Fuzzy Methods for Constructing Multi-Criteria Decision Functions

Ronald Yager, *Fellow, IEEE*

Abstract—Because of its ability to provide a bridge between linguistic expression and mathematical modeling fuzzy sets technology provides an idea framework for the construction of multi-criteria decision functions. In this talk we shall describe a number of aggregation operators associated with fuzzy set theory and see how they can be used to formulate multi-criteria decision functions. Particular attention will be paid to formulating multi-criteria functions from linguistically specified user requirements.

Ronald Yager Machine Intelligence Institute, Iona College, New Rochelle, NY 10801. E-mail: yager@panix.com