Abstract

Computer users play important role in all organizations. The users are software engineers, data entry or other kind. However having know how about the users is very useful as it helps in predicting their actions and finding whether they are compatible with their job profile, assisting them to do their job in better way and also detect adversaries or masqueraders. In this paper it analyzes computer user behavior based on the commands that they execute as part of their job profile. The commands are compared with sequence of commands associated with their profile in order to generate user behavior profiles. The profiles are evolved over a period of time and they are dynamic as the users get different positions in company and get associated with various job roles. For this reason the user behavior profiles are continually updated on order to ensure that they reflect the true knowledge of the behavior of users with respect to their job roles. It built a prototype application to demonstrate the efficiency of this approach. The empirical results revealed that this approach is useful in helping users and also monitoring their behavior in work environment and take necessary actions.
Knowledge Discovery from Dynamically Evolving User Profiles


Index Terms

Computer Science Data Mining

Keywords

User behavior profiles job roles classifiers user modeling