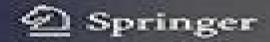
Przemysław Broniek

Computational Complexity of Solving Equation Systems



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Computational Complexity of Solving Equation Systems Przemysław Broniek, 2015-07-24 This volume considers the computational complexity of determining whether a system of equations over a fixed algebra A has a solution It examines in detail the two problems this leads to SysTermSat A and SysPolSat A in which equations are built out of terms or polynomials respectively The book characterizes those algebras for which SysPolSat can be solved in a polynomial time So far studies and their outcomes have not covered algebras that generate a variety admitting type 1 in the sense of Tame Congruence Theory Since unary algebras admit only type 1 this book focuses on these algebras to tackle the main problem It discusses several aspects of unary algebras and proves that the Constraint Satisfaction Problem for relational structures is polynomially equivalent to SysTermSat over unary algebras The book s final chapters discuss partial characterizations present conclusions and describe the problems that are still open Philosophy of Complex Systems, 2011-05-23 The domain of nonlinear dynamical systems and its mathematical underpinnings has been developing exponentially for a century the last 35 years seeing an outpouring of new ideas and applications and a concomitant confluence with ideas of complex systems and their applications from irreversible thermodynamics A few examples are in meteorology ecological dynamics and social and economic dynamics These new ideas have profound implications for our understanding and practice in domains involving complexity predictability and determinism equilibrium control planning individuality responsibility and so on Our intention is to draw together in this volume we believe for the first time a comprehensive picture of the manifold philosophically interesting impacts of recent developments in understanding nonlinear systems and the unique aspects of their complexity The book will focus specifically on the philosophical concepts principles judgments and problems distinctly raised by work in the domain of complex nonlinear dynamical systems especially in recent years Comprehensive coverage of all main theories in the philosophy of Complex Systems Clearly written expositions of fundamental ideas and concepts Definitive discussions by leading researchers in the field Summaries of leading edge research in related fields are also included An Observation on the Computational Complexity of Simple Equation Systems Simon Kasif, Art Delcher, Johns Hopkins University. Department of Computer Science, 1990 We recently learned that Dechter Meiri and Pearl have independently discovered a method to solve the consistency problem studied in this paper Their method has linear time complexity as well **Springer LINK -**Solving Linear Systems of Equations Over Cyclotomic Fields Liang **computational complexity -** Springer, 2002 Chen, 2007 Let A Q z n n be a matrix of polynomials and b Q z n be a vector of polynomials Let m z k z be the k 020 cyclotomic polynomial We want to find the solution vector x Q z n such that the equation Ax mod m z holds One may obtain x using Gaussian elimination however it is inefficient because of the large rational numbers that appear in the coefficients of the polynomials in the matrix during the elimination In this thesis we present two modular algorithms namely Chinese remaindering and linear P adic lifting We have implemented both algorithms in Maple and have determined the time

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