



A TREATISE ON CYBER DEFENSE AND DIFFERENT ASPECTS

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ABSTRACT

This paper deals with the loopholes in cyber space and various forms of generic cyber attacks such as spreading of malwares, malicious autobots and others. After the introductory part, we have instilled the role of statistical and differential approach to handle the problems in cyber space. The investigation is built on recent studies in mathematical malware models which originated in the mathematical biological epidemic models introduced in the 1920's and was first used to study of spreading of computer viruses in 1990s. All these models made the homogeneous assumption that each element (i.e. computer or any other mobile device) in the population has equal infection effect on the other elements in the population, and the assumption that the infected elements recover because of reactive defense (e.g. anti-malware tools).

KEYWORDS: *Cyber attacks, model, security.*