Runtong Zhang

List of Publications by Year
in descending order

118 papers	1,680 citations	361045 20 h-index	360668 35 g-index
121 all docs	121 docs citations	121 times ranked	1013 citing authors

#	ARTICLE	IF	CITATIONS
1	Some q-rung orthopair fuzzy point weighted aggregation operators for multi-attribute decision making. Soft Computing, 2019, 23, 11627-11649.	2.1	98
2	A Novel Approach to Multi-Attribute Group Decision-Making with q-Rung Picture Linguistic Information. Symmetry, 2018, 10, 172.	1.1	90
3	Relationship Between Internet Health Information and Patient Compliance Based on Trust: Empirical Study. Journal of Medical Internet Research, 2018, 20, e253.	2.1	77
4	Some Partitioned Maclaurin Symmetric Mean Based on q-Rung Orthopair Fuzzy Information for Dealing with Multi-Attribute Group Decision Making. Symmetry, 2018, 10, 383.	1.1	67
5	Some q-rung orthopair fuzzy Muirhead means with their application to multi-attribute group decision making. Journal of Intelligent and Fuzzy Systems, 2019, 36, 1599-1614.	0.8	66
6	Some Generalized Pythagorean Fuzzy Bonferroni Mean Aggregation Operators with Their Application to Multiattribute Group Decision-Making. Complexity, 2017, 2017, 1-16.	0.9	62
7	Impact of Physician-Patient Communication in Online Health Communities on Patient Compliance: Cross-Sectional Questionnaire Study. Journal of Medical Internet Research, 2019, 21, e12891.	2.1	62
8	Some Picture Fuzzy Dombi Heronian Mean Operators with Their Application to Multi-Attribute Decision-Making. Symmetry, 2018, 10, 593.	1.1	56
9	Some new Pythagorean fuzzy Choquet-Frank aggregation operators for multi-attribute decision making. International Journal of Intelligent Systems, 2018, 33, 2189-2215.	3.3	51
10	Pythagorean fuzzy power Muirhead mean operators with their application to multi-attribute decision making. Journal of Intelligent and Fuzzy Systems, 2018, 35, 2035-2050.	0.8	50
11	A new multi-criteria group decision-making approach based on q-rung orthopair fuzzy interaction Hamy mean operators. Neural Computing and Applications, 2020, 32, 7465-7488.	3.2	49
12	A hierarchical method to automatically encode Chinese diagnoses through semantic similarity estimation. BMC Medical Informatics and Decision Making, 2016, 16, 30.	1.5	39
13	CYFRA21-1 tests in the diagnosis of non-small cell lung cancer: A meta-analysis. International Journal of Biological Markers, 2019, 34, 251-261.	0.7	36
14	Speed Profile Tracking by an Adaptive Controller for Subway Train Based on Neural Network and PID Algorithm. IEEE Transactions on Vehicular Technology, 2020, 69, 10656-10667.	3.9	31
15	Factors Influencing Continued Usage Behavior on Mobile Health Applications. Healthcare (Switzerland), 2022, 10, 208.	1.0	31
16	Some q-Rung Picture Fuzzy Dombi Hamy Mean Operators with Their Application to Project Assessment. Mathematics, 2019, 7, 468.	1.1	30
17	Some Interval-Valued q-Rung Dual Hesitant Fuzzy Muirhead Mean Operators With Their Application to Multi-Attribute Decision-Making. IEEE Access, 2019, 7, 54724-54745.	2.6	30
18	Internet of Things (IoT) Service Architecture and its Application in E-Commerce. Journal of Electronic Commerce in Organizations, 2012, 10, 44-55.	0.6	27

#	ARTICLE	IF	CITATIONS
19	A method to multi-attribute decision making with picture fuzzy information based on Muirhead mean. Journal of Intelligent and Fuzzy Systems, 2019, 36, 3833-3849.	0.8	26
20	Impact of Personal Trust Tendency on Patient Compliance Based on Internet Health Information Seeking. Telemedicine Journal and E-Health, 2020, 26, 294-303.	1.6	26
21	Association Between eHealth Literacy in Online Health Communities and Patient Adherence: Cross-sectional Questionnaire Study. Journal of Medical Internet Research, 2021, 23, e14908.	2.1	24
22	Design theory, modelling and the application for the Internet of Things service. Enterprise Information Systems, 2016, 10, 249-267.	3.3	23
23	q-Rung orthopair fuzzy uncertain linguistic choquet integral operators and their application to multi-attribute decision making. Journal of Intelligent and Fuzzy Systems, 2019, 37, 1123-1139.	0.8	22
24	An Empirical Study on Patients' Acceptance of Physician-Patient Interaction in Online Health Communities. International Journal of Environmental Research and Public Health, 2019, 16, 5084.	1.2	22
25	A novel approach to multi-attribute group decision making based on q-rung orthopair uncertain linguistic information. Journal of Intelligent and Fuzzy Systems, 2019, 36, 5565-5581.	0.8	21
26	An Improved Identity Authentication Scheme for Internet of Things in Heterogeneous Networking Environments. , 2013, , .		20
27	Big Data-Driven Abnormal Behavior Detection in Healthcare Based on Association Rules. IEEE Access, 2020, 8, 129002-129011.	2.6	20
28	Impact of patient information behaviours in online health communities on patient compliance and the mediating role of patients' perceived empathy. Patient Education and Counseling, 2021, 104, 186-193.	1.0	19
29	Broad Learning Based Dynamic Fuzzy Inference System With Adaptive Structure and Interpretable Fuzzy Rules. IEEE Transactions on Fuzzy Systems, 2022, 30, 3270-3283.	6.5	19
30	Integrated Optimal Design of Speed Profile and Fuzzy PID Controller for Train With Multifactor Consideration. IEEE Access, 2020, 8, 152146-152160.	2.6	18
31	Solving the stability–accuracy–diversity dilemma of recommender systems. Physica A: Statistical Mechanics and Its Applications, 2017, 468, 415-424.	1.2	17
32	Analysis for warning factors of type 2 diabetes mellitus complications with Markov blanket based on a Bayesian network model. Computer Methods and Programs in Biomedicine, 2020, 188, 105302.	2.6	17
33	Pythagorean fuzzy interaction power partitioned Bonferroni means with applications to multi-attribute group decision making. Journal of Intelligent and Fuzzy Systems, 2019, 36, 3423-3438.	0.8	16
34	Generalized point aggregation operators for dual hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 33, 515-527.	0.8	14
35	Fulfilling information needs of patients in online health communities. Health Information and Libraries Journal, 2020, 37, 48-59.	1.3	14
36	Power partitioned Heronian mean operators for q –rung orthopair uncertain linguistic sets with their application to multiattribute group decision making. International Journal of Intelligent Systems, 2020, 35, 3-37.	3.3	14

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37	q-Rung orthopair fuzzy TOPSIS method and the application to information service quality evaluation in online health community. Journal of Intelligent and Fuzzy Systems, 2021, 41, 3697-3714.	0.8	14
38	Factors affecting physicians using mobile health applications: an empirical study. BMC Health Services Research, 2022, 22, 24.	0.9	14
39	Fuzzy service control of queueing systems. IEEE Transactions on Systems, Man, and Cybernetics, 1999, 29, 503-517.	5.5	12
40	A fuzzy approach to the balance of drop and delay priorities in differentiated services networks. IEEE Transactions on Fuzzy Systems, 2003, 11, 840-846.	6.5	12
41	Knowledge Discovery from Posts in Online Health Communities Using Unified Medical Language System. International Journal of Environmental Research and Public Health, 2018, 15, 1291.	1.2	12
42	Some Hesitant Fuzzy Linguistic Muirhead Means with Their Application to Multiattribute Group Decision-Making. Complexity, 2018, 2018, 1-16.	0.9	12
43	A Bibliometric Analysis of the Development of ICD-11 in Medical Informatics. Journal of Healthcare Engineering, 2019, 2019, 1-12.	1.1	12
44	A Novel Multiattribute Decision-Making Method Based on Point–Choquet Aggregation Operators and Its Application in Supporting the Hierarchical Medical Treatment System in China. International Journal of Environmental Research and Public Health, 2018, 15, 1718.	1.2	11
45	Mature or Emerging? The Impact of Treatment-Related Internet Health Information Seeking on Patients' Trust in Physicians. International Journal of Environmental Research and Public Health, 2018, 15, 1855.	1.2	11
46	Some spherical linguistic Muirhead mean operators with their application to multi-attribute decision making. Journal of Intelligent and Fuzzy Systems, 2019, 37, 8097-8111.	0.8	11
47	A Novel Multi-Attribute Group Decision-Making Method and Its Application in Solving the Downward Referral Problem in the Hierarchical Medical Treatment System in China. IEEE Access, 2019, 7, 185205-185227.	2.6	11
48	The Impact of Treatment-Related Internet Health Information Seeking on Patient Compliance. Telemedicine Journal and E-Health, 2021, 27, 513-524.	1.6	11
49	Probabilistic Dual-Hesitant Pythagorean Fuzzy Sets and Their Application in Multi-attribute Group Decision-Making. Cognitive Computation, 2021, 13, 919-935.	3.6	11
50	Admission control and scheduling in simple series parallel networks using fuzzy logic. IEEE Transactions on Fuzzy Systems, 2001, 9, 307-314.	6.5	10
51	Why do patients follow physicians' advice? The influence of patients' regulatory focus on adherence: an empirical study in China. BMC Health Services Research, 2019, 19, 301.	0.9	10
52	Automatic Train Operation Speed Profile Optimization and Tracking with Multi-Objective in Urban Railway. Periodica Polytechnica Transportation Engineering, 2019, 48, 57-64.	0.7	10
53	Exploring the Effects of Patient Activation in Online Health Communities on Patient Compliance. Telemedicine Journal and E-Health, 2020, 26, 1373-1382.	1.6	10
54	Multiobjective Optimization on the Operation Speed Profile Design of an Urban Railway Train With a Hybrid Running Strategy. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 230-243.	2.6	10

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55	A novel multicriteria decision–making approach with unknown weight information under <i>q</i> rung orthopair fuzzy environment. International Journal of Intelligent Systems, 2021, 36, 7309-7339.	3.3	10
56	Performance and Safety Assessment of ATO Systems in Urban Rail Transit Systems in China. Journal of Transportation Engineering, 2013, 139, 728-737.	0.9	9
57	Impact of Prioritization on the Outpatient Queuing System in the Emergency Department with Limited Medical Resources. Symmetry, 2019, 11, 796.	1.1	9
58	A Text Structuring Method for Chinese Medical Text Based on Temporal Information. International Journal of Environmental Research and Public Health, 2018, 15, 402.	1.2	8
59	Leveraging Semantics in WordNet to Facilitate the Computer-Assisted Coding of ICD-11. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1469-1476.	3.9	7
60	New controllable processing time scheduling with subcontracting strategy for no-wait job shop problem. International Journal of Production Research, 2022, 60, 2254-2274.	4.9	7
61	Enhancing Online Patient Support through Health-Care Knowledge in Online Health Communities: A Descriptive Study. Information (Switzerland), 2018, 9, 199.	1.7	6
62	Linguistic Reasoning Petri Nets Using q-Rung Orthopair Fuzzy Linguistic Sets and Weighted Ordered Weighted Averaging Operators. IEEE Access, 2019, 7, 103167-103183.	2.6	6
63	An inter-PAN mobility support scheme for IP-based wireless sensor networks and its applications. Information Technology and Management, 2013, 14, 183-192.	1.4	5
64	An Iterated Hybrid Local Search Algorithm for Pick-and-Place Sequence Optimization. Symmetry, 2018, 10, 633.	1.1	5
65	Using PCA to Improve the Detection of Medical Insurance Fraud in SOFM Neural Networks. , 2019, , .		5
66	Is the Internet Different from Traditional Mass Media in Promoting Patient Compliance with Mature Treatments?. Telemedicine Journal and E-Health, 2020, 26, 69-77.	1.6	5
67	A branch–and–price approach to the multitasking scheduling with batch control on parallel machines. International Transactions in Operational Research, 2022, 29, 3464-3485.	1.8	5
68	Pythagorean fuzzy Bonferroni mean operators with their application to supply chain management. , 2017, , .		4
69	Leveraging Shannon Entropy to Validate the Transition between ICD-10 and ICD-11. Entropy, 2018, 20, 769.	1.1	4
70	Multi-phase and Integrated Multi-objective Cyclic Operating Room Scheduling Based on an Improved NSGA-â…¡Approach. Symmetry, 2019, 11, 599.	1.1	4
71	Hospital Bed Planning in a Single Department Based on Monte Carlo Simulation and Queuing Theory. , 2019, , .		4
72	Noninvasive MapReduce Performance Tuning Using Multiple Tuning Methods on Hadoop. IEEE Systems Journal, 2021, 15, 2906-2917.	2.9	4

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73	Impact of Physicians' Competence and Warmth on Chronic Patients' Intention to Use Online Health Communities. Healthcare (Switzerland), 2021, 9, 957.	1.0	4
74	An Open Source Project for Tuning and Analyzing MapReduce Performance in Hadoop and Spark. IEEE Software, 2022, 39, 61-69.	2.1	4
75	Service Encapsulation-Based Model for Smart Campus. Journal of Electronic Commerce in Organizations, 2012, 10, 31-41.	0.6	3
76	A Medical Diagnosis Method Based on Interval-valued Fuzzy Cognitive Map. , 2017, , .		3
77	A Novel Method for Mining Abnormal Behaviors in Social Medical Insurance. , 2018, , .		3
78	Some q-Rung Orthopair Fuzzy Dual Maclaurin Symmetric Mean Operators with Their Application to Multiple Criteria Decision Making. Communications in Computer and Information Science, 2018, , 252-266.	0.4	3
79	Evaluation of healthcare system efficiency based on DEA algorithm. Journal of Discrete Mathematical Sciences and Cryptography, 2018, 21, 937-946.	0.5	3
80	Some q-Rung Orthopair Fuzzy Hamy Mean Aggregation Operators with Their Application. , 2019, , .		3
81	Medical service unity: an effective approach for medical care in rural areas in China. Rural and Remote Health, 2018, 18, 4483.	0.4	3
82	An Intelligent Resource Management Solution for Hospital Information System Based on Cloud Computing Platform. IEEE Transactions on Reliability, 2023, 72, 329-342.	3.5	3
83	A New Frame of Knowledge Discovery. , 2008, , .		2
84	SXML, an Enhancement of XML Documents in Mobile Learning. , 2009, , .		2
85	Privacy preserving for patients' information: A knowledge-constrained access control model for hospital information systems. , 2016, , .		2
86	Analysis and Optimization of Bottlenecks via Simulation. , 2018, , .		2
87	Utilizing Narrative Text from Electronic Health Records for Early Warning Model of Chronic Disease. , 2018, , .		2
88	The Impact of Individuals' Attitudes Toward Health Websites on Their Perceived Quality of Health Information: An Empirical Study. Telemedicine Journal and E-Health, 2019, 25, 1099-1107.	1.6	2
89	Process ontology technology in modeling clinical pathway information system. International Journal of Computers and Applications, 2020, 42, 550-557.	0.8	2
90	A q-rung orthopair fuzzy multiple attribute group decision making method based on generalized Maclaurin symmetry mean and Dombi t-norm and t-conorm. Journal of Physics: Conference Series, 2021, 1861, 012033.	0.3	2

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91	An integrated approach for service quality evaluation of online health communities based on q-rung orthopair fuzzy linguistic aggregation operators. Journal of Intelligent and Fuzzy Systems, 2022, 42, 1907-1924.	0.8	2
92	A Recommendation Model for Medical Data Visualization Based on Information Entropy and Decision Tree Optimized by Two Correlation Coefficients. , 2019, , .		2
93	Congestion Control Using Fuzzy Logic in QoS Networks. , 2006, , .		1
94	Study on knowledge sharing mechanism of supply chain based on dynamic capabilities. , 2008, , .		1
95	Mobile services modeling and assurance. , 2009, , .		1
96	An Integration Technology for Socially Aware Mobile Applications in Heterogeneous Networking Environments. , 2012, , .		1
97	ECIS, an Energy Conservation and Interconnection Scheme between WSN and Internet Based on the 6LoWPAN. , 2013, , .		1
98	An Improved Database Inspection System for E-commerce Companies Based on Web Data Mining. , 2013, , .		1
99	Choquet-based multi-criteria decision making with objective and subjective information. Journal of Intelligent and Fuzzy Systems, 2016, 30, 773-781.	0.8	1
100	How does Health Website Influence Patient Compliance. , 2018, , .		1
101	Optimal Design of Automatic Train Operation Information with the Consideration of Regenerative Braking. , 2019, , .		1
102	A Novel Method for Mining Abnormal Expenses in Social Medical Insurance. , 2020, , .		1
103	A Framework for Diagnosing Urban Rail Train Turn-Back Faults Based on Rules and Algorithms. Applied Sciences (Switzerland), 2021, 11, 3347.	1.3	1
104	Approach of Protecting IHE-XDS-I oriented Medical Image Information. , 2021, , .		1
105	A meta-analysis of ABCG2 gene polymorphism and non-small cell lung cancer outcomes. Genetics and Molecular Biology, 2019, 42, e20180234.	0.6	1
106	Fuzzy admission control and scheduling of production systems. , 0, , .		0
107	Management of Stochastic Portfolio using Improved Genetic Algorithm. , 2006, , .		0
108	Factor Interaction and Evaluation of the Enterprise Niche Based on Mutation. , 2008, , .		0

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109	An improved mobile E-commerce identity authentication mechanismÂ¿IEIA and its simulation. , 2008, , .		0
110	An analysis of modeling and evolution of ecosystem of Cyber-society based on system dynamics. , 2008, , .		0
111	Integrating management control with strategic decision in MCS and IS. , 2008, , .		0
112	Research on the Safety Assessment of Identity Authentication in Mobile-Commerce System Based on Hierarchical Analysis Method. , 2010, , .		0
113	An Energy Efficient Sensor Data Convergence Model Adaptable for Cold Chain Monitoring. , 2014, , .		0
114	Research on the impact of foreign capital on China's retail industry security. , 2015, , .		0
115	Research on surgical process based on Markov chain model within operating rooms. , 2017, , .		0
116	A Retrieval Method for Chinese EMR Based on Semantic Knowledge Map. Journal of Physics: Conference Series, 2021, 1861, 012036.	0.3	0
117	Patients' Acceptance of Information Published by Physicians in Online Health Communities. , 2019, , .		0
118	MapReduce-Based Dynamic Partition Join with Shannon Entropy for Data Skewness. Scientific Programming, 2021, 2021, 1-15.	0.5	0