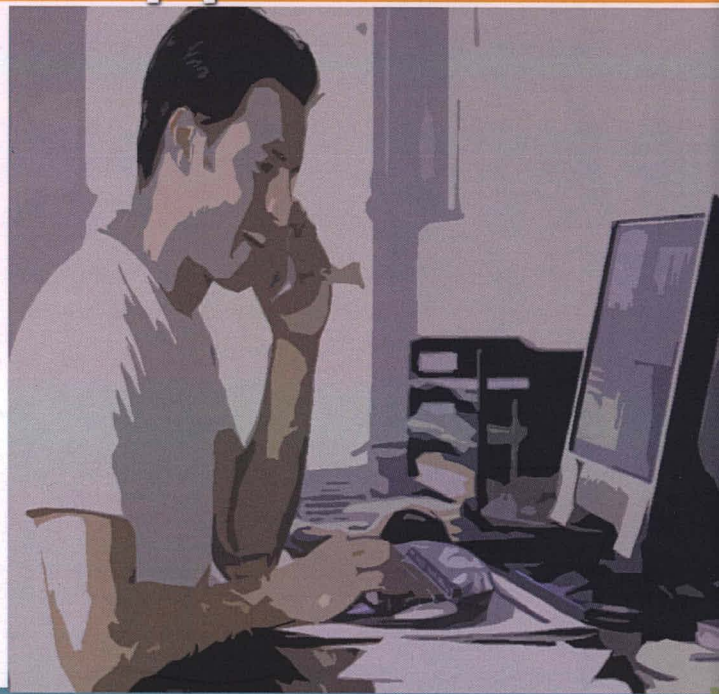


Computer Applications

Theories and Applications

Imad Fakhri Taha Al Shaikhli
Akram M. Zeki
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6. Protection Mechanisms Using MD5 and Base64

Mohammad A. Ahmad, Imad Fakhri Taha Al-Shaikhli, Hanady

Mohammad Ahmed, Asadullah Shah

ABSTRACT

The protection mechanisms combine mathematics and computer science. This paper discusses an encryption method using MD5 hash function, which is used to hash a file, so that if anyone tries to modify the text in the file, the number of file obtained from hashing will change. Also this paper explains the encryption method Base64, which is a set of encoding schemes that convert binary data to the form of a series of Arabic letters in ASCII code. Applying MD5 and Base64 together will ensure data integrity and security.

INTRODUCTION

There are several functions for the encryption process to protect the information and files from intrusion. It is possible to employ