

1. Civil Aviation / structural reliability

- 1.1. Cooke, R.M. & Jager, E. (1998) "Failure Frequency of Underground Gas Pipelines", *Risk Analysis*, vol. 1, no 4, 511-527, 1998.
- 1.2. Cooke, R.M., E. Jager, D. Lewandowski (002) "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.
- 1.3. Cooke, R.M., Eric Jager and D. Lewandowski "Reliability Model for Underground Gas Pipelines" (2003) *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.
- 1.4. Cooke, R.M. and Slijkhuis, Karen A. (2003) "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.
- 1.5. Brown A.J. and Aspinall W.P. (2004) Use of expert opinion elicitation to quantify the internal erosion process in dams. In *Proc: The 13th Biennial British Dams Society Conference: University of Kent, Canterbury, 22-26th June 2004*; 16pp (<http://www.britishdams.org/2004conf/synopses/brown.pdf>).
- 1.6. Cooke, R.M. and Goossens L.H.G.(2004) "Expert judgement elicitation for risk assessments of critical infrastructures" *Journal of Risk Research* vol. 7 issue 6, 2004, ISSN 1366-9877, pp 643-657.
- 1.7. B.J.M. Ale, L.J. Bellamy, A.L.C. Roelen, R.M. Cooke, L.H.J. Goossens A.R. Hale, D. Kurowicka, E. Smith, (2005) 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
- 1.8. 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.(2009). "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.res.2009.02.024 Key: citeulike:5143231
- 1.9. Ale, B.J.M. (2006), L.J. Bellamy, R.M. Cooke, L.H.J. Goossens, A.R. Hale, A.L.C. Roelen, E. Smith, Towards a causal model for air transport safety – an ongoing research project, *SAFETY SCIENCE*, Volume 44, Issue 8, October 2006, Pages 657-673.
- 1.10. 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
- 1.11. Forsys, M.B., Kurowicka, D., Peppelman, B.(2013) "A probabilistic model for a gas explosion due to leakages in the grey cast iron gas mains" *Reliability Engineering & System Safety* volume 119, issue, year 2013, pp. 270 - 279.
- 1.12. Jaiswal, K.S., Wald, D.J., Perkins, D., Aspinall, W.P. and Kiremidjian, A.S. (2014) Estimating structural collapse fragility of generic building typologies using

- expert judgment. Chap 117 in: *Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures* (eds: Deodatis, G., Ellingwood, B.R., Frangopol, D.M.), CRC Press; 879-886.
- 1.13. Goodheart, B. (2013). Identification of causal paths and prediction of runway incursion risk by means of Bayesian belief networks. *Transportation Research Record: Journal of the Transportation Research Board*, (2400), 9-20.
 - 1.14. Scourse, E., Aspinall, W., Chapman, N. and Sparks, S. (2017) Expert judgement elicitation: application to science issues in siting facilities for geological disposal of nuclear waste. Ch. 18 in: *Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste* (eds. Apte, M. & Ahn, J.), Elsevier, 529-550
 - 1.15. Ioannou, I., Aspinall, W., Rush, D., Bisby, L. and Rossetto, T. (2017) Expert judgment-based fragility assessment of reinforced concrete buildings exposed to fire. *Reliability Engineering & System Safety*, 167, 105-127.
 - 1.16. Hincks, T., Aspinall, W. and Sparks, S. (2017) Application of Bayes Network analysis to RWGD siting: expert estimation of geological barrier effects due to climate change, Ch. 19 in: *Geological Repository Systems for Safe Disposal of Spent Nuclear Fuels and Radioactive Waste* (eds. Apte, M. & Ahn, J.), Elsevier, 551-581.
 - 1.17. Tadini, A. et al. (2017) Assessing future vent opening locations at the Somma-Vesuvio volcanic complex: 2. Probability maps of the caldera for future Plinian/sub-Plinian event with uncertainty quantification. *J. Geophys. Res. Solid Earth*, 122, doi:10.1002/2016JB013860.
 - 1.18. Kosgodagan, A., Morales Napoles, O., Maljaars, J., & Courage, W. (2016). Expert judgment in life-cycle degradation and maintenance modelling for steel bridges. In J. Bakker, D. M. Frangopol, & K. van Breugel (Eds.), *IALCCE 2016: The Fifth International Symposium on Life-Cycle Civil Engineering*, 16-19 September 2016: *Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure*. (pp. 1-7). CRC Press. DOI: 10.1201/9781315375175-283
 - 1.19. Kosgodagan-Dalla Torre, A, Yeung, TG, Morales Napoles, O, Castanier, B, Maljaars, J & Courage, WMG 2017, 'A Two-Dimension Dynamic Bayesian Network for Large-Scale Degradation Modeling with an Application to a Bridges Network' *Computer-Aided Civil and Infrastructure Engineering*, vol 32, no. 8, pp. 641-656. DOI: 10.1111/mice.12286
 - 1.20. Earth Dams in Mexico: Morales-Nápoles, O., Delgado-Hernández, D.J., De-León-Escobedo, D., Arteaga-Arcos, J.C. (2014) A continuous Bayesian network for earth dams' risk assessment: Methodology and quantification. *Structure and Infrastructure Engineering*, 10 (5), pp. 589-603.
 - 1.21. Delgado-Hernández, D.-J., Morales-Nápoles, O., De-León-Escobedo, D., Arteaga-Arcos, J.-C. (2014) A continuous Bayesian network for earth dams' risk assessment: an application *Structure and Infrastructure Engineering*, 10 (2), pp. 225-238.