

Interactive comment on “Hydrological model parameter dimensionality is a weak measure of prediction uncertainty” by S. Pande et al.

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Response to the response

Thank you for your response. Your arguments clarified only some of the problems. A few of my remaining problems are:

In my opinion the Markov inequality is not a stronger inequality than the Chebysev - it is based on the same very simple distribution independent principle.

Unfortunately your arguments are not fully precise. The indices are unfortunately often not correct. Further you certainly intended to write: $|E\xi_1 - \xi_1| + |E\xi_2 - \xi_2| \leq 2t$ with a probability atleast $1 - (\delta_1(t) + \delta_2(t))$. Thus $E\xi_1 - E\xi_2 \leq \xi_1 - \xi_2 + 2t$.

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Further I do not understand what $\delta_i(\xi_2 - \xi_1)$ is. $\delta_i(t)$ was defined on a scalar space (positive numbers t). Thus $\delta_i(\xi_2 - \xi_1)$ is a random variable. So how you interpret and estimate $\delta_i(\xi_2 - \xi_1)$?

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