

ABSTRACT

This final task addressed the problem of gaining the groups from data and how to describe it in interpretable form. Hence, an approach is needed to process raw data to be well-defined and clearly delineated semantics. The approach proposed for solving this problem is by fuzzy clustering and fuzzy sets.

In this final task, Double Clustering technique (one of fuzzy clustering mechanism in data mining) used to generate clusters called granules that afterwards quantified as fuzzy sets. The Double Clustering technique involves two steps i.e data clustering and prototype clustering which clusters the projection of these clusters along each dimension. The whole process called Fuzzy Granulation.

Double Clustering technique implemented using Delphi 7 and Microsoft Access as DBMS tool. The analysis indicated that Double Clustering technique produces a fuzzy cluster so that one data point can be a member of more than one cluster and explained by a degree of membership.

Keyword : Fuzzy Set, Information Granulation, Fuzzy Granulation Fuzzy Clustering, Double Clustering.