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A PROJECT REPORT

on

INTRUDER ALARM SYSTEM

Submitted by

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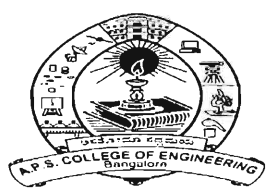

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ABSTRACT

The Intruder Alarm system combines the advantages of low false-positive rate of signature-based Intrusion Detection System (IDS) and the ability of Anomaly Detection System (ADS) to detect novel unknown attacks. By mining anomalous traffic episodes from Internet connections, an ADS is built that detects anomalies beyond the capabilities of signature-based SNORT or Bro systems. A weighted signature generation scheme is developed to integrate ADS with SNORT by extracting signatures from anomalies detected. IAS extracts signatures from the output of ADS and adds them into the SNORT signature database for fast and accurate intrusion detection. IAS detects a network anomaly if the incoming traffic pattern deviates from the normal profiles with much enhanced performance. The IAS approach proves the vitality of detecting intrusions and anomalies, simultaneously, by automated data mining and signature generation over Internet connection episodes.