

## **Associative One-Way Function And Its Significances To Cryptographics**

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### **Abstract**

In this paper, the associative one-way function is shown to be sufficient to construct two-passes public key distribution protocol and public key cryptosystem. It is shown that many functions, including Diffie and Hellman's discrete exponential, belong to the class of associative one-way function.

*Keywords:* Data Security, One-Way Function, Public Key Distribution, Public Key Cryptosystem, Algebra.