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A GENERALIZED *R*-NORM ENTROPY AND CODING THEOREM

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Abstract

In the present paper we have studied the application of a new generalized measure of R-norm entropy characterized by Hooda and Sharma [9] in coding theory. Various mean codeword lengths and their bounds have been defined and a coding theorem on lower and upper bounds of a generalized mean codeword length in terms of the generalized R-norm entropy has been proved.

Key Words and Phrases : Codeword length, Kraft inequality, R-norm entropy, Holder's inequality and optimal code length.

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