Abstract

A technique which is used to identify whether user is human or robot is called CAPTCHA. This technique has been using from last few decades for security concern, it is a kind of Turing test. Usually, distorted alphabets are generally used for this kind of test, because it has been known that, it is easy to analyze the distorted letters by human but not by robot or bots. But now there are so many intelligent machines which can recognize these alphabets, so the security has been broken. Then there are so many researchers have been made over this security, like OTP based, moving letters, 3d letters and gaming CAPTCHA. But somewhere somehow they are lacking with their complexities or breakable approach. Gaming CAPTCHA was the best and modern approach for providing better security in the field of CAPTCHA. But the gaming level is weak with static targets or objects, which may be breakable for somehow because robot will have infinite time to break game by analyzing and targeting static objects and targets. So to overcome this problem a new promising concept has been proposed in this paper i.e. “Dynamic Object & Target based Gaming CAPTCHA for Better Security Analysis”, it is most attractive and cognitive way in the world of CAPTCHA. This CAPTCHA will have dynamic target and objects, it
means that target and object will be in motions and user will be asked to drag and drop these moving object to the moving target even within limited time or session, which is easily possible for human but almost impossible for robot.

References

1. Vipin Kumar, Atul Barve, “A survey on existing CAPTCHA techniques & proposed gaming CAPTCHA for better security analysis” IJCSE Vol-5, Issue 1, 2017
6. Jing-Song Cui, Jing-Ting Mei, Xia Wang, Da Zhang, Wu-Zhou Zhang in “A CAPTCHA Implementation Based on 3D Animation”, international conference of IEEE,2009
7. Wai Chow1, Willy Susilo2, Hua-Yu Zhou1 ,“CAPTCHA Challenges for Massively Multiplayer Online Games”, International Conference on Cyber worlds of IEEE,2010
8. Jing-Song Cui, Jing-Ting Mei, Wu-Zhou Zhang, Xia Wang, Da Zhang, “A CAPTCHA Implementation Based on Moving Objects Recognition Problem”, international conference of IEEE,2010

Index Terms

Computer Science  Security
Keywords

CAPTCHA, Drag and Drop, Game, Session, Time, etc.