

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.

Ieee Base Paper Graphical Password

**Michael Brenner, Nicolas
Christin, Benjamin Johnson, Kurt
Rohloff**



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A NOVEL APPROACH OF AUTHENTICATION USING PIXEL VALUE GRAPHICAL PASSWORD SCHEME MOHD SHUKRAN MOHD AFIZI,2015-03-31 In decades authentication system is relying on username and password as passphrase object for authentication process The username and password mechanism bring major problem lately and raising the system developer worries on security for client server communication Many methods and mechanisms are being introduced to overcome this authentication flaws One of mechanism that has been introduce is graphical password mechanism on purpose to reduce human memory burden based on psychological study that shows human is better at recognizing and remembering images However the current method result many security flaw on graphical password authentication mechanism and require specific tool which is cannot be easily implement on any computer system platform To overcome current method flaws pixel value graphical password scheme is being introduced by combining the text based password mechanism and graphical password mechanism where the authentication system extracting pixel value that resides in a digital image file The extracted eight bits pixel value is used as the passphrase alongside with username during authentication process The design and development of this method is based on identified graphical password enhancement and user requirement through literature review analysis Results on literature analysis are being referred to develop the system flow and system design as the design concept which is being used for prototyping development The developed prototype is being tested with several collections of image specimens as image experimental testing Results and output from the testing show promising results as the result for Pixel Value graphical password scheme is bring an extremely positive impact In other words pixel value graphical password scheme is bringing graphical password scheme a secure promising authentication implementation Proceedings of the International Congress on Information and Communication Technology Suresh Chandra Satapathy,Yogesh Chandra Bhatt,Amit Joshi,Durgesh Kumar Mishra,2016-06-04 This volume contains 69 papers presented at ICICT 2015 International Congress on Information and Communication Technology The conference was held during 9th and 10th October 2015 Udaipur India and organized by CSI Udaipur Chapter Division IV SIG WNS SIG e Agriculture in association with ACM Udaipur Professional Chapter The Institution of Engineers India Udaipur Local Centre and Mining Engineers Association of India Rajasthan Udaipur Chapter This volume contains papers mainly focused on ICT for Managerial Applications E governance IOT and E Mining *Intelligent Human Systems Integration 2019* Waldemar Karwowski,Tareq Ahram,2019-01-05 This book presents cutting edge research on innovative human systems integration and human machine interaction with an emphasis on artificial intelligence and automation as well as computational modeling and simulation It covers a wide range of applications in the area of design construction and operation of products systems and services including lifecycle development and human technology interaction The book describes advanced methodologies and tools for evaluating and improving interface usability new models and case studies and best practices in virtual augmented and mixed

reality systems with a special focus on dynamic environments It also discusses various factors concerning the human user hardware and artificial intelligence software Based on the proceedings of the 2nd International Conference on Intelligent Human Systems Integration IHSI 2019 held on February 7 10 2019 in San Diego California USA the book also examines the forces that are currently shaping the nature of computing and cognitive systems such as the need to reduce hardware costs the importance of infusing intelligence and automation the trend toward hardware miniaturization and power reduction the need for a better assimilation of computation in the environment and social concerns regarding access to computers and systems for people with special needs It offers a timely survey and a practice oriented reference guide for policy and decision makers human factors engineers systems developers and users alike Financial Cryptography and Data Security Michael Brenner,Nicolas Christin,Benjamin Johnson,Kurt Rohloff,2015-09-04 This book constitutes the refereed proceedings of three workshops held at the 19th International Conference on Financial Cryptography and Data Security FC 2015 in San Juan Puerto Rico in January 2015 The 22 full papers presented were carefully reviewed and selected from 39 submissions They feature the outcome of the Second Workshop on Bitcoin Research BITCOIN 2015 the Third Workshop on Encrypted Computing and Applied Homomorphic Cryptography WAHC 2015 and the First Workshop on Wearable Security and Privacy Wearable 2015 **Recent Trends in Computational Intelligence and Its Application** Sugumaran D,Souvik Pal,Dac-Nhuong Le,Noor Zaman Jhanjhi,2023-06-15 The increase in computing power and sensor data has driven Information Technology on end devices such as smart phones or automobiles The widespread application of IT across the globe includes manufacturing engineering retail e commerce health care education financial services banking space exploration politics to help predict the sentiments of voter demographics etc The papers in this conference proceeding examine and discuss various interdisciplinary researches that could accelerate the advent of Information Technology Intelligent Human Computer Interaction Anupam Basu,Sukhendu Das,Patrick Horain,Samit Bhattacharya,2017-01-20 This book constitutes the proceedings of the 8th International Conference on Intelligent Human Computer Interaction IHCI 2016 held in Pilani India in December 2016 The 22 regular papers and 3 abstracts of invited talks included in this volume were carefully reviewed and selected from 115 initial submissions They deal with intelligent interfaces brain machine interaction HCI applications and technology and interface and systems *Security and Privacy in Social Networks and Big Data* Weizhi Meng,Steven Furnell,2019-10-23 This book constitutes revised and selected papers from the 5th International Symposium on Security and Privacy in Social Networks and Big Data SocialSec 2019 held in Copenhagen Denmark in July 2019 The 18 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 76 submissions The papers in the volume cover a broad range of topics on security in Internet of things Social Networks User Authentication Algorithm design Artificial Intelligence and Big Data **Security in Computing and Communications** Sabu M. Thampi,Gregorio Martinez Perez,Ryan Ko,Danda B. Rawat,2020-04-25 This book constitutes the refereed proceedings of the 7th International

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Information Systems Security Vinod Ganapathy,Trent Jaeger,R.K. Shyamasundar,2018-12-10 This book constitutes the refereed proceedings of the 14th International Conference on Information Systems Security ICISS 2018 held in Bangalore India in December 2018 The 23 revised full papers presented in this book together with 1 invited paper and 3 keynote abstracts were carefully reviewed and selected from 51 submissions The papers are organized in the following topical sections security for ubiquitous computing modelling and analysis of attacks smartphone security cryptography and theory enterprise and cloud security machine learning and security privacy and client security and authentication

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