Abstract

There is a lot of activity over the internet. Be it, posting a comment on someone’s blog or making a Gmail account or booking a ticket online. But with that also comes the problem of spamming. “Completely Automated Public Turing test to tell Computers and Humans Apart” (CAPTCHA) [8] which are the twisted words that block the entries of bots on website. CAPTHCAs can effectively test if the user is human or machine. Hence it is of great importance that CAPTCHA is well checked for its vulnerability against such attacks. So this paper presents this medium to check the strength of CAPTCHA against the written CAPTCHA cracking code. This can be used by the web developers implementing CAPTCHA, to check well in advance how secure is the CAPTCHA used in their software.

References

1. Mr.Nithya.E and Dr. Ramesh Babu D R June 2013 OCR System for Complex Printed Kannada Characters.
2. Sandeep Tiwari, Shivangi Mishra, Priyank Bhatia, Praveen Km. Yadav May 2013 Optical Character Recognition using MATLAB.
3. Jeff Yan and Ahmad Salah El Ahmad A Low-cost Attack on a Microsoft CAPTCHA.
4. Silky Azad & Kiran Jain, CAPTCHA: Attacks and Weaknesses against OCR Technology
5. Prof. (Mrs.) A.A. Chandavale and Prof. Dr.A.M. Sapkal and Dr.R.M.Jalnekar ,Algorithm To Break Visual CAPTCHA.
6. Hina Parveen and Sudhir Singh, Captcha Recognition and Robustness Measurement using Hybrid Approaches
7. Elie Bursztein, Jonathan Aigrain and Angelika Moscicki The End is Nigh: Generic Solving of Text-based CAPTCHAs
8. Christoph Fritsch, Michael Netter, Andreas Reisser, and Günther Pernul, Attacking Image Recognition Captchas A Naïve but Effective Approach
9. Luis von Ahn1, Manuel Blum1, Nicholas J. Hopper1, and John Langford CAPTCHA: Using Hard AI Problems For Security
10. Bin B. Zhu*1, Jeff Yan2, Qiujie Li3, Chao Yang4, Jia Liu5, Ning Xu1, Meng Yi6, Kaiwei Cai7, Attacks and Design of Image Recognition CAPTCHAs

Index Terms

Computer Science
Pattern Recognition

Keywords

CAPTCHA, OCR, Image Processing, MATLAB, Turing Test, CAPTCHA Cracking.