

On The Sampling Distribution of Range And Sample Coefficient of Range for Generalized Gamma Population and Its Application

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In this paper, the sampling distribution of sample range R_n and its sample coefficient $R_n^* = R_n/\bar{X}_n$, when \bar{X}_n is the sample mean when a random sample are drawn from generalized gamma distribution, are studied. The conclusion is both R_n and R_n^* could be considered a normal distribution. Application to quality control is concerned, too.

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