

<<算法数论Algorithmic num>>

图书基本信息

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内容概要

This book constitutes the refereed proceedings of the 5th International Algorithmic Number Theory Symposium, ANTS-V, held in Sydney, Australia, in July 2002. The 34 revised full papers presented together with 5 invited papers have gone through a thorough round of reviewing, selection and revision. The papers are organized in topical sections on number theory, arithmetic geometry, elliptic curves and CM, point counting, cryptography, function fields, discrete logarithms and factoring, Groebner bases, and complexity.

书籍目录

Invited Talks Gauss Composition and Generalizations Elliptic Curves-The Crossroads of Theory and
 Computation The Weil and Tate Pairings as Building Blocks for Public Key Cryptosystems Using Elliptic
 Curves of Rank One towards the Undecidability of Hilbert's Tenth Problem over Rings of Algebraic Integers
 On p-adic Point Counting Algorithms for Elliptic Curves over Finite Fields Number Theory On Arithmetically
 Equivalent Number Fields of Small Degree A Survey of Discriminant Counting A Higher-Rank Mersenne
 Problem An Application of Siegel Modular Functions to Kronecker's Limit Formula Computational Aspects
 of NUCOMP Efficient Computation of Class Numbers of Real Abelian Number Fields An Accelerated
 Buchmann Algorithm for Regulator Computation in Real Quadratic Fields Arithmetic Geometry Some Genus 3
 Curves with Many Points Trinomials $ax^7 + bx + c$ and $ax^8 + bx + c$ with Galois Groups of Order 168 and 8 - 168
 Computations on Modular Jacobian Surfaces Integral Points on Punctured Abelian Surfaces Genus 2
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 Intersection Pairing Elliptic Curves and CM Action of Modular Correspondences around CM Points Curves
 $Dy^2 = x^3 - x$ of Odd Analytic Rank Comparing Invariants for Class Fields of Imaginary Quadratic Fields . A
 Database of Elliptic Curves - First Report Point Counting Isogeny Volcanoes and the SEA Algorithm Fast
 Elliptic Curve Point Counting Using Gaussian Normal Basis An Extension of Kedlaya's Algorithm to
 Artin-Schreier Curves in Characteristic 2 Cryptography Function Fields Discrete Logarithms and Factoring Grobner
 Bases Complexity Author Index

媒体关注与评论

From the reviews: "The book contains 39 articles about computational algebraic number theory, arithmetic geometry and cryptography. a] The articles in this book reflect the broad interest of the organizing committee and the participants. The emphasis lies on the mathematical theory as well as on computational results. We recommend the book to students and researchers who want to read about current research in number theory and arithmetic geometry and its applications." (R. Carls, Nieuw Archief voor Wiskunde, Vol. 6 (3), 2005)

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