AI based Hybrid Ensemble Technique for Network Security

IJCA Proceedings on International Conference on Advancements in Engineering and Technology

© 2016 by IJCA Journal

ICAET 2016 - Number 8

Year of Publication: 2016

Authors:

Indubala

Yogesh Kumar

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
AI based Hybrid Ensemble Technique for Network Security

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.

AI based Hybrid Ensemble Technique for Network Security

- Oliver Sutton, "Introduction to k nearest Neighbour Classification," Feburary 2012.
- P. De Boer and M. Pels, "Host-based intrusion detection systems," Amsterdam University, (2005).
AI based Hybrid Ensemble Technique for Network Security

Engineering (IJSE) ISSN, pp. 2231–2307,(2013).

Index Terms

Computer Science  Security

Keywords

Tp Rate  Fp Rate  Precision  F-measure  Roc Area