

Roger M Cooke

List of Publications by Year in descending order

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106
papers

5,439
citations

147801

31
h-index

85541

71
g-index

131
all docs

131
docs citations

131
times ranked

5569
citing authors

#	ARTICLE	IF	CITATIONS
1	Vines--a new graphical model for dependent random variables. <i>Annals of Statistics</i> , 2002, 30, 1031.	2.6	912
2	Probability Density Decomposition for Conditionally Dependent Random Variables Modeled by Vines. <i>Annals of Mathematics and Artificial Intelligence</i> , 2001, 32, 245-268.	1.3	657
3	Ice sheet contributions to future sea-level rise from structured expert judgment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11195-11200.	7.1	383
4	TU Delft expert judgment data base. <i>Reliability Engineering and System Safety</i> , 2008, 93, 657-674.	8.9	243
5	World Health Organization Estimates of the Relative Contributions of Food to the Burden of Disease Due to Selected Foodborne Hazards: A Structured Expert Elicitation. <i>PLoS ONE</i> , 2016, 11, e0145839.	2.5	177
6	Risk Analysis and Bioeconomics of Invasive Species to Inform Policy and Management. <i>Annual Review of Environment and Resources</i> , 2016, 41, 453-488.	13.4	149
7	Using expert judgment to estimate marine ecosystem vulnerability in the California Current. <i>Ecological Applications</i> , 2010, 20, 1402-1416.	3.8	132
8	Attribution of global foodborne disease to specific foods: Findings from a World Health Organization structured expert elicitation. <i>PLoS ONE</i> , 2017, 12, e0183641.	2.5	130
9	Prioritizing Emerging Zoonoses in The Netherlands. <i>PLoS ONE</i> , 2010, 5, e13965.	2.5	129
10	Attribution of Foodborne Pathogens Using Structured Expert Elicitation. <i>Foodborne Pathogens and Disease</i> , 2008, 5, 649-659.	1.8	127
11	Oklahoma's induced seismicity strongly linked to wastewater injection depth. <i>Science</i> , 2018, 359, 1251-1255.	12.6	125
12	A Probabilistic Characterization of the Relationship between Fine Particulate Matter and Mortality:â€‰Elicitation of European Experts. <i>Environmental Science & Technology</i> , 2007, 41, 6598-6605.	10.0	96
13	Expert judgement and uncertainty quantification for climate change. <i>Nature Climate Change</i> , 2016, 6, 445-451.	18.8	93
14	Expert Elicitation: Using the Classical Model to Validate Expertsâ€™ Judgments. <i>Review of Environmental Economics and Policy</i> , 2018, 12, 113-132.	7.0	85
15	Cross validation for the classical model of structured expert judgment. <i>Reliability Engineering and System Safety</i> , 2017, 163, 109-120.	8.9	80
16	Expert judgement for dependence in probabilistic modelling: A systematic literature review and future research directions. <i>European Journal of Operational Research</i> , 2017, 258, 801-819.	5.7	77
17	Ship-borne Nonindigenous Species Diminish Great Lakes Ecosystem Services. <i>Ecosystems</i> , 2012, 15, 1-15.	3.4	67
18	Calibration and information in expert resolution; a classical approach. <i>Automatica</i> , 1988, 24, 87-93.	5.0	65

#	ARTICLE	IF	CITATIONS
19	On the performance of social network and likelihood-based expert weighting schemes. Reliability Engineering and System Safety, 2008, 93, 745-756.	8.9	60
20	Rating impacts in a multi-stressor world: a quantitative assessment of 50 stressors affecting the Great Lakes. Ecological Applications, 2015, 25, 717-728.	3.8	60
21	Forecasting the Impacts of Silver and Bighead Carp on the Lake Erie Food Web. Transactions of the American Fisheries Society, 2016, 145, 136-162.	1.4	60
22	Use of structured expert judgment to forecast invasions by bighead and silver carp in Lake Erie. Conservation Biology, 2015, 29, 187-197.	4.7	59
23	A Structured Expert Judgment Study for a Model of Campylobacter Transmission During Broiler-Chicken Processing. Risk Analysis, 2005, 25, 109-124.	2.7	56
24	Messaging climate change uncertainty. Nature Climate Change, 2015, 5, 8-10.	18.8	53
25	Explaining the Failure to Insure Catastrophic Risks. Geneva Papers on Risk and Insurance: Issues and Practice, 2012, 37, 206-227.	2.1	52
26	Quantifying information security risks using expert judgment elicitation. Computers and Operations Research, 2012, 39, 774-784.	4.0	51
27	The anatomy of the squizzel. Reliability Engineering and System Safety, 2004, 85, 313-319.	8.9	50
28	Using Structured Expert Judgment to Assess Invasive Species Prevention: Asian Carp and the Mississippi-Great Lakes Hydrologic Connection. Environmental Science & Technology, 2014, 48, 2150-2156.	10.0	40
29	Future declines of the binational Laurentian Great Lakes fisheries: the importance of environmental and cultural change. Frontiers in Ecology and the Environment, 2010, 8, 239-244.	4.0	34
30	OPTIMAL MAINTENANCE DECISIONS FOR DIKES. Probability in the Engineering and Informational Sciences, 2000, 14, 101-121.	0.8	32
31	Myosin regulatory light chain phosphorylation inhibits shortening velocities of skeletal muscle fibers in the presence of the myosin inhibitor blebbistatin. Journal of Muscle Research and Cell Motility, 2009, 30, 17-27.	2.0	32
32	Value of information for climate observing systems. Environment Systems and Decisions, 2014, 34, 98-109.	3.4	31
33	Uncertainty and Sensitivity Analyses of a Dynamic Economic Evaluation Model for Vaccination Programs. Medical Decision Making, 2008, 28, 182-200.	2.4	29
34	Sample-based estimation of correlation ratio with polynomial approximation. ACM Transactions on Modeling and Computer Simulation, 2007, 18, 1-17.	0.8	28
35	Expert judgment based multi-criteria decision model to address uncertainties in risk assessment of nanotechnology-enabled food products. Journal of Nanoparticle Research, 2011, 13, 1813-1831.	1.9	27
36	Sampling, conditionalizing, counting, merging, searching regular vines. Journal of Multivariate Analysis, 2015, 138, 4-18.	1.0	27

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37	Out-of-sample validation for structured expert judgment of Asian carp establishment in Lake Erie. Integrated Environmental Assessment and Management, 2014, 10, 522-528.	2.9	26
38	The Aggregation of Expert Judgment: Do Good Things Come to Those Who Weight?. Risk Analysis, 2015, 35, 12-15.	2.7	26
39	Elicitation in the Classical Model. Profiles in Operations Research, 2018, , 15-36.	0.4	26
40	Evaluation of a Performance-Based Expert Elicitation: WHO Global Attribution of Foodborne Diseases. PLoS ONE, 2016, 11, e0149817.	2.5	26
41	A Probabilistic Model for the Failure Frequency of Underground Gas Pipelines. Risk Analysis, 1998, 18, 511-527.	2.7	25
42	Expert Elicitation for the Judgment of Prion Disease Risk Uncertainties. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2011, 74, 261-285.	2.3	25
43	Uncertainty analysis comes to integrated assessment models for climate change and conversely. Climatic Change, 2013, 117, 467-479.	3.6	24
44	Designing the Climate Observing System of the Future. Earth's Future, 2018, 6, 80-102.	6.3	24
45	Parameter fitting for uncertain models: modelling uncertainty in small models. Reliability Engineering and System Safety, 1994, 44, 89-102.	8.9	21
46	Response to discussants. Reliability Engineering and System Safety, 2008, 93, 775-777.	8.9	19
47	Probabilistic Inversion in Priority Setting of Emerging Zoonoses. Risk Analysis, 2010, 30, 715-723.	2.7	19
48	Uncertainty in dispersion and deposition in accident consequence modeling assessed with performance-based expert judgment. Reliability Engineering and System Safety, 1994, 45, 35-46.	8.9	18
49	Elicited preferences for components of ocean health in the California Current. Marine Policy, 2013, 42, 68-73.	3.2	16
50	Competing risk and the Cox proportional hazard model. Journal of Statistical Planning and Inference, 2006, 136, 1621-1637.	0.6	15
51	Conundrums with Uncertainty Factors. Risk Analysis, 2010, 30, 330-339.	2.7	15
52	Expert judgement and re-elicitation for prion disease risk uncertainties. International Journal of Risk Assessment and Management, 2012, 16, 48.	0.1	15
53	Expert forecasting with and without uncertainty quantification and weighting: What do the data say?. International Journal of Forecasting, 2021, 37, 378-387.	6.5	14
54	Probabilistic inversion for chicken processing lines. Reliability Engineering and System Safety, 2006, 91, 1364-1372.	8.9	13

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55	Quantifying uncertainty about future antimicrobial resistance: Comparing structured expert judgment and statistical forecasting methods. <i>PLoS ONE</i> , 2019, 14, e0219190.	2.5	13
56	Vines Arise. , 2010, , 37-71.		10
57	Managing dependencies in forest offset projects: toward a more complete evaluation of reversal risk. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2012, 17, 17-24.	2.1	10
58	Expert judgment study for placement ladder bowtie. <i>Safety Science</i> , 2008, 46, 921-934.	4.9	9
59	Risk Premia and the Social Cost of Carbon: A Review. <i>Economics</i> , 2011, 5, .	0.6	9
60	Estimating expected value of information using Bayesian belief networks: a case study in fish consumption advisory. <i>Environment Systems and Decisions</i> , 2014, 34, 88-97.	3.4	9
61	Validating Expert Judgment with the Classical Model. <i>Ethical Economy</i> , 2014, , 191-212.	0.1	9
62	Vine copula regression for observational studies. <i>AStA Advances in Statistical Analysis</i> , 2020, 104, 141-167.	0.9	8
63	Vine Regression. <i>SSRN Electronic Journal</i> , 0, , .	0.4	8
64	Model uncertainty in economic impacts of climate change: Bernoulli versus Lotka Volterra dynamics. <i>Integrated Environmental Assessment and Management</i> , 2013, 9, 2-6.	2.9	7
65	Expert Judgment in the Uncertainty Analysis of Dike Ring Failure Frequency. , 0, , 331-350.		6
66	Using the social cost of carbon to value earth observing systems. <i>Climate Policy</i> , 2017, 17, 330-345.	5.1	6
67	Probabilistic reasoning about measurements of equilibrium climate sensitivity: combining disparate lines of evidence. <i>Climatic Change</i> , 2018, 151, 541-554.	3.6	6
68	Obtaining Distributions from Groups for Decisions Under Uncertainty. , 2009, , 257-276.		6
69	Post-processing techniques for the joint CEC/USNRC uncertainty analysis of accident consequence codes. <i>Journal of Statistical Computation and Simulation</i> , 1997, 57, 243-259.	1.2	5
70	Least squares type estimation for Cox regression model and specification error. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 2288-2302.	1.2	5
71	Validation in the Classical Model. <i>Profiles in Operations Research</i> , 2018, , 37-59.	0.4	5
72	Market-based methods for monetizing uncertainty reduction. <i>Environment Systems and Decisions</i> , 2020, 40, 3-13.	3.4	5

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73	Updating Parameters of the Chicken Processing Line Model. <i>Risk Analysis</i> , 2010, 30, 934-944.	2.7	4
74	How Does Breastfeeding Affect IQ? Applying the Classical Model of Structured Expert Judgment. <i>SSRN Electronic Journal</i> , 2016, , .	0.4	4
75	Regulating Under Uncertainty: Newsboy for Exposure Limits. <i>Risk Analysis</i> , 2008, 28, 577-587.	2.7	3
76	Pupils returning to primary schools in England during 2020: rapid estimations of a punctual COVID-19 infection rates. <i>Royal Society Open Science</i> , 2021, 8, 202218.	2.4	3
77	A result in renyi's conditional probability theory with application to subjective probability. <i>Journal of Philosophical Logic</i> , 1983, 12, 19-32.	0.9	2
78	Reliability Model for Underground Gas Pipelines. , 0, , 423-446.		2
79	A Remark on Euclid's Theorem on the Infinitude of the Primes. <i>American Mathematical Monthly</i> , 2011, 118, 355.	0.3	2
80	Global correlation and uncertainty accounting. <i>Dependence Modeling</i> , 2016, 4, .	0.5	2
81	Vine Regression with Bayes Nets: A Critical Comparison with Traditional Approaches Based on a Case Study on the Effects of Breastfeeding on IQ. <i>Risk Analysis</i> , 2021, , .	2.7	2
82	The Value of Information in a Risk Management Approach to Climate Change. , 2012, , 19-43.		2
83	Self-Conditional Probabilities and Probabilistic Interpretations of Belief Functions. <i>Annals of Mathematics and Artificial Intelligence</i> , 2001, 32, 269-285.	1.3	1
84	Math/Stats Perspective on Chapter 2: Agreement and Disagreement. , 0, , 82-86.		1
85	Regular Vines: Generation Algorithm and Number of Equivalence Classes. , 2010, , 219-231.		1
86	Monetizing the Value of Measurements of Equilibrium Climate Sensitivity Using the Social Cost of Carbon. <i>Environmental Modeling and Assessment</i> , 2020, 25, 59-72.	2.2	1
87	Reply to comment on "Suburban watershed nitrogen retention: Estimating the effectiveness of stormwater management structures" by Koch et al. (<i>Elem Sci Anth</i> 3:000063, July 2015). <i>Elementa</i> , 2015, 3, .	3.2	1
88	Comment: Statistical Test for Statistics - as - Usual Confidence Bands. , 0, , 45-46.		0
89	Comment: EPI/TOX Perspective on Chapter 2: What Data Sets Per se Say. , 0, , 87-96.		0
90	Comment: Math/Stats Perspective on Chapter 3: Nonparametric Bayes. , 0, , 147-149.		0

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91	Comment: EPI/TOX View on Nonparametric Bayes: Dosing Precision. , 0, , 150-152.		0
92	Comment: Regulatory/Risk Perspective on Chapter 2: Substantial Advances Nourish Hope for Clarity?. , 0, , 97-104.		0
93	Comment: A Weakness in the Approach?. , 0, , 105-106.		0
94	Comment: A Question Dangles. , 0, , 44-44.		0
95	Comment: Math/Stats Perspective on Chapter 4: Bayesian Model Averaging. , 0, , 180-182.		0
96	Comment: EPI/TOX Perspective on Chapter 1: Re-Formulating the Issues. , 0, , 37-41.		0
97	Comment: EPI/TOX Perspective on Chapter 4: Use of Bayesian Model Averaging for Addressing Uncertainties in Cancer Doseâ€“Response Modeling. , 0, , 183-184.		0
98	Comment: The Math/Stats Perspective on Chapter 1: Hard Problems Remain. , 0, , 34-36.		0
99	Comment: Regulatory/Risk Perspective on Chapter 1 : A Good Baseline. , 0, , 42-43.		0
100	Uncertainty Quantification for Doseâ€“Response Models Using Probabilistic Inversion with Isotonic Regression: Bench Test Results. , 0, , 51-81.		0
101	Comment: Regulatory/Risk Perspective on Chapter 4: Model Averages, Model Amalgams, and Model Choice. , 0, , 185-193.		0
102	Micro Correlations and Tail Dependence. , 2010, , 89-112.		0
103	Response to Conundrums Letter. Risk Analysis, 2011, 31, 5-6.	2.7	0
104	Effects of Increases in IQ in India on the Present Value of Lifetime Earnings: A Structured Expert Judgment Study. SSRN Electronic Journal, 2017, , .	0.4	0
105	A Shapley Value Approach to Pricing Climate Risks. SSRN Electronic Journal, 0, , .	0.4	0
106	Deep and Shallow Uncertainty in Messaging Climate Change. SSRN Electronic Journal, 0, , .	0.4	0