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(57) Abstract :

An intelligent intrusion detection system comprise of a data collection module that fetches logging data from internet, a processor that involves data cleaning for transforming the data into a compatible data, a data repository for storing and organizing the compatible data in a logical manner, a computing unit that involves feature extraction and selection related to physical taxonomy of raw sensitive monitoring logs from the compatible data, a security management module for recognizing security incident(s), abnormal exclusion(s) by analyzing the extracted and selected feature(s) via a bayesian optimization protocol and a recommendation module that recommends optimal proactive approaches according to recognized incident(s) and exclusion(s) to ensure high security in dynamic and fast changing networks.

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