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: \(|Eξ_1 - ξ_1| + |Eξ_2 - ξ_2| ≤ 2t\) with a probability atleast \(1 - (δ_1(t) + δ_2(t))\). Thus \(Eξ_1 - Eξ_2 ≤ ξ_1 - ξ_2 + 2t\).
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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