

Cognitive Maps Based on Pliant Logic

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Abstract

In this paper we present a tool for description, and for simulation of dynamic system. Our starting point is the aggregation concept, which were developed for multicriteria decision making. Using a continuous logic operator and proper transformation of sigmoid function we build positive and negative effects. From the input with the aggregation operator we calculate the output effect. This algorithm is comparable with the concept of fuzzy cognitive maps. We show this new technique, which could be much more efficient then the FCM.