AI based Hybrid Ensemble Technique for Network Security

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Abstract

Due to excessive use of internet the problem of intrusion is also increased. So, to detect the intrusion in the network traffic, various AI based intrusion detection techniques are used but there is no such technique is available which is used for detecting the network attacks or monitors system activities for malicious activities and produces reports to a management station that can detect various types of network attacks with high accuracy. So the idea of this research paper is to find promising AI based method which classify each type of network traffic class and combine them by proposing an effective combination technique i.e. ensemble technique which can detect all network attacks, so as to increase the overall accuracy and
performance of the IDS.

References

- D. TIGABU, "Constructing predictive model for network intrusion detection.

- J. Zhang and M. Zulkernine, "Network intrusion detection using random forests.

- K. Kumar, G. Kumar, and Y. Kumar, "Feature selection approach for intrusion detection system.

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- Oliver Sutton, "Introduction to K nearest Neighbour Classification," February 2012.
- P. De Boer and M. Pels, "Host-based intrusion detection systems," Amsterdam University, (2005).

**Index Terms**

Computer Science

Security

**Keywords**

Tp Rate  Fp Rate  Precision  F-measure  Roc Area