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Elliptic Curve Public Key Cryptosystems

Elliptic-curve cryptography is an approach to public-key cryptography based on the algebraic structure of elliptic curves over finite fields. ECC allows smaller keys compared to non-EC cryptography to provide equivalent security. Elliptic curves are applicable for key agreement, digital signatures, pseudo-random generators and other tasks. Indirectly, they can be used for encryption by combining the key agreement with a symmetric encryption scheme. They are also used in several integer factoriza

Elliptic-curve cryptography - Wikipedia

Elliptic Curve Public Key Cryptosystems provides an up-to-date and self-contained treatment of elliptic curve-based public key cryptology. Elliptic curve cryptosystems potentially provide equivalent security to the existing public key schemes, but with shorter key lengths. Having short key lengths means smaller bandwidth and memory requirements and can be a crucial factor in some applications, for example the design of smart card systems.

Elliptic Curve Public Key Cryptosystems | Alfred J ...
Buy Elliptic Curve Public Key Cryptosystems (The Springer International Series in Engineering and Computer Science) Softcover reprint of the original 1st ed. 1993 by Menezes, Alfred J. (ISBN: 9781461364030) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Elliptic Curve Public Key Cryptosystems (The Springer ...
An elliptic curve over the reals is dened by (3.2) where aand b are real numbers. The graph of the elliptic curve over real numbers consists of two components if its discriminant is positive and of one component if it is negative. We now dene the group law on elliptic curves which is useful for cryptographic purposes.

INTRODUCTION TO ELLIPTIC CURVE CRYPTOGRAPHY
public key cryptosystems are the RSA cryptosys-tem (RSA) 1) and the ElGamal cryptosystem; 2) these were invented in 1978 and 1984, respectively. The elliptic curve cryptosystem (ECC) was invented by N. Koblitz3) and by V. Miller4) inde-pendently in 1985 and is expected to become the next-generation public key cryptosystem. A lot of

Elliptic Curve Cryptosystem - Fujitsu
Elliptic Curve Cryptography (ECC) - Concepts. The Elliptic Curve Cryptography (ECC) is modern family of public-key cryptosystems, which is based on the algebraic structures of the elliptic curves over finite fields and on the difficulty of the Elliptic Curve Discrete Logarithm Problem (ECDLP).. ECC implements all major capabilities of the asymmetric cryptosystems: encryption, signatures

and ...

Elliptic Curve Cryptography (ECC) · Practical Cryptography ...
We discuss analogs based on elliptic curves over finite fields of public key cryptosystems which use the multiplicative group of a finite field. These elliptic curve cryptosystems may be more secure, because the analog of the discrete logarithm problem on elliptic curves is likely to be harder than the classical discrete logarithm problem, especially

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Elliptic Curve Cryptosystems - JSTOR
in using elliptic curves for integer factorization, make it natural to study the possibility of public key cryptography based on the structure of the group of points of an elliptic curve over a large finite field. We first briefly recall the facts we need about such elliptic curves (for more details, see [4] or [5]). We then describe elliptic

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Elliptic Curve Public Key Cryptosystems (The Springer ...
This cryptographic system uses the well studied mathematics of supersingular elliptic curves to create a Diffie-Hellman like key exchange that can serve as a straightforward quantum computing resistant replacement for the Diffie-Hellman and elliptic curve Diffie–Hellman key exchange methods that are in widespread use today.

Post-quantum cryptography - Wikipedia
This paper analyzes the KMOV public key cryptosystem, which is an elliptic curve based analogue to RSA. It was believed that this cryptosystem is more secure against attacks without factoring such as the Hs in broadcast application. Some new attacks on KMOV are presented in this paper that show the converse.

On the security of the KMOV public key cryptosystem
Elliptic curve (EC) cryptosystems were first suggested by Miller and Koblitz. A main feature that makes EC attractive is the relatively short operand length relative to RSA and systems based on the discrete logarithm (DL) in

Efficient algorithms for elliptic curve cryptosystems
The elliptic curve cryptosystem was initially proposed by Koblitz (1987) and Miller (1985) to design public key cryptosystem and presently it is widely used in several cryptographic schemes to...

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Elliptic Curve Public Key Cryptosystems: 234: Menezes ...
This book covers public-key cryptography, describing in depth all major public-key cryptosystems in current use, including ElGamal, RSA, Elliptic Curve, and digital signature schemes. It explains the underlying mathematics needed to build these schemes, and examines the most common techniques used in attacking them.