RESEARCH ARTICLE

Automatic Detection and Restraining Mobile Virus Propagation using Android

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*Abstract— **The mobile viruses and malwares is difficult that desires to be reported in the future. Today's lot of studies regarding PC viruses and worms, but very less effect has been done concerning the same issues in the mobile environment. But rapid growth of smart phone users, it increasingly become the target of propagating viruses through the Bluetooth and Wi-Fi and spread into the mobile networks. In a mobile viruses and malwares can cause privacy leakage, extra charges, depletion of battery power, remote listening and accessing private short message and call history logs etc., Furthermore, they can scrape wireless servers by sending lot of spam messages or track user positions through GPS [3]. In this we propose a two layer network model for spreading virus through both Bluetooth and SMS/MMS. Our work addressed the effect of human behaviors, i.e., Operational behavior and Mobile behavior, on virus propagation. Moreover, we observe two strategies for avoid mobile virus propagation, i.e., Preimmunization and Adaptive Dissemination strategies represent on the methodology of Autonomy-Oriented Computing (AOC) [13]. So that by using the method it can automatically detect and delete both Bluetooth and SMS virus before enter into the Smartphone operating system.***

Keywords— AOC; Preimmunization; Adaptive Dissemination; Bluetooth; SMS/MMS

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