Abstract

Data mining has emerged as most significant and continuously evolving field of research because of its ever growing and far reaching applications into various areas such as medical, military, financial markets, banking etc. One of the most useful applications of data mining is extracting significant and earlier unknown knowledge from real-world databases. This knowledge may be in the form of rules. Rule generation from raw data is a very effective and most widely used tool of data mining. Real life data are frequently imperfect, erroneous, incomplete, uncertain and vague. There are so many approaches for handling missing attribute values. In this paper we use the most common attribute value approach i.e. replacing all the missing attribute values by most frequently occurring attribute value and thereby completing the information table. Subsequently, we find the reduct and core of the complete decision table and verify that the reduct and core find by our method is same as the reduct and core find by ROSE2 software. Thereafter we generate the rules based on reduct. Our results are validated by conducting the same rough set analysis on the incomplete information system using the software ROSE2.

References

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Index Terms

Computer Science       Artificial Intelligence

Keywords

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