Abstract

Sequential pattern mining is a significant data-mining method for determining time-related behavior in sequence databases. The information achieved from sequential pattern mining can be used in marketing, medical records, sales analysis, and so on. Existing methods only focus on the concept of frequency because of the assumption that sequences’ behaviors do not change over time. Several efficient algorithms for maintaining sequential patterns have been developed. Old datasets are deleted while some other datasets are updated. It is obvious time stamp as an important attribute of each dataset, also it is important in the process of data mining and it can gives us more accurate and useful information. Although there have been many recent studies on the sequential patterns in static database. But the complexity of sequential pattern mining is when increasing the data in dynamically, As time passes by new data sets are inserted.

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**Index Terms**

Computer Science

Artificial Intelligence
Keywords
Sequential pattern mining  Sequence Database  Apriori  SPADE  Time constraint