
Discussion panel on methodology: some points

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1. Sequential experiments

$$\min_D E_Y E(\phi(\theta)|Y)$$

$$\min_{D_1} E_{Y_1} \min_{D_2} E_{Y_2|Y_1}(\phi(\theta)|Y_1, Y_2)$$

If $\phi = \log \pi$, where p is the posterior then we have information. But we can have criteria which have another purpose

2. Validation against reality
3. Links to reliability: fail v. not fail (discrete response)
4. Get closer to the solver: eg FEM: use derivatives, mesh-size, resolution ...
5. Identifiability, model order choice. Compare with Nyquist....need a certain sample size to estimate certain kernels. Need a generalized Nyquist Theory.