

SECRET SHARING METHODS BASED ON DOUBLE BASED CANONICAL NUMBER SYSTEM

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Abstract

A secret sharing scheme is a method of distributing a message in parts among participants, each of which is allocated a share of the message. The message can be accessed completely only when the group of participants comes together, thus ensuring the safety of the message. We have been using one radix to represent the number system. Recently Double Based Number System (DBNS) is being applied in cryptography. In DBNS numbers are represented as sum of the product of powers of 2 radices 2 and 3.

In the present paper, new secret sharing schemes are proposed using DBNS.

Key Words : *Double Based Number System, Radix, Cryptography.*

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