Single and Product Moments of Generalized Order Statistics from Exponentiated Fréchet Distribution and a Characterization

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Abstract

In this paper explicit expression and recurrence relations are derived from single and product moments of generalized order statistics from exponentiated Fréchet distribution. Further particular cases of ordinary order statistics and k-th record values are discussed and a characterization of exponentiated Fréchet distribution has been obtained on using a recurrence relation for single moments.

Keywords: Generalized order statistics, record values, single and product moment, recurrence relations, exponentiated Fréchet distribution, characterization.