

## **SOME PROPERTIES OF THE CUMULATIVE RESIDUAL ENTROPY**

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### **ABSTRACT**

The entropy functions are useful tools to measure the uncertainty. Recently, Rao et al (2004), Navarro et al (2010) defined the cumulative residual entropy and dynamic cumulative past entropy, respectively, as some new measures of uncertainty. They studied some properties and applications of these measures. In this paper, we obtain some results connecting these measures. We obtain cumulative residual entropy for random sample and we show how dynamic cumulative past entropy dominates past entropy.

**Keywords:** Uncertainty, Cumulative residual entropy, Dynamic cumulative past entropy.