

Knowledge Discovery for Trigger Conflict Resolution

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ABSTRACT

Active behavior of the active database systems is obtained through the set of trigger rules, also known as the event-condition-action rules. The event, such as the modification of a database state, can activate the triggers. If the trigger's condition is satisfied, then the corresponding actions are performed. The problem may arise if several trigger rules are eligible for execution. To solve the problem of trigger rule conflict, the database management system must provide a conflict resolution policy to select a trigger rule for execution. We propose a conflict resolution scheme that incorporates derived knowledge, which is induced from the database content, as a major part of the trigger rule prioritization¹. By means of the trigger scheduling, deterministic behavior of the trigger processing can be guaranteed.

Keywords: knowledge discovery, triggers, conflict resolution, active databases

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