A Comparative Study Of Test Procedures Used In Assessing The Forecasting Ability Of Linear Models With Applications On Crop Yield Data

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Abstract

The choice of the appropriate linear model before this can be used for planning and decision making, has been the concern of many statistical workers. Most of the methods in the literature aim at evaluating the descriptive ability of the candidate models. In the present dissertation, a brief review of the criteria that evaluate the descriptive ability of the linear models is presented.

Then some recent methods recommended by Panaretos et al. (1997), based on the discrepancy of the observed and the corresponding predicted values of the dependent variable are examined.

Comparison of the various methods studied is made by applying them to real and simulated data.