Detecting Network Intrusion through a Deep Learning Approach

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 180
Number 14

Year of Publication: 2018

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10.5120/ijca2018916270

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

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Index Terms

Computer Science

Networks

Keywords