

Algorithmic Number Theory

Lattices, Number Fields, Curves and Cryptography

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Algorithmic Number Theory: Efficient algorithms Eric Bach, Jeffrey Shallit, 1996 Volume 1 **Algorithmic Number Theory** J. P. Buhler, P. Stevenhagen, 2008-10-20 An introduction to number theory for beginning graduate students with articles by the leading experts in the field **Algorithmic Number Theory** Florian Hess, 2006-07-06 This book constitutes the refereed proceedings of the 7th International Algorithmic Number Theory Symposium ANTS 2006 held in Berlin Germany in July 2006 The 37 revised full papers presented together with 4 invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on algebraic number theory analytic and elementary number theory lattices curves and varieties over fields of characteristic zero curves over finite fields and applications and discrete logarithms *Algorithmic Number Theory* Wieb Bosma, 2006-12-30 This book constitutes the refereed proceedings of the 4th International Algorithmic Number Theory Symposium ANTS IV held in Leiden The Netherlands in July 2000 The book presents 36 contributed papers which have gone through a thorough round of reviewing selection and revision Also included are 4 invited survey papers Among the topics addressed are gcd algorithms primality factoring sieve methods cryptography linear algebra lattices algebraic number fields class groups and fields elliptic curves polynomials function fields and power sums *Algorithmic Number Theory* Guillaume Hanrot, Francois Morain, Emmanuel Thomé, 2010-07-08 This book constitutes the refereed proceedings of the 9th International Algorithmic Number Theory Symposium ANTS 2010 held in Nancy France in July 2010 The 25 revised full papers presented together with 5 invited papers were carefully reviewed and selected for inclusion in the book The papers are devoted to algorithmic aspects of number theory including elementary number theory algebraic number theory analytic number theory geometry of numbers algebraic geometry finite fields and cryptography **Algorithmic Number Theory** Duncan Buell, 2004-05-04 The sixth Algorithmic Number Theory Symposium was held at the University of Vermont in Burlington from 13-18 June 2004 The organization was a joint effort of number theorists from around the world There were four invited talks at ANTS VI by Dan Bernstein of the University of Illinois at Chicago Kiran Kedlaya of MIT Alice Silverberg of Ohio State University and Mark Watkins of Pennsylvania State University Thirty contributed talks were presented and a poster session was held This volume contains the written versions of the contributed talks and three of the four invited talks Not included is the talk by Dan Bernstein ANTS in Burlington is the sixth in a series that began with ANTS I in 1994 at Cornell University Ithaca New York USA and continued at Université de Bordeaux France 1996 Reed College Portland Oregon USA 1998 the University of Leiden Leiden The Netherlands 2000 and the University of Sydney Sydney Australia 2002 The proceedings have been published as volumes 877 1122 1423 1838 and 2369 of Springer Verlag's Lecture Notes in Computer Science series The organizers of the 2004 ANTS conference express their special gratitude and thanks to John Cannon and Joe Buhler for invaluable behind the scenes advice *Algorithmic Number Theory* Alf J. van der Poorten, Andreas Stein, 2008-04-25 This

book constitutes the refereed proceedings of the 8th International Algorithmic Number Theory Symposium ANTS 2008 held in Banff Canada in May 2008 The 28 revised full papers presented together with 2 invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on elliptic curves cryptology and generalizations arithmetic of elliptic curves integer factorization K3 surfaces number fields point counting arithmetic of function fields modular forms cryptography and number theory Algorithmic Number Theory Joe P. Buhler,1998-06-05 The field of diagnostic nuclear medicine has changed significantly during the past decade This volume is designed to present the student and the professional with a comprehensive update of recent developments not found in other textbooks on the subject The various clinical applications of nuclear medicine techniques are extensively considered and due attention is given also to radiopharmaceuticals equipment and instrumentation reconstruction techniques and the principles of gene imaging

Algorithmic Number Theory Florian Hess,Sebastian Pauli,Michael Pohst,2006-10-05 This book constitutes the refereed proceedings of the 7th International Algorithmic Number Theory Symposium ANTS 2006 held in Berlin July 2006 The book presents 37 revised full papers together with 4 invited papers selected for inclusion The papers are organized in topical sections on algebraic number theory analytic and elementary number theory lattices curves and varieties over fields of characteristic zero curves over finite fields and applications and discrete logarithms **Algorithmic Algebra and Number**

Theory B.Heinrich Matzat,Gert-Martin Greuel,Gerhard Hiss,2012-12-06 This book contains 22 lectures presented at the final conference of the German research program Schwerpunktprogramm Algorithmic Number Theory and Algebra 1991 1997 sponsored by the Deutsche Forschungsgemeinschaft The purpose of this research program and of the meeting was to bring together developers of computer algebra software and researchers using computational methods to gain insight into experimental problems and theoretical questions in algebra and number theory The book gives an overview on algorithmic methods and on results obtained during this period This includes survey articles on the main research projects within the program algorithmic number theory emphasizing class field theory constructive Galois theory computational aspects of modular forms and of Drinfeld modules computational algebraic geometry including real quantifier elimination and real algebraic geometry and invariant theory of finite groups computational aspects of presentations and representations of groups especially finite groups of Lie type and their Hecke algebras and of the isomorphism problem in group theory Some of the articles illustrate the current state of computer algebra systems and program packages developed with support by the research program such as KANT and LiDIA for algebraic number theory SINGULAR RED LOG and INVAR for commutative algebra and invariant theory respectively and GAP SYSPHOS and CHEVIE for group theory and representation theory

Algorithmic Number Theory Claus Fieker,David R. Kohel,2003-08-02 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 **Ants XIV** Steven Galbraith,2020-12-29 The Algorithmic Number Theory Symposium ANTS held biennially since 1994 is the premier international forum for research in computational and algorithmic number theory ANTS is devoted to algorithmic aspects of number theory including elementary algebraic and analytic number theory the geometry of numbers arithmetic algebraic geometry the theory of finite fields and cryptography This volume is the proceedings of the fourteenth ANTS meeting which took place 29 June to 4 July 2020 via video conference the plans for holding it at the University of Auckland New Zealand having been disrupted by the COVID 19 pandemic The volume contains revised and edited versions of 24 refereed papers and one invited paper presented at the conference Algorithmic Number Theory Henri Cohen,1996-08-07 This book constitutes the refereed post conference proceedings of the Second International Algorithmic Number Theory Symposium ANTS II held in Talence France in May 1996 The 35 revised full papers included in the book were selected from a variety of submissions They cover a broad spectrum of topics and report state of the art research results in computational number theory and complexity theory Among the issues addressed are number fields computation Abelian varieties factoring algorithms finite fields elliptic curves algorithm complexity lattice theory and coding **Number Theory for Computing** Song Y. Yan,2002-04-24 This book provides a good introduction to the classical elementary number theory and the modern algorithmic number theory and their applications in computing and information technology including computer systems design cryptography and network security In this second edition proofs of many theorems have been provided further additions and corrections were made *Algorithmic Number Theory* Claus Fieker,David R. Kohel,2002-06-26 Self organized criticality SOC has become a magic word in various scientific disciplines it provides a framework for understanding complexity and scale invariance in systems showing irregular fluctuations In the first 10 years after Per Bak and his co workers presented their seminal idea more than 2000 papers on this topic appeared Seismology has been a field in earth sciences where the SOC concept has already deepened the understanding but there seem to be much more examples in earth sciences where applying the SOC concept may be fruitful After introducing the reader into the basics of fractals chaos and SOC the book presents established and new applications of SOC in earth sciences namely earthquakes forest fires landslides and drainage networks *Algorithmic Number Theory* Florian Hess,Sebastian Pauli,Michael Pohst,2006-10-05 This book constitutes the refereed proceedings of the 7th International Algorithmic Number Theory Symposium ANTS 2006 held in Berlin July 2006 The book presents 37 revised full papers together with 4 invited papers selected for inclusion The papers are organized in topical sections on algebraic number theory analytic and elementary number theory lattices curves and varieties over fields of characteristic zero curves over finite fields and applications and discrete logarithms **A Course in Computational Algebraic Number Theory** Henri Cohen,1993 Describes 148 algorithms that are fundamental for number

theoretic computations including computations related to algebraic number theory elliptic curves primality testing and factoring A complete theoretical introduction is given for each subject reducing prerequisites to a minimum The detailed description of each algorithm allows immediate

Algorithmic Algebraic Number Theory M. Pohst,H.

Zassenhaus,1997-09-25 Now in paperback this classic book is addressed to all lovers of number theory On the one hand it gives a comprehensive introduction to constructive algebraic number theory and is therefore especially suited as a textbook for a course on that subject On the other hand many parts go beyond an introduction and make the user familiar with recent research in the field For experimental number theoreticians new methods are developed and new results are obtained which are of great importance for them Both computer scientists interested in higher arithmetic and those teaching algebraic number theory will find the book of value

Computational Number Theory Attila Pethö,1991 The volume is devoted to

the interaction of modern scientific computation and classical number theory The contributions ranging from effective finiteness results to efficient algorithms in elementary analytical and algebraic number theory provide a broad view of the methods and results encountered in the new and rapidly developing area of computational number theory Topics covered include finite fields quadratic forms number fields modular forms elliptic curves and diophantine equations In addition two new number theoretical software packages KANT and SIMATH are described in detail with emphasis on algorithms in algebraic number theory

A Course in Computational Algebraic Number Theory Henri Cohen,2000-08-01 A

description of 148 algorithms fundamental to number theoretic computations in particular for computations related to algebraic number theory elliptic curves primality testing and factoring The first seven chapters guide readers to the heart of current research in computational algebraic number theory including recent algorithms for computing class groups and units as well as elliptic curve computations while the last three chapters survey factoring and primality testing methods including a detailed description of the number field sieve algorithm The whole is rounded off with a description of available computer packages and some useful tables backed by numerous exercises Written by an authority in the field and one with great practical and teaching experience this is certain to become the standard and indispensable reference on the subject

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