Abstract

The existence of mobile devices in today's modern society has generated greater advantages to many users especially within the African continent with regard to how information is being disseminated. However, the efficacy of mobile device technology has not come without some drawbacks, especially with the proliferation of Internet enabled mobile devices among young people. Trends of cyber-bullying, for example, are on the increase and recent studies in South Africa have shown that the use of mobile devices among school pupils between the ages of 2 to 17 years is at 60%. This can only be attributed to mobile device proliferation, increased cyber technologies like social network and change of communication modes. For this reason, one might end up being excluded from this environment if one excludes oneself from the modern communication culture. However, with all this advances in mobile communication technologies, there lacks proper guidance on the side of young people with regard to the proper use of mobile devices and their forensic readiness capability. This is aggravated by the fact that a bigger percentage of parents also have no knowledge of what young people do online especially with their mobile device features such as online chat rooms, cyber-bullying, and sexting.
Therefore, the problem being addressed in this paper is that: by the time of writing this paper, there exist no reliable and effective mobile forensic readiness models that can be used to create awareness to both young people and their parents on how to minimize cyber-bullying. This paper thus proposes a mobile forensic readiness model that can minimize cyber bullying, enhance awareness on issues of cyber bullying as well as the creation of parental guidance information on cyber bullying. The model can also act as a monitoring tool that can be embedded on different mobile devices assigned to, for example, learners and minors. The embedded model can then help parents and guardians to identify and maintain control of the various information and online activities that children engage in. Mobile forensic readiness model aimed at minimizing cyber bullying, as well as enhance awareness on issues of cyber bullying, constitutes the main contribution of this paper.

References


Index Terms

Computer Science Security

Keywords

Mobile forensic readiness model, cyber bullying, Mobile devices, content monitoring.