

论文

基于垂直二进制位图的频繁模式挖掘算法

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摘要:

采用垂直二进制位图映射事务数据库, 提出了用二进制位图生成一种新的NBFP-Tree结构, 并据此提出了一种新的频繁模式挖掘算法NBFP-mine. 该算法不产生候选集, 对NBFP-Tree结构进行深度优先遍历一次, 就可从NBFP-Tree结构上直接查找出最大频繁模式. 最后, 从理论分析和实践验证了它的高效性.

关键词: 垂直二进制位图 二进制位串 NBFP-Tree结构 NBFP-mine算法

Algorithm of mining frequent patterns based on the vertical bitmap

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Abstract:

The vertical bitmap transaction database is introduced to propose a new data structure of the NBFP-Tree based on it. A new algorithm, NBFP-mine, is also offered which is used to mine maximal frequent patterns. This method does not generate any candidate, which can query the maximal frequent patterns easily from the NBFP-Tree directly by once accessing depth-first ergodic of this data structure. Finally, its high efficiency is proved theoretically and experimentally.

Keywords: vertical bitmap bit vector NBFP-Tree structure NBFP-mine algorithm

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