Abstract

Reduces the file size and increase the performances of classification and intrusion detection technique used in current research trend. The reduction of file size and number of attribute used dimension reduction algorithm and optimization algorithm. Various authors used genetic algorithm, ANT colony optimization and neural network. In this paper used particle of swarm optimization technique for feature reduction and feature selection for support vector machine classification process. The proposed algorithm implemented in MATLAB software and used DARPA dataset for evaluation of proposed method. Our empirical result shows that better detection ratio in compression of other exiting technique such as FCMNN, GSVM.
Improved Intrusion Detection Technique based on Feature Reduction and Classification using Support Vector Machine and Particle of Swarm Optimization

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Index Terms

Computer Science  Security

Keywords

IDS  Feature Reduction  SVM  POS