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#### 论文

基于粗糙集的多维关联规则挖掘方法

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摘要:

海量的数据使得关联规则挖掘非常耗时,而并非所有的规则都是用户感兴趣的,应用传统的挖掘方法会挖掘出许多 无关信息。此外,目前大部分算法是针对单维规则的。因此,定义了一种挖掘语言使得用户可以指定感兴趣的项以 及关联规则的参数(如支持度,置信度等),并提出一种基于粗糙集理论的多维关联规则挖掘方法,动态生成频繁 集和多维关联规则,减少频繁项集的生成搜索空间。实例分析验证该算法的可行性与有效性。

关键词: 关联规则 多维关联规则 频繁集 粗糙集 association rules multi-dimensional association rules frequent item sets Rough Set (RS)

Method based on rough set for mining multi-dimensional association rules

#### Abstract:

It is very time-consuming to discover association rules from the mass of data, and not all the rules are attractive to the user, so a lot of irrelevant information to the user's requirements may be generated when traditional mining methods are applied. In addition, most of the existing algorithms are for discovering one-dimensional association rules. Therefore, the authors defined a mining language which allowed users to specify items of interest to the association rules, as well as the parameters (for example, support, confidence, etc.). A method based on rough set theory for multi-dimensional association rules mining was also proposed, which dynamically generated frequent item sets and multi-dimensional association rules, and reduced the search space to generate frequent item sets. Finally, an example verifies the feasibility and effectiveness of the method.

### Keywords:

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