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CONSTRUCTION OF DECISION TREE BASED ON GINI AND ROUGH SET THEORY USING DATA MINING TECHNIQUES

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Abstract

This paper investigate the feasibility of applying rough set theory and gini to find out the classification rules, which is based upon information gain and equivalence relation. Decision tree induction is one of the most popular data mining techniques with application in various fields. In this paper, some of the discrete valued condition attributes and a single discrete valued decision attribute for knowledge representation are considered. The data is based upon surveys on rough set theory. The experiments were carried out in student data sets and the performance study were analyzed by the authors.

Key Words: Clustering, Data Mining, Decision tree, Gini, Information gain, Machine learning, Rough Set.