**User–Aided Encryption using Virtual Password Mechanism**

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**Abstract:**

People enjoy the convenience of on-line services, but

online environments may bring many risks. In this paper , we

discuss how to prevent users’ passwords from being stolen by

adversaries. We propose a virtual password concept involving a

small amount of human computing to secure users’ passwords in

on - line environments. We adopt user - determined randomized

linear generation functions to secure users’ password based on the

fact that a server has more information than any adversary does.

We analyze how the proposed scheme defends against phishing,

key logger, and shoulder - surfing attacks. To the best of our

knowledge, our virtual password mechanism is the first one which

is able to defend against all three attacks together.

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