Curriculum vitae Roger M. Cooke

Personal
Born February 9, 1946, Cincinnati, Ohio
Nationality U.S.A./The Netherlands
Address Delft University of Technology, Faculty of Electrical Engineering, Mathematics and Computer Science,
Mekelweg 4, 2628 CD, Delft, The Netherlands.
Resources for the Future, 1616 P st NW, Washington DC.
Telephone 31-15-2782548, Fax 31-15-2787255 01-202- 328-5127 (home:31-70-3465985,)
Married 2 children (1973, 1975)
Email cooke@rff.org
Website http://risk2.ewi.tudelft.nl/

Education
B.A. Yale University 1968,
Ph.D. Yale University 1974 (Philosophy and Mathematics).
Academic honors
Phi Beta Kappa, Highest Honors in Philosophy, Magna Cum Laude (Yale University)
Employment
Teaching assistant Yale University 1972-73 (Dept. of Philosophy)
Assistant Professor, Yale University: 1974 (Dept. of Philosophy)
Assistant Professor, University of Amsterdam 1975 -79(Dept. of Philosophy)
Assistant Professor, Delft University of Technology, 1979-87 (Dept. of Philosophy)
Associate Professor, Delft University of Technology, 1987-93 (Dept. of Mathematics).
Professor Applied Decision Theory, 1993 - (Dept. of Mathematics).
Chauncey Starr Senior Fellow for Risk Analysis, Resources for the Future, 2005
Current areas of specialization:
Statistical Decision Theory including:
- Risk Analysis
- Subjective Probability / Expert Judgment
- Uncertainty Analysis
- Decision Theory
Areas of Teaching competence
- Operations Research
- Game Theory
- Probability/Statistics

PhD Dissertations Supervised
- Jan. M. van Noortwijk Optimal Maintenance Decisions for Hydraulic Structures Delft, 1996.
- Jan G. Norstrom Value of Information Based Design of Control Software, Delft, 2000.
- Dorota Kurowicka Techniques in Representing High Dimensional Distributions, Delft 2001.
- Bernd Kraan Probabilistic Inversion in Uncertainty Analysis Delft, 2002.
- Cornel Bunea Mathematical Models for Reliability data Delft, 2003.
- Radboud Tebbens Dynamic Risk Models for Infectious Diseases 2005.
- Daniel Lewandowski, Copulae for High Dimensional Distributions, 2003-2007.
- Anca Hanea Algorithms for Distribution –Free Bayesian Belief Nets 2004-2008.
-Oswald Morales, Applying continuous Bayesian Belief Nets 2004-2008.

-Pratrycja Jesionik, Bayesian Belief Nets for food Safety, 2006-2010.
-Rabin Neslo, Paired Comparisons and Probabilistic Inversion 2006-2010.

Editor/Referee/Professional activities
Referee
- Physics Letters A
- IMA Journal of Mathematics , Applied in Business and Industry.
- Reliability, Engineering and System Safety Operations Research
- European Journal of Operational Research
- Journal of the Operational Research Society
- Guest editor Delft Progress Reports, Vol. 9, nr. 2, 1984("Quantum Mechanics and Probability").
- Guest co-editor Reliability Engineering and Systems Safety, special issue on Precursor Studies, 27 (1990).
- Member Editorial Board Reliability Engineering and System Safety (1991-).
- Chairman European Technical Committee on Uncertainty Modeling. (1993-1998)
- Guest editor Reliability Engineering and System Safety; special issue, Design of Reliability Data Bases (1996). -
Workshop Uncertainty Modeling 24-25/3/97.
- Editorial Board Risk Analysis, 1997.
- Editorial Board Reliability Engineering and Systems Safety.
- Editor European Safety and Reliability Assoc. Newsletter (1996- 2000).
- Coordinator Masters Of Science Program Risk and Environmental Modeling (1999-).
-Member National Academy of Science, Panel Scientific review of the Proposed Risk Assessment Bulletin from the
Office of Budget and Management (2006)
-Member National Academy of Science, Panel on Improving Risk Analysis Approaches Used by the US EPA
-Lead Author for Risk and Uncertainty, Intergovernmental Panel for Climate Change, 5-th Assessment

Administrative Experience

- Executive Faculty Council, Department of Social Sciences, TU Delft, 1981-1983 (Faculteitsbestuur)
- Coordination committee, Dept of Mathematics and Informatics, 1988 -
- Coordinator, Conditionally financed Research Project Mapob, Department of Mathematics and Informatics TU
Delft, 1987-1991.
- Committee for Research and Teaching Evaluation (wetenschapsbeoefening) Department of Mathematics and
Informatics 1993. – Chairman of the section Statistics, Probability and Operations Research,
1996-1998.
- Chairman Department of Control, Risk, Optimization, Stochastics, Statistics and System Theory (CROSS), Faculty of
Information Technology and Systems, 1999-2003.
- Coordinator International Masters Program Risk and Environmental Modeling, 1999-.

Awards
Phi Beta Kappa Yale University 1968
Magna Cum Laude Yale University 1968
Ouevre Award for Risk Management 2005   (Society for Risk Management and Dutch Society for Risk Analysis and
Reliability)
Society for Risk Analysis award for best set of papers on a common theme, 2010 (given for the paper Conundrums
with Uncertainty Factors and Comments)
Lead Author for the Intergovernmental Panel for Climate Change 5-th Assessment chapter on Risk and Uncertainty,
2010.
Society for Risk Analysis Best Reviewer Award, 2011
Society for Risk Analysis Lifetime Distinguished Achievement Award 2011.

Externally Supported Research Initiator and (joint)-coordinator:

- The Accident Sequence Precursor Methodology for the Dutch Process Industries 1/1/85-1/1/86, f 94.010, Ministry of Housing Physical Planning and Milieu).

- The use of expert opinion in safety studies 1985-1989. f 621.400, Ministry of Housing, Physical Planning and Milieu.

- Contract research IWECO Ergonomic Guidelines for Automated Control Rooms, (sub-project: using expert opinion in inspecting automated control rooms 1986, f 10.200, Ministry of Social Affairs).

- Use of Expert Judgment Data; European Space Agency: (f 175.000), 1/1/89 - 1/11/89.

- Computerized Risk Assessment: European Space Agency (f. 233.700), 1/1/89 - 1/1/90.

- Integrated Software Package for Expert Opinion in Risk Analysis, Ministery for Housing, Physical Planning & Milieu (f. 36.000), 1/11/89-1/1/90.

- Software Package for expert data evaluation and fusion commission
of the European communities (f. 60.000) 1990

- Uncertainty analysis of atmospheric dispersion and the deposition codes; commission of the European communities (f 82.000) 1991

- Pilot Project Uncertainty Analysis of Dispersion & Deposition models of COSYMA Code 1-6-90, 1-6-91 fl. 60.000,-.

- Upgrade computerized Risk Assesment, European Space Agency 1991 (f. 70.000).

- Enhanced reliability methods for assessing the realization of CLUSTER mission objectives: European Space Agency, (f. 14,000) 1/9/91-1/12/91,

- Data Generation and Collection: European Space Agency (f. 232,000) 11/92- 1/1/94.

- Support to application and Development of Risk Assessment 1/1/94 - 1/6/94 ESTEC fl. 58.000.

- Pilot Proj. ``Concerning Statistical analysis of maintenance performance'' 1/3/94-1/6/94 fl. 12.000. Risoe, National Lab (DK).

- Further Development and Application of Risk Assessment & Integration of Safety and Reliability tasks 1/6/94 - 1/1/95 ESTEC fl. 80.000.

- Review of SKI Data Processing methodology, Swedish Nuclear Inspectorial; 1-10-94 - 1-1-95 fl. 30.000,-.

- Optimal decisions that reduce flood damage along the Meuse: an uncertainty analysis 1/4/95 - 1/11/95; fl. 100.000,-.

- Joint CEC/USNRC Uncertainty Analysis of Accident Consequence Codes.

- Idem Ph.D. project Procedures Guide for uncertainty analysis 1/1/94 - 1/1/98 fl 100.000.

- Idem Mathematical Techniques for Uncertainty analysis 1/9/92 - 31/5/94 fl. 100.000.

- Idem 1/12/93 - 1/1/95 fl. 134.000.

- GasUnie, Failure frequency for Underground Pipelines 1/1/94 - 1/6/96 fl. 150.000.

- EU Working Group Fusion 1/6/96 - 1/6/98

- Swedish Pipe failure Database Review 1/5/97 - 1/10/97 fl. 20.000,--.

- Ministery of Water: uncertainty analysis of dyk failure probabilities 1/4/97 - 21/7/97 (with HKV) fl. 86.455,--.
(21/7/97 - 15/12/97 : fl. 108.695) (1/6/98 - 30/11/98 fl. 56.340)

- Nato Linkage Grant (01/01/99 - 31/01/01 fl. 22.000)

- Design of Uncertainty Modeling Software, HKV-Center fl. 50.000,--. (1/9/00 - 1/7/01)

- NOx Emissions RIVM fl. 50.000,--. (1/10/00 - 1/1/01)

- Project Risk and Uncertainty, Norwegian. Research council , Stavanger University. (1/1/01 - 01/01/02) fl. 13.000

- GasUnie: Model Validation, Pipeline Failure Rates, (01/03/01 - 01/05/01), fl 8000,--

- Siemens/KWU: Reliability data base design. (01/12/01) -(01/05/02), fl 35.000,--

- Schiphol, NLR Causal Models (01-12-01)-(01-11-02), 90,000 fl.

- RIVM Chicken Processing model, 10,000 e. 1/11/02 - 1/5/03

- Risk analysis of abandoned chemical weapons site 30,000e, 1/01/03 - 1/6/03.

- Gov. of Kuwait, Harvard Center for Risk, & MIT (Atmos. Chem) Health effects of fine particulate matter, 1-6-03 1-1-05, $150,000.

- NWO (Dutch Council for Scientific Research) Copulae for High Dimensional Distributions Code: 600.065.130.01N18 2003 – 2008, supporting PhD Hanea and Lewandowski 400,000 (aprox)

-Worker Safety Models (WORMS) Min. of Soc. Affairs, 2003 – 2005, $90,000.

- German Inst. for Coastal Research GKSS: Risk Modeling for Oil Spills 1-9-03 - 1-9-05, 45,000e.

- SwissNuclear "Review of Pegasos project on Seismic risk", 1-9-043 - 1-4-05; $40,000

- Causal Models for Schipol Airport 1-1-05 1-1-08 $483,000.00

- Economic Impact of Invasive Species in Great Lakes, EPA/Notre Dame 1-3-08 – 1-10-08, $30,000.

- Uncertainty in Merging and Spacing NASA 1-1-08 – 1-9-08, $130,000.

- Social cost of carbon: US Department of Energy 1-9-2010 – 1-7-2011, $130,000.

- Measuring Risk National Science Foundation 1-6-2009 – 1-6-2011, $280,000.

- Stochastic Food Web for Great Lakes Invasive Species NOAA, 1-1-2010 – 1-1-2014, $150,000 (PI David Lodge, Notre Dame U)

Publications

Books

Cooke, R.M.(2009) (ed) "*Uncertainty Modeling in Dose Response: Bench Testing Environmental Toxicity* Wiley, New York, ISBN 978-479-44750-5

Kurowicka, D. , and Cooke, R.M. Uncertainty Analysis and High Dimensional Dependence Modeling Wiley, New York, 2006.

Bedford, T.J. and Cooke, R.M. Probabilistic Risk Analysis: Foundations and Methods Cambridge University Press, (393 pages) 2001; ISBN 0 521 77320 2 Hardback

Cooke, R.M., Mendel, M., Vrijling, H. (eds.) Engineering Probabilistic Design and Maintenance for Flood Protection, Kluwer Academic Publishers, 1997.

Cooke R., Experts in Uncertainty; Opinion and Subjective Probability in Science, Oxford University Press; New York Oxford, 321 pages. 1991; ISBN 0-19-506465-8

Cooke, R. and Costantini, D. (eds.) Statistics in Science, Kluwer 1990.

Cooke, R.M., Belief in Science (in Dutch, English Summary available), van Gorcum, 1983.

Peer Reviewed Contract Research Reports

Bush, B, Jenken, T. , Lipowicz, D., Arent, D. and Cooke, R.M. (2012) "Variance Analysis of Wind and Natural Gas Generation under Different Market Structures: Some Observations" National Renewable Energy Laboratory, NREL/TP-6A20-52790, Contract No. DE-AC36-08GO28308.

Ale, B., Bellamy, L.J., Cooke, R.M., Duyvis, M., Kurowicka, D. Lin, P.H.,Morales, O., Roelen, A. Spouge, J. (2009) "Causal Model for Air Transport Safety, Final Report" Ministerie van Verkeer en Waterstaat, Directoraat-Generaal Luchtvaart en Maritieme Zaken, ISBN 10:90 369 1724-7; ISB N 13: 978 90 369 1724-7, The Hague, The Netherlands.

Speijker, L.J.P., Vidal. A. Cooke, R.M. "Safety assessmehnt of ATC-Wake single ruinway departu4res, NLR-TP-2006-465, July 2007.

Speijker, L.J.P., van Baren G.B.. Cooke, R.M. "Safety assessment of I-Wake single runway arrival operation with reduced separation" NLR-TP-2006, 532, May 2007.

Cooke, R.M., Environmental Transport Uncertainty Model for Abandoned Chemical Weapons Site: dispersion, deposition and groundwater. ABS consulting, Tokyo, 2003.

A.Roelen, R. Wever, A. Hale, L. Goossens, R. Cooke, R. Lopuhaa, M. Sijmons, and P. Valk, "Causal Modeling of air safety; NLR-CR-2002, 662, National Aerospace Laboratory, 2002.

Cooke, R.M., C. Bunea, T. Charitos,T.A. Mazzuchi "Mathematical Review of ZEDB Two-Stage Bayesian Model" VGB-Report, 45 pages; ISSN: 1439-7498, 2002

Brown, J. Goossens, L.H.J. , Harper, F.T., Kraan, B., Haskin, F.E, Abbott, M.L., Cooke, R.M., Young, M.L, .,Jones, J.A. Hora, S.C., Rood, A., and Randall, J., Probabilistic accident consequence uncertainty study: Food chain uncertainty assessment, NUREG/CR-6523, EUR 16771, SAND97-0335 Washington/USA, and Brussels-Luxembourg, 1997 Vol, I, II.

Goossens, L.H.J. , J. Boardman, F.T. Harper, B.C.P. Kraan, Cooke, R.M., M.L. Young, J.A. Jones and S.C. Hora, Probabilistic Accident Consequence Uncertainty Study: Uncertainty Assessment For Deposited Material And External Doses. NUREG/CR-6526 Washington/USA, 1997.

Goossens, L.H.J. Cooke, R.M. Pasler-Sauer, J. Kraan, B. & Jones, J.A. (1994). Probability Accident Consequence Uncertainty Analysis, Vols. 1-3, (NUREG/ CR-6244, EUR 15855 EN) Brussels: USNRC and CEC DG XII.

Goossens, L.H.J., Harrison, J.D. , Harper, F.T., Kraan, B., Cooke, R.M. and Hora, S.C., Probabilistic accident consequence uncertainty study: Uncertainty assessment for internal dosimetry, NUREG/CR-6571, EUR 16773, SAND98-0119, Washington/USA, and Brussels-Luxembourg, 1998, Vol. I, II.

Goossens, L.H.J., and Harper, F.T., (1998) "Joint EC/USNRC expert judgement driven radiological protection uncertainty analysis", Journal of Radiological Protection, Vol.18, No.4, 249-264.

Goossens, L.H.J., Boardman, J. , Harper, F.T., Kraan, B., Cooke, R.M., Young, M.L.,Jones, J.A. and Hora, S.C., Probabilistic accident consequence uncertainty study: Uncertainty assessment for deposited material and external doses NUREG/CR-6526, EUR 16772, SAND97-2323, Washington/USA, and Brussels-Luxembourg, 1997, Vol. I, II.

Goossens, L.J.H. , Cooke, R.M., Kraan, B., Ehrhardt, J., Fischer, F., Hasemann, I. , Jones, J.A., Brown, J., A. Khursheed, A. Phipps; Uncertainty from the dose module EUR 18825EN European Commission. Luxembourg 2001, Euratom.

Goossens, L.J.H. , Cooke, R.M., Kraan, B.,Ehrhardt, J., F. Fischer, Hasemann, I., Brown, J., Jones, J.A., J.G. Smith ; Nuclear science and technology. Uncertainty from the food chain module, EUR 18823EN European Commission. Luxembourg 2001, Euratom.

Goossens, L.J.H. , Kraan, B., Cooke, R.M., Jones, J.A., Brown, L., Ehrhardt, J., Fischer, F. , Hasemann, I.,. Methodology and processing techniques, EUR 18827EN European Commission. Luxembourg 2001,Euratom.

Goossens, L.J.H. , Kraan, B., Cooke, R.M., Jones, J.A., Brown, J., Ehrhardt, J., Fischer,F., Hasemann, I., Nuclear science and technology. Overall uncertainty analysis, EUR 18826EN European Commission. Luxembourg 2001, Euratom

Goossens, L.J.H. , Kraan, B., Cooke, R.M., Jones, J.A., Brown, J., Ehrhardt, J., Fischer,F., Hasemann, I., Uncertainty from the atmospheric dispersion and deposition module, EUR 18822EN European Commission. Luxembourg 2001, Euratom.

Goossens, L.J.H. , Kraan, B., Cooke, R.M., Jones, J.A., Ehrhardt, J., Fischer,F., Hasemann, I., Uncertainty from the early and late health effects module, EUR 18824EN European Commission. Luxembourg 2001, Euratom.

Goossens, L.J.H. , Kraan, B., Cooke, R.M., Jones, J.A., Ehrhardt, J., Nuclear science and technology. Countermeasures uncertainty assessment, EUR 18821EN European Commission. Luxembourg 2001, Euratom.

Harper, F.T., L.H.J. Goossens, Cooke, R.M., S.C. Hora, M.L. Young, J. Päsler-Sauer, L.A. Miller, B. Kraan, C. Lui, M.D. McKay, J.C. Helton, and J.A. Jones. Probabilistic accident consequence uncertainty study: Dispersion and deposition uncertainty assessment Prepared for U.S. Nuclear Regulatory Commission and Commission of European Communities NUREG/CR-6244, EUR 15855 EN, SAND94-1453. Washington/USA and Brussels-Luxembourg, November 1994, published January 1995. Volume I: Main report, Volume II: Appendices A and B, Volume III: Appendices C, D, E, F, G, H.

F.E. Haskin, L.H.J. Goossens, F.T. Harper, B.C.P. Kraan and Cooke, R.M., Probabilistic Accident Consequence Uncertainty Study: Early Health Effects Uncertainty Assessment. Prepared for U.S. Nuclear Regulatory Commission and Commission of European Communities, NUREG/CR-6545 EUR 16775 SAND97-2689 Washinton/USA, and Brussels-Luxembourg, 1997, published 1997, Vol. 1. Main ReportVol. 2. Appendices.

Roger Cooke, Jan van Noortwijk, Bijlagen bij het expertmeningenrapport van de onzekerheidsanalyse op de inundatiekans. Rapport ONIN-1-99007, Projectnummer: WB 1083, 1999

Martijn Frijters, Roger Cooke, Karen Slijkhuis, Jan van Noortwijk, Rapport ONIN-1-99006, Expertmeningen onzekerheidsanalyse. Kwalitatief en kwantitatief verslag, Projectnummer: WB 1083, 1999

Cooke, R.M., Van Noortwijk J.M., "Uncertainty Analysis of Inundation Probabilities, Phase 1, TU-Delft Report 37-97, ISSN 0922-5641, Delft 1997.

J. Brown, L.H.J. Goossens, B.C.P. Kraan, Cooke, R.M., J.A. Jones, J. Randall, F.T. Harper, F.E. Haskin, M.L. Abbott, M.L. Young, S.C. Hora and A. Rood, Probabilistic Accident Consequence Uncertainty Analysis, NUREG/CR-6523 EUR 16771, Vol. 1. Main Report June 1997. Vol. 2 Appendices.

L.H.J. Goossens, Cooke, R.M. and B.C.P. Kraan, Evaluation of weighting schemes for expert judgement studies Final report prepared under contract Grant No. Sub 94-FIS;040 for the Commission of European Communities, Directorate-General for Science, Research and Development, XII-F-6. Delft University of Technology, Delft/NL, December 1996, 75 p.

Cooke, R.M., Jager, E., Methods for assessing the failure frequency of underground gas pipelines with historical data and structured expert judgment, Report 96-75. Dept. of Mathematics, Delft University of Technology, 1996.

Van Noortwijk J.M., Kok M. and Cooke R.M., Optimal decisions that reduce flood damage along the Meuse: an uncertainty analysis, publication no. 491, Delft Hydraulics, November 1995

Cooke R.M., Review of SKI data processing methodology, The design of reliability data bases: generic issues Phase 1, SKI report 95:2

Cooke R.M., Dorrepaal J. and Bedford T., Review of SKI data processing methodology, Mathematical Review Phase II, SKI report 95:2.

Harper F.T., Hora S.C., Young M.L., Miller L.A., Lui C.H., McKay M.D., Helton J.C., Goossens L.H.J., Cooke R.M., P"asler-Sauer J., Kraan B., Jones J.A., Probability Accident Consequence Uncertainty Analysis, NUREG/CR-6244 EUR 15855EN SAND94-1453 Vol 1. Main Report January 1995. Vol 2. Appendices A.1 Expert Rationales, Unprocessed Deposition Data and A.2 Expert Rationales, Unprocessed Dispersion Data and B Short Biographies of Dispersion and Deposition Experts. Vol 3. Appendix C: Principles for Probability Assessment, Expert Identification and Selection. Appendix D: Equal and Performance Based Weighting methods for Combining Expert Judgments Appendix E: Inverse Modeling Methods Appendix F: Case Structures Appendix G: Summary of MACCS and COSYMA Consequence Codes Appendix H: Non-Gaussian Information Survey.

Cooke, R.M.; Goossens, L.H.J. and Kraan, B., Methods for CEC/USNRC Accident consequence uncertainty analysis of dispersion and deposition - Performance based aggregating of expert judgments and

PARFUM method for capturing modeling uncertainty, EUR 15856, Luxembourg, June 1995.

Paulsen, J.L. and Cooke R.M., Analysis of 221 Reports using Subsurvival Functions, Riso-I-795(EN), Riso National Laboratory, Roskilde, Denmark May 1994.

Cooke, R., Goossens, L. and Kraan, B., ``Performance Based Aggregating of Expert Judgments and Parfum Method for Capturing Modeling Uncertainty, 1994.

Cooke, R. Bedford, T., Meilijson, I. and Meester, L., ``Design of reliability data bases for aerospace applications", ISSN 09211-5641 Report 93-110 TU Delft, 1993.

Cooke R., "Expert Judgement study on atmospheric dispersion and deposition - main report and annexes", ISSN 0922-5641 Report 91-81 TU Delft, 300 pages, 1991.Annex I "Parameter fitting for uncertain models" with Frank

Vogt 21 pp. Annex II "Expert judgment for uncertainty analysis of accident consequence codes" with H. van der Weide, 30 pp.

Cooke, R. French, S. and van Steen, J. "The use of expert judgement in risk analysis - Report to the European Space Agency" (contract no. 8051/88/NL/re(SC)) 220 p. Delft, 1990.

Final Report to the Dutch Ministry of Housing, Physical Planning and Environment: 1989. Vol. I Expert Judgment in Risk and Safety Studies; Main Report, Goossens, L. Cooke, R. and van Steen, J. 68 pp. Vol. III Model Description Report, Cooke, R., Mendel, M. and van Steen, J. 98 pp. Vol. IV A Theory of Weights for Combining Expert Opinions, Cooke, R. 36 pp. Vol V Case Studies, Cooke, R. and van Steen. 119 pp.

Cooke, R.M.; Van der Horst, J.; Goossens, L. and Hale, A., Accident Sequence Precursor Methodology A feasibility study for the Chemical Process Industries: Report to the Ministry of Housing, Physical Planning and Environment, Delft, 1987.

Refereed International Journals

Kousky, C. and R. Cooke (2012). "Explaining the Failure to Insure Catastrophic Risks." The Geneva Papers on Risk and Insurance - Issues and Practice, 37(2): 206-227.

Gradowska, P. and Cooke, R.M. (2012) "Least squares type estimation for Cox regression model and specification error ", accepted for publication in Computational statistics and Data Analysis.

Kousky, C., Kopp, R. E., and R. M. Cooke (2011). "Risk Premia and the Social Cost of Carbon: A Review." Economics: The Open-Access, Open-Assessment E-Journal, Vol. 5, 2011-21. http://dx.doi.org/10.5018/economics-ejournal.ja.2011-21

Rothlisberger,J.D. Finnoff, D.C. Cooke,R.M. and Lodge, D.M. (2012) "Ship-borne nonindigenous species diminish Great Lakes ecosystem services" accepted for publication in Ecosystems.

Krewski, D., Desjardins, C.M., Oraby, T. Darshan, S. Aspinall, W. Cooke, R.M. ElSaadany, S. (2012) "Expert Judgment and Re-Elicitation for Prion Disease Risk Uncertainties" appearing in *International Journal of Risk Assessment and Management*.

Julie J.C.H. Ryan , Thomas A. Mazzuchi ,_, Daniel J. Ryan, Juliana Lopez de la Cruz, Cooke, R.M.,(2012) "Quantifying information security risks using expert judgment elicitation" Computers and Operations Research Journal , 39, (2012) 774–784.

Villie Flari, Qasim Chaudhry, Rabin Neslo and Roger Cooke (2011) Expert judgment based multi-criteria decision model to address uncertainties in risk assessment of nanotechnology-enabled food products *J Nanopart Res (2011) 13: 1813–1831; DOI 10.1007/s11051-011-0335-x*

Cooley, D. Holmes PT, Galik, CS, Kousky, C. and Cooke, R.M.(2011) "Managing Dependencies in Forest Offset Projects: Toward a More Complete Evaluation of Reversal Risk", appearing in Mitigation and Adaptation Strategies for Global Change DOI: 10.1007/s11027-011-9306-x

Neslo R.E.J, and Cooke, R.M.,(2011) "Modeling and Validating Stakeholder Preferences with Probabilistic Inversion" appearing in Applied Stochastic Models in Business and Industry.

Cooke, Roger M. (2011) "Response to Conundrums Letter", Risk Analysis 2011

Kurowicka, D. Bucura, C. Cooke, R.M. and Havelaar, A. (2010) Probabilistic Inversion in Priority Setting of Emerging Zoonoses, Risk Analysis, Vol. 30, No. 5, 2010 DOI: 10.1111/j.1539-6924.2010.01378.x

Kurowicka, D. Nauta, M. Jozwiak,, K. 1 and Cooke, R.M. (2010) " Updating Parameters of the Chicken Processing Line Model" Risk Analysis, Vol. 30, No. 6, 2010 DOI: 10.1111/j.1539-6924.2010.01379.x

Sarah J. Teck, Benjamin S. Halpern, Carrie V. Kappel, Fiorenza Micheli, Kimberly A. Selkoe, Caitlin M. Crain, Rebecca Martone, Christine Shearer, Joe Arvai, Baruch Fischhoff, Grant Murray, Rabin Neslo, and Roger Cooke (2010) Using expert judgment to estimate marine ecosystem vulnerability in the California Current, . Ecological Applications, 20(5), 2010, pp. 1402–1416 2010 by the Ecological Society of America

Michael G. Tyshenko, Susie ElSaadany, Shalu Darshan, Willy Aspinall, Roger Cooke, Tamer Oraby and Daniel Krewski (2010) "Expert Elicitation for the Judgment of Prion Disease Risk Uncertainties using the Classical Model and EXCALIBUR " accepted Journal of Toxicology and Environmental Health

Michael G. Tyshenko, Susie ElSaadany, Tamer Oraby, Shalu Darshan, Angela Catford, Willy Aspinall, Roger Cooke, and Daniel Krewski (2010) Comparative Expert Judgment Elicitation using the Classical Model and EXCALIBUR Under Conditions of Uncertainty for Prion Disease Risks ",accepted Journal of Toxicology and Environmental Health

Cooke, R.M. (2010) "Conundrums with uncertainty factors" Risk Analysis, Vol. 30, No. 3, 330-338, 2010.

Cooke, R.M. (2010) "Response to reviewers" Risk Analysis, vol. 30 No. 3, 353,, 2010.

Rothlisberger, J.D., Lodge, D.M. Cooke, R.M. and Finnoff, D.C. (2009) "Future declines of the binational Laurentian Great Lakes fisheries: recognizing the importance of environmental and cultural change" Frontiers in Ecology and the Environment**; doi:10.1890/090002**

Hanea, A.M., Kurowicka, D.,, Cooke, R.M., and D.A. Ababei (2009), Mining and visualising ordinal data with non-parametric continuous BBNs , Computational Statistics and Data Analysis, http://dx.doi.org/10.1016/j.csda.2008.09.032

Ale, B.J.M. Bellamy, L.J. , Boom, R. van der, Cooper, J., Cooke, R.M., Goossens, L.H.J., Hale, A.R., Kurowicka, D., Morales, O. Roelen, A.L.C. and Spouge, J. . " Further development of a Causal model for Air Transport Safety (CATS); Building the mathematical heart." Reliability Engineering & System Safety, Vol. 94, No. 9. (September 2009), pp. 1433-1441. doi:10.1016/j.ress.2009.02.024 Key: citeulike:5143231

Arie H. Havelaar, Ángela Vargas Galindo, Dorota Kurowicka, Roger M. Cooke Attribution of Foodborne Pathogens Using Structured Expert Elicitation, Foodborne Pathogens and Disease, October 2008, 5(5): 649-659. doi:10.1089/fpd.2008.0115

Cooke, R.M. and MacDonell, M. (2008) "Regulating under Uncertainty: Newsboy for exposure limits" Risk Analysis vol. 28 no. 1.

Kurowicka, D., Cooke, R.M. Goossens, L. and Ale, B.J.M, Expert Judgment study for Placement Ladder Bowtie, Safety Science, 2007

Lewandowski, D. Cooke, R.M. and Duintjer Tebbens, R.J. "Sample Based Estimation of Correlation Ratio with Polynomial Approximation" Transactions on Modeling and Computer Simulation, vol. 18 no.1, article 3, 2007.

Radboud J. Duintjer Tebbens, Kimberly M. Thompson, M.G. Myriam Hunink, M.D., Thomas M Mazzuchi, Daniel Lewandowski, Dorota Kurowicka, Cooke, R.M.,"Uncertainty And Sensitivity Analyses Of A Dynamic Economic Evaluation Model For Vaccination 3 Programs" Medical Decision Making 2008 .

Goossens, L.H.J., Cooke, R.M., Hale, A.R, Rodic´-Wiersma, L., Fifteen years of expert judgement at TU Delft Safety Science 46 (2008) 234–244

Cooke, R.M. (2008) Special issue on expert judgment, Editor's Introduction Reliability Engineering & System Safety, 93, Available online 12 March 2007, Volume 93, Issue 5, May 2008, Pages 655-656

Cooke, R.M., ElSaadany, S., Xinzheng Huang, X. (2008) On the Performance of Social Network and Likelihood Based Expert Weighting Schemes, Special issue on expert judgment Reliability Engineering & System Safety, 93, 745-756, Available online 12 March 2007, Volume 93, Issue 5, May 2008.

Cooke, R.M., Goossens, L.H.J. (2008) TU Delft Expert Judgment Data Base, Special issue on expert judgment Reliability Engineering & System Safety, 93, 657-674, Available online 12 March 2007, Issue 5, May 2008.

Cooke, R.M.,. (2008) Response to Comments, Special issue on expert judgment Reliability Engineering & System Safety, 93, 775-777, Available online 12 March 2007. Volume 93, Issue 5, May 2008.

Cooke, R.M. Wilson,A.M., Tuomisto,J.T. Morales,O. Tainio,M. and Evans, J.S.. (2007) A Probabilistic Characterization of the Relationship Between Fine Particulate Matter and Mortality: Elicitation of European Experts. Environmental Science and Technology 2007 Sep 15;41(18): pp 6598-6605.

Kurowicka, D.,, Cooke, R.M. (2007) Sampling algorithms for generating joint uniform distributions using the vine-copula method, , Comp. Stat. & Data Analysis, Volume 51 , Issue 6 (March 2007)

Papaefthymiou, P.H. Schavemaker, L. van der Sluis, W.L. King, Kurowicka, D.,, Cooke, R.M.; (2006)"Integration of stochastic generation in power systems" Electrical Power and Energy Systems 28 (2006) 655-667

Du C., Kurowicka D., Cooke R.M.(2006) Techniques for generic probabilistic inversion, Comp. Stat. & Data Analysis (50) 2006, 1164-1187.

Kurowicka D., Cooke R.M. (2006) Completion Problem with Partial Correlation Vines, Linear Algebra and Its Applications,, vol. 418, nr 1, pp 188-200, 2006.

Cooke R.M. and Morales, O. "Competing Risk and the Cox proportional hazard model", (2006) Journal of Statistical Planning and Inference vol. 136, no 5 , pp. 1621-1637, 2006,

Cooke, R.M. Nauta. M., Havelaar, A.H. and van der Fels, H.J. (2006) "Probabilistic inversion for chicken processing lines" Reliability Engineering and System Safety, 91 pp 13674-1372, 2006.

Hanea, A.M., Kurowicka, D. and Cooke, R.M. " Hybrid Method for Quantifying and Analyzing Bayesian Belief Nets" (2006) Quality and Reliability Engineering International 22,709-729, 2006.

Tuomisto JT, Wilson A, Cooke RM, Tainio M, Evans J.S. "Mortality in Kuwait due to PM from oil fires after the Gulf War: Combining expert elicitation assessments" (2005) Epidemiology, Volume 16 (5) September 2005 p. S74-S75

Evans JS, Wilson A, Tuomisto JT, Tainio M, Cooke RM (2005) "What risk assessment can tell us about the mortality impacts of the Kuwaiti oil fires" Epidemiology, Volume 16 {5} September 2005 p.S137-S138

Cooke, R.M. Bosma, A. and Härte,F.(2005) " A practical model of Heineken's bottle filling line with dependent failures" European Journal of Operational Research, Volume 164, Issue 2, 16 July, Pages 491-504

Van der Fels-Klerx, H.J., Cooke, R.M., Nauta, M.J., Goossens, L.H.J., Havelaar, A.H. "A Structured Expert Judgement Study For A Model of Campylobacter Transmission During Broiler Chicken Processing" Risk Analysis 25 No. 1, 2005, pp 109-124.

Shrader-Frechette, K. and Cooke, R.M. Ethics and Choosing Appropriate Means to an End: Problems with Coal Mine and Nuclear Workplace Safety, Risk Analysis, volume 24, no. 1, 2004 pp 147-156.

Cooke, R.M. and Goossens L.H.G. "Expert judgement elicitation for risk assessments of critical infrastructures" Journal of Risk Research vol. 7 issue 6, 2004, ISSN 1366-9877, pp 643-657.

Cooke, R.M. " The anatomy of the Squizzle - the role of operational definitions in science" Reliability Engineering and System Safety 85, 2004, 313-319.

Kurowicka, D., & Cooke, R.M.," A Parametrization of Positive Definite Matrices in Terms of Partial Correlation Vines", in Linear Algebra and its Application 372 (2003) 225-251. Published by Elsevier Inc. doi:10.1016/S0024-3795(03)00507-X

Cooke, R.M., Kurowicka, D.,, I. Meilijson "Linearization of local probabilistic sensitivity via sample re-weighting" Reliability Engineering and System Safety", 79, 2003 pp. 131-137; Published by Elsevier Science Ltd. PII: S0951 - 8320(02)00223-5.

Cooke, R.M.,Book Review Elicitaton of expert opinions for uncertainty and risks Elsevier, Fuzzy Sets and Systems 133 (2003), page 267-268, ISBN 0-8493-1087-3

J.G. Norstrom, Cooke, R.M., T. Bedford " Value of information based design of control software" Reliability Engineering and System Safety", 77 (2002) 291-300, Published by Elsevier Science Ltd. PII: S09 1-8320(02)00062-5

Cooke, R.M. & Bedford, T.J.,: "Reliability Data Bases in perspective", IEEE Trans. Reliab., Vol 51 no3 294-311. 2002.

Bedford, T.J., & Cooke, R.M., "Vines - a new graphical model for dependent Random Variables"- in Annals of Statistics, vol. 30, No.4, August 2002.

Jolanta K. Misiewicz and Roger Cooke "Simple fractions and Linear decomposition of some convolutions of measures" Probability and Statistics, 21, 2001, 149-157.

K.M. Thompson, R.F. Rabouw and Cooke, R.M.; The risk of groundlings fatalities form unintentional airplane crashes. In: Risk analysis, Vol : 21,6, 2001, p. 1025-1037. ISSN: 0272-4332

Siekmann S., R. Kruse, J. Gebhardt, P. Overbeek, Cooke, R.M.; Information fusion in the context of stock index prediction. In: I. Bloch, A. Hunter (eds.); International journal of intelligent systems, Vol : 16, 11, 2001, p. 1285-1298. ISNN: 0884-8173

Cooke R.M., P. Smets "Self-conditional probabilities and probabilistic interpretations of belief functions, In: Annals of Mathematics and Artificial Intelligence, Vol : 32, 2001, p. 269-285. ISSN:1012-2443

Bedford, T.J. and Cooke, R.M. "Probability density decomposition for conditionally dependent random variables modelled by Vines, " Annals of Mathematics and Artificial Intelligence, Volume 32 (2001) Nos.1-4, ISSN 1012 2443, pp 245-268

J.K. Misiewicz and Cooke, R.M.."Isotropic sequence of random variables and stochastic rescaling" In: Theoretical Probability and Mathematical Statist, Vol: 20, 2000, p. 151-157. ISSN: 0868-6904

B.C.P. Kraan, Cooke, R.M., ``Uncertainty in compartmental models for hazardous materials-a case study. 71 (2000) 253-268 ``Journal of hazardous materials" Elsevier Science BV.ISSN0304-3894

Cooke R.M. and Van Noordwijk J.M.,"Generalized graphical Methods for uncertainty and sensitivity analysis"., page 54 - 57. Bashkir ecological journal 1 (8) 2000, Special Issue Problems of risk estimation and reduction in exceptional circumstances of natural and technogenic character for population of industrial regieus.In Russian.

J.M. van Noortwijk, Cooke, R.M. and J.K. Misiewicz. "Characterizations of scale Mixtures of gamma Processes in terms of sufficiency and isotropy" Journal of Mathematical Sciences Vol. 99, No. 4, 2000. page 1469-1475, 1072-3374/00/9904-1469

B.C.P. Kraan and Cooke, R.M.. "Processing Expert Judgements in Accident Consequence Modeling". Radiation Protection Dosimetry Vol. 90 No. 3, 2000.ISBN 1 870965 64 7.

Cooke, R.M. and L.H.J. Goossens. "Procedures Guide for Structured Expert Judgement in Accident Consequence Modeling", Radiation Protection Dosimetry Vol. 90 No. 3.2000.ISBN 1 870965 64 7, page 303-311.

Lennaert J.P. Speijker, Jan. M. van Noortwijk, Matthijs Kok, Cooke, R.M.,"Optimal Maintenance Decisions for Dikes" Probability in the Engineering and Informational Science 14, 2000, 101-121, Printed in USA, Cambridge University Press, 0269-9648/00.

Cooke, R.M., Bedford, T., "A new generic model for applying MAUT" European Journal of Operational Research 118, 589-604, 1999.

Cooke, R.M., Noortwijk, J.M. van, "Local probabilistic sensitivity measures for comparing FORM and Monte Carlo calculations illustrated with dike ring reliability calculations", Computer Physics Communications 115, 1-12, 1998.

Goossens, L.H.J., Cooke, R., Woudenberg, F. and van der Torn, P. "Expert judgement and lethal toxicity of inhaled chemicals" Journal of Risk Research Vol. 1 (2), pp. 117-133, 1998.

Cooke, R.M. & Jager, E. "Failure Frequency of Underground Gas Pipelines", In Risk Analysis, vol. 1, no 4, 511-527, 1998.

Bedford T, Cooke, R.M., "Reliability methods as management tools: dependence modeling and partial missions success", Reliability Engineering and Systems Safety, 58, 1997 p. 173-180, ISSN 0951-8320.

Goossens, L.H.J., Cooke, R.M., ``Applications of some risk assessment techniques: Formal expert judgment and accident sequence precursors'',   Safety Science Vol. 26, no. 1/2, pp. 35-47, 1997.

Cooke, R.M. ``Uncertainty modeling: examples and issues'', Safety Science Vol. 26, no. 12, pp. 49-60, 1997.

Cooke, R.M. & Paulsen, J. "Concepts for Measuring Maintenance Performance and Methods for Analysing Competing Failure Modes", Reliability Engineering and System Safety, Vol. 55, no. 2, p. 135-141, 1997. Selected from Proceedings ESREL 94, 9th International Conference Reliability and Maintainability 30/5/94.

Kraan, B., and Cooke, R. "Post-Processing Techniques for the joint CEC/USNRC Uncertainty Analysis of Accident Consequence Codes". Journal of Stat. Comp. and Simulation, Vol. 57, nos. 1-4, pp. 243-261, 1996.

Cooke, R.M. "Guest Editorial". Reliability Engineering and System Safety, vol. 51 no. 2, p. 123, 1996.

Cooke, R.M. "The Design of Reliability Data Bases, Part I: Review of Standard Design Concepts". Reliability Engineering and System Safety, vol. 51 no. 2, p. 137-146, 1996.

Cooke, R.M. "The design of Reliability Data Bases, Part II: Competing Risk and Data Compression". Reliability Engineering and System Safety, vol. 51 no 2, p. 209-223, 1996.

Goossens, L.H.J., Cooke, R.M., Woudenberg, F., and van der Torn, P. "Probit relations of hazardous substances through formal expert judgement". Loss Prevention and Safety Promotion in the Process Industries, vol. II,, p. 173-182, 1995, Elsevier Science B.V.

Cooke, R.M. "Coherent combination of experts' opinions: Discussion", Test, vol. 4 no. 2, p. 285, 1995.

v. Noortwijk, J.M., Cooke, R.M., and Kok, M. "A Bayesian failure model based on isotropic deterioration", European Journal of Operational Research 82, p. 270-282, 1995.

Paulsen, J., Cooke, R., and Nyman, R. "Comparative Evaluation of Maintenance Performance using Subsurvival Functions" Reliability Engineering and System Safety, 1996. Selected from Proceedings ESREL 95. 10th International Conference on Reliability and Maintainabilities, Bournemouth June 1995.

Cooke, R.M., Coherent combination of expert opinions, Test 4, 1995, p. 293-296.

Cooke, R.M. "Uncertainty in dispersion and deposition in accident consequence modeling assessed with performance-based expert judgment", Reliability Engineering and System Safety 44, p. 35-46, 1994.

Cooke, R. "Parameter fitting for uncertain models: modeling uncertainty in small models", Reliability Engineering and System Safety, vol 44, 1994, 89-102.

Cooke, R.M. "The total time on test statistic and age-dependent censoring", Statistics & Probability Letters 18, 1993, 307-312.

v. Noortwijk, J. , Dekker, R. Cooke, R. and Mazzuchi, T. "Expert Judgment in Maintenance Optimization", Trans. IEEE on Reliability, vol 41 no 3, 1992, p. 427-432.

Wang, X. and Cooke, R. "Optimal Inspection Sequence in Fault Diagnosis", Reliability Engineering and System Safety 37, 206-210, 1992.

Bhola, B., Cooke, R., Blaauw, H., and Kok, M. "Expert opinion in project management" European Journal of Operations Research 57, p. 1-8, 1991.

French, S., Cooke R., and Wiper, M. "The use of expert judgment in risk assessment", Bulletin of the institute of mathematics and its applications, vol. 27 no. 3 march 1991, pp. 36-40; also published in Bayesian Methods in Reliability (eds. M. Newby and P. Sander) p. 119-134.

Cooke, R.M. and Goossens, L., "The Accident Sequence Precursor Methodology for the Post-Seveso Era in Europe", Reliability Engineering and System Safety, 27, p. 117-130, 1989.

Cooke, R.M., "Entropy and Experts", Reliability Engineering and System Safety, 26 1989.

Cooke, R.M. and Pinter, J. "Optimization in Risk Management". Civil Engineering Systems, 1989, p. 122-128.

Cooke, R.M. "Uncertainty in Risk Assessment" Reliability Engineering and System Safety 23 227-233, 1988.

Cooke, R.M., Mendel, M., Thijs, W., "Calibration and Information in Expert Resolution". Automatica, 24, 1, 87-94, 1988.

Cooke, R.M., "Problems with Empirical Bayes", Risk Analysis vol. 6 nr. 3, 1986. pages 269-272.

Cooke, R.M., Waij, R., Monte Carlo Sampling For Generalized Knowledge Dependence, with application to Human Reliability". Risk Analysis, vol. 6 nr. 3, 1986, pages 335-343.

Cooke, R.M., "Conceptual Fallacies in Subjective Probability" Topoi 5, 1986, p. 21-28.

Cooke, R.M., Keane, M., and Moran, W., "An Elementary Proof of Gleason's Theorem" Mathem. Proc. Camb. Phil. Soc. 1985, 98, pages 117-128.

Cooke, R.M., "Price-Anderson Revisited", Risk Analysis, Vol. 4, nr. 3 (september 1984), pages 155.

Cooke, R.M., and Draaisma, H., "A Method of Weighing Qualitative preference Axioms in Subjective Probability", Journal of Mathematical Psychology, vol. 28, 1984, pages 436-477.

Cooke, R.M., A Result in Renyi's Conditional Probability Theory With Application to Subjective Probability, Journal of Philosophical Logic, May 1983, p. 19-32.

Cooke, R.M., and van Lambalgen, M., The Representation of Takeuti's operator, Studia Logica no. 4, 1983, p. 407-415.

Cooke, R.M., Risk Assessment and Rational Decision Theory, Dialectica, 1982, p. 329-35.

Cooke, R.M., A Paradox in Hempel's Criterion of Maximal Specificity, Philosophy of Science 48, 1981, no. 2, p. 327-328.

Cooke, R.M., A Trivalization of Nagel's definition of Explanation for statistical laws. Philosophy of Science 47, 1980, p. 644-645.

Cooke, R.M. and Hilgevoord, J., The Algebra of Physical Magnitudes, Foundations of Physics 10, 1980 no. 5/6 p. 363-373.

Cooke, R.M. and Hilgevoord, J., Correspondence, Equivalence and Completeness Epistemological Letters, March 1979, p. 42-54.

Cooke, R.M., The Friedman-Putnam Realism, Epistemological Letters, October 1979, p. 37-40.

Refereed Proceedings of International Conferences and Book Contributions

Kappel, C.V.,Halpern, B.S. Selkoe, K.A. Cooke,R.M 2012. Eliciting expert knowledge of ecosystem vulnerability to human stressors to support comprehensive ocean management. In: Expert knowledge and landscape ecological applications. A.J. Perera, C.A. Drew, and C.J. Johnson (eds.). Springer, New York. http://www.springer.com/life+sciences/ecology/book/978-1-4614-1033-1

Kurowicka, D. and Cooke, R.M. (2011) "Vines and continuous non-parametric Bayesian belief nets, with emphasis on model learning" appearing in Klaus Boecker (ed) Re-Thinking Risk Measurement and Reporting, Uncertainty, Bayesian Analysis and Expert Judgement, pp 273-294, Risk Books, London

Kousky, C. and Cooke, R.M. (2011) "The Limits of Securitization Micro-correlations, Fat Tails and Tail Dependence" appearing in Klaus Boecker (ed) Re-Thinking Risk Measurement and Reporting, Uncertainty, Bayesian Analysis and Expert Judgement, pp 295-330, Risk Books., London.

Cooke, R.M., Joe, H. and Aas, K. (2010) Vines Arise, in Kurowicka and Joe (eds) Dependence Modeling: Handbook on Vine Copulae, World Scientific, Singapore, 978-981-4299-87-9, 981-4299-87-1

Cooke, R.M., Kousky C. and Joe, H (2010) Micro Correlations and Tail Dependence, in Kurowicka and Joe (eds) Dependence Modeling: Handbook on Vine Copulae, World Scientific, Singapore, 978-981-4299-87-9, 981-4299-87-1

Joe, H., Cooke R.M., and Kurowicka, D. (2010) Regular vines: Generation Algorithm and Number of Equivalent Classes in Kurowicka and Joe (eds) Dependence Modeling: Handbook on Vine Copulae, World Scientific, Singapore, 978-981-4299-87-9, 981-4299-87-1

Cooke, RM (2009). Obtaining distributions from groups for decisions under uncertainty. In T Williams, K Sunnevag & K Samset (Eds.), Making essential choices with scant information / front-end decisions making in major projects (pp. 257-274). Pelgrave Macmillan Publishers, Houndmills.

Neslo, REJ Micheli, F , Kappel, CV , Selkoe, KA , Halpern, BS & Cooke, RM (EWI Ch. Risk Analysis) (2009). Modeling stakeholder preferences with probabilistic inversion; Application to prioritizing marine ecosystem vulnerabilities. In I Linkov, E Ferguson & VS Magar (Eds.), Real-Time and Deliberative Decision Making (3) (pp. 265-284). Dordrecht, Netherlands: Springer.

Cooke, R.M. and MacDonell, M. (2009) "Introduction" in Uncertainty Modeling in Dose Response: Bench Testing Environmental Toxicity Wiley, New York, pp 1-16. ISBN 978-479-44750-5

Cooke, R.M. (2009) "Uncertainty Modeling in dose Response Using Probabilistic Inversion with Isotonic Regression; Bench Test Results" in Uncertainty Modeling in Dose Response: Bench Testing Environmental Toxicity Wiley, New York, pp 51-81, ISBN 978-479-44750-5

Cooke, R.M. (2009) "Statistical Tests for Statistics-as-Usual Confidence Bands" in Uncertainty Modeling in Dose Response: Bench Testing Environmental Toxicity Wiley, New York, pp45-46, ISBN 978-479-44750-5

Cooke, R.M. (2009) "Math/stats Perspective on Non-Parametric Bayes" in Uncertainty Modeling in Dose Response: Bench Testing Environmental Toxicity Wiley, New York, pp 147-150, ISBN 978-479-44750-5

Goossens, LHJ & Cooke, RM (2008). Twenty years of experience with expert judgments. In Enrico.Zio, Vincent Ho Tsu-Mu Kao (Ed.), Int. Conference on Probalistic Safety Assessment and Management (pp. 1-8). Hong Kong: Edge Publication Group Limited.

Ale, BJM, Bellamy, LJ, Boom, R van den, Cooke, RM, Goossens, LHJ, Hale, AR, Kurowicka, D, Lin, PH, Morales-Napoles, O, Roelen, ALC, Cooper, J & Spouge, J. (2008). Further development of a causal model for air transport safety (CATS); the complete model. In Enrico.Zio, Vincent Ho Tsu-Mu Kao (Ed.), Int. Conference on Probabilistic Safety Assessment and Management (pp. 1-8). Hong Kong: Edge Publication Group Limited. (TUD)

Rabin Neslo, Fiorenza Micheli, Carrie V. Kappel, Kimberly A. Selkoe, Benjamin S. Halpern Roger M. Cooke "Modeling Stakeholder Preferences with Probabilistic Inversion: Application to Prioritizing Marine ecosystem Vulnerabilities" appeaing in Linkov, I., Ferguson, E., Magar, V. (in press). Real Time and Deliberative Decision Making: Application to Risk Assessment for Non-chemical Stressors. Springer, Amsterdam, pp 248-271.

Cooke, R.M. "Obtaining distributions from Groups for Decisions under Uncertainty", Appearing in Making decisions with scant information - front-end decision-making in major projects, T. Williams, K. Samset and K. Sunnevag

Cooke, R.M. "The Cox Proportional Hazard Model" in Encylopedia of Statistics in Quality and Reliability, Wilely, New York, published online Mach 15, 2008.

A.M.Hanea & D.Kurowicka & Cooke, R.M. The population version of Spearman's rank correlation coefficient in the case of ordinal discrete random variables" Third Brazilian conference on statistical Modelling in Insurance and Finance, Maresias, March 25-30, 2007 http://www.ime.usp.br/~ubatuba/3rd/

D.A.Ababei & D.Kurowicka & Cooke, R.M. Uncertainty Analysis with UNICORN Third Brazilian conference on Statistical Modelling in Insurance and Finance, Maresias, March 25-30, 2007 http://www.ime.usp.br/~ubatuba/3rd/

Cooke, R.M. Vines in Overviews Invited Paper: Third Brazilian conference on statistical Modelling in Insurance and Finance, Maresias, March 25-30, 2007 http://www.ime.usp.br/~ubatuba/3rd/

Cooke, R.M. (2007) "Stakeholder Preference Elicitation" in I. Linkov et al, (eds) Environmental Security in Harbors and Coastal Areas, Springer, pp 149-160.

Kurowicka, D., Cooke, R.M. Goossens, L. and Ale, B.J.M. (2006) "Expert judgment study for placement ladder bowtie" Safety and Reliability for Managing Risk" Guedes Soares & Zio (eds) Taylor and Francis Group, London ISBN 0-415-41620-56 p. 21-27.

Kurowicka, D., Cooke, R.M. Goossens, L. and Ale, B.J.M. (2006) "Quantification with imperfect data from different sources" Safety and Reliability for Managing Risk" Guedes Soares & Zio (eds) Taylor and Francis Group, London ISBN 0-415-41620-56 p. 897-904. 05-79374

B.J.M. Ale, L.J. Bellamy, A.L.C. Roelen, Cooke, R.M., L.H.J.Goossens A.R. Hale, Kurowicka, D.,, E. Smith Development of a causal model for air transport safety, Proceedings of IMECE2005, 2005 ASME International Mechanical Engineering Congress and Exposition November 5-11, 2005, Orlando, Florida USA IMECE2005-79374

Morales-Napoles, O., Hanea, A. Kurowicka, D., and Cooke, R.M. (2006) "Causal modeling in the aviation industry: an application for controlled flight into terrain", Safety and Reliability for Managing Risk" Guedes Soares & Zio (eds) Taylor and Francis Group, London ISBN 0-415-41620-56 p. 1831-1838.

Speijker, L.J.P., Vidal, A., Cooke R.M. (2006) "Safety assessment of ATC-wake singly runway departures" Safety and Reliability for Managing Risk" Guedes Soares & Zio (eds) Taylor and Francis Group, London ISBN 0-415-41620-56 p. 1851-1861..

Kurowicka D. and Cooke, R.M. "Distribution - Free Continuous Bayesian Belief Nets" Modern Statistical and Mathematical Mathematical Methods in Reliability. (A. Wilson, N. Limnios, S. Keller-McNulty, Y. Armijo, eds) 309-323, 2005

B.J.M. Ale, L.J. Bellamy, Cooke, R.M., L.H.J. Goossens, A.R. Hale & Kurowicka, D.,, A.L.C. Roelen, E. Smith Development of a causal model for air transport safety, Advances in Safety and Reliability – Kołowrocki (ed.)© 2005 Taylor & Francis Group, London, ISBN 0 415 38340 4

Kurowicka, D. and Cooke, R.M. "Non parametric continuous Bayesian belief nets with expert judgement" Probabilistic Safety Assessment and Management 2004 C. Spitzer, U.Schmocker, V.N. Dang (eds) Springer, London, 2004, 2784-2790.

van der Fels, H.J. Havelaar, A.H., Nauta, M.J. , Goossens, L.H.J. and Cooke R.M. " CARMA: food safety and expert judgement", Probabilistic Safety Assessment and Management 2004 C. Spitzer, U.Schmocker, V.N. Dang (eds) Springer, London, 2004, 1541-1552.

Roelen, A.L.C., Wever, R. Cooke, R.M., Lopuhaa, R., Goossens, L.H.J. "Aviation causal model using Bayesian Belief Nets to quantify management influence" Proceedings ESREL 2003, T. Bedford and P.H.A.J.M van Gelder (eds) Balkema, Lisse, (1315-1321) 2003. ISBN 90 5809 551 7.

Roelen, A.L.C., Wever, Hale, A. R., Goossens, L.H.J. Cooke, R.M., Lopuhaa, R.,M. Simons and P.J.L. Valk "Causal modeling for integrated safety at airports" Proceedings ESREL 2003, T. Bedford and P.H.A.J.M van Gelder (eds) Balkema, Lisse, (1321-1329) 2003. ISBN 90 5809 551 7.

Bunea, C., Charitos, T. Cooke, R.M. and Becker, G. "Two stage Bayesian model - application to ZEDB project" Proceedings ESREL 2003, T. Bedford and P.H.A.J.M van Gelder (eds) Balkema, Lisse, (321-331) 2003. ISBN 90 5809 551 7.

Bunea, C., Cooke, R.M., Mazzuchi, T.A. and Becker, G. "A non-parametric two stage Bayesian model using Dirichlet distribution" Proceedings ESREL 2003, T. Bedford and P.H.A.J.M van Gelder (eds) Balkema, Lisse, (331-339) 2003. ISBN 90 5809 551 7.

Callies, U., Kurowicka, D. and Cooke, R.M. "Graphical models for the evaluation of multisite temperature forecasts: comparison of vines and independence graphs" Proceedings ESREL 2003, T. Bedford and P.H.A.J.M van Gelder (eds) Balkema, Lisse,, (363-373) 2003. ISBN 90 5809 551 7.

Roger M. Cooke and Karen A. Slijkhuis "Expert Judgment in the Uncertainty Analysis of Dike Ring Failure Frequency" Case Studies in Reliability and Maintenance. Edited by Wallace R. Blischke, D.N. Prabhakar Murthy; p. 331-352, ISBN: 0-471-41373-9, 2003, John Wiley and Sons, Inc.

Cooke, R.M.,Eric Jager and D. Lewandowski "Reliability Model for Underground Gas Pipelines" Case Studies in Reliability and Maintenance. Edited by Wallace R. Blischke, D.N. Prabhakar Murthy; p. 423-446, ISBN: 0-471-41373-9, 2003, John Wiley and Sons, Inc.

Kurowicka, D.,, and Cooke, R.M., "The vine copula method for representing high dimensional dependent distributions: applications to continuous belief nets" Proceedings of the 2002 Winter Simulation conference, E. Yucesan, C.H. Chen, HJ.L. Snowdon, and J.M Charnes, eds; Dec. 8-11 2002, San Diego, CA.

C. Bunea, Cooke, R.M., and B. Lindqvist "Competing risk perspective over reliability data bases" Mathematical and Statistical Methods in Relibiity (B.H. Lindqvist and K.A.Doksum eds), World Scientific Publishing, Singapore, 2003,p 355-370.

C. Bunea, Cooke, R.M., and B. Lindqvist, "Maintenance study for components under competing risks" European Safety and Reliabiloity conference ESREL, 2002, Lyon, France, 18-21 March, Safety and Reliability Vol. 1 p 212-217.

C. Bunea, Cooke, R.M., and B. Lindqvist, "Analysis tools for competing risk failure data" European Network for Business and Industrial statistics, ENBIS, 2002, Rimini, Italy, September 23,24.

Kurowicka, D.,, and Cooke, R.M., "Techniques for generic probabilistic inversion" Probabilistic Safety Assessment and Management E.J. Bonano, A.L. Camp, M.J. Majors, R.A. Thompson (eds),Elsevier, 2002; 1543-1550.

M.J. Kallen and Cooke, R.M.,"Expert aggregation with dependence" Probabilistic Safety Assessment and Management E.J. Bonano, A.L. Camp, M.J. Majors, R.A. Thompson (eds),Elsevier, 2002; 1287-1294.

Cooke, R.M., E. Jager, D. Lewandowski "Reliability model for underground gas pipelines" Probabilistic Safety Assessment and Management E.J. Bonano, A.L. Camp, M.J. Majors, R.A. Thompson (eds),Elsevier, 2002; 1045-1050.

L.H.J. Goossens and Cooke, R.M. "Expert Judgement elicitation in risk assessment. In: I Linkov, J. Palma-Oliveria (eds.); Proceedings. NATO Advanced Research Workshop on Assessment and Management of Environmental Risks: Methods and Applications in Eastern European and Developing Countries (Lisbon, Oct. 1-4, 2000), Kluwer Academic Publisher, Dordrecht, 2001, p. 411-426. ISBN: 1-4020-0025-1

Roger Cooke and Daniel Lewandowski; Bayesian Sensitivity Analysis" System and Bayesian Reliability, Vol. 5, Series on Quality, Reliability & Engineering Statistics. Editors: Yu Hayakawa, Telba Irony, Min Xie; Blz. 315 - 331; ISBN:981-02-4865-2; 2001

Farit M. Akhmedjanov, Roger M.Cooke, Victor G.Krymsky, and Jette L.Paulsen.;`` Competing Risks in Maintenance in Planning:Technique for Decision Support" ; ASMDA 2001 10th International Symposium on Applied Stochastic Models and Data Analysis, Volume 1/2, June 12-15 2001 Universit'e de Technologie de Compi'egne France. Geen ISBN-nummer bekend; pag 83-88.

J.G. Norstrom, R. Cooke and T. Bedford; Value of Information Based Design of Control Software; In: E. Zio, M. Demichela, N. Piccinini (eds.); Proceedings ESREL 2001. European Conference on Safety and Reliability. Safety and Reliability; towards a safer world (Torino, 16-20 Sept. 2001), Politecnico di Torino, Torino, 2001, p. 419-426. ISBN: 88-8202-099-1

T. Bedford and Cooke, R.M.; Monte Carlo Simulation of Vine Dependent Random Variables for Applications in Uncertainty Analysis; European Safety and Reliability Conference, ESREL 2001, Torino, Italy, 16-20 september 2001; In: Safety and Reliability, 2st volume, Edited by: Enrico Zio, Micaela Demichela, Norbeto Piccinini, ISBN 88-8202-099-2, 2001, pp 863-870

R.F. Rabouw, K.M. Thompson and Cooke, R.M.; The Aviation Risk to Groundlings with Spatial Variability; In: E. Zio, M. Demichela, N. Piccinini (eds.); Proceedings ESREL 2001. European Conference on Safety and Reliability. Safety and Reliability; towards a safer world (Torino, 16-20 Sept. 2001), Politecnico di Torino, Torino, 2001, p. 1219-1226. ISBN: 88-8202-099-2

Kurowicka, D., and Cooke, R.M.; Conditional, Partial and Rank Correlation for the Elliptical Copula: Dependence Modeling in Uncertainty Analysis; In E. Zio, M. Demichela, N. Piccinini (eds.); Proceedings ESREL 2001. European Conference on Safety and Reliability. Safety and Reliability; towards a safer world (Torino, 16-20 sept. 2001), Politecnico di Torino, Torino, 2001, p. 1795-1802. ISBN: 88-8202-099-3

Kurowicka, D.,, J.K. Misiewichz, Cooke, R.M.. Elliptical copulae.In: G.I. Schueller, P.D. Spanos (eds.); Proceedings Monte Carlo Simulation. Internationale Conference on Monte Carlo Simulation (Monte Carlo, 18-21 June 2000), Balkema, Lisse, 2001, p. 209-214. ISBN: 90-5809-188-0

L.H.J. Goosens, F.T. Harper, J. Ehrhardt, J.A. Jones, B.C.P. Kraan, Cooke, R.M.. Lessons learnt from EC/USNRC expert judgement study on probabilistic accident consequence codes applied in the COSYMA uncertainty analyses. In: S. KOndo and K. Furuta, PSAM5 -Probabilistic Safety Assessment and Management, (PSAM5,

OSAKA, Japan, 27 nov- 1 Dec 2000) Universal Academy Press, INC., Tokyo, Japan, Volume 2,pp 965-970; ISBN 4-946443-64-9

L.H.J. Goossens and Cooke, R.M.; Expert judgement elicitation in risk assessment; Assessment and Management of Environmental Risks, Cost-efficient Methods and Applications; Proceedings of the NATO advanced Research Workshop on Assessment and Management of Environmental Risks: Methods and Applications in Eastern European and Developing Countries; Lisbon, Portugal, Oktober 1-4, 2000; pag 411-426; ISBN: 1-4020-0025-1(PB)

L.H.J. Goossens, J. Ehrhardt, B.C.P. Kraan, Cooke, R.M..Expert judgeist of uncertainties in Modeling emergency actions after nuclear accidents. In: S.Kondo and K. Furuta, PSAM5 - Probabilistic Safety Assessment and Management, (PSAM5, Osaka, Japan, 27 Nov - 1 Dec 2000) Universal Academy Press, Inc., Tokyo,Japan, Volume 2, pp. 971-976; ISBN 4-946443-64-9

Shane G. Henderson, Belinda. A. Chiera and RogeCooke, R.M.. Generating ``Dependent" quasi-randum numbers; Proceedings 2000, Winter Conference Simulation, J.A. Jones, R.R. Barton, K. Kang, P.A. Fishwick (eds) IEEE

Roger Cooke and Cor Kraaikamp "Risk Analysis and Jurisprudence: A Recent Example" Safety Engineering and Risk Analysis 2000 Sera-Vol.10. page 67 - 72, ISBN No. 0-7918-1898-5. The American Society Of Mechanical Engineers.

J.M. van Noortwijk and Cooke, R.M., "Graphical Methods" in Saltelli,A, Chan,K and Scott,E.M Sensitivity Analysis, Wiley, West Sussex, U.K., 2000, pp 245-264.

Kurowicka, D. and Cooke, R.M. "Conditional and partial correlation for graphical uncertainty models" in Limnios, N. and Nikulin, M. Recent Advances in Reliability Theory,Birkhauser, Berlin, pp 259-276.

B.A. Chiera en Cooke, R.M.: Dependent quasirandom numbers. In: Foresight and Precaution, volume 2. Edited by M.P. Cottam, D.W.Harvey, R.P. Pape and J. Tait. Balkema, blz. 1519-1523. ISBN 90 5809 140 6. Rotterdam, 2000.

Cooke, R.M.,Atze Bosma en Frank Harte: A simple reliability model for Heineken bottle filling lines. In: Materialy na Krajowa Konferencje Bezppieczenstwo i niezwadnosc, KONBiN'99, blz. 205-212. ISBN ?????. Poland, 1999.

Roger M. Cooke and Joan Willem Dorrepaal: Evaluation of reliability data and maintenance indicators. In: Handbook on Quality of Reliability Data, blz. 86-94. ISBN 82-515-02535. Det Norske Veritas. Norway 1999.

Andrey R. Yunusov, Roger M. Cooke and Victor G. Krymsky: Rexcalibr-integrated system for processing expert judgement: In: Proceedings 9th Annual Conference Risk Analysis: Blz. 587-589: Facing the New Millenium Rotterdam, The Netherlands, Oktober 10-13, 1999. Editor: L.H.J. Goossens. ISBN: 90-407-1954-3. Delft University Pers.

Victor G. Krymsky, Roger M. Cooke and Andrey R. Yunusov: The role of expert judgement in hazardous factors influence prognosis: parametric elicitation technique. In: Proceedings 9th Annual Conference Risk Analysis: Blz. 571-574: Facing the New Millenium Rotterdam, The Netherlands, Oktober 10-13, 1999. Editor: L.H.J. Goossens. ISBN: 90-407-1954-3. Delft University Pers.

Norstrom, J.G., Cooke, R.M., Bedford, T.: "Value of information based inspection-strategy of a fault-tree". In: Safety and Reliability, Schu"eller & Kafka (eds.), 1999, Vol. 1. 1999. Balkema, Rotterdam, ISBN 90 5809 109 0.

Goossens, L.H.J., Cooke, R.M., Kraan, B.C.P., Harper, F.T.: "Results of the EC/USNRC expert judgement uncertainty analysis of accident consequence models for nuclear power plants: Project overview and lessons learned". In: Safety and Reliability, Schu"eller & Kafka (eds.), 1999, Vol. 2. 1999 Balkema, Rotterdam, ISBN 90 5809 1090.

Cooke, R.M., Kraan, B., Goossens, L.H.: "Results of the EU-USNRC expert judgment quantification of accident". In: Safety and Reliability, Schu"eller & Kafka (eds.), 1999. Vol. 2. 1999 Balkema, Rotterdam, ISBN 90 5809 1090.

Cooke, R.M., Noortwijk, J.M. van; "Generic graphics for uncertainty and sensitivity analysis". In: Safety and Reliability, Schu"eller & Kafka (eds.), 1999. Vol. 2. 1999 Balkema, Rotterdam, ISBN 90 5809 109 0.

Cooke, R.M., Bier, V.M.; "Simulation Results for Precursor Estimates". In: V. Bier (ed.), Proceedings of Workshop on: Accident Sequence Precursors and Probabilistic Risk Analysis. (Maryland, USA, 1998), p. 61-76. ISSN: 1084-5658.

Bedford, T.J., Cooke, R.M.; Applying MAUT for risk-based managemenet of design problems in the aerospace industry. In: P. PYY, S.P. Arsenis (eds.); Decision Analysis and its Applications in Safety and Reliability. (Espoo, Finland, 15-05-97), ESReDA, Espoo, Finland, 1998, p. 209-227, ISBN:,

Goossens, L.H.J., Cooke R.M., Kraan, B.C.P., "Evaluation of weighting schemes for expert judgment studies" In: A. Mosleh, R.A. Bari (eds.) Probabilistic Safety Assessment and Management, Vol. 3., sept 13-18-98, New York. S0pringer Verlag London Limited, Great Britain, 1998,pp. 1937-1942. ISBN 3540762620.

Willy Aspinall and Cooke, R.M.,"Expert Judgement and the Montserrat Volcano Eruption" In: A. Mosleh, R.A. Bari (eds.). Probabilistic Safety Assessment and Management, Vol. 3., sept 13-18-98, New York. Springer Verlag London Limited, Great Britain, pp. 2113-2118. ISBN 3540762620.

Mark Little, Colin Muirhead, Louis Goossens, Roger Cooke, Bernd Kraan, Fred Harper, "Results of expert judgement assesments for the late health effects models" Joint EC/USNRC project, In: A. Mosleh, R.A. Bari (eds.); Probabilistic Safety Assessment and Management, Vol. 3., sept. 13-18-98, New York, Springer Verlag London Limited, Great Britain, pp. 1925-1930. ISBN 3540762620.

Karen A.H. Slijkhuis, Martijn P.C. Frijters, Cooke, R.M.,Anton C.W.M. Vrouwenvelder, "Probability of flooding: An uncertainty analysis" In: Safety and Reliability, Volume 2, Trondheim, Noorwegen. Lydersen, Hansen, & Sandtorv (eds) copyright 1998 Balkema, Rotterdam, pp. 1419-1426. ISBN 9054109661

L.H.J. Goossens, B.C.P. Kraan, Cooke, R.M., J.A. Jones, J. Brown, J. Ehrhardt, I. Hasemann, F. Fischer, "COSYMA accident consequence uncertainty analysis: Procedure and first results" In: Safety and Reliability, Volume 2, Trondheim, Noorwegen. Lydersen, Hansen & Sandtorv (eds) copyright 1998 Balkema, Rotterdam, pp. 1411-1418. ISBN 9054109661

J.G. Norstrom, Cooke, R.M., T. Bedford, "Statistical methods in design of safety critical software", In: Safety and Reliability, Volume 2, Trondheim, Noorwegen. Lydersen, Hansen & Sandtorv (eds) copyright 1998 Balkema,Rotterdam, pp. 1061-1067. ISBN 9054109661

Cooke, R.M., "FN Data need Supplement of temporal trend Analysis" in R.E. Jorissen and Stallen (eds) Quantified Societal Risk and Policy Making. Kluwer Academic Publishers, Boston 1998, p. 126-132. ISBN 0-7923-4955

Noortwijk J. van, M. Kok, R. Cooke; Reply to the reviews. In. R. Cooke M. Mendel (eds): Engineering probabilistic design and mainternance for flood protection. Kluwer Academics, Dordrecht, 1997, p. 85-86 ISBN 0-7923-4399-9

L.H.J. Goossens, Cooke, R.M., B.C.P. Kraan, F.T. Harper, M. Young, L. Miller, S.G. Hora and J. P"asler-Sauer, "Uncertainty analysis of nuclear accident consequence codes: A formal expert judgement approach", In: O. Renn (Ed.), Risk analysis and management in a global economy, Vol. 1.1. Risk Management in Europe: New challenges for an industrial world, SRA-Europa, Stuutgart 1997, Vol. 1.1, pp. 779-793.

Cooke, R.M., J. Dorrepaal and T. Bedford, ``Mathematical review of Swedish Bayesian methodology for nuclear plant reliability data bases", Book: The Practice of Bayesian Analysis , edited by S. French and J.Q.Smith, pp. 25-54, 1997, ISBN 0 340 66240 9, 1997.

Noortwijk J.M. van, M. Kok and Cooke, R.M., ``Optimal decisions that reduce flood damage along the Meuse: an uncertainty analysis " Book: The Practice of Bayesian Analysis , edited by S. French and J.Q. Smith. pp. 151-172, 1997. ISBN 0 340 66240 9, 1997.

Cooke, R.M. "Markov and entropy properties of tree- and vine-dependent variables" Proceedings of the Section on Bayesian Statistical Science, American Statistical Association, 1429 Duke Street, Alexandria, VA, 22314, 1997.

Goossens L.H.J. and Cooke, R.M. , ``Evaluation of calibration variables for optimising expert judgements in risk assessments", Proceedings Annual Meeting of the Society for Risk Analysis-Europe, New Risk Frontiers Stockholm 1997. Ed. B.-M. Droftz-Sj"oberg, ISSN 1101-9689.

Noortwijk J.M. van, M. Kok and Cooke, R.M., "Optimal maintenance decisions for the sea-bed protection of the easten-scheldt barieen", in Egineering Probabilistic design and mainterance for flood protection, edited by Cooke, R., Mendel, M. and Vryling, K. (eds). pp. 25-57, Kluwer Dordrecht, 1997, ISBN 0-7923-4399-9.

Bischoff, K., and Cooke, R. "Integrated Risk-Uncertainty Analysis for the European Space Agency". In: P.C. Cacciabue and I.A. Papazoglou (Eds.), Probabilistic Safety Assessment and Management Springer 1996, Vol. 3, p. 1831-1836. Proceedings of the ESREL'96-PSAM III Meeting at Crete, Greece, June 24-28, 1996.

Louis H.J. Goossens and Roger M. Cooke "Procedures guide for the use of expert judgement in uncertainty analyses". In: P.C. Cacciabue and I.A. Papazoglou (Eds.), Probabilistic Safety Assessment and Management, Springer, 1996, Vol. 2, pp. 978-985. Proceedings of the ESREL'96-PSAM III Meeting at Crete, Greece, June 24-28, 1996.

Kraan, B., and Cooke, R. "Dealing with Dependencies in Uncertainty Analysis". In: P.C. Cacciabue and I.A. Papazoglou (Eds.), Probabilistic Safety Assessment and Management, Springer, 1996, Vol. 1, pp. 625-630. Proceedings of the ESREL'96-PSAM III Meeting at Crete, Greece, June 24-28, 1996.

Kraan, B., and Cooke, R. "Processing of Expert Judgement Assessments into Parameter Uncertainties". In: P.C. Cacciabue and I.A. Papazoglou (Eds.), Probabilistic Safety Assessment and Management, Springer, 1996, Vol. 2, pp. 988-991. Proceedings of the ESREL'96-PSAM III Meeting at Crete, Greece, June 24-28, 1996.

Cooke, R., Jager, E., and Geervliet, S. "Failure Frequency of underground Gas Pipelines". In: P.C. Cacciabue and I.A. Papazoglou (Eds.), Probabilistic Safety Assessment and Management, Springer, 1996, Vol. 2, pp. 992-1000. Proceedings of the ESREL'96-PSAM III Meeting at Crete, Greece, June 24-28, 1996.

F. Harper, L. Goossens, M. Abbott, J. Boardman, J. Brown, R. Cooke, J. Harrison, E. Haskin, S. Hora and M. Little, "Joint USNRC/EC consequence uncertainty analysis: The ingestion pathway, dosimetry and health effects expert judgement elicitations and results". Proceedings of the International Topical Meeting on Probabilistic Safety Assessment - PSA '96 - Moving towards risk-based regulation, Park City, Utah, USA, September 29-October 3, 1996, Vol. II, pp. 1083-1088.

Cooke, R., and Bier, V. "Simulation results for precursor estimates", Proceedings Safety Assessment, Advanced Topics Workshop Precursor Methods, Madison Wisconsin, May 1995.

Cooke, R.M., and Bedford, T. "Analysis of Reliability Data Using Subsurvival Functions and Censoring Models", Recent Advances in Life-Testing and Reliability, 1995.

Cooke, R.M., F.T. Harper, L.H.J. Goossens, S.C. Hora, M.L. Young, J. Palsen-Sauer, L.A. Miller, B. Kraan, C. Lui, M.D. McKay, J.C. Helton, J.A. Jones ``Joint UNSNRC/CEC uncertainty study: Dispersion and deposition panels, Proceedings of a technical committee meeting organized by the International atomic energy agency and held in Vienna, Austria 21-25 november 1994, IAEA, Vienna Austria, 1995.

Paulsen, J., Cooke, R., and Nyman, R. "ESREL 95. 10th International Conference on Reliability and Maintainabilities, Bournemouth June 1995". Appearing in Reliability Engineering and System Safety, 1996.

Harper, F., Boardman, J., Harrison, J., Little, M., Goossens, L., Brown, J., Haskin, E., Abbott, M., Cooke, R., Hora, S., Joint USNR/EC Consequence Uncertainty Study: the Ingestion Pathway, Dosimetry and Health Effects Expert Judgment Elicitations and Results, in Proc. of the Intern. Topical Meeting on Probabilistic Safety Assessment PSA 1996, American Nuclear Society, Inc., p. 1083-1088.

Harper, F.T.; Goossens, L.H.J.; Cooke, R.M.; Hora, S.C.; Miller, L.A.; P"asler-Sauer, J.; Lui, C. and Kelly, G.N., Summary of uncertainty analysis of dispersion and deposition modules of the MACCS and nr COSYMA consequence codes - A joint USNRC/CEC study, Paper presented at PSAM-II Conference, San Diego, Ca/USA, 20-25 March 1994, Vol 1, session 009.

Cooke, R.M. "de Finetti Representations of Survival Functions Level to a product Measure", Recent Adv. in Stat. and Prob., J. P'erez Vilaplana and M.L. Puri (eds) 441-450, VSP 1994.

Cooke, R., ``The Analysis of Competing Failure Modes" PSAMII March 20-24, 1994, San Diego.

Meeuwissen, A.M.H. and Cooke, R., `` A Latent Variable Model in Uncertainty Analysis" PSAMII, March 20-24, 1994, San Diego.

Goossens, L.H.J., Cooke, R., e.a. ``Uncertainty Analysis of Probabilistic Accident Consequence Codes for the Nuclear Industries – A Joint CEC/USNRC Expert Judgement Study" Joint International Conference on Mathematical methods and Supercomputing in Nuclear Applications 19-23 April 1993, Karlsruhe, Germany.

Goossens, L. Cooke, R. Woudenberg, F. and van der Torn, P. "Protocol for using expert judgment in establishing probit relations of hazardous materials". Appearing in Proceedings of the Society of Risk Analysis, Paris 1992.

French, S. Cooke R. and Vogt, F. "The use of expert judgement in the context of a postulated mathematical model" Proceedings of the Fourth Valencia International Meeting, J.M. Bernado, J.O. Berger, A.P. David, and A.R.M. Smith (eds) 617-624, Oxford University Press, 1992.

Cooke R. and van der Weide, H. 1991 "Uncertainty Analysis for Dispersion and Deposition; Active Issues" Proceedings of the Specialists' Meeting on Advanced Modeling and Computer Codes for Calculating Local Scale and Meso-Scale Atmospheric Dispersion of Radionuclides and their Applications, 6-8 March 1991 OECD/NEA Data Bank, Saclay, France.

Cooke R., Meeuwissen H., and Preyssl C., "Modularizing fault tree uncertainty analysis, the treatment of dependent information sources" it Probabilistic Safety assessment and Management (ed. G. Apostolakis) Elsevier, New York, 1991 p. 1063-1069.

Mazzuchi T., Cooke R., Dekker R., van Dorp J., and van Noortwijk, J. "The elicitation and use of expert judgment for maintenance optimization", Proceedings of the World Congress on Expert Systems, Orlando Florida, 1991.

Cooke, R., and van der Weide, H. "Expert judgement for uncertainty analysis of accident consequence codes" Proceedings of the World Congress on Expert Systems, Orlando Florida 1991.

Cooke, R., Misiewicz, J. and Mendel, M. "Applications of LP invariant measures" COSMEX-89 Conference on Stochastic methods in Experimental Sciences W. Kasprzak and A. Weron (eds) 96-113, Singapore, 1990.

Cooke, R.M. "Statistics in Expert Resolution" Proceedings of the conference Statistics in Science Luino, Italy, May 21-May 28 1988 (Constantini and Cooke, eds.) Reidel 1990.

v. Steen, J., Goossens, L., Cooke, R. "Protocols for Expert Opinion Use in Risk Analysis" 6th International Symposium Loss Preventions and Safety Promotion in the Process industries, Oslo, Norway, June 19-22 1989 Vol. 11 42-7, 42-20.

van Steen, J. and Cooke, R.M., "Expert Opinions as Data Source: Methods and Experiences", v. Colombari (ed), Reliability Data collection and Use in Risk and Availability Assessments. proceedings EURODATA conference 1989, Springer verlag, Berlin 1989, 262-286.

Preyssl, C. and Cooke, R.M. "Expert Judgement in Subjective & Objective Data for Risk Analysis of Spaceflight Systems". Proceedings of The International Meeting on Probability, Reliability, and Safety Assessment, April 1989.

Cooke, R.M., Expert Systems Front End: Expert Opinions in G. Mitra (ed). Mathematical Models for Decision Support, NATO ASI series F , Vol. 48. Springer Verlag, Berlin 1988; 559-574.

Goossens, L. Hale, A., Cooke, R., and van der Horst, J. "Accident Sequence Precursor Methodology: A Tool for Evaluation of Chemical Systems" in Securite des Systems: Proceedings of the 5-th European Symposium on System Safety, 73-89, Grenoble, 1988.

Cooke, R.M., "Probabilistic reasoning in Expert Systems reconstructed in Probability Semantics". PSA 1986, vol. 1 pages 409-420.

Cooke, R.M., "Expert Resolution" Proceedings of the 2nd IFAC conference on Analysis Design, and Evaluation of Man-Machine Systems, Varese, Italy, September 10-12, 1985, Pergamon Press.

Cooke, R.M. and Van Lambalgen, M., "Lattice Valued Commutativity Measures" in Proceedings of the International Symposium on Quantum Logic June 13-16, 1984 pages 147-159, Bibliographisches Institut, Manheim.

Cooke, R.M., Keane, M., and Moran, W., "An Elementary Version of Gleason's Theorem" in Proceedings of the International Symposium on Quantum Logic June 13-16, 1984 pages 299-313, Bibliographisches Institut, Mannheim.

Cooke, R.M. and Hilgevoord, J., A New Approach to Equivalence in Quantum Logic, in Current Issues in Quantum Logic, Plenum Press 1981, p. 101-113.

Cooke, R.M., Mystical Realism, in Structure and Approximation in Physical Theories, Plenum Press 1981, p. 165-196.

Workshops, Software Systems, Course Books, Reports

Bush, B, Jenken, T. , Lipowicz, D., Arent, D. and Cooke, R.M. (2012) "Variance Analysis of Wind and Natural Gas Generation under Different Market Structures: Some Observations" National Renewable Energy Laboratory, NREL/TP-6A20-52790, Contract No. DE-AC36-08GO28308.

Cooke, R.M. and Nieboer, D. (2011) "Heavy Tailed distributions: Data, diagnostics and New Developments" Resources for the Future RFF-DP-11-19.

Cooke, R.M. Ross, H. L. and Stern, A. (2010) "Precursor Analysis for Offshore Oil and Gas Drilling From Prescriptive to Risk-Informed Regulation" Resources for the Future RFF-DP-10-61.

Kousky, C. and Cooke, R.M. (2009) "Climate Change and Risk Management Challenges for Insurance, adaptation, and Loss Estimation RFF–DP 09–03–REV, Resources for the Future, Washington DC.

Kousky, C. and Cooke, R.M. (2009) "The Unholy Trinity: Fat Tails, Tail Dependence, and Micro-Correlations" RFF–DP 09–36, Resources for the Future, Washington DC.

Cooke, R.M. and Singuran, T. (2008) System Level Risk Analysis of New Merging and Spacing Protocols Final Report to NASA, September 2008.

Roelen, A.L.C., Baren, G.B. van, Lin, P.H., Morales, O. Kurowicka, D. Cooke, R.M., "A generic air traffic controller performance model for application in a causal model of air transport" NLR-CR-2007-593, National Aerospace Laboratory, Amsterdam.

Workshop Structured Expert Judgment, Resources for the Future, Washington DC, March 13, 14, 2006

Cooke, R.M. (ed) Technical Committee Uncertainty Modeling: Benchmark Workshop, European Safety Reliabelity Association, Delft 1997, workshop proceedings.

Noortwijk, J.M. van, Kok, M., Cooke, R.M., Optimal maintenance decisions for the sea-bed protection of the Eastern-Scheldt barrier, Report 96-38. Dept. of Mathematics, Delft University of Technology, 1996

Cooke R.M., UNICORN: Methods and code for uncertainty analysis, Published by Atomic Energy Authority, SRD Association. 1995

Cooke R.M., Uncertainty Modeling: An Aid to Decision Making? The SRD Association, Members' Conference 1994 AEA Conference Centre, Risley, Warrington Cheshire on 5-6 October 1994.

Cooke, R.M.; Meeuwissen, A.M.H. "Tree dependent random variables" Report 94-28. Dept. of Mathematics, Delft University of Technology, 1994.

Cooke, R.M.; van Noortwijk, J.M.; Misiewicz, J.K., "A characterization of generalized gamma processes in terms of isotropy" Report 94-65 Dept. of Mathematics, Delft University of Technology, 1994.

Cooke, R.M., ``The Ill-Advised Bayesian'', Official newsletter of the International Society for Bayesian Analysis, Issue no 2, October 1993.

Cooke, R.M., Book Review: Reliability and Decision Making; R.E. Barlow, C.A., Clarotti, and F. Spizzicjino (eds), Chapman & Hall, 1993, 370 pp. Appearing in Reliability Engineering and Systems Safety.

Cooke, R. M. "The total time on test statistic and age-dependent censoring" Engineering Systems Research Center, report 92-19, University of California at Berkeley, 1992.

Cooke, R. M. "De Finetti representations of survival functions level to a product measure" Engineering Systems Research Center, report 92-18, University of California at Berkeley, 1992.

Cooke, R.M. "Procedures for using expert judgment in risk analysis" Reliability Data Collection and Analysis, J. Flamm and T. Luisi (eds) ECSC, EEC, EAEC, 193-211. Brussels, 1992.

Cooke, R.M. Risan User's Manual, Software developed under contract for the European Space Agency, 1991.

Cooke, R. and Solomatine, D., "EXCALIBR – software package for expert data evaluation and fusion and reliability assessment" report to the Commission of the European Communities 76 pp, Delft, 1990.

Lootsma, F., Boonekamp, P., Cooke, R., v. Oostvoorn, F. Scenario Analysis and the Choice of a strategy for the Dutch Electricity Supply. Report 89-12, 26 pp.

Cooke, R. and Solomatine, D. "EXPO; integrated system for processing Expert Judgment, User's Manual". Report Dutch ministery of Housing, Physical Planning and Environment, 19 pp. 1990.

Cooke , R., van Noortwijk, J., and Waij, R. "DETECT: Dependency Tree Evaluations and Confidence Test" Users Manual Report 88-55. Dept. of Mathematics, Delft University of Technology, 1988.

Misiewicz, J., and Cooke, R., "lp-Invariant Measures", Report 88-91, Dept. of Mathematics, Delft, University of Technology.

Cooke, R.M. Game Theory (in Dutch) Course Book T.U. Delft, 1987.

Cooke, R.M. and Pinter, J. "Mathematical Programming and Risk Analysis" Report 87-50. Dept. of Mathematics, Delft University of Technology, 1987.

Cooke, R.M., A Theory of Weights for Combining Expert Opinions, Report 87-25.. Dept. of Mathematics, Delft University of Technology, 1987.

Cooke, R.M., Keane, M, and Moran, W., "Gleason's Theorem", Delft Progress Reports 1984 vol. 9, no. 2, p. 135-150.

Cooke, R.M., On Subjective Probability (in Dutch), THD-Nieuws, Vol 14, No. 29, 26 november 1982.

Cooke, R.M., Subjective Probability, Course book Delft, 1981, 80 pages.

Dutch Journals

Louis Goossens and Roger Cooke, "Expert judgement and hazard assessments" MEG Bulletin Issue 2, March 1997, Brussels.

Cooke, R.M. "Wiskunde voor Risico- en Milieueffect Berekening". Nieuwe Wiskrant, Dec. 1995.

Cooke, R.M. "Een Aantal Dingen". Oratie, Nov. 1995.

Cooke, R.M. ``Empirical Bayes Methods (second edition) review, Kwan-ti-ta-tie-ve Methoden, nummer 42, 1992

Lootsma, F., Boonekamp, P., Cooke, R., v. Oostvoorn, F. "Scenario Analysis National Electricity Supply" (in Dutch). De Ingenieur nr. 10. October 1989, 19-23.

Cooke, R.M., "Comparative Statistical Inference" (in Dutch) Book review, Statistica Neerlandica 19, 1985.

Cooke, R.M., "The Cunning of Science; Variation and Selection" (in Dutch) book review in Algemeen Nederlands Tijdschrift voor Wijsbegeerte, 77 afl. 2, 1985 pages 126-128.

Cooke, R.M., "Reactions", De Ingenieur no. 7/8 August 1984 pages 11-13.

Cooke, R.M., "The credibility of Risk Analysis" (in Dutch) De Ingenieur no. 6, June 6, 1984, pages 52-53.

Cooke, R.M., "Herman Kahn, apologist for the arms race" (in Dutch), Wetenschap & Samenleving, april 1984.

Cooke, R.M. and Hilgevoord, J., Quantum Logic (in Dutch), Kennis en Methode 5, 1981, no. 4.

Cooke, R.M., Science and Politics, Filosofische Reeks, 1980 no. 6 p. 146-152.

Cooke, R.M., Realism and Content, Kennis en Methode 2, 1979, no. 4, p. 319-340.

Cooke, R.M., The Objective Content of Classical Particle Mechanics, Filosofische Reeks, Universiteit van Amsterdam 1977.

Oration

"A Number of Things" Oration for the acceptance of the Professorship Applications of Decision Theory, Department of Mathematics, Delft University, Delft, Then Netherlands, Nov. 8, 1995.

Ph.D. Disstertation

Cooke, R.M., Non-objectivity in Classical Mechanics, A Study in The Foundations of Mechanics from the Viewpoint of Heinrich Hertz, Ph.D. dissertation, Yale University 1974.