

Multiplication, Distributivity and Fuzzy-Integral III

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Abstract: Based on the results of generalized additions, multiplications and differences proven in Part I and II of this paper a framework for a general integral is presented. Moreover it is shown that many results of the literature are contained as special cases in our results.

Keywords: fuzzy measures; distributivity law; restricted domain; pseudo-addition; pseudo-multiplication; Choquet integral; Sugeno integral;

AMS Subject Classification: 28A25; 20M30;