

3D Graphical Password Schema

IEEE: A Novel 3D Graphical Password Schema

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ABSTRACT

In this paper, we propose and evaluate our contribution which is a new scheme of authentication. This scheme is based on a virtual three-dimensional environment. Users navigate through the virtual environment and interact with items inside the virtual three-dimensional environment. The combination of all interactions, actions and inputs towards the items and towards the virtual three-dimensional environment constructs the user's 3D password. The 3D password combines most existing authentication schemes such as textual passwords, graphical passwords, and biometrics into one virtual three-dimensional environment. The 3D password's main application is the protection of critical resources and systems.

INTRODUCTION

Normally the authentication scheme the user undergoes is particularly very lenient or very strict. Throughout the years authentication has been a very interesting approach. With all the means of technology developing, it can be very easy for 'others' to fabricate or to steal identity or to hack someone's password. Therefore many algorithms have come up each with an interesting approach toward calculation of a secret key. The algorithms are such based to pick a random number in the range of 10^6 and therefore the possibilities of the same number coming is rare.

Users nowadays are provided with major password stereotypes such as textual passwords, biometric scanning, tokens or cards (such as an ATM) etc. Mostly textual passwords follow an encryption algorithm as mentioned above. Biometric scanning is your "natural" signature and Cards or Tokens prove your validity. But some people hate the fact to carry around their cards, some refuse to undergo strong IR exposure to their retinas (Biometric scanning). Mostly textual passwords, nowadays, are kept very simple say a word from the dictionary or their pet names, girlfriends etc. Ten years back Klein performed such tests and he could crack 10-15 passwords per day. Now with the technology change, fast processors and many tools on the Internet this has become a Child's Play. Therefore we preset our idea, the 3D passwords which are more customizable, and very interesting way of authentication.

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Ying Liu



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Table of Contents Ieee Base Paper Graphical Password

1. Understanding the eBook Ieee Base Paper Graphical Password
 - The Rise of Digital Reading Ieee Base Paper Graphical Password
 - Advantages of eBooks Over Traditional Books
2. Identifying Ieee Base Paper Graphical Password
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ieee Base Paper Graphical Password
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ieee Base Paper Graphical Password
 - Personalized Recommendations
 - Ieee Base Paper Graphical Password User Reviews and Ratings
 - Ieee Base Paper Graphical Password and Bestseller Lists
5. Accessing Ieee Base Paper Graphical Password Free and Paid eBooks

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- Ieee Base Paper Graphical Password eBook Subscription Services
- Ieee Base Paper Graphical Password Budget-Friendly Options
- 6. Navigating Ieee Base Paper Graphical Password eBook Formats
 - ePub, PDF, MOBI, and More
 - Ieee Base Paper Graphical Password Compatibility with Devices
 - Ieee Base Paper Graphical Password Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ieee Base Paper Graphical Password
 - Highlighting and Note-Taking Ieee Base Paper Graphical Password
 - Interactive Elements Ieee Base Paper Graphical Password
- 8. Staying Engaged with Ieee Base Paper Graphical Password
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ieee Base Paper Graphical Password
- 9. Balancing eBooks and Physical Books Ieee Base Paper Graphical Password
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ieee Base Paper Graphical Password
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ieee Base Paper Graphical Password
 - Setting Reading Goals Ieee Base Paper Graphical Password
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ieee Base Paper Graphical Password
 - Fact-Checking eBook Content of Ieee Base Paper Graphical Password
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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