Abstract

Based on the goodness of fit approach, a new test is presented for testing exponentiality versus used better than aged in convex tail ordering UBACT class of life distribution. The percentiles of this test are tabulated for sample sizes \(n=1(5)100\). It is shown that the proposed test is simple and it has high relative efficiency for some commonly used alternatives. A numerical example in medical science demonstrates practical application of the proposed test.

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Index Terms

Computer Science
Applied Mathematics

Keywords

U-Statistics; Goodness of fit approach; UBACT class of life distribution; Hypothesis
testing.