

Reasoned inference of long-run mutual information (Bayesian theory for dummies) [draft]

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(or any permutation thereof)

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A reasoned analysis of inference for long-run mutual information between stimuli and responses from small samples is given. The use of estimators, biased or not, is found to be inadequate for the small-sample case. Moreover, any inference or formula for bias is found to heavily depend on the specific peculiarities of the problem – the specific kind of stimuli and responses, brain region, behavioural and environmental conditions, and so on – making any one-fits-all formula universally poor.

 draft comments can be introduced with the macro `\mynote{}`