Abstract

Intrusion Detection: collection of techniques that are used to identify attacks on the computers and network infrastructures. Anomaly detection, which is a key element of intrusion detection. In Anomaly Detection, perturbations of normal behavior suggest the presence of intentionally or unintentionally induced attacks, faults, defects, etc. This paper focuses on an approach based on deep learning to develop an effective and flexible network intrusion detection system implemented using self-taught learning on NSL-KDD data set.

References

2. Gustavo Nascimento, Miguel Correia, Anomaly-based Intrusion Detection in Software as a Service


7. Quamar Niyaz, Weiqing Sun, Ahmad Y Javaid, and Mansoor Alam, A Deep Learning Approach for Network Intrusion Detection System

**Index Terms**

Computer Science  
Networks

**Keywords**