

Theoretical Concept of Modifiers and Hedges

József Dombi
Department of Informatics
University of Szeged, Hungary

Abstract

Hedges and modifiers play an important role in fuzzy theory. While other areas as intersection, union, complement, aggregation, preference relation etc. are theoretically deeply studied, the hedges preserved its heuristic nature, and only some characteristics were studied - among other researchers - by Mattila. In our paper we give a general form of the hedges based on connectives building DeMorgan classes. It is an important corollary, that hedges are operator dependent. We proved that our proposals fulfill the most important features of hedges that can be expected.