Abstract

Classification is an important topic in data mining research. Given a set of data records, each of which belongs to one of a number predefined classes, the classification problem is concerned with the discovery of classification rules that can allow records with unknown class membership to be correctly classified. Many algorithms have been developed to mine large data sets for classification models and they have been shown to be very effective. However, when it comes to determining the likelihood of each classification made, many of them are not designed with such purpose in mind. For such an application, the goal is not only to predict whether or not a subscriber would switch from one carrier to another, it is also important that the likelihood of the subscriber's doing so be predicted. Given its importance, an Evolutionary Algorithm (EA) called DMEL will be used. Furthermore, in this final project the research for time performance improvement of using fuzzy logic to adapting learning parameter is tested. The Result shows that Fuzzy EA can improve the DMEL learning time.

Keywords: data mining, classification, classification rules, mine, evolutionary algorithm, dmel, fuzzy logic.