

Re: Small Markov models problem

Source: <http://sci.tech-archive.net/Archive/sci.stat.math/2006-05/msg00829.html>

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 - *Date:* Wed, 31 May 2006 11:49:46 +0100
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Ross Clement (Email address invalid – do not use) wrote:

Now, my real problem is this: My actual models are two extremes. One is calculated with an independence assumption between two variables

in

underlying details which I haven't explained. The second is

calculated

with an assumption that these same two variables are equivalent. I would like to claim that the "intermediate" models show varying degrees of dependence between the two variables, from 0 (full independence) to 1.0 (full dependence/equivalence).

I think that most modellers would want to work with the conditional probabilities and to use these to judge whether a model showed more or less dependence than another. However, working with conditional probabilities leaves the extra step of having to fix-up the marginal distributions to remain the same. For your model (treating the 0.3, 0.7 weights a derived from a parameter), can you derive the conditional probabilities and show that that the parameter has the effect of indicating more or less dependence in terms of the conditional probabilities?

David Jones

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