Journal of Applied Statistical Science
Volume 10, No. 2 pp. 119-136

ISSN # 1067-5817

ON SOME BIVARIATE EXTENSIONS OF THE FOLDED NORMAL AND THE FOLDED T DISTRIBUTIONS

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SUMMARY

In this paper two new bivariate distributions are defined and studied. They are the two - variate versions of the folded normal distribution (Leone et al. 1961) and the folded t distribution (Psarakis and Panaretos 1990).

They both arise in the context of evaluating the predictive behaviour of two competing linear models with the aim to select the one that leads to predictions closer to the actual value of the dependent variable.

Keywords and phrases: Folded normal, folded-t distribution, model selection.