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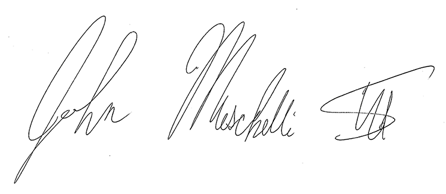
Dear Editor(s):

I am pleased to submit an original research article entitled **ROC and AUC with a Binary Predictor: a Potentially Misleading Metric** for consideration for publication in Computational Statistics & Data Analysis. We present a review and comparison of methods and output from statistical software (R, SAS, Stata, Python) on calculating the AUC with a binary predictor.

We believe that this manuscript is appropriate for publication in CSDA as it is a review of statistical software, shows simple examples that motivate how the calculations of AUC are related to the choices of how ties are handled, and how outputs can be misleading in the case of a binary predictor and AUC. Though we acknowledge that an AUC analysis of a single binary predictor does not make much sense as it can be summarized by sensitivity/specificity, we note examples where this is still done. Also, as AUC can be seen as a summary metric, it may be used blindly for comparison without relation to the ROC curve.

This manuscript has not been published and is not under consideration for publication elsewhere. We have no conflicts of interest to disclose.Thank you for your consideration!

Sincerely yours,



John Muschelli