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Entropy of size-biased moment exponential distribution

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In this article we consider the entropies for some life time distributions and compare them for exponential distribution and size-biased moment exponential distribution. For this purpose, for each, a mathematical expression of entropy has been derived. We consider the two different distributions rather than the truncated distribution as studied in the literature. A new estimator of entropy has also been introduced and derived its properties. We calculate relative loss of entropy for size-biased moment exponential distribution. Empirical study and graphical presentation has been conducted to illustrate which entropy measure has advantages in terms of relative loss in entropy.

Biography

Abdul Basit has completed his MS in Social Sciences at the age of 31 years from SAZABIST Karachi, Pakistan. Currently he is the PhD research scholar in the discipline of Statistics in National College of Business Administration & Economics Lahore, Pakistan. He is Assistant Director of Statistics & DWH Department of State Bank of Pakistan. He has published 04 research papers in the journals and many articles were presented in national and international conferences.

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