

A NEW APPROACH TO ACTIVE RULE ANALYSIS AND REORGANIZATION

Kittisak Kerdprasop
School of Computer Engineering, Suranaree University of Technology
Nittaya Kerdprasop
Department of Mathematics, Chulalongkorn University

Abstract

In this paper, we propose a novel approach of applying machine learning technique to discover a new set of simplified active rules from the existing rule set. The termination property of the discovered active rule set is guaranteed via the stratification technique. The approach of discovering active rules is proposed in the context of relational active databases. It is an attempt to assist database designers by providing the facility to analyze and refine active rules. The experimental results revealed that with the proposed approach, the size and complexity of the active rule set could be reduced to 61.11% and 40%, respectively, on average.