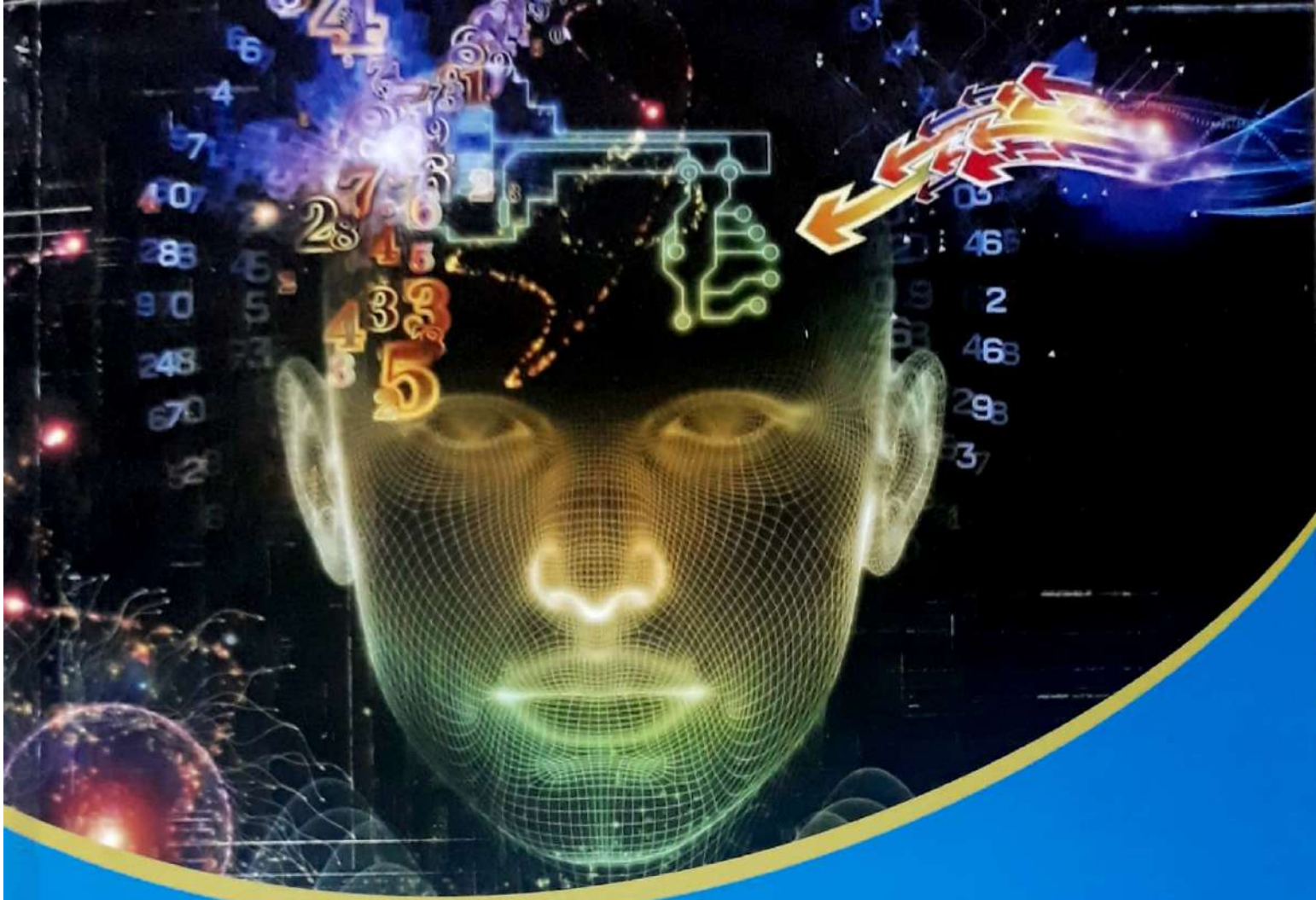




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COMPUTER SCIENCE AND APPLICATIONS

© Mr. R. Justin Kennedy Ms. I. Juliet Shanthi Dr. S.A Amala Nirmal Doss

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SURVEY OF VARIOUS AUTHENTICATION METHODS FOR MOBILE PHONES

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Abstract

Authentication is a procedure by which a system authenticates the uniqueness of a user. User authentication is the mechanism for authentication and protects user data or unauthorized access of information. The major drawback of authentication performed in mobile phones including something that the user possesses is that the physical token (the USB stick, the bank card, the key or similar) must be carried around by the user, practically at all times. Loss and theft are a risk. There are also costs involved in procuring and subsequently replacing tokens of this kind. In addition, there are inherent conflicts and unavoidable trade-offs between usability and security. The Two Factor Authentication scheme is easy through different attack i.e. dictionary attack, brute force attack, shoulder-surfing. This paper presents the survey of Multifactor authentication methods, challenges, security attack and the comparison of mobile device authentication methods.

Keywords : Authentication, Two Factor authentication, Multifactor authentication, OOB

1. Introduction

Recently, Internet services have become more attractive and many users frequently use the services. The services are varied, and online shopping or auction sites are common. User authentication function is important for services that require payments. Many Internet sites still use ID/password (PW) pairs for this purpose. However, malicious attack techniques have recently improved, and thus the number of incidents has increased. In order to cope with this problem, some sites apply multifactor authentication methods, such as biometrics or One Time Password (OTP). Multi-factor authentication (MFA) is a method of computer access control in which a user is only granted access after successfully presenting several separate pieces of evidence to an authentication mechanism – typically at least two of the following categories: knowledge (something they know), possession (something they have), and inherence (something they are). Two-factor authentication (also known as 2FA) is a method of confirming a user's claimed identity by utilizing a combination of two different components. Two-factor authentication is a type of multi-factor authentication. A good example from everyday life is the withdrawing of money