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New entropy measures for censored data

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Survival function and hazard rate are very informative and reliable characteristics of any distribution. Entropy is a tool to measure the maximum information of any distribution. In this study, we use the hazard function to develop a new entropy measure. We also introduce the modified forms of Renyi, Tsallis and Havrda and Charvat entropy. The main properties and characteristics and applications associated with these modified entropies are established. We made a comparison between modified entropies by applying them on health indicators Infants Mortality Rate, Crude Death Rate and Life Expectancy of Pakistan. New entropy measures are very useful for censored data. We also introduced a new methodology for the comparison of entropy measures.

Biography

Abdul Basit is the PhD Research Scholar in the discipline of Statistics in National College of Business Administration and Economics Lahore, Pakistan. He has completed his MS in Social Sciences from SZABIST Karachi, Pakistan in 2014. Currently, he is serving as Deputy Director in Research Cluster of State Bank of Pakistan. He has published 07 research papers in journals and many articles were presented in national and international conferences.

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