Appendix A

AICc and Evidence Ratio formulae

Formulae used to derive AICc weights and evidence ratios of models, and cumulative AICc weights of model parameters:

$$\text{AICc weight: } w_i = \frac{exp(-\frac{1}{2}\Delta\text{AICc}_i)}{\sum_{j=1}^{J} exp(-\frac{1}{2}\Delta\text{AICc}_j)}$$

$$\text{Evidence ratio: } ER_i = \frac{w_{best}}{w_i}$$

$$\text{Cumulative AICc weight of parameter } p\text{: } \sum w_i = \sum_{i=1}^{P} w_i \ ,$$

where i denotes the current model, J is number of models in the candidate set, w_{best} is the AICc weight of the best model, and P is the number of candidate models in the subset of models containing parameter p.