

Determination of Sample Size in Using Central Limit Theorem for Weibull Distribution

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Abstract

The general rule in using central limit theorem is based on the sample size being greater or equal to 30. Since there are various shapes of probability distributions, this generalized criterion may not be suitable. We determine the sample size required for the Weibull distribution, while using the central limit theorem in this paper. Some computer simulations are carried out to study the practical choices of the least required sample size for this distribution.

Keywords: Sample Size, Sample Mean, Normality Test, Central Limit Theorem, Weibull Distribution.