Abstract

Association rule mining play an important role in various data mining process. Genetic algorithm is various famous optimization techniques in association rule mining. Multiple constraints and meta-heuristic function play major role in efficient association rule mining technique. The multiple constrains applied in form of inbound and outbound condition and valued the rule for real time database. For the mining of rule mining a variety of algorithm are used such as Apriori algorithm and tree based algorithm. Some algorithm gives wonder performance but generate negative association rule and also suffers from multi-scan problem. In this dissertation, MLMS-GA association rule mining based on min-max algorithm is proposed. In this method a multi-level multiple support of data table as 0 and 1 is used. The divided process reduces the scanning time of database. Support length key is a vector value given by the transaction data set. For the process of rule optimization min-max algorithm is used and to evaluate algorithm the real world dataset such as Chess, Chess less, Abalone and some standard dataset are used from UCI machine learning repository.