Professor Harry Haupt

Professor Yarema Okhrin

Editors

*AStA Advances in Statistical Analysis*

March 8, 2024

Dear Professors Haupt and Okhrin:

We wish to submit a manuscript for publication consideration in *AStA Advances in Statistical Analysis*. Our paper develops and investigates a new bootstap test for assessing the goodness-of-fit of a normal linear regression model. We show that our test is able to detect a wide variety of forms of model misspecification. Moreover, the test is capable of detecting forms of misspecification that may be indiscernible when commonly used inferential and diagnostic methods are employed. This new method can be employed in an R package that we have developed.

The following researchers have done work in topic areas that are germane to the methodology presented in this paper, and might be deemed as suitable reviewers:

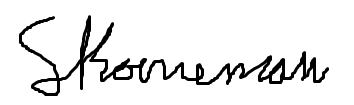
Andrew Neath [aneath@siue.edu](mailto:aneath@siue.edu)

Alex Karagregoriou [alex.karagrigoriou@aegean.gr](mailto:alex.karagrigoriou@aegean.gr)

Ilia Vonta [vonta@math.ntua.gr](mailto:vonta@math.ntua.gr)

Thank you for your time and for your consideration of our paper.

Sincerely,

Scott H. Koeneman, Ph.D. Joseph E. Cavanaugh, Ph.D.

Assistant Professor Departmental Executive Officer, Biostatistics

Division of Biostatistics Professor of Biostatistics

Sidney Kimmel Medical College Professor of Statistics and Actuarial Science

Thomas Jefferson University Professor of Applied Mathematical and Computational Sciences

The University of Iowa