

CONTEMPORARY MATHEMATICS

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Groups, Languages, Algorithms

Alexandre V. Borovik
Editor



American Mathematical Society

Groups Languages Algorithms

**Benjamin Fine, Anja
Moldenhauer, Gerhard
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Groups Languages Algorithms:

Groups, Languages, Algorithms Alexandre Borovik, 2005 Since the pioneering works of Novikov and Maltsev group theory has been a testing ground for mathematical logic in its many manifestations from the theory of algorithms to model theory The interaction between logic and group theory led to many prominent results which enriched both disciplines This volume reflects the major themes of the American Mathematical Society Association for Symbolic Logic Joint Special Session Baltimore MD Interactions between Logic Group Theory and Computer Science Included are papers devoted to the development of techniques used for the interaction of group theory and logic It is suitable for graduate students and researchers interested in algorithmic and combinatorial group theory A complement to this work is Volume 349 in the AMS series Contemporary Mathematics Computational and Experimental Group Theory which arose from the same meeting and concentrates on the interaction of group theory and computer science

Algorithmic Problems of Group Theory, Their Complexity, and Applications to Cryptography Delaram Kahrobaei, Vladimir Shpilrain, 2015-02-25 This volume contains the proceedings of the AMS Special Session on Algorithmic Problems of Group Theory and Their Complexity held January 9 10 2013 in San Diego CA and the AMS Special Session on Algorithmic Problems of Group Theory and Applications to Information Security held April 6 7 2013 at Boston College Chestnut Hill MA Over the past few years the field of group based cryptography has attracted attention from both group theorists and cryptographers The new techniques inspired by algorithmic problems in non commutative group theory and their complexity have offered promising ideas for developing new cryptographic protocols The papers in this volume cover algorithmic group theory and applications to cryptography

Groups, Languages and Automata Derek F. Holt, Sarah Rees, Claas E. Röver, 2017-02-23 A reference book discussing applications of formal language theory to group theory particularly geometric and computational group theory

Semigroups, Algorithms, Automata And Languages Gracinda M S Gomes, Jean-eric Pin, Pedro V Silva, 2002-11-26 The thematic term on Semigroups Algorithms Automata and Languages organized at the International Centre of Mathematics Coimbra Portugal in May July 2001 was the gathering point for researchers working in the field of semigroups algorithms automata and languages These areas were selected considering their huge recent developments their potential applications and the motivation from other fields of mathematics and computer science This proceedings volume is a unique collection of advanced courses and original contributions on semigroups and their connections with logic automata languages group theory discrete dynamics topology and complexity A selection of open problems discussed during the thematic term is also included

Algorithmic Learning Theory Ronald Ortner, Hans Ulrich Simon, Sandra Zilles, 2016-10-12 This book constitutes the refereed proceedings of the 27th International Conference on Algorithmic Learning Theory ALT 2016 held in Bari Italy in October 2016 co located with the 19th International Conference on Discovery Science DS 2016 The 24 regular papers presented in this volume were carefully reviewed and selected from 45 submissions In addition the book contains 5

abstracts of invited talks The papers are organized in topical sections named error bounds sample compression schemes statistical learning theory evolvability exact and interactive learning complexity of teaching models inductive inference online learning bandits and reinforcement learning and clustering Algorithmic Problems in Groups and Semigroups

Jean-Camille Birget, Stuart Margolis, John Meakin, Mark V. Sapir, 2012-12-06 This volume contains papers which are based primarily on talks given at an international conference on Algorithmic Problems in Groups and Semigroups held at the University of Nebraska Lincoln from May 11 May 16 1998 The conference coincided with the Centennial Celebration of the Department of Mathematics and Statistics at the University of Nebraska Lincoln on the occasion of the one hundredth anniversary of the granting of the first Ph D by the department Funding was provided by the US National Science Foundation the Department of Mathematics and Statistics and the College of Arts and Sciences at the University of Nebraska Lincoln through the College's focus program in Discrete Experimental and Applied Mathematics The purpose of the conference was to bring together researchers with interests in algorithmic problems in group theory semigroup theory and computer science A particularly useful feature of this conference was that it provided a framework for exchange of ideas between the research communities in semigroup theory and group theory and several of the papers collected here reflect this interaction of ideas The papers collected in this volume represent a cross section of some of the results and ideas that were discussed in the conference They reflect a synthesis of overlapping ideas and techniques stimulated by problems concerning finite monoids finitely presented monoids finitely presented groups and free groups Finitely Presented Groups Volker Diekert, Martin Kreuzer, 2024-10-07 This book contains surveys and research articles on the state of the art in finitely presented groups for researchers and graduate students Overviews of current trends in exponential groups and of the classification of finite triangle groups and finite generalized tetrahedron groups are complemented by new results on a conjecture of Rosenberger and an approximation theorem A special emphasis is on algorithmic techniques and their complexity both for finitely generated groups and for finite \mathbb{Z} algebras including explicit computer calculations highlighting important classical methods A further chapter surveys connections to mathematical logic in particular to universal theories of various classes of groups and contains new results on countable elementary free groups Applications to cryptography include overviews of techniques based on representations of p groups and of non commutative group actions Further applications of finitely generated groups to topology and artificial intelligence complete the volume All in all leading experts provide up to date overviews and current trends in combinatorial group theory and its connections to cryptography and other areas *Algorithms and Classification in Combinatorial Group Theory* Gilbert Baumslag, Charles F. Miller III, 2012-12-06 The papers in this volume are the result of a workshop held in January 1989 at the Mathematical Sciences Research Institute Topics covered include decision problems finitely presented simple groups combinatorial geometry and homology and automatic groups and related topics

Semantic Algorithms in the Assessment of Attitudes and Personality Jan Ketil Arnulf, Kai R. Larsen, Oyvind Lund

Martinsen, Kim F. Nimon, 2021-09-14 *Innovating Assessments to Measure and Support Complex Skills* OECD, 2023-04-28

Policy makers around the world recognise the importance of developing young people's 21st century skills like problem solving creative thinking self regulation and collaboration Many countries also include these skills as part of the intended learning outcomes of their education systems **Algorithmic and Geometric Topics Around Free Groups and**

Automorphisms Javier Aramayona, Volker Diekert, Christopher J. Leininger, Pedro V. Silva, Armin Weiß, 2017-11-29 This volume presents the lecture notes from the authors three summer courses offered during the program Automorphisms of Free Groups Geometry Topology and Dynamics held at the Centre de Recerca Matemàtica CRM in Bellaterra Spain The first two chapters present the basic tools needed from formal language theory regular and context free languages automata rewriting systems transducers etc and emphasize their connections to group theory mostly relating to free and virtually free groups The material covered is sufficient to present full proofs of many of the existing interesting characterizations of virtually free groups In turn the last chapter comprehensively describes Bonahon's construction of Thurston's compactification of Teichmüller space in terms of geodesic currents on surfaces It also includes several intriguing extensions of the notion of geodesic current to various other more general settings **Algorithms in Geometric Group Theory** Zeph

Grunschlag, 1999 On Systems of Equations Over Free Partially Commutative Groups Montserrat Casals-Ruiz, Ilya

Kazachkov, 2011 Volume 212 number 999 end of volume Topics in Infinite Group Theory Benjamin Fine, Anja

Moldenhauer, Gerhard Rosenberger, Annika Schürenberg, Leonard Wienke, 2024-11-18 This book gives an advanced overview of several topics in infinite group theory It can also be considered as a rigorous introduction to combinatorial and geometric group theory The philosophy of the book is to describe the interaction between these two important parts of infinite group theory In this line of thought several theorems are proved multiple times with different methods either purely combinatorial or purely geometric while others are shown by a combination of arguments from both perspectives The first part of the book deals with Nielsen methods and introduces the reader to results and examples that are helpful to understand the following parts The second part focuses on covering spaces and fundamental groups including covering space proofs of group theoretic results The third part deals with the theory of hyperbolic groups The subjects are illustrated and described by prominent examples and an outlook on solved and unsolved problems New edition now includes the topics on universal free groups quasiconvex subgroups and hyperbolic groups and also Stallings foldings and subgroups of free groups New results on groups of F types are added **A Universal Construction for Groups Acting Freely on Real Trees** Ian Chiswell, Thomas

Müller, 2012-10-18 The theory of R trees is a well established and important area of geometric group theory and in this book the authors introduce a construction that provides a new perspective on group actions on R trees They construct a group $RF G$ equipped with an action on an R tree whose elements are certain functions from a compact real interval to the group G They also study the structure of $RF G$ including a detailed description of centralizers of elements and an investigation of its

subgroups and quotients Any group acting freely on an R tree embeds in $RF G$ for some choice of G Much remains to be done to understand $RF G$ and the extensive list of open problems included in an appendix could potentially lead to new methods for investigating group actions on R trees particularly free actions This book will interest all geometric group theorists and model theorists whose research involves R trees

Representations of Algebraic Groups, Quantum Groups, and Lie Algebras Georgia Benkart, 2006 Covers various aspects of the representation theory of Lie algebras finite groups of Lie types Hecke algebras and Lie super algebras This book outlines connections among irreducible representations of certain blocks of reduced enveloping algebras of semi simple Lie algebras in positive characteristic

Geometry, Spectral Theory, Groups, and Dynamics Robert Brooks, Michael Entov, Yehuda Pinchover, Michah Sageev, 2005 This volume contains articles based on talks given at the Robert Brooks Memorial Conference on Geometry and Spectral Theory and the Workshop on Groups Geometry and Dynamics held at Technion the Israel Institute of Technology Haifa Robert Brooks 1952 2002 broad range of mathematical interests is represented in the volume which is devoted to various aspects of global analysis spectral theory the theory of Riemann surfaces Riemannian and discrete geometry and number theory A survey of Brooks work has been written by his close colleague Peter Buser Also included in the volume are articles on analytic topics such as Szego's theorem and on geometric topics such as isoperimetric inequalities and symmetries of manifolds The book is suitable for graduate students and researchers interested in various aspects of geometry and global analysis

Principles of Digital Document Processing Ethan V. Munson, Charles Nicholas, Derick Wood, 2003-06-26 This book constitutes the thoroughly refereed post workshop proceedings of the 4th International Workshop on Principles of Digital Document Processing PODDP 98 held in Saint Malo France in March 1998 The 12 revised full papers presented were carefully reviewed during two rounds of selection for inclusion in the book The book is divided into sections on document models and structures characterization of documents and corpora and accessing collections of documents

Topological and Asymptotic Aspects of Group Theory R. I. Grigorchuk, 2006 The articles in this volume are based on the talks given at two special sessions at the AMS Sectional meetings held in 2004 The articles cover various topological and asymptotic aspects of group theory such as hyperbolic and relatively hyperbolic groups asymptotic cones Thompson's group Nielsen fixed point theory homology groups acting on trees groups generated by finite automata iterated monodromy groups random walks on finitely generated groups heat kernels and currents on free groups

Design and analysis of Algorithms, 2/e Himanshu B. Dave, This second edition of Design and Analysis of Algorithms continues to provide a comprehensive exposure to the subject with new inputs on contemporary topics in algorithm design and algorithm analysis Spread over 21 chapters aptly complemented by five appendices the book interprets core concepts with ease in logical succession to the student's benefit

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