Dong-Ling Xu

List of Publications by Year
in descending order

151 papers	7,968 citations	53751 45 h-index	51562 86 g-index
155 all docs	155 docs citations	155 times ranked	3464 citing authors

#	Article	IF	Citations
1	On the evidential reasoning algorithm for multiple attribute decision analysis under uncertainty. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2002, 32, 289-304.	3.4	714
2	Evidential reasoning rule for evidence combination. Artificial Intelligence, 2013, 205, 1-29.	3.9	520
3	Environmental impact assessment using the evidential reasoning approach. European Journal of Operational Research, 2006, 174, 1885-1913.	3.5	440
4	The evidential reasoning approach for MADA under both probabilistic and fuzzy uncertainties. European Journal of Operational Research, 2006, 171, 309-343.	3.5	311
5	A two-stage logarithmic goal programming method for generating weights from interval comparison matrices. Fuzzy Sets and Systems, 2005, 152, 475-498.	1.6	293
6	On the centroids of fuzzy numbers. Fuzzy Sets and Systems, 2006, 157, 919-926.	1.6	289
7	The evidential reasoning approach for multiple attribute decision analysis using interval belief degrees. European Journal of Operational Research, 2006, 175, 35-66.	3.5	236
8	Inference and learning methodology of belief-rule-based expert system for pipeline leak detection. Expert Systems With Applications, 2007, 32, 103-113.	4.4	231
9	A preference aggregation method through the estimation of utility intervals. Computers and Operations Research, 2005, 32, 2027-2049.	2.4	207
10	Optimization Models for Training Belief-Rule-Based Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 569-585.	3.4	207
11	The evidential reasoning approach for multi-attribute decision analysis under interval uncertainty. European Journal of Operational Research, 2006, 174, 1914-1943.	3.5	181
12	Nonlinear information aggregation via evidential reasoning in multiattribute decision analysis under uncertainty. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2002, 32, 376-393.	3.4	175
13	Data classification using evidence reasoning rule. Knowledge-Based Systems, 2017, 116, 144-151.	4.0	166
14	A methodology to model causal relationships on offshore safety assessment focusing on human and organizational factors. Journal of Safety Research, 2008, 39, 87-100.	1.7	148
15	Interval weight generation approaches based on consistency test and interval comparison matrices. Applied Mathematics and Computation, 2005, 167, 252-273.	1.4	133
16	An Offshore Risk Analysis Method Using Fuzzy Bayesian Network. Journal of Offshore Mechanics and Arctic Engineering, 2009, 131, .	0.6	120
17	A belief rule-based decision support system for clinical risk assessment of cardiac chest pain. European Journal of Operational Research, 2012, 219, 564-573.	3.5	117
18	A model for real-time failure prognosis based on hidden Markov model and belief rule base. European Journal of Operational Research, 2010, 207, 269-283.	3.5	113

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19	A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 656-672.	5.9	112
20	An enhanced consensus reaching process in group decision making with intuitionistic fuzzy preference relations. Information Sciences, 2016, 329, 274-286.	4.0	110
21	Online updating belief rule based system for pipeline leak detection under expert intervention. Expert Systems With Applications, 2009, 36, 7700-7709.	4.4	97
22	An introduction and survey of the evidential reasoning approach for multiple criteria decision analysis. Annals of Operations Research, 2012, 195, 163-187.	2.6	90
23	On the combination and normalization of interval-valued belief structuresâ˜†. Information Sciences, 2007, 177, 1230-1247.	4.0	89
24	An explainable AI decision-support-system to automate loan underwriting. Expert Systems With Applications, 2020, 144, 113100.	4.4	87
25	Group-based ERâ€"AHP system for product project screening. Expert Systems With Applications, 2008, 35, 1909-1929.	4.4	84
26	Inference analysis and adaptive training for belief rule based systems. Expert Systems With Applications, 2011, 38, 12845-12860.	4.4	84
27	Optimal Power System Dispatch With Wind Power Integrated Using Nonlinear Interval Optimization and Evidential Reasoning Approach. IEEE Transactions on Power Systems, 2016, 31, 2246-2254.	4.6	78
28	Online Updating Belief-Rule-Base Using the RIMER Approach. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2011, 41, 1225-1243.	3.4	77
29	Multi-criteria service recommendation based on user criteria preferences. , 2011, , .		76
30	Belief rule-based methodology for mapping consumer preferences and setting product targets. Expert Systems With Applications, 2012, 39, 4749-4759.	4.4	70
31	A continuous interval-valued linguistic ORESTE method for multi-criteria group decision making. Knowledge-Based Systems, 2018, 153, 65-77.	4.0	69
32	Integrating DEA-oriented performance assessment and target setting using interactive MOLP methods. European Journal of Operational Research, 2009, 195, 205-222.	3.5	68
33	On the inference and approximation properties of belief rule based systems. Information Sciences, 2013, 234, 121-135.	4.0	66
34	Intelligent decision system for self-assessment. Journal of Multi-Criteria Decision Analysis, 2003, 12, 43-60.	1.0	65
35	A sequential learning algorithm for online constructing belief-rule-based systems. Expert Systems With Applications, 2010, 37, 1790-1799.	4.4	65
36	Combined medical quality assessment using the evidential reasoning approach. Expert Systems With Applications, 2015, 42, 5522-5530.	4.4	65

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37	Minimizing total completion time on a single machine with a flexible maintenance activity. Computers and Operations Research, 2011, 38, 755-770.	2.4	57
38	The optimal design of industrial alarm systems based on evidence theory. Control Engineering Practice, 2016, 46, 142-156.	3.2	57
39	A belief rule based expert system for predicting consumer preference in new product development. Knowledge-Based Systems, 2016, 94, 105-113.	4.0	55
40	Clinical Decision Support Systems: A Review on Knowledge Representation and Inference Under Uncertainties. International Journal of Computational Intelligence Systems, 2008, 1, 159-167.	1.6	54
41	Distributed preference relations for multiple attribute decision analysis. Journal of the Operational Research Society, 2016, 67, 457-473.	2.1	53
42	Generalised probabilistic linguistic evidential reasoning approach for multi-criteria decision-making under uncertainty. Journal of the Operational Research Society, 2021, 72, 130-144.	2.1	53
43	New model for system behavior prediction based on belief rule based systems. Information Sciences, 2010, 180, 4834-4864.	4.0	49
44	Belief rule-based inference for predicting trauma outcome. Knowledge-Based Systems, 2016, 95, 35-44.	4.0	49
45	Determining attribute weights for multiple attribute decision analysis with discriminating power in belief distributions. Knowledge-Based Systems, 2018, 143, 127-141.	4.0	49
46	Weapon System Capability Assessment under uncertainty based on the evidential reasoning approach. Expert Systems With Applications, 2011, 38, 13773-13773.	4.4	48
47	Bayesian reasoning approach based recursive algorithm for online updating belief rule based expert system of pipeline leak detection. Expert Systems With Applications, 2011, 38, 3937-3943.	4.4	43
48	Clinical Decision Support Systems: a Review of Knowledge Representation and Inference under Uncertainties. International Journal of Computational Intelligence Systems, 2008, 1, 159.	1.6	43
49	Consumer preference prediction by using a hybrid evidential reasoning and belief rule-based methodology. Expert Systems With Applications, 2009, 36, 8421-8430.	4.4	42
50	Identification of uncertain nonlinear systems: Constructing belief rule-based models. Knowledge-Based Systems, 2015, 73, 124-133.	4.0	41
51	A three-stage hybrid approach for weight assignment in MADM. Omega, 2017, 71, 93-105.	3.6	40
52	Intelligent decision system and its application in business innovation self assessment. Decision Support Systems, 2006, 42, 664-673.	3.5	38
53	Ship selection using a multiple-criteria synthesis approach. Journal of Marine Science and Technology, 2008, 13, 50-62.	1.3	38
54	Determining attribute weights to improve solution reliability and its application to selecting leading industries. Annals of Operations Research, 2016, 245, 401-426.	2.6	38

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55	An evidential reasoning-based decision support system for handling customer complaints in mobile telecommunications. Knowledge-Based Systems, 2018, 162, 202-210.	4.0	38
56	An empirical study on the application of the Evidential Reasoning rule to decision making in financial investment. Knowledge-Based Systems, 2019, 164, 226-234.	4.0	38
57	Analysis of fuzzy Hamacher aggregation functions for uncertain multiple attribute decision making. Information Sciences, 2017, 387, 19-33.	4.0	36
58	Hidden Behavior Prediction of Complex Systems Based on Hybrid Information. IEEE Transactions on Cybernetics, 2013, 43, 402-411.	6.2	35
59	A double frontier DEA cross efficiency method aggregated by evidential reasoning approach for measuring road safety performance. Measurement: Journal of the International Measurement Confederation, 2019, 136, 668-688.	2.5	34
60	Applying a belief ruleâ€base inference methodology to a guidelineâ€based clinical decision support system. Expert Systems, 2009, 26, 391-408.	2.9	33
61	Aggregate production planning under uncertainty: a comprehensive literature survey and future research directions. International Journal of Advanced Manufacturing Technology, 2019, 102, 159-181.	1.5	33
62	Solving multiple-criteria R&D project selection problems with a data-driven evidential reasoning rule. International Journal of Project Management, 2019, 37, 87-97.	2.7	33
63	Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7131-7142.	5.9	33
64	Evidential reasoning for preprocessing uncertain categorical data for trustworthy decisions: An application on healthcare and finance. Expert Systems With Applications, 2021, 185, 115597.	4.4	32
65	Selecting strategic partner for tax information systems based on weight learning with belief structures. International Journal of Approximate Reasoning, 2019, 105, 66-84.	1.9	31
66	An evidential reasoning approach based on risk attitude and criterion reliability. Knowledge-Based Systems, 2020, 199, 105947.	4.0	31
67	Comparison study of multi-attribute decision analytic software. Journal of Multi-Criteria Decision Analysis, 2005, 13, 65-80.	1.0	29
68	Integrated bank performance assessment and management planning using hybrid minimax reference point â€" DEA approach. European Journal of Operational Research, 2010, 207, 1506-1518.	3.5	29
69	An evidential reasoning approach based on criterion reliability and solution reliability. Computers and Industrial Engineering, 2019, 128, 401-417.	3.4	28
70	A new belief rule base knowledge representation scheme and inference methodology using the evidential reasoning rule for evidence combination. Expert Systems With Applications, 2016, 51, 218-230.	4.4	27
71	Clinical Decision Support Systems: a Review of Knowledge Representation and Inference under Uncertainties. International Journal of Computational Intelligence Systems, 2008, 1, 159.	1.6	26
72	Research project evaluation and selection: an evidential reasoning rule-based method for aggregating peer review information with reliabilities. Scientometrics, 2015, 105, 1469-1490.	1.6	25

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73	An evidential reasoning rule based feature selection for improving trauma outcome prediction. Applied Soft Computing Journal, 2021, 103, 107112.	4.1	25
74	Interval-valued Evidence Updating with Reliability and Sensitivity Analysis for Fault Diagnosis. International Journal of Computational Intelligence Systems, 2016, 9, 396.	1.6	22
75	Combining principal component analysis and the evidential reasoning approach for healthcare quality assessment. Annals of Operations Research, 2018, 271, 679-699.	2.6	22
76	A Study on Generalising Bayesian Inference to Evidential Reasoning. Lecture Notes in Computer Science, 2014, , 180-189.	1.0	22
77	Evaluating the performance of aggregate production planning strategies under uncertainty in soft drink industry. Journal of Manufacturing Systems, 2019, 50, 146-162.	7.6	21
78	Evidence updating with static and dynamical performance analyses for industrial alarm system design. ISA Transactions, 2020, 99, 110-122.	3.1	21
79	Integrated efficiency and trade-off analyses using a DEA-oriented interactive minimax reference point approach. Computers and Operations Research, 2012, 39, 1062-1073.	2.4	18
80	Evaluation, ranking and selection of R&D projects by multiple experts: an evidential reasoning rule based approach. Scientometrics, 2017, 111, 1501-1519.	1.6	18
81	ASSESSMENT OF NUCLEAR WASTE REPOSITORY OPTIONS USING THE ER APPROACH. International Journal of Information Technology and Decision Making, 2009, 08, 581-607.	2.3	17
82	Interactive minimax optimisation for integrated performance analysis and resource planning. Computers and Operations Research, 2014, 46, 78-90.	2.4	17
83	Multicriteria evidential reasoning decision modelling and analysisâ€"prioritizing voices of customer. Journal of the Operational Research Society, 2011, 62, 1638-1654.	2.1	16
84	Evolutionary robust optimization in production planning â€" interactions between number of objectives, sample size and choice of robustness measure. Computers and Operations Research, 2017, 79, 266-278.	2.4	16
85	Context Similarity Metric for Multidimensional Service Recommendation. International Journal of Electronic Commerce, 2013, 18, 73-104.	1.4	15
86	Novel decision model based on mixed chase and level strategy for aggregate production planning under uncertainty: Case study in beverage industry. Computers and Industrial Engineering, 2017, 114, 54-68.	3.4	15
87	Belief rule-based system for portfolio optimisation with nonlinear cash-flows and constraints. European Journal of Operational Research, 2012, 223, 775-784.	3.5	14
88	Integrating meta-heuristics, simulation and exact techniques for production planning of a failure-prone manufacturing system. European Journal of Operational Research, 2018, 266, 976-989.	3.5	14
89	Triangular bounded consistency of fuzzy preference relations. Information Sciences, 2019, 479, 355-371.	4.0	14
90	Decentralised energy and its performance assessment models. Frontiers of Engineering Management, 2021, 8, 183-198.	3.3	14

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91	Condition-based maintenance of dynamic systems using online failure prognosis and belief rule base. Expert Systems With Applications, 2012, 39, 6140-6149.	4.4	13
92	Group article recommendation based on ER rule in Scientific Social Networks. Applied Soft Computing Journal, 2021, 110, 107631.	4.1	12
93	Inferential modelling and decision making with data. , 2017, , .		11
94	Distanceâ€based intuitionistic multiplicative multiple criteria decisionâ€making methods for healthcare management in West China Hospital. Expert Systems, 2020, 37, e12479.	2.9	9
95	Data-driven preference learning in multiple criteria decision making in the evidential reasoning context. Applied Soft Computing Journal, 2021, 102, 107109.	4.1	7
96	Probabilistic modeling approach for interpretable inference and prediction with data for sepsis diagnosis. Expert Systems With Applications, 2021, 183, 115333.	4.4	7
97	A Bibliometric Overview of Financial Studies. Advances in Intelligent Systems and Computing, 2015, , 245-254.	0.5	7
98	Introduction to the ER Rule for Evidence Combination. Lecture Notes in Computer Science, 2011, , 7-15.	1.0	7
99	Estimation, modeling, and aggregation of missing survey data for prioritizing customer voices. European Journal of Operational Research, 2012, 220, 762-776.	3.5	6
100	Circuit Tolerance Design Using Belief Rule Base. Mathematical Problems in Engineering, 2015, 2015, 1-12.	0.6	6
101	A methodology for assessing the effect of portfolio management on NPD performance based on Bayesian network scenarios. Expert Systems, 2017, 34, e12186.	2.9	6
102	THE EVIDENTIAL REASONING APPROACH FOR RISK MANAGEMENT IN LARGE ENTERPRISES. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2012, 20, 17-30.	0.9	5
103	A Genetic Algorithm Search Heuristic for Belief Rule-Based Model-Structure Validation. , 2013, , .		5
104	Demand Analysis with Aggregation Systems. International Journal of Intelligent Systems, 2016, 31, 425-443.	3.3	5
105	Application of an intelligent decision system to nuclear waste repository option analysis. International Journal of Nuclear Governance, Economy and Ecology, 2008, 2, 146.	0.2	4
106	Uncertainty and Preference Modelling for Multiple Criteria Vehicle Evaluation. International Journal of Computational Intelligence Systems, 2010, 3, 688-708.	1.6	4
107	A Fuzzy Group Prioritization Method for Deriving Weights and its Software Implementation. International Journal of Interactive Multimedia and Artificial Intelligence, 2013, 2, 7.	1.0	4
108	Induction of belief decision trees from data. , 2012, , .		3

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109	Track irregularity fault identification Based on Evidence Reasoning rule. , 2016, , .		3
110	A review on multiple criteria performance analysis of renewable energy systems. , 2017, , .		3
111	Uncertainty and Preference Modelling for Multiple Criteria Vehicle Evaluation. International Journal of Computational Intelligence Systems, 2010, 3, 688.	1.6	3
112	Corporate Failure Risk Assessment for Knowledge-Intensive Services Using the Evidential Reasoning Approach. Journal of Risk and Financial Management, 2022, 15, 131.	1.1	3
113	APPLYING A NEW RULE-BASE INFERENCE METHODOLOGY INTO CLINICAL DECISION MAKING. , 2008, , .		2
114	Generic Expert System and Its Application in Knowledge Modelling and Inference. , 2013, , .		2
115	Application of Evidential Reasoning rules to identification of asthma control steps in children. , 2016, , .		2
116	Multiple Criteria Performance Modelling and Impact Assessment of Renewable Energy Systemsâ€"A Literature Review. , 2018, , 1-15.		2
117	High value passenger identification research based on Federated Learning. , 2020, , .		2
118	Automobile Insurance Fraud Detection using the Evidential Reasoning Approach and Data-Driven Inferential Modelling. , 2020, , .		2
119	Visualising regional disparities in the risk of COVID-19 at different phases of lockdown in England. Environment and Planning A, 2021, 53, 883-886.	2.1	2
120	A probabilistic modeling approach for interpretable data inference and classification. Journal of Intelligent and Fuzzy Systems, 2021, 40, 5101-5117.	0.8	2
121	Uncertain Nonlinear System Modeling and Identification Using Belief Rule-Based Systems. Lecture Notes in Computer Science, 2013, , 209-218.	1.0	2
122	A Methodology to Model Human and Organisational Errors on Offshore Risk Analysis. , 2006, , .		1
123	Application of multiple criteria decision analysis in impact assessment of carbon labelling. , 2009, , .		1
124	Supporting nuclear safety culture assessment using Intelligent Decision System software. , 2011, , .		1
125	An Evaluation of Website Upgrade Options: A Case Study Comparison of ANFIS and RIMER. , 2013, , .		1
126	Collaborative supporting tool: Integrating social media and mobile groupware into an integrated learning environment. , 2018, , .		1

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127	Determining analogies based on the integration of multiple information sources. International Journal of Forecasting, 2018, 34, 507-528.	3.9	1
128	Multiple Criteria Performance Assessment for Decentralized Energy Systems: A Case Study. , 2019, , .		1
129	A new machine learning technique for predicting traumatic injuries outcomes based on the vital signs. , 2019, , .		1
130	Evidential reasoning with linguistic belief structures. , 2019, , .		1
131	Will Delayed Retirement Affect the Health of Chinese Workers? A Study from the Perspective of Sustainability of Physical Health. Sustainability, 2021, 13, 3187.	1.6	1
132	Handling Uncertain and Qualitative Information in Impact Assessment â€" Applications of IDS in Policy Making Support. Studies in Computational Intelligence, 2008, , 159-185.	0.7	1
133	Features selection and improving for trauma outcomes prediction models. , 2018, , .		1
134	Decision Support System for Evaluating Impact of Product Carbon Labeling Scheme. Frontiers of Engineering Management, 2014, 1, 89.	3.3	1
135	Security Based Operation in Container Line Supply Chain: a Literature Review. Atlantis Computational Intelligence Systems, 2013, , 95-115.	0.5	1
136	Fraud detection in automobile insurance claims: A statistical review. , 2020, , .		1
137	An application of the evidential reasoning rule to predict outcomes following traumatic injuries. , 2020, , .		1
138	Evidence based decision analysis and support. , 2011, , .		0
139	Optimal Profit Model in Coordinating Supply Chain with Stochastic Demands. , 2011, , .		0
140	INTERVAL IDENTIFICATION OF UNCERTAIN NONLINEAR SYSTEMS USING BELIEF RULE-BASED SYSTEMS. World Scientific Proceedings Series on Computer Engingeering and Information Science, 2012, , 762-768.	0.1	0
141	Supply Analysis and Aggregation Systems. , 2013, , .		0
142	Deriving Weights from Group Fuzzy Pairwise Comparison Judgement Matrices. Advances in Intelligent Systems and Computing, 2013, , 545-555.	0.5	0
143	APPLICATION OF INTELLIGENT DECISION SYSTEM TO NUCLEAR WASTE DEPOSITORY OPTION ANALYSIS. , 2006, , .		0
144	Project Risk Modelling and Assessment in New Product Development. , 2009, , 259-269.		0

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145	Multi-Asset Class Portfolio Optimisation Using a Belief Rule-Based System. SSRN Electronic Journal, 0, , .	0.4	0
146	Multi-Asset Class Portfolio Optimisation Using a Belief Rule-Based System. SSRN Electronic Journal, 0, , .	0.4	0
147	A Web Based Assessment Tool via the Evidential Reasoning Approach. Atlantis Computational Intelligence Systems, 2010, , 183-204.	0.5	0
148	Decision Making with Fuzzy Moving Averages and OWA Operators. Lecture Notes in Business Information Processing, 2013, , 210-221.	0.8	0
149	Fire and Explosion Safety Assessment in Container Line Supply Chain. Atlantis Computational Intelligence Systems, 2013, , 295-306.	0.5	0
150	An evidential-reasoning based model for probabilistic inference with uncertain data acquired from different data sources. , 2018, , .		0
151	Decentralized energy system and its performance assessment framework based on MCDA. , 2020, , .		0