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(Lecture 16 - 20180913) **Cryptography Using Chebyshev Polynomials**

an RSA encryption algorithm based on Chebyshev polynomials. 2 Diﬀe-Hellman Key Agreement with Cheby-shev polynomials We generalize the Diﬀe-Hellman key agreement

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protocol as follows. Instead of generalizing the basic rule of exponents $(gm)^n = gm^n = (gn)^m$ to an arbitrary group, we consider it as a polynomial identity $(xm)^n = xmn =$

Cryptography using Chebyshev polynomials

Encryption algorithm based on Chebyshev polynomials over finite fields Recently, a public-key encryption algorithm based on Chebyshev polynomials over prime finite fields was proposed [6]. In addition to the semigroup property, the pseudo-randomness of these polynomials is an attractive feature for cryptographical purposes.

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Cryptography Using Chebyshev Polynomials

We consider replacing the monomial x^n with the Chebyshev poly-nomial $T_n(x)$ in the Diffie-Hellman and RSA cryptography algorithms. We show that we can generalize the binary powering algorithm to compute Chebyshev polynomials, and that the inverse problem of computing the degree n , the discrete log problem for $T_n(x) \bmod p$, is as difficult as that for $x^n \bmod p$. 1

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Cryptography Using Chebyshev Polynomials | WWW ...

Let $n \in \mathbb{Z}$ and $x \in \mathbb{R}$; we define Chebyshev polynomial $T_n : \mathbb{R} \rightarrow \mathbb{R}$ as $T_n(x) = \cos(n \arccos(x))$. Its semigroup property is as follows: In 2008, Zhang extended to the interval $(-\infty, +\infty)$. Therefore, we have a different formula of Chebyshev

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polynomial as follows: where $p \in \mathbb{Z}$, $x \in \mathbb{R}$ and $n \in \mathbb{N}$. We see that can be changed to. 2.2. The Hard Problems

Improved Chebyshev Polynomials-Based Authentication Scheme ...

Based on Chebyshev polynomials, you can create an asymmetric cryptosystem that allows secure communication. Such a cryptosystem uses the fact that these polynomials form a semi-group due to the composition operation. This article presents new cryptosystems that use other than semi-group property dependencies. Based on these dependencies as

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well as modifications of Chebyshev's polynomials, two cryptosystems have been proposed.

The application of modified Chebyshev polynomials in ...

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Cryptography Using Chebyshev Polynomials proposed. However, the security requirements of Chebyshev polynomials bring a new challenge to the design of authentication schemes based on Chebyshev chaotic maps. To solve this issue, we propose a practical Chebyshev polynomial algorithm by using a binary exponentiation algorithm based on square matrix to

An Energy Efficient Authentication Scheme

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using Chebyshev ...

The n th Chebyshev polynomial of the second kind, denoted by $U_n(x)$, is defined by $U_n(\cos \theta) = \frac{\sin((n+1)\theta)}{\sin \theta}$.

Chebyshev Polynomials - Definition and Properties ...

Encryption algorithm based on Chebyshev polynomials over finite fields Recently, a public-key encryption algorithm based on

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Chebyshev polynomials over prime finite fields was proposed. In addition to the semigroup property, the pseudo-randomness of these polynomials is an attractive feature for cryptographic purposes.

Public-key encryption based on Chebyshev polynomials over ...

Kocarev and Tasev (2003) developed a public key cryptographic technique using Chebyshev polynomials defined over real numbers by supplanting the multiplications in traditional procedures with the...

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Public-key encryption based on Chebyshev maps | Request PDF

When Chebyshev nodes are used, the maximum error is guaranteed to diminish with increasing polynomial order. The Remez Algorithm § The Chebyshev nodes are pretty good as far as minimising approximation error.

Practical Cryptography

In this paper, we make cryptanalysis on an image encryption based on Chebyshev chaotic map and find the following: (1) chosen-plaintext attack can break the scheme. (2)

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There exist equivalent keys and weak keys for the encryption scheme. (3) The scheme has low sensitivity to the changes of plain image.

Cryptanalysis of an image encryption algorithm using ...

$\sin(3\theta) = (4\cos^2(\theta) - 1)\sin(\theta)$ gives. $U_2(x) = 4x^2 - 1$.
Once converted to polynomial form, $T_n(x)$ and $U_n(x)$ are called Chebyshev polynomials of the first and second kind, respectively.

Chebyshev polynomials - Wikipedia

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We present a novel image encryption algorithm using Chebyshev polynomial based on permutation and substitution and Duffing map based on substitution. Comprehensive security analysis has been performed on the designed scheme using key space analysis, visual testing, histogram analysis, information entropy calculation, correlation coefficient analysis, differential analysis, key sensitivity test, and speed test.

Novel Image Encryption Scheme Based on Chebyshev ...

Lanczos or Chebyshev iteration use Chebyshev

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polynomials to get $O(\log(1/\epsilon) = p \text{ gap})$. I'm not going to explain this one in detail { it is a direct application of jump polynomials, where we scale and shift such that 2 goes to 1 and 1 goes to $1 + \text{gap}$.

Chebyshev Polynomials and Approximation Theory in ...

Chebyshev polynomials. I. INTRODUCTION The iteration of polynomials and rational functions over finite fields have recently become an active research topic. These dynamical systems have found applications in diverse areas, including cryptography,

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biology and physics. In cryptography, iterations of functions over finite fields were popularized by the

The Graph Structure of Chebyshev Polynomials over Finite ...

In, Fu et al. proposed a digital image encryption method by using Chirikov standard map based permutation and Chebyshev polynomial based diffusion operations. In, a bit-level permutation scheme using chaotic sequence sorting has been proposed for image encryption. The operations are completed by Chebyshev polynomial and Arnold Cat map.

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