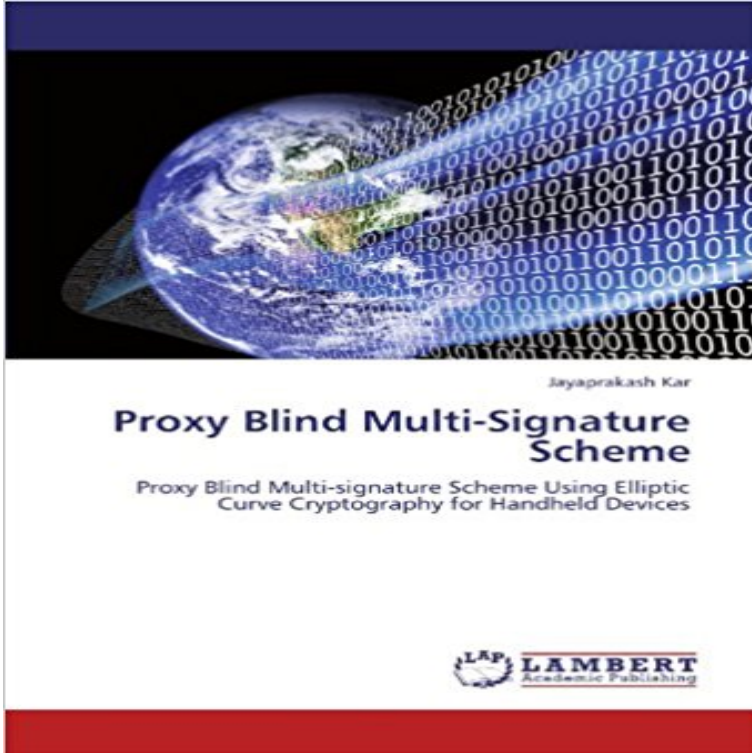


Proxy Blind Multi-Signature Scheme: Proxy Blind Multi-signature Scheme Using Elliptic Curve Cryptography for Handheld Devices



This article describes an efficient proxy blind multi-signature scheme using Elliptic Curve Cryptography. Also describes its implementation issues i.e. efficiency and size of the hardware. In ECC, computationally the most expensive operation is scalar multiplication and also very important from security point of view. The implementation attacks generally target the computation of this operation to break the cryptosystem. The security of the proposed scheme is based on the difficulty of breaking the one-way hash function and the elliptic curve discrete logarithm problem (ECDLP). Best algorithm known solving ECDLP takes fully-exponential time. In contrast sub-exponential time algorithms known for IFP and DLP. The attractiveness of ECC will increase relative to other public-key cryptosystems, as computing power improvements force a general increase in the key size. The benefits of this higher-strength per-bit include higher speeds, lower power consumption, bandwidth savings and storage efficiencies. The proposed scheme can be implemented in mobile devices such as smart card, PDA etc where bandwidth, processing capacity, power availability, or storage are constrained.

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Proxy Blind Multi-signature Scheme using ECC for handheld devices. Omni badge Proxy Blind Multi-Signature

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