基于模糊关联规则的海量数据挖掘方法研究

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摘 要：针对传统的数据挖掘方法一直存在计算时间复杂度较高，耗时长的问题，提出基于模糊关联规则的海量数据挖掘方法，首先通过对模糊理论、关联规则挖掘、模糊关联规则挖掘进行分析，实现对模糊关联规则的论述，在此基础上，将海量数据进行模糊化处理，建立模糊数据库，并对模糊数据库中模糊数据进行分类聚集，以及连续属性离散化处理，确定模糊数据库的频繁关联规则，从而实现基于模糊关联规则的海量数据挖掘方法.实验结果表明，所提方法能够降低数据挖掘消耗的时间及内存，且进行数据的挖掘支持度较高，为数据挖掘提出新的思路.

关键词：模糊关联规则；海量数；数据挖掘

Research on Massive Data Mining Method Based on Fuzzy Association Rules

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Abstract： According to the traditional data mining methods have been calculated with high time complexity, time-consuming problem, proposed massive data mining method based on fuzzy association rules, based on fuzzy theory, association rules mining, mining fuzzy association rules analysis, implementation of fuzzy association rules is discussed, on the basis of this, the mass data are fuzzy with the establishment of fuzzy database, and to classify the aggregation of fuzzy data in fuzzy database, and discretization of continuous attributes, determine the frequent association rules in fuzzy database, so as to realize the data mining method based on Fuzzy Association rules. Experimental results show that the method proposed in this paper can reduce the time and memory consumed by data mining, and this method has more support for data mining, and puts forward new ideas for data mining.

Key words： fuzzy association rules; massive quantity; data mining

参考文献：