

SOME NEW MEASURES OF FUZZY ENTROPY AND THEIR VALIDITY

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Abstract

After the introduction of the theory of fuzzy sets, it received recognition from different quarters and a considerable body of literature blossomed around this concept in an incredibly wide range of areas. Keeping in mind, the importance of fuzzy sets, we have introduced three new measures of fuzzy entropy and have verified their authenticity. For this purpose, we have studied the essential and desirable properties of the measures proposed in this paper.

Key Words: Entropy, Fuzzy Entropy, Fuzzy Set, Concavity, Monotonicity, Symmetry.

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