Statistical Modeling, Analysis and Management of Fuzzy Data (Bertoluzza, C., Gil; M.A., Ralescu, D.A., Eds.) Springer-Verlag, pp. 43-63

f-inequality indices for fuzzy random variables

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Abstract. This paper presents a generalized family of real-valued inequality indices associated with fuzzy-valued random elements. This family is first defined and later several general and particular desirable properties of the indices are examined. The unbiased estimation of an index of the above family is stated. Examples are considered to illustrate the studies developed in this paper.