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Abstract
A high-effect Distributed Mining System based on FP-tree is proposed to solve the time-consuming processes in data mining.
The effectiveness of distributed mining system relies on integrating mining output and how long the calculation spent on nodes. Besides, the times of connection to database and the amount of data to process are important factors as well in terms of how efficient the integration in data mining will be. Peer-to-peer (P2P) data exchange and data allotment by row count are the conventional ways in distributed data mining. However, both P2P which requires too many connections to database system and uneven data allocation according row count to a certain node degrade the system performance in handling mining processes. Therefore, this paper employs client/sever architecture to decrease the times of connection to database. On the aspect of the data allocation, data are evenly distributed according to the amount of the item set.
Basing on FP-tree algorithm which produces high efficiency in searching, this article steps further to adopt the merits of distributed system to enhance the data process in data mining.
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