ABSTRACT

CAPTCHA (Completely Automated Public Turing test to tell Computers

and Humamns Apart) is an application to authentication user, it is a human or a

spam. Generally, CAPTCHA is an image that contain letter or number which is

broken by noise. This test involve user to type the result of letter or number

displayed. But almost all website owner didn't know how secure their CAPTCHA,

so that spam can attack their website in act like human.

In this final project, already made a simulation for automated reader system

for CAPTCHA multiline background, which is contain text with number, noise salt

and pepper, multiline background with different thickness, and have two possibility

background colour (white and black). To solve text displayed, there are many stage

to remove all background which can make the detection is more difficult, and then

find the feature to do the final stage recognition.

According to the analysis and testing, system have an accuration until 25%

for whole accuration, 78.3% for character accuration, 90% for segmentation

accuration, and the duration is about 0.2 seconds.

Keyword: CAPTCHA, multiline background, noise salt and pepper.

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