

# Machine learning – Driven Approach for Classifying and Predicting DDoS Incidents

## ABSTRACT

The appearance of malicious apps is a serious threat to the Android platform. Most types of network interfaces based on the integrated functions, steal users' personal information, and start the attack operations. In this paper, we propose an effective and automatic malware detection method using the text semantics of network traffic. We consider each HTTP flow generated by mobile apps as a text document, which can be processed by natural language processing to extract text-level features.

We propose a novel solution to perform malware detection using NLP methods by treating mobile traffic as documents. We apply an automatic feature selection algorithm based on N-gram sequence to obtain meaningful features from the semantics of traffic flows. Our methods reveal some malware that can prevent detection of antiviral scanners. Integrating the system connected to the computer to find suspicious network behaviours.

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