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[Computational Complexity Of Solving Equation](#)

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.

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[Computational Complexity of Solving Equation Systems ...](#)

We study the computational complexity of solving systems of equations over a finite group. An equation over a group G is an expression of the form $w_1 \cdot w_2 \cdots w_k = 1$ G, where each w_i is either a variable, an inverted variable, or a group constant and 1 G is the identity element of G.

[The Complexity of Solving Equations over Finite Groups](#)

There are many results about the computational complexity of solving ODEs of the form: $\{y''(t) = f(t, y(t))\}$ $y(0) = y_0$ However, with very few exceptions, those results assume that the ODE is solved for $t \in [a, b]$, i.e. a compact time domain. This is a very convenient hypothesis for several reasons.

[Computational complexity of solving polynomial ...](#)

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[The Complexity of Solving Equations over Finite Groups ...](#)

It is clear that x can be found by $x = A^{-1} \cdot b$. I would like to measure the computational complexity when N increasing. In MATLAB, I used the code $x = A \backslash b$. I know that MATLAB will choose a best algorithm to find the solution. In analysis, I know that the computational complexity grows as N^3 when N is increases.

[algorithm - Measure computational complexity of solving a ...](#)

Lipschitz continuous ordinary differential equations are polynomial-space complete. Computational Complexity 19 (2) 305 - 332.

[On the computational complexity of the Dirichlet Problem ...](#)

Solving linear equations can be reduced to a matrix-inversion problem, implying that the time complexity of the former problem is not greater than the time complexity of the latter. Conversely, given a solver of N linear equations and N unknown variables with computational cost $F(N)$, there is a trivial implementation of matrix inversion using the linear solver with overall computational cost equal to $F(N)$.

[Complexity of linear solvers vs matrix inversion ...](#)

We study the computational complexity of solving systems of equations over a finite group. An equation over a group G is an expression of the form $w_1 \cdot w_2 \cdots w_k = 1$ G, where each w_i is either a variab...

[The complexity of solving equations over finite groups ...](#)

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[Computational Complexity of Solving Equation Systems ...](#)

What is the computational complexity of solving large system of linear equations using direct methods and minimum residual method? Direct methods such as Gauss elimination methods. Matrix is...

[What is the computational complexity of solving large ...](#)

Manders and Adleman mention that the computational complexity for binary quadratic Diophantine equations is NP-complete. Has a more specific complexity been claimed for polynomials of the form $Ax^2 + Bx + C = y^2$ where the coefficients are nonnegative integers?

[What is the time complexity for solving Diophantine ...](#)

A huge amount of computer resources is spent over the world every day for solving systems of linear equations, which are the backbone of computations in sciences and engineering. Naturally, the solution algorithms are devised so as to decrease the amount of such resources spent, that is, to decrease the estimated computational complexity of the solution.

[Complexity of Algorithms for Linear Systems of Equations ...](#)

Researchers have developed a deep learning technique that can significantly decrease the computational capacity required to solve partial differential equations - Partial differential equations can describe everything from planetary motion to plate tectonics, but they're notoriously hard to solve.