Analysis of the Algorithm for the New Architecture of SFARTMAP based on the Extended Definition of Complementation of Fuzzy Set

Abstract

This article analyses the algorithm for the new architecture of SFARTMAP based on the extended definition of complementation of Fuzzy set. The extended definition of complementation of Fuzzy set is based on the fact that Fuzzy membership function and Fuzzy membership value for the complement of a Fuzzy set are two different things. In this paper, the analysis of the algorithm is carried out using Big O notation to find the order of growth for it.

References

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Index Terms

Computer Science Algorithms

Keywords

Complement of a Fuzzy set Fuzzy membership function Fuzzy membership value
Fuzzy reference function

Fuzzy set

Simplified Fuzzy ARTMAP.