

# References I

- [1] Louis Aslett.  
ReliabilityTheory: Tools for structural reliability analysis.  
R package, 2016.  
URL: <http://www.louisaslett.com>.
- [2] Thomas Augustin, Frank P. A. Coolen, Gert De Cooman, and Matthias C. M. Troffaes, editors.  
*Introduction to Imprecise Probabilities*.  
Wiley Series in Probability and Statistics. Wiley, 2014.  
URL: <http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0470973811.html>.
- [3] Yakov Ben-Haim.  
*Information Gap Decision Theory: Decisions Under Severe Uncertainty*.  
Academic Press, 2001.
- [4] A. Benavoli and M. Zaffalon.  
A model of prior ignorance for inferences in the one-parameter exponential family.  
*Journal of Statistical Planning and Inference*, 142:1960–1979, 2012.  
[doi:10.1016/j.jspi.2012.01.023](https://doi.org/10.1016/j.jspi.2012.01.023).
- [5] A. Benavoli and M. Zaffalon.  
Prior near ignorance for inferences in the k-parameter exponential family.  
*Statistics*, 49(5):1104–1140, 2015.  
[doi:10.1080/02331888.2014.960869](https://doi.org/10.1080/02331888.2014.960869).
- [6] James O. Berger.  
The robust Bayesian viewpoint.  
In J. B. Kadane, editor, *Robustness of Bayesian Analyses*, pages 63–144. Elsevier Science, Amsterdam, 1984.

## References II

- [7] Berger, J. et al.  
An overview of robust Bayesian analysis.  
*TEST*, 3:5–124, 1994.
- [8] Frank Coolen and Tahani Coolen-Maturi.  
Generalizing the signature to systems with multiple types of components.  
In W. Zamojski, J. Mazurkiewicz, J. Sugier, T. Walkowiak, and J. Kacprzyk, editors, *Complex Systems and Dependability*, volume 170 of *Advances in Intelligent and Soft Computing*, pages 115–130. Springer, 2012.  
doi:10.1007/978-3-642-30662-4\_8.
- [9] Marquis de Condorcet.  
*Essai sur l'Application de l'Analyse à la Probabilité des Décisions Rendues à la Pluralité des Voix*.  
L'Imprimerie Royale, Paris, 1785.
- [10] Michael Evans and Hadas Moshonov.  
Checking for prior-data conflict.  
*Bayesian Analysis*, 1:893–914, 2006.  
URL: <http://projecteuclid.org/euclid.ba/1340370946>.
- [11] Itzhak Gilboa and David Schmeidler.  
Maxmin expected utility with non-unique prior.  
*Journal of Mathematical Economics*, 18(2):141–153, 1989.
- [12] H. E. Kyburg.  
Rational belief.  
Technical report, University of Rochester, 1983.

## References III

- [13] Isaac Levi.  
*The Enterprise of Knowledge. An Essay on Knowledge, Credal Probability, and Chance.*  
MIT Press, Cambridge, 1980.
- [14] Denis Maua, Cassio de Campos, and Marco Zaffalon.  
Updating credal networks is approximable in polynomial time.  
*International Journal of Approximate Reasoning*, 53(8):1183–1199, 2012.
- [15] Enrique Miranda.  
A survey of the theory of coherent lower previsions.  
*International Journal of Approximate Reasoning*, 48(2):628–658, 2008.  
doi:10.1016/j.ijar.2007.12.001.
- [16] Blaise Pascal.  
*Pensées.*  
Maxi-Livres, Paris, 2001.  
Unfinished work, published posthumously from collected fragments. First incomplete edition: Port-Royal, 1670. First complete reproduction: Michaut, Basle, 1896.
- [17] Alberto Piatti, Alessandro Antonucci, and Marco Zaffalon.  
Building knowledge-based expert systems by credal networks: a tutorial.  
In A.R. Baswell, editor, *Advances in Mathematics Research 11*. Nova Science Publishers, New York, 2010.
- [18] Erik Quaeghebeur and Gert de Cooman.  
Imprecise probability models for inference in exponential families.  
In Fabio G. Cozman, Robert Nau, and Teddy Seidenfeld, editors, *ISIPTA'05: Proceedings of the Fourth International Symposium on Imprecise Probabilities and Their Applications*, pages 287–296, Pittsburgh, USA, July 2005.  
URL: <http://www.sipta.org/isipta05/proceedings/019.html>.

## References IV

- [19] D. Ríos Insua and F. Ruggeri.  
*Robust Bayesian Analysis*.  
Springer, 2000.
- [20] F. Ruggeri, D. Ríos Insua, and J. Martín.  
Robust Bayesian analysis.  
In D. Dey and C. Rao, editors, *Handbook of Statistics. Bayesian Thinking: Modeling and Computation*, volume 25, pages 623 – 667. Elsevier, 2005.  
doi:10.1016/S0169-7161(05)25021-6.
- [21] Jay K. Satia and Jr. Roy E. Lave.  
Markovian decision processes with uncertain transition probabilities.  
*Operations Research*, 21(3):728–740, 1973.
- [22] Amartya Sen.  
Social choice theory: A re-examination.  
*Econometrica*, 45(1):53–89, January 1977.
- [23] Glenn Shafer.  
*A Mathematical Theory of Evidence*.  
Princeton University Press, 1976.
- [24] Cedric A. B. Smith.  
Consistency in statistical inference and decision.  
*Journal of the Royal Statistical Society*, B(23):1–37, 1961.  
URL: <http://www.jstor.org/stable/2983842>.

# References V

- [25] Abraham Wald.  
Contributions to the theory of statistical estimation and testing hypotheses.  
*The Annals of Mathematical Statistics*, 10(4):299–326, December 1939.  
doi:10.1214/aoms/1177732144.
- [26] Abraham Wald.  
Statistical decision functions which minimize the maximum risk.  
*The Annals of Mathematics*, 46(2):265–280, 1945.  
doi:10.2307/1969022.
- [27] Peter Walley.  
*Statistical Reasoning with Imprecise Probabilities*.  
Chapman and Hall, London, 1991.
- [28] Peter Walley.  
Inferences from multinomial data: Learning about a bag of marbles.  
*Journal of the Royal Statistical Society, Series B*, 58(1):3–34, 1996.  
URL: <http://www.jstor.org/stable/2346164>.
- [29] Gero Walter.  
*Generalized Bayesian Inference under Prior-Data Conflict*.  
PhD thesis, Department of Statistics, LMU Munich, 2013.  
URL: <http://edoc.ub.uni-muenchen.de/17059/>.
- [30] Gero Walter, Louis Aslett, and Frank Coolen.  
Bayesian nonparametric system reliability using sets of priors.  
Accepted for publication in *International Journal of Approximate Reasoning*, 2016.  
URL: <http://arxiv.org/abs/1602.01650>.

## References VI

- [31] Gero Walter and Thomas Augustin.  
Imprecision and prior-data conflict in generalized Bayesian inference.  
*Journal of Statistical Theory and Practice*, 3:255–271, 2009.
- [32] Peter M. Williams.  
Notes on conditional previsions.  
Technical report, School of Math. and Phys. Sci., Univ. of Sussex, 1975.
- [33] Peter M. Williams.  
Notes on conditional previsions.  
*International Journal of Approximate Reasoning*, 44(3):366–383, 2007.  
[doi:10.1016/j.ijar.2006.07.019](https://doi.org/10.1016/j.ijar.2006.07.019).