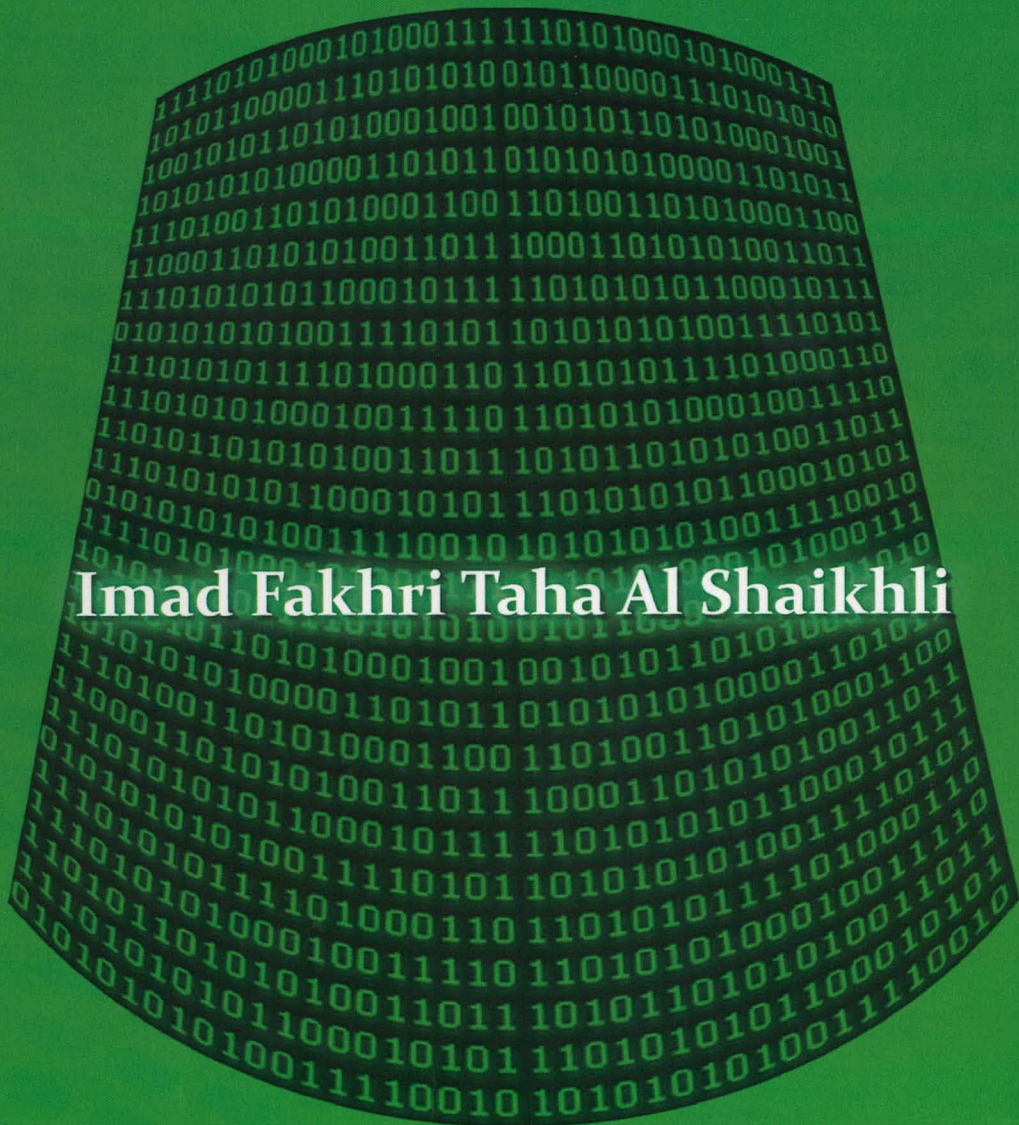


# Cryptography

## Past, Present and Future



Imad Fakhri Taha Al Shaikhli

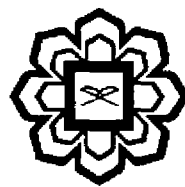


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# **Cryptography: Past, Present and Future**

**Imad Fakhri Taha Al Shaikhli**



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- Ahmad Faridi Abdul Matin
- Sibomana Hilali Hussein

### **ABSTRACT**

In this article we will talk about the background and history of hash function and the concept of hash function. Also we will introduce into Applications of hash function and Security criteria (collision resistant, pre-image resistant, second pre-image resistant).

### **BACKGROUND AND HISTORY**

Historically, “hash functions” term was originated from the field of Computer Science and it was described as any function or algorithm that “compresses a string of arbitrary input to a string of fixed length”(Preneel, 2003). The concept of Hash Functions was first originated in the 1950s(Nichols, 1999) and later on it spread throughout different disciplines within Computer Science and elsewhere. Hash functions that are used in cryptography field are widely denoted as Cryptographic Hash Functions.

Hash functions have been used in many disciplines within computer science such as computer networking, operating systems and computer security. In computer security, some of the examples of usage can be verifying file integrity, digital signatures and password hashing. (Nichols, 1999)