MEASURES OF ASSOCIATION OF PLAUSIBLE EVENTS

Batyrshin Ildar Zakirzyanovich

Centro de Investigación en Computación, Instituto Politécnico Nacional, México

The paper considers the general methods of construction of non-statistical association measures on a set with given involutive operation. The measure of association is defined as a function satisfying the properties of the Pearson's correlation coefficient. The methods of construction of association measures on [0,1] with generators of involutive negations are proposed. The examples of association measures on [0,1] obtained by means of generators of Yager negation and pseudo-difference operations associated to basic t-conorms are considered.

Keywords: association measure, correlation coefficient, fuzzy negation, involution, similarity measure, t-conorm

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