On estimation of parameters of double-Weibull distribution using U-statistics

based on best linear functions of order statistics as kernels

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**ABSTRACT** 

In this work, we have obtained estimators for the location and scale parameters of double Weibull

distribution using U-statistics based on best linear functions of order statistics as kernels when its

shape parameter is known. The efficiency comparisons of the proposed U-statistics with respect to

some standard estimators are also described.

**KEY WORDS** 

Best linear functions based on order statistics, double Weibull distribution, Gini's mean difference,

U-statistics based on best linear functions of order statistics as kernels, relative efficiency.