

## International Journal of Computer Science and Mobile Computing



A Monthly Journal of Computer Science and Information Technology

ISSN 2320-088X

*IJCSMC, Vol. 3, Issue. 3, March 2014, pg.276 – 282*

### **RESEARCH ARTICLE**

# **DESIGN AND IMPLEMENTATION OF BALLOT MALFUNCTIONING AVOIDANCE SYSTEM SECURITY OPTIMIZATION**

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*Abstract-- Voting has existed for several years and the process of voting has progressed over the years. Voting has migrated in some countries from hand ballot systems to more electronic means such as Internet voting. An electronic voting system requires a higher level of security than an E-commerce system, the platform over which electronic voting is carried out goes a long way in determining the security requirements they can achieve and its practicability in actual elections. Traditional voting systems also has its shortcomings in terms of lack of Voter's mobility, flexibility, individual verifiability and accuracy of the tallying process due to human errors which can be addressed using an electronic voting over a secure platform. These issues have inspired this thesis in which I intend to propose an electronic voting scheme which is more secure and offering maximum facilities.*

*Keywords— Voting; Internet voting; Security; Electronic voting; E –commerce system; Ballot system*

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Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201487.pdf>