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A generalized ‘useful’ inaccuracy of order $\alpha$ and type $\beta$ and coding theorems. (English)
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Summary: Useful inaccuracy measures and mean codeword lengths are well known in the literature of information theory. In this communication, a new generalized ‘useful’ inaccuracy of order $\alpha$ and type $\beta$ has been proposed and a coding theorem has been established by considering the said measure and a generalized average ‘useful’ codeword length. Our motivation for studying this is that it generalizes some results which already exist in the literature.

MSC:

94A17 Measures of information, entropy
94A24 Coding theorems (Shannon theory)