOAD ASSESSMENT AND FUZZY RISK ANALYSIS. *Cybernetics and Systems*, **1996**, 27, 449-472	1.9	151
310	Multicriteria linguistic decision making based on hesitant fuzzy linguistic term sets and the aggregation of fuzzy sets. *Information Sciences*, **2014**, 286, 63-74	7.7	142
309	Fuzzy multiattribute group decision making based on intuitionistic fuzzy sets and evidential reasoning methodology. *Information Fusion*, **2016**, 27, 215-227	16.7	140
308	Fuzzy time series forecasting based on fuzzy logical relationships and similarity measures. *Information Sciences*, **2016**, 327, 272-287	7.7	137
307	A NEW METHOD FOR HANDLING MULTICRITERIA FUZZY DECISION-MAKING PROBLEMS USING FN-IOWA OPERATORS. *Cybernetics and Systems*, **2003**, 34, 109-137	1.9	134
306	Fuzzy multiple attributes group decision-making based on ranking interval type-2 fuzzy sets. *Expert Systems With Applications*, **2012**, 39, 5295-5308	7.8	132
305	TAIEX forecasting based on fuzzy time series, particle swarm optimization techniques and support vector machines. *Information Sciences*, **2013**, 247, 62-71	7.7	132
304	Multiattribute decision making based on novel score function of intuitionistic fuzzy values and modified VIKOR method. *Information Sciences*, **2019**, 488, 76-92	7.7	131
303	Multicriteria decision making based on the TOPSIS method and similarity measures between intuitionistic fuzzy values. *Information Sciences*, **2016**, 367-368, 279-295	7.7	125
302	Fuzzy risk analysis based on interval-valued fuzzy numbers. *Expert Systems With Applications*, **2009**, 36, 2285-2299	7.8	124
301	Fuzzy decision making based on likelihood-based comparison relations of hesitant fuzzy linguistic term sets and hesitant fuzzy linguistic operators. *Information Sciences*, **2015**, 294, 513-529	7.7	123

300	A novel similarity measure between intuitionistic fuzzy sets based on the centroid points of transformed fuzzy numbers with applications to pattern recognition. *Information Sciences*, **2016**, 343-344, 15-40	7.7	121
299	A new approach for fuzzy risk analysis based on similarity measures of generalized fuzzy numbers. *Expert Systems With Applications*, **2009**, 36, 589-598	7.8	120
298	Fuzzy forecasting based on high-order fuzzy logical relationships and automatic clustering techniques. *Expert Systems With Applications*, **2011**, 38, 15425-15437	7.8	119
297	Multi-variable fuzzy forecasting based on fuzzy clustering and fuzzy rule interpolation techniques. *Information Sciences*, **2010**, 180, 4772-4783	7.7	116
296	Multiattribute group decision making based on intuitionistic 2-tuple linguistic information. *Information Sciences*, **2018**, 430-431, 599-619	7.7	115
295	Temperature prediction and TAIFEX forecasting based on fuzzy logical relationships and genetic algorithms. *Expert Systems With Applications*, **2007**, 33, 539-550	7.8	112
294	TAIEX Forecasting Using Fuzzy Time Series and Automatically Generated Weights of Multiple Factors. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2012**, 42, 1485-1495		111
293	Fuzzy multiattribute decision making based on transformation techniques of intuitionistic fuzzy values and intuitionistic fuzzy geometric averaging operators. *Information Sciences*, **2016**, 352-353, 133-149	7.7	110
292	Group decision making using incomplete fuzzy preference relations based on the additive consistency and the order consistency. *Information Sciences*, **2014**, 259, 1-15	7.7	110
291	Enhanced parallel cat swarm optimization based on the Taguchi method. *Expert Systems With Applications*, **2012**, 39, 6309-6319	7.8	110
290	Fuzzy decision making systems based on interval type-2 fuzzy sets. *Information Sciences*, **2013**, 242, 1-21	7.7	109
289	Temperature prediction and TAIFEX forecasting based on high-order fuzzy logical relationships and genetic simulated annealing techniques. *Expert Systems With Applications*, **2008**, 34, 328-336	7.8	109
288	Fuzzy forecasting based on two-factors second-order fuzzy-trend logical relationship groups and particle swarm optimization techniques. *IEEE Transactions on Cybernetics*, **2013**, 43, 1102-17	10.2	106
287	Temperature prediction and TAIFEX forecasting based on automatic clustering techniques and two-factors high-order fuzzy time series. *Expert Systems With Applications*, **2009**, 36, 2143-2154	7.8	105
286	Multiattribute group decision making based on neutrality aggregation operators of q-rung orthopair fuzzy sets. *Information Sciences*, **2020**, 517, 427-447	7.7	102
285	Fuzzy risk analysis based on ranking generalized fuzzy numbers with different left heights and right heights. *Expert Systems With Applications*, **2012**, 39, 6320-6334	7.8	98
284	Multicriteria fuzzy decision making based on interval-valued intuitionistic fuzzy sets. *Expert Systems With Applications*, **2012**, 39, 12085-12091	7.8	97
283	. *IEEE Transactions on Fuzzy Systems*, **2011**, 19, 729-744	8.3	96

282	Multivariate fuzzy forecasting based on fuzzy time series and automatic clustering techniques. *Expert Systems With Applications*, **2011**, 38, 10594-10605	7.8	96
281	Fuzzy Rules Interpolation for Sparse Fuzzy Rule-Based Systems Based on Interval Type-2 Gaussian Fuzzy Sets and Genetic Algorithms. *IEEE Transactions on Fuzzy Systems*, **2013**, 21, 412-425	8.3	94
280	Multiple attribute decision making based on interval-valued intuitionistic fuzzy sets, linear programming methodology, and the extended TOPSIS method. *Information Sciences*, **2017**, 397-398, 155-167	7.7	92
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278	A recommendation system based on domain ontology and SWRL for anti-diabetic drugs selection. *Expert Systems With Applications*, **2012**, 39, 3995-4006	7.8	91
277	Handling forecasting problems based on high-order fuzzy logical relationships. *Expert Systems With Applications*, **2011**, 38, 3857-3864	7.8	91
276	Fuzzy Multiple Criteria Hierarchical Group Decision-Making Based on Interval Type-2 Fuzzy Sets. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2010**, 40, 1120-1128		91
275	A new method for tool steel materials selection under fuzzy environment. *Fuzzy Sets and Systems*, **1997**, 92, 265-274	3.7	90
274	A new method for constructing membership functions and fuzzy rules from training examples. *IEEE Transactions on Systems, Man, and Cybernetics*, **1999**, 29, 25-40		90
273	Analyzing fuzzy risk based on a new fuzzy ranking method between generalized fuzzy numbers. *Expert Systems With Applications*, **2011**, 38, 2163-2171	7.8	89
272	Fuzzy risk analysis based on similarity measures between interval-valued fuzzy numbers and interval-valued fuzzy number arithmetic operators. *Expert Systems With Applications*, **2009**, 36, 6309-6317	7.8	89
271	Fuzzy forecasting based on two-factors second-order fuzzy-trend logical relationship groups and the probabilities of trends of fuzzy logical relationships. *IEEE Transactions on Cybernetics*, **2015**, 45, 405-17	10.2	86
270	Evaluating Students' Answerscripts Using Fuzzy Numbers Associated With Degrees of Confidence. *IEEE Transactions on Fuzzy Systems*, **2008**, 16, 403-415	8.3	86
269	Fuzzy group decision making for evaluating the rate of aggregative risk in software development. *Fuzzy Sets and Systems*, **2001**, 118, 75-88	3.7	85
268	A weighted fuzzy reasoning algorithm for medical diagnosis. *Decision Support Systems*, **1994**, 11, 37-43	5.6	85
267	Multiple-Attribute Group Decision-Making Based on q-Rung Orthopair Fuzzy Power Maclaurin Symmetric Mean Operators. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 1-16	7.3	84
266	Multiattribute Decision Making Based on Interval-Valued Intuitionistic Fuzzy Sets, PSO Techniques, and Evidential Reasoning Methodology. *IEEE Transactions on Fuzzy Systems*, **2015**, 23, 1905-1916	8.3	82
265	Fuzzy Multiple Attributes Group Decision-Making Based on Ranking Interval Type-2 Fuzzy Sets and the TOPSIS Method. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2014**, 44, 1665-1673	7.3	82

264	Parallelized genetic ant colony systems for solving the traveling salesman problem. *Expert Systems With Applications*, **2011**, 38, 3873-3883	7.8	80
263	Fuzzy Interpolative Reasoning for Sparse Fuzzy-Rule-Based Systems Based on the Areas of Fuzzy Sets. *IEEE Transactions on Fuzzy Systems*, **2008**, 16, 1285-1301	8.3	80
262	Fuzzy risk analysis based on measures of similarity between interval-valued fuzzy numbers. *Computers and Mathematics With Applications*, **2008**, 55, 1670-1685	2.7	80
261	Forecasting enrollments using automatic clustering techniques and fuzzy logical relationships. *Expert Systems With Applications*, **2009**, 36, 11070-11076	7.8	78
260	A fuzzy reasoning approach for rule-based systems based on fuzzy logics. *IEEE Transactions on Systems, Man, and Cybernetics*, **1996**, 26, 769-78		78
259	A new interpolative reasoning method in sparse rule-based systems. *Fuzzy Sets and Systems*, **1998**, 93, 17-22	3.7	75
258	Interval-valued intuitionistic fuzzy multiple attribute decision making based on nonlinear programming methodology and TOPSIS method. *Information Sciences*, **2020**, 506, 424-442	7.7	75
257	A new method for generating fuzzy rules from numerical data for handling classification problems. *Applied Artificial Intelligence*, **2001**, 15, 645-664	2.3	73
256	Weighted fuzzy reasoning using weighted fuzzy Petri nets. *IEEE Transactions on Knowledge and Data Engineering*, **2002**, 14, 386-397	4.2	71
255	Fuzzy Interpolative Reasoning for Sparse Fuzzy Rule-Based Systems Based on ${bm alpha}$-Cuts and Transformations Techniques. *IEEE Transactions on Fuzzy Systems*, **2008**, 16, 1626-1648	8.3	69
254	New methods for students' evaluation using fuzzy sets. *Fuzzy Sets and Systems*, **1999**, 104, 209-218	3.7	68
253	Applying fuzzy method to vision-based lane detection and departure warning system. *Expert Systems With Applications*, **2010**, 37, 113-126	7.8	66
252	Bidirectional approximate reasoning based on interval-valued fuzzy sets. *Fuzzy Sets and Systems*, **1997**, 91, 339-353	3.7	65
251	Automatically constructing concept maps based on fuzzy rules for adapting learning systems. *Expert Systems With Applications*, **2008**, 35, 41-49	7.8	63
250	Fuzzy risk analysis based on fuzzy numbers with different shapes and different deviations. *Expert Systems With Applications*, **2008**, 34, 2763-2771	7.8	63
249	A new method for fuzzy information retrieval based on fuzzy hierarchical clustering and fuzzy inference techniques. *IEEE Transactions on Fuzzy Systems*, **2005**, 13, 216-228	8.3	63
248	Fuzzy multiple attributes group decision-making based on fuzzy preference relations. *Expert Systems With Applications*, **2011**, 38, 3865-3872	7.8	62
247	Automatically constructing grade membership functions of fuzzy rules for students evaluation. *Expert Systems With Applications*, **2008**, 35, 1408-1414	7.8	62

246	AGGREGATING FUZZY OPINIONS IN THE GROUP DECISION-MAKING ENVIRONMENT. *Cybernetics and Systems*, **1998**, 29, 363-376	1.9	61
245	Multiattribute group decision making based on intuitionistic fuzzy partitioned Maclaurin symmetric mean operators. *Information Sciences*, **2020**, 512, 830-854	7.7	61
244	Generating weighted fuzzy rules from relational database systems for estimating null values using genetic algorithms. *IEEE Transactions on Fuzzy Systems*, **2003**, 11, 495-506	8.3	59
243	Fuzzy query translation for relational database systems. *IEEE Transactions on Systems, Man, and Cybernetics*, **1997**, 27, 714-21		58
242	Bidirectional approximate reasoning for rule-based systems using interval-valued fuzzy sets. *Fuzzy Sets and Systems*, **2000**, 113, 185-203	3.7	57
241	Fuzzy time series forecasting based on optimal partitions of intervals and optimal weighting vectors. *Knowledge-Based Systems*, **2017**, 118, 204-216	7.3	55
240	Weighted Fuzzy Interpolative Reasoning Based on Weighted Increment Transformation and Weighted Ratio Transformation Techniques. *IEEE Transactions on Fuzzy Systems*, **2009**, 17, 1412-1427	8.3	55
239	Group decision making systems using group recommendations based on interval fuzzy preference relations and consistency matrices. *Information Sciences*, **2015**, 298, 555-567	7.7	54
238	Interval-valued fuzzy hypergraph and fuzzy partition. *IEEE Transactions on Systems, Man, and Cybernetics*, **1997**, 27, 725-33		52
237	Fuzzy forecasting based on fuzzy-trend logical relationship groups. *IEEE Transactions on Systems, Man, and Cybernetics*, **2010**, 40, 1343-58		51
236	Evaluating students learning achievement using fuzzy membership functions and fuzzy rules. *Expert Systems With Applications*, **2008**, 34, 399-410	7.8	50
235	Multiattribute decision making based on interval-valued intuitionistic fuzzy values and linear programming methodology. *Information Sciences*, **2017**, 381, 341-351	7.7	49
234	Fuzzy risk analysis based on ranking fuzzy numbers using cuts, belief features and signal/noise ratios. *Expert Systems With Applications*, **2009**, 36, 5576-5581	7.8	49
233	Finding multiple possible critical paths using fuzzy PERT. *IEEE Transactions on Systems, Man, and Cybernetics*, **2001**, 31, 930-7		49
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231	. *IEEE Transactions on Systems, Man, and Cybernetics*, **1995**, 25, 793-803		46
230	Fuzzy Decision-Making Based on Likelihood-Based Comparison Relations. *IEEE Transactions on Fuzzy Systems*, **2010**, 18, 613-628	8.3	44
229	Fuzzy best-worst method based on triangular fuzzy numbers for multi-criteria decision-making. *Information Sciences*, **2021**, 547, 1080-1104	7.7	44

228	Adaptive consensus support model for group decision making systems. *Expert Systems With Applications*, **2012**, 39, 12580-12588	7.8	43
227	Fuzzy backward reasoning using fuzzy Petri nets. *IEEE Transactions on Systems, Man, and Cybernetics*, **2000**, 30, 846-56		43
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225	A new multiattribute decision making method based on multiplication operations of interval-valued intuitionistic fuzzy values and linear programming methodology. *Information Sciences*, **2018**, 429, 421-432	7.7	41
224	Autocratic Decision Making Using Group Recommendations Based on the ILLOWA Operator and Likelihood-Based Comparison Relations. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2012**, 42, 115-129		38
223	An improved multiattribute decision making method based on new score function of interval-valued intuitionistic fuzzy values and linear programming methodology. *Information Sciences*, **2017**, 411, 176-184	7.7	37
222	Feature subset selection based on fuzzy entropy measures for handling classification problems. *Applied Intelligence*, **2008**, 28, 69-82	4.9	37
221	A new multiple attribute decision making method based on linear programming methodology and novel score function and novel accuracy function of interval-valued intuitionistic fuzzy values. *Information Sciences*, **2018**, 438, 145-155	7.7	36
220	Analyzing fuzzy risk based on similarity measures between interval-valued fuzzy numbers. *Expert Systems With Applications*, **2011**, 38, 8612-8621	7.8	34
219	Fuzzy interpolative reasoning for sparse fuzzy rule-based systems based on interval type-2 fuzzy sets. *Expert Systems With Applications*, **2011**, 38, 9947-9957	7.8	33
218	Fuzzy decision making and fuzzy group decision making based on likelihood-based comparison relations of hesitant fuzzy linguistic term sets1. *Journal of Intelligent and Fuzzy Systems*, **2015**, 29, 1119-1137	1.6	32
217	Fuzzy time series forecasting based on proportions of intervals and particle swarm optimization techniques. *Information Sciences*, **2019**, 500, 127-139	7.7	30
216	A generalized model for prioritized multicriteria decision making systems. *Expert Systems With Applications*, **2009**, 36, 4773-4783	7.8	30
215	Query expansion for document retrieval based on fuzzy rules and user relevance feedback techniques. *Expert Systems With Applications*, **2006**, 31, 397-405	7.8	30
214	Evaluating students answerscripts based on interval-valued intuitionistic fuzzy sets. *Information Sciences*, **2013**, 235, 308-322	7.7	29
213	Parallel Cat Swarm Optimization **2008**,		29
212	A consistency and consensus-based method for group decision making with hesitant fuzzy linguistic preference relations. *Information Sciences*, **2019**, 501, 317-336	7.7	28
211	Multiple attribute decision making using improved intuitionistic fuzzy weighted geometric operators of intuitionistic fuzzy values. *Information Sciences*, **2020**, 535, 242-253	7.7	28

210	Fuzzy rule interpolation based on the ratio of fuzziness of interval type-2 fuzzy sets. *Expert Systems With Applications*, **2011**, 38, 12202-12213	7.8	28
209	A NOVEL SIMILARITY MEASURE BETWEEN INTUITIONISTIC FUZZY SETS AND ITS APPLICATIONS. *International Journal of Pattern Recognition and Artificial Intelligence*, **2013**, 27, 1350021	1.1	27
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207	Multiple attribute decision making based on novel interval-valued intuitionistic fuzzy geometric averaging operators. *Information Sciences*, **2016**, 367-368, 1045-1065	7.7	27
206	Multiattribute decision making based on interval-valued intuitionistic fuzzy values and particle swarm optimization techniques. *Information Sciences*, **2017**, 397-398, 206-218	7.7	26
205	Autocratic decision making using group recommendations based on ranking interval type-2 fuzzy sets. *Information Sciences*, **2016**, 361-362, 135-161	7.7	26
204	Fuzzy multiple attributes group decision-making based on fuzzy induced OWA operators. *Expert Systems With Applications*, **2011**, 38, 4097-4108	7.8	26
203	Group decision making with incomplete intuitionistic multiplicative preference relations. *Information Sciences*, **2020**, 516, 560-571	7.7	25
202	Weighted Fuzzy Interpolative Reasoning Based on the Slopes of Fuzzy Sets and Particle Swarm Optimization Techniques. *IEEE Transactions on Cybernetics*, **2015**, 45, 1250-61	10.2	24
201	Multiattribute decision making based on nonlinear programming methodology, particle swarm optimization techniques and interval-valued intuitionistic fuzzy values. *Information Sciences*, **2019**, 471, 252-268	7.7	24
200	Group decision making based on multiplicative consistency and consensus of fuzzy linguistic preference relations. *Information Sciences*, **2020**, 509, 71-86	7.7	24
199	An improved MADM method using interval-valued intuitionistic fuzzy values. *Information Sciences*, **2018**, 467, 489-505	7.7	23
198	Weighted fuzzy interpolative reasoning systems based on interval type-2 fuzzy sets. *Information Sciences*, **2013**, 248, 15-30	7.7	23
197	Fuzzy multiple attributes group decision-making based on the extension of TOPSIS method and interval type-2 fuzzy sets **2008**,		23
196	Autocratic decision making using group recommendations based on interval type-2 fuzzy sets, enhanced Karnik Mendel algorithms, and the ordered weighted aggregation operator. *Information Sciences*, **2017**, 412-413, 174-193	7.7	22
195	Weighted fuzzy interpolative reasoning for sparse fuzzy rule-based systems based on piecewise fuzzy entropies of fuzzy sets. *Information Sciences*, **2016**, 329, 503-523	7.7	22
194	Multiattribute decision making based on interval-valued intuitionistic fuzzy values, score function of connection numbers, and the set pair analysis theory. *Information Sciences*, **2021**, 551, 100-112	7.7	22
193	Multiattribute decision making based on probability density functions and the variances and standard deviations of largest ranges of evaluating interval-valued intuitionistic fuzzy values. *Information Sciences*, **2019**, 490, 329-343	7.7	21

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191	A Prioritized Information Fusion Method for Handling Fuzzy Decision-Making Problems. *Applied Intelligence*, **2005**, 22, 219-232	4.9	21
190	Document retrieval using fuzzy-valued concept networks. *IEEE Transactions on Systems, Man, and Cybernetics*, **2001**, 31, 111-8		21
189	Fuzzy forecasting based on linear combinations of independent variables, subtractive clustering algorithm and artificial bee colony algorithm. *Information Sciences*, **2019**, 484, 350-366	7.7	21
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186	A new method to forecast enrollments using fuzzy time series and clustering techniques **2009**,		20
185	Fuzzy interpolative reasoning for sparse fuzzy rule-based systems based on the ranking values of fuzzy sets. *Expert Systems With Applications*, **2008**, 35, 850-864	7.8	20
184	A new method to estimate null values in relational database systems based on automatic clustering techniques. *Information Sciences*, **2005**, 169, 47-69	7.7	20
183	Multiattribute decision making based on non-linear programming methodology with hyperbolic function and interval-valued intuitionistic fuzzy values. *Information Sciences*, **2018**, 453, 379-388	7.7	19
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181	Multilabel text categorization based on a new linear classifier learning method and a category-sensitive refinement method. *Expert Systems With Applications*, **2008**, 34, 1948-1953	7.8	19
180	Generating fuzzy rules from training instances for fuzzy classification systems. *Expert Systems With Applications*, **2008**, 35, 611-621	7.8	19
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178	Multiattribute decision making based on U-quadratic distribution of intervals and the transformed matrix in interval-valued intuitionistic fuzzy environments. *Information Sciences*, **2020**, 537, 30-45	7.7	18
177	Group decision making with heterogeneous intuitionistic fuzzy preference relations. *Information Sciences*, **2020**, 523, 197-219	7.7	18
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175	Adaptive fuzzy interpolation based on ranking values of polygonal fuzzy sets and similarity measures between polygonal fuzzy sets. *Information Sciences*, **2016**, 342, 176-190	7.7	17

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173	Learning barriers diagnosis based on fuzzy rules for adaptive learning systems. *Expert Systems With Applications*, **2009**, 36, 11211-11220	7.8	17
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171	A New Method for Ranking Generalized Fuzzy Numbers for Handling Fuzzy Risk Analysis Problems **2006**,		17
170	AUTOMATICALLY CONSTRUCTING MEMBERSHIP FUNCTIONS AND GENERATING FUZZY RULES USING GENETIC ALGORITHMS. *Cybernetics and Systems*, **2002**, 33, 841-862	1.9	17
169	Autocratic decision making using group recommendations based on the OWA operator and correlation coefficients. *Information Sciences*, **2015**, 290, 106-119	7.7	16
168	Group decision making based on acceptable consistency analysis of interval linguistic hesitant fuzzy preference relations. *Information Sciences*, **2020**, 530, 66-84	7.7	16
167	Weighted fuzzy interpolated reasoning based on ranking values of polygonal fuzzy sets and new scale and move transformation techniques. *Information Sciences*, **2018**, 435, 184-202	7.7	16
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165	Fuzzy rule interpolation based on principle membership functions and uncertainty grade functions of interval type-2 fuzzy sets. *Expert Systems With Applications*, **2011**, 38, 11573-11580	7.8	16
164	AGGREGATING FUZZY OPINIONS IN THE HETEROGENEOUS GROUP DECISION-MAKING ENVIRONMENT. *Cybernetics and Systems*, **2005**, 36, 309-338	1.9	16
163	Autocratic Decision Making Using Group Recommendations Based on Intervals of Linguistic Terms and Likelihood-Based Comparison Relations. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2015**, 45, 250-259	7.3	15
162	Weighted fuzzy interpolative reasoning for sparse fuzzy rule-based systems. *Expert Systems With Applications*, **2011**, 38, 9564-9572	7.8	15
161	A KNOWLEDGE-BASED METHOD FOR FUZZY QUERY PROCESSING FOR DOCUMENT RETRIEVAL. *Cybernetics and Systems*, **1997**, 28, 99-119	1.9	15
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155	Adaptive weighted fuzzy interpolative reasoning based on representative values and similarity measures of interval type-2 fuzzy sets. *Information Sciences*, **2019**, 478, 167-185	7.7	14
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