

Przemysław Broniek

# Computational Complexity of Solving Equation Systems

# Computational Complexity Of Solving Equation Systems Springerbriefs In Philosophy

**Przemysław Broniek**



## **Computational Complexity Of Solving Equation Systems Springerbriefs In Philosophy:**

*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:  $\text{SysTermSat } A$  and  $\text{SysPolSat } A$  in which equations are built out of terms or polynomials respectively. The book characterizes those algebras for which  $\text{SysPolSat}$  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  $\text{SysTermSat}$  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 - computational complexity](#) - Springer, 2002

*Solving Linear Systems of Equations Over Cyclotomic Fields* Liang Chen, 2007

Let  $A \in \mathbb{Q}[z]^{n \times n}$  be a matrix of polynomials and  $b \in \mathbb{Q}[z]^n$  be a vector of polynomials. Let  $m \in \mathbb{Z}[z]$  be the  $k$ -th cyclotomic polynomial. We want to find the solution vector  $x \in \mathbb{Q}[z]^n$  such that the equation  $Ax \equiv b \pmod{m}$  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

complexity of both algorithms We present timing comparison tables on two sets of data firstly systems with random generated coefficients and secondly real systems given to us by Vahid Dabbaghian which arise from computational group theory The results show that both of our algorithms are much faster than Gaussian elimination

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## **Computational Complexity Of Solving Equation Systems Springerbriefs In Philosophy** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Computational Complexity Of Solving Equation Systems Springerbriefs In Philosophy**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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