A Discussion on Aggregation Operators

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Abstract: It has been lately made very clear that aggregation processes can not be based upon a unique binary operator. *Global aggregation operators* have been therefore introduced as families of aggregation operators $\{T_n\}_n$, being each one of these T_n the n-ary operator actually amalgamating information whenever the number of items to be aggregated is n. Of course, some mathematical restrictions can be introduced, in order to assure an appropriate meaning, consistency and key mathematical capabilities. In this paper we shall discuss these standard conditions, pointing out their respective relevance.