Abstract

The security of a system is an important issue due to the latest advancements in information technology. Intrusion Detection Systems are used to identify the attacks and malicious activities in the computer systems. This paper discusses a new host based intrusion detection system for detecting changes in hardware profile using fuzzy inference rule. The proposed system is able to analyze and detect the unauthorized access in a computer system by generating a set of fuzzy IF-THEN rules with the help of frequent item set. These fuzzy inference rules are used to find the misuse of the system. The experiments of the proposed system are carried out on the system performance log.

References

- Han J., Pei J., Yin Y., Mao R., “Mining Frequent Patterns without Candidate Generation: A Frequent-Pattern Tree Approach,” Data Mining and Knowledge Discovery, Vol. 8(1), pp. 53-87, 2004.

Index Terms

Computer Science

Security
Keywords
Intrusion Detection System (IDS)  Fuzzy logic  System performance log  Fuzzy inference rules