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## Abstract

Botnets represent a serious security threat on the Internet. Current security mechanism are typically inadequate for protecting against the latest breed of botnets, as bothers constantly develop new techniques and methods to frustrate investigators. Until recently, mobile networks have been relatively isolated from the Internet, so there has been little need for protecting against botnets. However, this situation is rapidly changing. With the rapid development of the computing and Internet access (i.e., using WiFi, GPRS and 3G) capabilities of smartphones, constructing practical mobile botnets has become an underlying trend. Thus, threats on the Internet most likely will migrate over to the mobile networks and vice versa. Botnets of malware

injected into mobile devices will probably appear very soon, and there are already signs of this happening. This paper analyses the potential threat of botnets based on mobile networks. The study done will be further utilized for improving the performance of the developed "Efficient Generalized Forensics Framework for Mobile Devices". To conclude our paper, we suggest possible defenses against the emerging threat

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## Index Terms

Computer Science

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**Keywords**

Botnet Security Threat Malware Mobile Devices Smartphone MobileForensics