

Basic concepts for a theory of evaluation: The aggregative operator

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Abstract

Starting with an explication of the "aggregative"- concept and deducing a general structure which satisfies a number of minimal requirements (properties of clustering) the main features of a new mathematical theory - called "theory of evaluation" - are developed. The theory sheds new light on such well-known concepts as membership, conjunction and disjunction and seems to be very promising tool to handle representation problems as they grow from the fields of theory of fuzzy set, and its many applications, of human decision making and multi-criteria analysis.