Bao Qing Hu

List of Publications by Year
in descending order

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95 papers	2,883 citations	126907 33 h-index	189892 50 g-index
96 all docs	96 docs citations	96 times ranked	812 citing authors

#	Article	IF	Citations
1	Three-way decisions space and three-way decisions. Information Sciences, 2014, 281, 21-52.	6.9	205
2	On some types of fuzzy covering-based rough sets. Fuzzy Sets and Systems, 2017, 312, 36-65.	2.7	142
3	Topological and lattice structures of -fuzzy rough sets determined by lower and upper sets. Information Sciences, 2013, 218, 194-204.	6.9	94
4	A fuzzy covering-based rough set model and its generalization over fuzzy lattice. Information Sciences, 2016, 367-368, 463-486.	6.9	94
5	On interval additive generators of interval overlap functions and interval grouping functions. Fuzzy Sets and Systems, 2017, 323, 19-55.	2.7	87
6	Three-way decision spaces based on partially ordered sets and three-way decisions based on hesitant fuzzy sets. Knowledge-Based Systems, 2016, 91, 16-31.	7.1	76
7	A novel approach in uncertain programming part I: new arithmetic and order relation for interval numbers. Journal of Industrial and Management Optimization, 2006, 2, 351-371.	1.3	76
8	Dominance-based rough set approach to incomplete ordered information systems. Information Sciences, 2016, 346-347, 106-129.	6.9	74
9	Fuzzy neighborhood operators and derived fuzzy coverings. Fuzzy Sets and Systems, 2019, 370, 1-33.	2.7	70
10	A new approach of optimal scale selection to multi-scale decision tables. Information Sciences, 2017, 381, 193-208.	6.9	68
11	On multiplicative generators of overlap and grouping functions. Fuzzy Sets and Systems, 2018, 332, 1-24.	2.7	67
12	On type-2 fuzzy relations and interval-valued type-2 fuzzy sets. Fuzzy Sets and Systems, 2014, 236, 1-32.	2.7	66
13	Fuzzy probabilistic rough sets and their corresponding three-way decisions. Knowledge-Based Systems, 2016, 91, 126-142.	7.1	64
14	On type-2 fuzzy sets and their t-norm operations. Information Sciences, 2014, 255, 58-81.	6.9	60
15	Stepwise optimal scale selection for multi-scale decision tables via attribute significance. Knowledge-Based Systems, 2017, 129, 4-16.	7.1	59
16	Three-way decisions with decision-theoretic rough sets in multiset-valued information tables. Information Sciences, 2020, 507, 684-699.	6.9	59
17	Granular variable precision fuzzy rough sets with general fuzzy relations. Fuzzy Sets and Systems, 2015, 275, 39-57.	2.7	58
18	Fuzzy and interval-valued fuzzy decision-theoretic rough set approaches based on fuzzy probability measure. Information Sciences, 2015, 298, 534-554.	6.9	55

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19	A novel three-way group investment decision model under intuitionistic fuzzy multi-attribute group decision-making environment. Information Sciences, 2021, 569, 557-581.	6.9	54
20	Approximate distribution reducts in inconsistent interval-valued ordered decision tables. Information Sciences, 2014, 271, 93-114.	6.9	49
21	Attribute reduction in ordered decision tables via evidence theory. Information Sciences, 2016, 364-365, 91-110.	6.9	47
22	On two novel types of three-way decisions in three-way decision spaces. International Journal of Approximate Reasoning, 2017, 82, 285-306.	3.3	46
23	The distributive laws of fuzzy implications over overlap and grouping functions. Information Sciences, 2018, 438, 107-126.	6.9	46
24	On generalized migrativity property for overlap functions. Fuzzy Sets and Systems, 2019, 357, 91-116.	2.7	45
25	On the migrativity of uninorms and nullnorms over overlap and grouping functions. Fuzzy Sets and Systems, 2018, 346, 1-54.	2.7	44
26	Fuzzy rough sets based on generalized residuated lattices. Information Sciences, 2013, 248, 31-49.	6.9	43
27	A decision-theoretic fuzzy rough set in hesitant fuzzy information systems and its application in multi-attribute decision-making. Information Sciences, 2021, 579, 103-127.	6.9	43
28	Optimal scale selection and attribute reduction in multi-scale decision tables based on three-way decision. Information Sciences, 2020, 541, 36-59.	6.9	42
29	Dominance-based rough fuzzy set approach and its application to rule induction. European Journal of Operational Research, 2017, 261, 690-703.	5.7	41
30	Aggregation distance measure and its induced similarity measure between intuitionistic fuzzy sets. Pattern Recognition Letters, 2015, 60-61, 65-71.	4.2	36
31	On homogeneous, quasi-homogeneous and pseudo-homogeneous overlap and grouping functions. Fuzzy Sets and Systems, 2019, 357, 58-90.	2.7	36
32	Three-way decisions based on semi-three-way decision spaces. Information Sciences, 2017, 382-383, 415-440.	6.9	33
33	A fast heuristic attribute reduction approach to ordered decision systems. European Journal of Operational Research, 2018, 264, 440-452.	5.7	33
34	On the Distributive Laws of Fuzzy Implication Functions Over Additively Generated Overlap and Grouping Functions. IEEE Transactions on Fuzzy Systems, 2018, 26, 2421-2433.	9.8	32
35	Application of improved extension evaluation method to water quality evaluation. Journal of Hydrology, 2014, 509, 539-548.	5.4	30
36	On (âŠ™,&)-fuzzy rough sets based on residuated and co-residuated lattices. Fuzzy Sets and Systems, 2018, 336, 54-86.	2.7	30

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37	A new structure for uninorms on bounded lattices. Fuzzy Sets and Systems, 2020, 386, 77-94.	2.7	29
38	The aggregation of multiple three-way decision spaces. Knowledge-Based Systems, 2016, 98, 241-249.	7.1	28
39	On interval <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mo stretchy="false">(</mml:mo><mml:mi>	3.3	28
40	Granular fuzzy rough sets based on fuzzy implicators and coimplicators. Fuzzy Sets and Systems, 2019, 359, 112-139.	2.7	28
41	New constructions of uninorms on bounded lattices. International Journal of Approximate Reasoning, 2019, 110, 185-209.	3.3	26
42	A novel method to attribute reduction based on weighted neighborhood probabilistic rough sets. International Journal of Approximate Reasoning, 2022, 144, 1-17.	3.3	23
43	Communication between fuzzy information systems using fuzzy covering-based rough sets. International Journal of Approximate Reasoning, 2018, 103, 414-436.	3.3	22
44	Characterizations and new subclasses of -filters in residuated lattices. Fuzzy Sets and Systems, 2014, 247, 92-107.	2.7	21
45	Fuzzy variable precision rough sets based on residuated lattices. International Journal of General Systems, 2015, 44, 743-765.	2.5	21
46	Generalized interval-valued fuzzy variable precision rough sets determined by fuzzy logical operators. International Journal of General Systems, 2015, 44, 849-875.	2.5	21
47	Matrix representations and interdependency on L-fuzzy covering-based approximation operators. International Journal of Approximate Reasoning, 2018, 96, 57-77.	3.3	21
48	Granular variable precision L -fuzzy rough sets based on residuated lattices. Fuzzy Sets and Systems, 2018, 336, 148-166.	2.7	21
49	A novel approach in uncertain programming part II: a class of constrained nonlinear programming problems with interval objective functions. Journal of Industrial and Management Optimization, 2006, 2, 373-385.	1.3	21
50	A short note on L-fuzzy approximation spaces and L-fuzzy pretopological spaces. Fuzzy Sets and Systems, 2017, 312, 126-134.	2.7	19
51	Feature Selection using Fuzzy Support Vector Machines. Fuzzy Optimization and Decision Making, 2006, 5, 187-192.	5.5	18
52	Probabilistic graded rough set and double relative quantitative decision-theoretic rough set. International Journal of Approximate Reasoning, 2016, 74, 1-12.	3.3	18
53	On transformations from semi-three-way decision spaces to three-way decision spaces based on triangular norms and triangular conorms. Information Sciences, 2018, 432, 22-51.	6.9	18
54	New construction of t-norms and t-conorms on bounded lattices. Fuzzy Sets and Systems, 2020, 395, 40-70.	2.7	17

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55	On decision evaluation functions in generalized three-way decision spaces. Information Sciences, 2020, 507, 733-754.	6.9	16
56	On relationship between three-way concept lattices. Information Sciences, 2020, 538, 396-414.	6.9	16
57	Detecting the community structure in complex networks based on quantum mechanics. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6215-6224.	2.6	15
58	Semi-t-operators on bounded lattices. Information Sciences, 2019, 490, 191-209.	6.9	15
59	Constructing overlap and grouping functions on complete lattices by means of complete homomorphisms. Fuzzy Sets and Systems, 2022, 427, 71-95.	2.7	15
60	On (O,G)-fuzzy rough sets based on overlap and grouping functions over complete lattices. International Journal of Approximate Reasoning, 2022, 144, 18-50.	3.3	15
61	Generalized extended fuzzy implications. Fuzzy Sets and Systems, 2015, 268, 93-109.	2.7	13
62	On fuzzy-valued operations and fuzzy-valued fuzzy sets. Fuzzy Sets and Systems, 2015, 268, 72-92.	2.7	12
63	On ordinal sums of overlap and grouping functions on complete lattices. Fuzzy Sets and Systems, 2021, , .	2.7	12
64	Rough sets based on complete completely distributive lattice. Information Sciences, 2014, 269, 378-387.	6.9	11
65	On interval <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:msub><mml:mrow><mml:mi>R</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="double-struck">O</mml:mi></mml:mrow></mml:msub></mml:math>- and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:mo		

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73	$(ot ,,op)$ -Generalized Fuzzy Rough Sets Based on Fuzzy Composition Operations. Advances in Soft Computing, 2009, , 647-659.	0.4	7
74	On interval-valued pre-(quasi-)overlap functions. Information Sciences, 2022, 606, 945-967.	6.9	7
75	A note on the lattice structure for subalgebras of the algebra of truth values of type-2 fuzzy sets. Fuzzy Sets and Systems, 2020, 382, 158-164.	2.7	6
76	On the ordinal sum of fuzzy implications: New results and the distributivity over a class of overlap and grouping functions. Fuzzy Sets and Systems, 2021, , .	2.7	6
77	New extended patterns of fuzzy rough set models on two universes. International Journal of General Systems, 2014, 43, 570-585.	2.5	5
78	Hesitant sets and hesitant relations. Journal of Intelligent and Fuzzy Systems, 2017, 33, 3629-3640.	1.4	5
79	Note on â€œOn the extension of nullnorms and uninorms to fuzzy truth valuesâ€•[Fuzzy Sets Syst. 352 (2018) 92-118]. Fuzzy Sets and Systems, 2020, 395, 178-196.	2.7	5
80	Equivalent Structures of Interval Sets and Fuzzy Interval Sets. International Journal of Intelligent Systems, 2018, 33, 68-92.	5.7	4
81	Nullnorms on bounded lattices constructed by means of closure and interior operators. Fuzzy Sets and Systems, 2022, 439, 142-156.	2.7	4
82	A novel Z-soft rough fuzzy $$extit{BCI}$$ BCI -algebras (ideals) of $$extit{BCI}$$ BCI -algebras. Soft Computing, 2018, 22, 3649-3662.	3.6	3
83	Fuzzy Integral on Credibility Measure. Fuzzy Information and Engineering, 2010, 2, 389-397.	1.7	2
84	FUZZY EQ-FILTERS OF EQ-ALGEBRAS. , 2012, , .		2
85	A new approach on covering fuzzy variableÂprecision rough sets based onÂresiduated lattice. Journal of Intelligent and Fuzzy Systems, 2017, 33, 3181-3190.	1.4	2
86	General L-fuzzy aggregation functions based on complete residuated lattices. Soft Computing, 2020, 24, 3087-3112.	3.6	2
87	The Idempotency of Convolution Operations on Fuzzy Truth Values. IEEE Transactions on Fuzzy Systems, 2022, 30, 990-998.	9.8	2
88	L -fuzzy multigranulation rough set based on residuated lattices. Journal of Intelligent and Fuzzy Systems, 2016, 30, 2821-2831.	1.4	1
89	Some results on the degree of symmetry of fuzzy relations. Fuzzy Sets and Systems, 2019, 360, 1-32.	2.7	1
90	Addendum to â€œOn the migrativity of uninorms and nullnorms over overlap and grouping functionsâ€• [Fuzzy Sets Syst. 346 (2018) 1â€“54]. Fuzzy Sets and Systems, 2020, 386, 48-59.	2.7	1

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91	Pre-(quasi-)overlap functions on bounded posets. Fuzzy Sets and Systems, 2022, 451, 157-175.	2.7	1
92	Tracking Control Synchronization and Adaptive Feedback Synchronization of Unified Chaotic Systems. , 2012, , .		0
93	EQ-algebras from the point of view of generalized algebras with fuzzy equalities. Fuzzy Sets and Systems, 2014, 236, 104-112.	2.7	0
94	Generation of partial orders for intervals by means of the slope function. Fuzzy Sets and Systems, 2015, 266, 67-83.	2.7	0
95	Note on â€œA rough set approach to the characterization of transversal matroidsâ€•[Int. J. Approx. Reason. 70 (2016) 1â€“12]. International Journal of Approximate Reasoning, 2017, 80, 214-216.	3.3	0