Title: Human Computable Passwords

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Problem description:

Managing passwords is a significant problem for most people in the modern world. This project will be based around a recent paper proposing a method for humans to be able to re-compute passwords from public and reliable storage. The first stage of this project will be to understand the scheme and compare it with related methods and existing password management systems. After obtaining an decent understanding of the concepts of the scheme, the project will implement the system to be able to test its usefullness.

After this the project can develop in a number of different ways including: implementing the system and testing its usefulness; designing variants and extensions of the proposed model and construction; assessing the validity of the scheme by testing human behaviour.

Responsible professor: Colin Boyd, ITEM

Supervisor: Colin Boyd, ITEM

Abstract

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[Blo14]

References

[Blo14] Jeremiah Blocki. *Usable Human Authentication: A Quantitative Treatment.* PhD thesis, School of Computer Science, Carnegie Mellon University, 2014.