JS

From: Shimony, Joshua shimonyj@mir.wustl.edu Subject: RE: technical questions re. your logprob_exp.m

Date: March 25, 2015 at 6:55 AM

To: John Lee jjlee.wustl.edu@gmail.com

I figured one thing out:

The Jeffrey prior line in the logprob_exp.m

lprob = -0.5*N*log(0.5*lprop)

is simplyl the logarithm of equation 10 in your MRM paper. so its not that mysterious.

It is not a log of a log since up to that point the lprob variable is actually just the Q parameter.

Let me know if this makes sense to you.

Josh

From: John Lee [jjlee.wustl.edu@gmail.com]

Sent: Monday, March 23, 2015 8:04 PM

To: Shimony, Joshua

Subject: technical questions re. your logprob_exp.m

Josh,

I have some questions regarding your Matlab Bayesian codes. I've attached a copy of the matlab functions in question for your reference.

- 1. When is it useful to assign a non-zero parameter penalty in logprob_exp (PARPEN, lines 13, 43)?
- 2. Function logprob_exp branches between Jeffreys' prior and a sigma fit, the latter when par(1) < 0. Presumably, par(1) was used in testing, but for production runs should all the proposed parameters par(1:N) be assessed for negativity? Jeffreys' prior isn't always valid, but for all the uses I've made so far of logprob_exp (and derivative functions), I've effectively used only Jeffreys'.

Thanks, John

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