

Some more of MML's *many* application areas

Scoring probabilistic predictions

My papers (Dowe & Wallace, 1998; Comley & Dowe, 2003, 2005) first to show how to use both discrete (multi-state, categorical) and continuous valued variables in MML Bayesian nets.

MML and Efficient Markets Hypothesis: markets *not* provably efficient

MML, Kolmogorov complexity and measures of "intelligence"

MML and Econometric Time Series

MML, Entropy and Time's Arrow

MML and Linguistics - inferring "dead" languages and human pre-history

MML, cosmological arguments and "Intelligent Design" (I.D.)

Philosophy of science, and N. Goodman's "grue" (paradox or) problem of induction, etc., etc.

see also *Solomonoff memorial conference* Call for Papers, etc.

etc.

Some of David Dowe's papers for further reading

* "MML, hybrid Bayesian network graphical models, statistical consistency, invariance & uniqueness", Handbook of Philos of Sci (Vol. 7: Handbook of Philosophy of Statistics), Elsevier, pp901-982, 2011

* "Measuring Universal Intelligence: Towards an Anytime Intelligence Test", Artificial Intelligence journal, Vol 174, Issue 18, December 2010, pp1508-1539, 2010

[Most downloaded from the *Artificial Intelligence* journal since early March 2011 and currently. Also discussed in "*The Economist*" magazine, 5/March/2011, page 82.]

* "Foreword re C. S. Wallace", Computer Journal, Vol. 51, No. 5 (Sept. 2008) [Christopher Stewart WALLACE (1933-2004) memorial special issue], pp523-560, 2008

* "Bayes Not Bust! Why Simplicity is no problem for Bayesians", British J. Philosophy of Science, Vol. 58, No. 4, December 2007, pp709 - 754, 2007

* "Minimum Message Length and Generalised Bayesian Networks with Asymmetric Languages", Chapter 11 in 'Advances in Minimum Description Length: Theory and Applications', MIT Press, April, 2005

* "General Bayesian Networks and Asymmetric Languages", Proc. 2nd Hawaii International Conference on Statistics and Related Fields, 5-8 June, 2003, 2003

* "MML clustering of multi-state, Poisson, von Mises circular and Gaussian distributions", Statistics and Computing, Vol. 10, No. 1, Jan. 2000, pp73-83, 2000

* "Minimum Message Length and Kolmogorov Complexity", Computer Journal, Vol. 42, No. 4, pp270-283, 1999 [Most downloaded from the *Computer Journal*.]

* "Kolmogorov complexity, minimum message length and inverse learning", 14th Australian Statistical Conf' (ASC-14), Broadbeach, Gold Coast, Qld, 6-10 July 1998, p144, 1998

www.csse.monash.edu.au/~dld/David.Dowe.publications.html