Abstract

Basically a Data Mining system would generate thousands or even millions of patterns or rules. However all the generated patterns would not actually be interesting to any given user; in fact the interestingness of the patterns would be assessed only on the user's beliefs and expectations which is rather termed as subjective measure. When such interesting patterns are to be shared in a collaborative business environment, it would be more meaningful to restrict them based on the significance of individual items in the patterns to be protected. Hence, this work attempts to hide interesting patterns on the subjective measure and propose an algorithm which is tested for its effectiveness.

References

Knowledge Protection by Subjective Measure

- The Dataset used in this work for experimental analysis was generated using the generator from IBM Almaden Quest research group and is publicly available from http://fimi.ua.ac.be/data/.

Index Terms

Computer Science  Artificial Intelligence

Keywords

Subjective measure  Restrictive patterns  Sensitive transactions  Maxcover  Sanitization.