SOME ASPECTS OF DOMINATION

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In the framework of probabilistic metric spaces the property of dominance has been formulated for triangle functions in order to ensure that the product of two probabilistic metric spaces is again a probabilistic metric space([3,2]). As a consequence the concept of domination has also been introduced in the framework of t-norms([1]) and a number of properties for dominating t-norms have been shown, e.g. domination is a reflexive and antisymmetric relation on the set of all t-norms. Whether it is also transitive is still an open question.

The aim of the talk will be to present a concept of domination for aggregation operators. Therefore basic definitions and properties connected to well-known properties of aggregation operators will be introduced. The second part will concentrate on aggregation operators dominating t-norms in general. Examples for specific t-norms and some aspects for applications will also be mentioned.

References

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