

# Runtong Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	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
4	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
5	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
6	An Open Source Project for Tuning and Analyzing MapReduce Performance in Hadoop and Spark. IEEE Software, 2022, 39, 61-69.	2.1	4
7	Factors affecting physicians using mobile health applications: an empirical study. BMC Health Services Research, 2022, 22, 24.	0.9	14
8	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
9	Factors Influencing Continued Usage Behavior on Mobile Health Applications. Healthcare (Switzerland), 2022, 10, 208.	1.0	31
10	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
11	Noninvasive MapReduce Performance Tuning Using Multiple Tuning Methods on Hadoop. IEEE Systems Journal, 2021, 15, 2906-2917.	2.9	4
12	The Impact of Treatment-Related Internet Health Information Seeking on Patient Compliance. Telemedicine Journal and E-Health, 2021, 27, 513-524.	1.6	11
13	A Retrieval Method for Chinese EMR Based on Semantic Knowledge Map. Journal of Physics: Conference Series, 2021, 1861, 012036.	0.3	0
14	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
15	A Framework for Diagnosing Urban Rail Train Turn-Back Faults Based on Rules and Algorithms. Applied Sciences (Switzerland), 2021, 11, 3347.	1.3	1
16	Probabilistic Dual-Hesitant Pythagorean Fuzzy Sets and Their Application in Multi-attribute Group Decision-Making. Cognitive Computation, 2021, 13, 919-935.	3.6	11
17	Approach of Protecting IHE-XDS-I oriented Medical Image Information. , 2021, , .		1
18	Impact of Physicians' Competence and Warmth on Chronic Patients' Intention to Use Online Health Communities. Healthcare (Switzerland), 2021, 9, 957.	1.0	4

#	ARTICLE	IF	CITATIONS
19	A novel multicriteria decision-making approach with unknown weight information under $q$ -rung orthopair fuzzy environment. <i>International Journal of Intelligent Systems</i> , 2021, 36, 7309-7339.	3.3	10
20	Association Between eHealth Literacy in Online Health Communities and Patient Adherence: Cross-sectional Questionnaire Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e14908.	2.1	24
21	$q$ -Rung orthopair fuzzy TOPSIS method and the application to information service quality evaluation in online health community. <i>Journal of Intelligent and Fuzzy Systems</i> , 2021, 41, 3697-3714.	0.8	14
22	MapReduce-Based Dynamic Partition Join with Shannon Entropy for Data Skewness. <i>Scientific Programming</i> , 2021, 2021, 1-15.	0.5	0
23	Is the Internet Different from Traditional Mass Media in Promoting Patient Compliance with Mature Treatments?. <i>Telemedicine Journal and E-Health</i> , 2020, 26, 69-77.	1.6	5
24	Fulfilling information needs of patients in online health communities. <i>Health Information and Libraries Journal</i> , 2020, 37, 48-59.	1.3	14
25	A new multi-criteria group decision-making approach based on $q$ -rung orthopair fuzzy interaction Hamy mean operators. <i>Neural Computing and Applications</i> , 2020, 32, 7465-7488.	3.2	49
26	Impact of Personal Trust Tendency on Patient Compliance Based on Internet Health Information Seeking. <i>Telemedicine Journal and E-Health</i> , 2020, 26, 294-303.	1.6	26
27	Process ontology technology in modeling clinical pathway information system. <i>International Journal of Computers and Applications</i> , 2020, 42, 550-557.	0.8	2
28	Power partitioned Heronian mean operators for $q$ -rung orthopair uncertain linguistic sets with their application to multiattribute group decision making. <i>International Journal of Intelligent Systems</i> , 2020, 35, 3-37.	3.3	14
29	Analysis for warning factors of type 2 diabetes mellitus complications with Markov blanket based on a Bayesian network model. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 188, 105302.	2.6	17
30	Leveraging Semantics in WordNet to Facilitate the Computer-Assisted Coding of ICD-11. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 1469-1476.	3.9	7
31	Big Data-Driven Abnormal Behavior Detection in Healthcare Based on Association Rules. <i>IEEE Access</i> , 2020, 8, 129002-129011.	2.6	20
32	Speed Profile Tracking by an Adaptive Controller for Subway Train Based on Neural Network and PID Algorithm. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 10656-10667.	3.9	31
33	Integrated Optimal Design of Speed Profile and Fuzzy PID Controller for Train With Multifactor Consideration. <i>IEEE Access</i> , 2020, 8, 152146-152160.	2.6	18
34	A Novel Method for Mining Abnormal Expenses in Social Medical Insurance. , 2020, , .		1
35	Exploring the Effects of Patient Activation in Online Health Communities on Patient Compliance. <i>Telemedicine Journal and E-Health</i> , 2020, 26, 1373-1382.	1.6	10
36	CYFRA21-1 tests in the diagnosis of non-small cell lung cancer: A meta-analysis. <i>International Journal of Biological Markers</i> , 2019, 34, 251-261.	0.7	36

#	ARTICLE	IF	CITATIONS
37	Linguistic Reasoning Petri Nets Using q-Rung Orthopair Fuzzy Linguistic Sets and Weighted Ordered Weighted Averaging Operators. <i>IEEE Access</i> , 2019, 7, 103167-103183.	2.6	6
38	Impact of Prioritization on the Outpatient Queuing System in the Emergency Department with Limited Medical Resources. <i>Symmetry</i> , 2019, 11, 796.	1.1	9
39	Using PCA to Improve the Detection of Medical Insurance Fraud in SOFM Neural Networks. , 2019, , .		5
40	q-Rung orthopair fuzzy uncertain linguistic choquet integral operators and their application to multi-attribute decision making. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 37, 1123-1139.	0.8	22
41	Optimal Design of Automatic Train Operation Information with the Consideration of Regenerative Braking. , 2019, , .		1
42	Some spherical linguistic Muirhead mean operators with their application to multi-attribute decision making. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 37, 8097-8111.	0.8	11
43	A novel approach to multi-attribute group decision making based on q-rung orthopair uncertain linguistic information. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 5565-5581.	0.8	21
44	Some q-Rung Picture Fuzzy Dombi Hamy Mean Operators with Their Application to Project Assessment. <i>Mathematics</i> , 2019, 7, 468.	1.1	30
45	Multi-phase and Integrated Multi-objective Cyclic Operating Room Scheduling Based on an Improved NSGA-â€¦ Approach. <i>Symmetry</i> , 2019, 11, 599.	1.1	4
46	Why do patients follow physiciansâ€™ advice? The influence of patientsâ€™ regulatory focus on adherence: an empirical study in China. <i>BMC Health Services Research</i> , 2019, 19, 301.	0.9	10
47	Some Interval-Valued q-Rung Dual Hesitant Fuzzy Muirhead Mean Operators With Their Application to Multi-Attribute Decision-Making. <i>IEEE Access</i> , 2019, 7, 54724-54745.	2.6	30
48	Some q-rung orthopair fuzzy Muirhead means with their application to multi-attribute group decision making. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 1599-1614.	0.8	66
49	Pythagorean fuzzy interaction power partitioned Bonferroni means with applications to multi-attribute group decision making. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 36, 3423-3438.	0.8	16
50	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. <i>IEEE Access</i> , 2019, 7, 185205-185227.	2.6	11
51	Automatic Train Operation Speed Profile Optimization and Tracking with Multi-Objective in Urban Railway. <i>Periodica Polytechnica Transportation Engineering</i> , 2019, 48, 57-64.	0.7	10
52	Hospital Bed Planning in a Single Department Based on Monte Carlo Simulation and Queuing Theory. , 2019, , .		4
53	A Bibliometric Analysis of the Development of ICD-11 in Medical Informatics. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-12.	1.1	12
54	An Empirical Study on Patientsâ€™ Acceptance of Physician-Patient Interaction in Online Health Communities. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 5084.	1.2	22

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55	Some q-Rung Orthopair Fuzzy Hamy Mean Aggregation Operators with Their Application. , 2019, , .		3
56	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
57	Some q-rung orthopair fuzzy point weighted aggregation operators for multi-attribute decision making. Soft Computing, 2019, 23, 11627-11649.	2.1	98
58	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
59	A meta-analysis of ABCG2 gene polymorphism and non-small cell lung cancer outcomes. Genetics and Molecular Biology, 2019, 42, e20180234.	0.6	1
60	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
61	Patients' Acceptance of Information Published by Physicians in Online Health Communities. , 2019, , .		0
62	A Recommendation Model for Medical Data Visualization Based on Information Entropy and Decision Tree Optimized by Two Correlation Coefficients. , 2019, , .		2
63	An Iterated Hybrid Local Search Algorithm for Pick-and-Place Sequence Optimization. Symmetry, 2018, 10, 633.	1.1	5
64	A Novel Method for Mining Abnormal Behaviors in Social Medical Insurance. , 2018, , .		3
65	Analysis and Optimization of Bottlenecks via Simulation. , 2018, , .		2
66	Utilizing Narrative Text from Electronic Health Records for Early Warning Model of Chronic Disease. , 2018, , .		2
67	Leveraging Shannon Entropy to Validate the Transition between ICD-10 and ICD-11. Entropy, 2018, 20, 769.	1.1	4
68	Some Picture Fuzzy Dombi Heronian Mean Operators with Their Application to Multi-Attribute Decision-Making. Symmetry, 2018, 10, 593.	1.1	56
69	How does Health Website Influence Patient Compliance. , 2018, , .		1
70	A Novel Multiattribute Decision-Making Method Based on Pointâ€œChoquet 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
71	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
72	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

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73	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
74	Some Hesitant Fuzzy Linguistic Muirhead Means with Their Application to Multiattribute Group Decision-Making. Complexity, 2018, 2018, 1-16.	0.9	12
75	Mature or Emerging? The Impact of Treatment-Related Internet Health Information Seeking on Patients's™ Trust in Physicians. International Journal of Environmental Research and Public Health, 2018, 15, 1855.	1.2	11
76	Enhancing Online Patient Support through Health-Care Knowledge in Online Health Communities: A Descriptive Study. Information (Switzerland), 2018, 9, 199.	1.7	6
77	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
78	A Novel Approach to Multi-Attribute Group Decision-Making with q-Rung Picture Linguistic Information. Symmetry, 2018, 10, 172.	1.1	90
79	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
80	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
81	Evaluation of healthcare system efficiency based on DEA algorithm. Journal of Discrete Mathematical Sciences and Cryptography, 2018, 21, 937-946.	0.5	3
82	Relationship Between Internet Health Information and Patient Compliance Based on Trust: Empirical Study. Journal of Medical Internet Research, 2018, 20, e253.	2.1	77
83	Medical service unity: an effective approach for medical care in rural areas in China. Rural and Remote Health, 2018, 18, 4483.	0.4	3
84	Generalized point aggregation operators for dual hesitant fuzzy information. Journal of Intelligent and Fuzzy Systems, 2017, 33, 515-527.	0.8	14
85	Research on surgical process based on Markov chain model within operating rooms. , 2017, , .		0
86	Solving the stability“accuracy“diversity dilemma of recommender systems. Physica A: Statistical Mechanics and Its Applications, 2017, 468, 415-424.	1.2	17
87	A Medical Diagnosis Method Based on Interval-valued Fuzzy Cognitive Map. , 2017, , .		3
88	Pythagorean fuzzy Bonferroni mean operators with their application to supply chain management. , 2017, , .		4
89	Some Generalized Pythagorean Fuzzy Bonferroni Mean Aggregation Operators with Their Application to Multiattribute Group Decision-Making. Complexity, 2017, 2017, 1-16.	0.9	62
90	Choquet-based multi-criteria decision making with objective and subjective information. Journal of Intelligent and Fuzzy Systems, 2016, 30, 773-781.	0.8	1

#	ARTICLE	IF	CITATIONS
91	Privacy preserving for patients' information: A knowledge-constrained access control model for hospital information systems. , 2016, , .		2
92	A hierarchical method to automatically encode Chinese diagnoses through semantic similarity estimation. BMC Medical Informatics and Decision Making, 2016, 16, 30.	1.5	39
93	Design theory, modelling and the application for the Internet of Things service. Enterprise Information Systems, 2016, 10, 249-267.	3.3	23
94	Research on the impact of foreign capital on China's retail industry security. , 2015, , .		0
95	An Energy Efficient Sensor Data Convergence Model Adaptable for Cold Chain Monitoring. , 2014, , .		0
96	An Improved Identity Authentication Scheme for Internet of Things in Heterogeneous Networking Environments. , 2013, , .		20
97	ECIS, an Energy Conservation and Interconnection Scheme between WSN and Internet Based on the 6LoWPAN. , 2013, , .		1
98	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
99	An Improved Database Inspection System for E-commerce Companies Based on Web Data Mining. , 2013, , .		1
100	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
101	An Integration Technology for Socially Aware Mobile Applications in Heterogeneous Networking Environments. , 2012, , .		1
102	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
103	Service Encapsulation-Based Model for Smart Campus. Journal of Electronic Commerce in Organizations, 2012, 10, 31-41.	0.6	3
104	Research on the Safety Assessment of Identity Authentication in Mobile-Commerce System Based on Hierarchical Analysis Method. , 2010, , .		0
105	SXML, an Enhancement of XML Documents in Mobile Learning. , 2009, , .		2
106	Mobile services modeling and assurance. , 2009, , .		1
107	Factor Interaction and Evaluation of the Enterprise Niche Based on Mutation. , 2008, , .		0
108	A New Frame of Knowledge Discovery. , 2008, , .		2

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109	An improved mobile E-commerce identity authentication mechanism $\hat{A}$ IEIA and its simulation. , 2008, , .		0
110	Study on knowledge sharing mechanism of supply chain based on dynamic capabilities. , 2008, , .		1
111	An analysis of modeling and evolution of ecosystem of Cyber-society based on system dynamics. , 2008, , .		0
112	Integrating management control with strategic decision in MCS and IS. , 2008, , .		0
113	Congestion Control Using Fuzzy Logic in QoS Networks. , 2006, , .		1
114	Management of Stochastic Portfolio using Improved Genetic Algorithm. , 2006, , .		0
115	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
116	Admission control and scheduling in simple series parallel networks using fuzzy logic. IEEE Transactions on Fuzzy Systems, 2001, 9, 307-314.	6.5	10
117	Fuzzy service control of queueing systems. IEEE Transactions on Systems, Man, and Cybernetics, 1999, 29, 503-517.	5.5	12
118	Fuzzy admission control and scheduling of production systems. , 0, , .		0