DEFENCES AGAINST LARGE SCALE ONLINE PASSWORD GUESSING ATTACKS BY USING ADVANCES FEATURES OF KBAM

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ABSTRACT

Usable security has distinctive usability challenges because the need for security often means that standard human-computer-interaction approaches cannot be directly applied. An important usability goal for knowledge-based authentication systems is to support users in selecting passwords of higher security, in the sense of being from an expanded effective security space. This paper presents an integrated evaluation of the Persuasive Cued Click-Points graphical password scheme, including usability and security evaluations, and implementation considerations using knowledge based authentication mechanisms. We use persuasion to influence user choice in click-based graphical passwords, encouraging users to select more random points, and hence more difficult to guess, click-points. Our resulting scheme comprehensively reduces hotspots while still maintaining its usability.

KEYWORDS: Authentication, Empirical Studies, Graphical Passwords, Knowledge Based Authentication Mechanism, Persuasive Cued Click –Points, Usable Security