Abstract

The feature selection approach provides improved prediction and minimizes the computation time. Due to the higher numbers of features the understanding of the data in pattern recognition becomes difficult sometimes. That's why researchers have used different feature selection techniques with the single classifiers in their intrusion detection system to build up a model which gives a better accuracy and prediction performance. In this paper, we provide a comparative analysis with the feature selection approach in WEKA machine learning tool using the J48 classifier. The research work show the comparison of the performance of single J48 classifier with filter methods. The prediction performance may differ marginally in some cases but with the removal of irrelevant features time complexity can be easily ignored and a better prediction rate is guaranteed.

References
An Analytical Comparison on Filter Feature Extraction Method in Data Mining using J48 Classifier


5. Dr. Neeraj Bhargava, Girja Sharma and Dr. Ritu Bhargava,(2013),"Decision Tree Analysis on J48 Algorithm for Data Mining", IJARCSSE, Volume 3, Issue 6, June 2013 .


18. Yinhui Li, Jingbo Xia (2012). "An efficient intrusion detection system based on support vector machines and." expert systems with applications, ELSEVIER.

**Index Terms**

Computer Science  
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**Keywords**