عنوان مقاله:
SHANNON ENTROPY IN ORDER STATISTICS AND THEIR CONCOMITANS FROM BIVARIATE NORMAL DISTRIBUTION

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خلاصه مقاله:
In this paper, we derive rst some results on the Shannon entropy in order statistics and their concomitants arising from a sequence of \( f(X_i; Y_i): i = 1; 2; \ldots g \) independent and identically distributed (iid) random variables from the bivariate normal distribution and extend our results to a collection \( C(X; Y ) = f(X_{r_1:n}; Y_{r_1:n}); (X_{r_2:n}; Y_{r_2:n}); \ldots; (X_{r_k:n}; Y_{r_k:n})g \) of order statistics and their concomitants. We nally compute the value of the Shannon entropy in order statistics and their concomitants from a bivariate normal distribution.

کلمات کلیدی:
Bivariate Normal Distribution, Concomitants of Order Statistics, Shannon Entropy

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