

Residual Implications and Co-implications from Idempotent Uninorms

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Abstract: This paper is devoted to the study of implication (and co-implication) functions defined from idempotent uninorms. The expression of these implications, a list of their properties, as well as some particular cases are studied. It is also characterized when these implications satisfy some additional properties specially interesting in the framework of implication functions, like contrapositive symmetry and the exchange principle.

Keywords: t-norm; T-conorm; idempotent uninorm; aggregation; implication function;

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