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## Abstract

With the growing and prevalent usage of Internet, threat for the service providers has arisen. One of the most important aspects of modern security concerns is to deal with users that are computer programs or bots. These programs pretend to be human users and exploit servers by submitting data automatically, thereby, hindering the services of the server. Security mechanism dealing with such attacks is called Completely Automated Turing test to tell Computers and Humans Apart (CAPTCHA). This paper discusses and analyzes broad CAPTCHA mechanisms and recent researches that have either reformed or flunked, previous techniques and methods. Also, a technique is proposed that counteracts the shortcomings or inabilities of such techniques.

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### Index Terms

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### Keywords

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