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Emerging Security Challenges for Information Systems in Mobile Computing Environment in Universities

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ABSTRACT

Universities are shifting from partially computerized to fully automated environments and technology is equally shifting from point to point to broadcasting options. These trends are resulting in mobile computing for most university users with systems accumulating enormous amount of public, private as well as confidential data on employee, students and the institution. However, mobile computing systems normally come with security challenges and different vulnerabilities that make users hesitate adopting them despite the many benefits they bring. The purpose of this Paper was to establish the emerging security challenges of information systems in mobile computing environments in universities. The study was undertaken using multi-case method and through scrutiny of literature on security challenges in information system. Stratified random sampling and purposeful sampling was used to select respondents from six public and two private universities. It was established that the emerging security challenges in universities in mobile computing to be rising as technology advances. The findings will help the mobile computing implementers and university management determine when there is need for enhancement of existing security approaches to mobile computing and mitigate on the future trends in security for the information systems.

Key words: Information System, Mobile computing, Security challenges, Approaches, Threats, Vulnerability.

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