INVESTIGATION OF FEATURE SELECTION AND ENSEMBLE METHODS FOR PERFORMANCE IMPROVEMENT OF INTRUSION ATTACK CLASSIFICATION

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ABSTRACT

The security of a computer system is compromised when an intrusion takes place. The popularization of shared networks and Internet usage demands increases attention on information system security. Importance of Intrusion detection system (IDS) in computer network security well proven. Data mining approach can play very important role in developing intrusion detection system. Classification is identified as an important technique of data mining. This paper investigates the possibility of using ensemble algorithms and feature selection to improve the performance of network intrusion detection systems.

KEYWORDS: Intrusion Detection System, Classification Algorithm, Feature Selection, Ensemble Methods