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Pairing Based Cryptography Pairing 2008

An Introduction to Pairing-Based Cryptography

Volume XXX, 2008 An Introduction to Pairing-Based Cryptography Alfred Menezes Abstract Bilinear pairings have been used to design ingenious protocols for such tasks as one-round three-party key agreement, identity-based encryption, and aggregate signatures Suitable bilinear pairings can be constructed from

PAIRING BASED TIMED-RELEASE CRYPTOGRAPHY

Identity Based Encryption Workshop, NIST 2008 PAIRING BASED TIMED-RELEASE CRYPTOGRAPHY 1 The classic method is impractical, because the receiver MUST be online at the selected time instant (No guaranty)

Pairings for cryptographers

Available online 4 March 2008 Abstract Many research papers in pairing-based cryptography treat pairings as a “black box” These papers build cryptographic schemes making use of various properties of pairings If this approach is taken, then it is easy for authors to make invalid assumptions concerning the properties of pairings

Report on Pairing-based Cryptography - NIST

Pairing-based cryptography has been adopted commercially The two largest companies in this field are Voltage Security (co-founded by Boneh), and Trend Micro In 2008, the National Institute of Standards and Technology (NIST) held a workshop on pairing-based cryptography Over 80 people from academia, government and industry attended Dr

Handbook of Pairing Based Cryptography

overview of efficient implementation of pairing based cryptography, with programming example JoyeandNeven,IOSPress,2008 This books is devoted to identity based cryptography, which is only possible using pairings But in this book, only 2 chapters deal with the implementation of pairings Chapter 12 deals with software

Pairings in Trusted Computing

in the pairing based cryptography setting For example, issues arise with respect to hashing onto various groups, or from mappings between the two groups in the domain, see [15] Thus in pairing based cryptography various initial protocol suggestions often needed to be revisited as asymmetric pairings became more

Efficient Implementation of Pairing-Based Cryptography on a ...

T pairing over GF(2239) achieves about 193sec, which is the fastest implementation of pairing over MICAz to the best of our knowledge From our dramatic improvement, we now have much high possibility to make pairing-based cryptography for ubiquitous sensor net-works practical key words: η T pairing, sensor node, ATmega128L, finite field

An Introduction to Identity Based Encryption

Identity Based Encryption Matt Franklin U C Davis NIST Workshop, 3-4 June 2008 Pairings in Cryptography • Tool for building public key primitives – new functionality – improved efficiency • Identity Based Encryption [BF2001] – early pairing-based construction – 1700 citations to date (Google Scholar) 1

A comparison between hardware accelerators for the ...

HAL Id: inria-00423977 https://halinriafr/inria-00423977 Submitted on 13 Oct 2009 HAL is a multi-disciplinary open access archive for the deposit and dissemination

Constructing Abelian Varieties for Pairing-Based Cryptography

subgroup are key ingredients for implementing pairing-based cryptographic systems Such “pairing-friendly” abelian varieties are rare and thus require specific constructions We begin by giving a single coherent framework that classifies the known constructions of pairing-friendly ordinary elliptic curves

Constructing Abelian Varieties for Pairing-Based Cryptography

What is pairing-based cryptography? “Pairing-based cryptography” refers to protocols that use a nondegenerate, bilinear map e : G1 ×G2 → GT between finite, cyclic groups Need discrete logarithm problem (DLP) in G1,G2,GT to be infeasible DLP: Given x,xa, compute a David Freeman

Constructing Abelian Varieties for Pairing-Based Cryptography

Tracing Malicious Proxies in Proxy Re-Encryption

Submitted on 8 Oct 2008 HAL is a multi-disciplinary open access archive for the deposit and dissemination of sci-entific research documents, whether they are pub- national Conference on Pairing-based Cryptography - Pairing 2008, S Galbraith, T Okamoto, K Paterson, Sep 2008, Egham, United Kingdom pp332-353, □101007/978-3-540-85538-5

Attractive Subfamilies of BLS Curves for Implementing High ...

Oct 18, 2011 · As Scott details [25], scaling security in pairing-based cryptography is fun-damentally different than doing so in traditional public-key protocols that only require one group definition Whilst increasing the security of other number the-oretic protocols usually requires an increase in the size of the modulus, an opti-

Computing Pairings Using x-Coordinates Only

cryptographic protocols using point compression In standard elliptic curve cryptography one can work with 160{256 bit primes and the problem may not be so signiflcant But in pairing-based cryptography, when the embedding degree is small, square root computation could be a considerable burden

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Introduction Thefieldofstudy Koblitz(1987) described how to use elliptic curves to construct a public key cryptosystem Togetamoregeneralclassofcurves,andpossiblylargergroup orde

A Survey on Craptological Pairing Algorithms

Katepairing: A bilinear mapping based on elliptic nets [10] Folklore has it that this pairing algorithm’s arcane name was proposed by one of the Founding Fathers of elliptic curve and

An Automated Schedule-based Approach for the ...

of Cryptoprocessorsfor Pairing-Based Cryptosystems Outline §Introduction and Motivation §Background on Pairing §In Galbraith, et al “Pairings for cryptographers” 2008: Pairing-based Cryptography Identity-based encryption

An Efficient Hardware Implementation of the Tate Pairing ...

the concept of identity-based cryptography in 1984 [2] However, the concept became practical only with Boneh and Franklin in 2003 [3] Tate Pairing, originally m * This research is partially supported by the Scientific and Technological Research Council of Turkey under project number 105E089 developed by Frey and Rück [5], became popular

Faster Squaring in the Cyclotomic Subgroup of Sixth Degree ...

most efficient field constructions for pairing-based cryptography, we present a compelling argument for the adoption of a single approach to optimised field arithmetic for pairing-based cryptography, based on the use of fields of the form F× q6, for q≡1 mod 6, which includes all those listed in [20] The sequel is organised as follows

Generating Pairing-friendly Parameters for the CM ...

of the scarcity of pairing-friendly genus 2 curves This result is an improvement relative to prior work which estimated the density of pairing-friendly genus 2 curves heuristically Second, we present a method for generating pairing-friendly parameters for which ρ ≈ 8, where ρ is a measure of efficiency in pairing-based cryptography