

Editor's comment :

"Mathematical Programming for Statistical Inference is an interesting article in which the author(s) seeks, through a study that uses computational simulation, to evaluate the performance of two mathematical programming models designed for hypothesis testing. Since the interest of this article is of a practical nature, as pointed out by one of the reviewers, the author should conclude by rejecting the first model that is in fact completely useless. It should also, in the conclusions, show that it has knowledge that conclusions drawn from simulations must be looked at with great caution. In fact they are more clues than perfectly stated conclusions. The text is a bit confusing but relatively readable. With the suggestions made above and a thank you to the reviewers who greatly contributed to the improvement of the article, **it can be accepted for publication.**"

Author's feedback :

- 1- the author should conclude by rejecting the first model that is in fact completely useless.

The first model is an experimental model for the idea of converting theoretical mathematical model to applied Mathematical programming model.

However, sometimes in some studies the researcher may need to identify such points.

- 2- in the conclusions, show that it has knowledge that conclusions drawn from simulations must be looked at with great caution.

Always in simulation study, the study depends on some parameters or some hypotheses. Such parameters or hypotheses are considered experimental cases to ascertain the validity of the suggested model and its applicability within the limits of the study hypotheses. The idea can be generalized only after many cases in which the parameters and sizes are changed and applied to real data. So the conclusions which drawn from simulation study must be looked at with great caution.