Abstract

With the rapid expansion of computer usage and computer network the security of the computer system has became very important. Every day new kind of attacks are being faced by industries. As the threat becomes a serious matter year by year, intrusion detection technologies are indispensable for network and computer security. A variety of intrusion detection approaches be present to resolve this severe issue but the main problem is performance. It is important to increase the detection rates and reduce false alarm rates in the area of intrusion detection. In order to detect the intrusion, various approaches have been developed and proposed over the last decade. In this paper, a detailed survey of intrusion detection based various techniques has been presented. Here, the techniques are classified as follows: i) papers related to Neural network ii) papers related to Support vector machine iii) papers related to K-means classifier iv) papers related to hybrid technique and v) paper related to other detection techniques. For comprehensive analysis, detection rate, time and false alarm rate from various research papers have been taken.
- Adel Nadjaran Toosi, Mohsen Kahani, "A new approach to intrusion detection based on an evolutionary soft computing model using neuro-fuzzy classifiers," Computer
- Hesham Altwaijry, Saeed Algarny, "Bayesian based intrusion detection system," Journal of King Saud University, Computer and Information Sciences, 2010.

Index Terms

Computer Science
Security
Keywords
Intrusion detection  clustering  classifier  detection rate  false alarm rate