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The complexity measure, called the algebraic complexity, computes the Euclidean Distance Degree (EDdegree) of a certain variety called the hypothesis variety as the number of points in the configuration increases.

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We develop a general framework, denoted algebraic circuit search problems, that captures many important problems in algebraic complexity and computational invariant theory. This framework encompasses various proof systems in proof complexity and some of the central problems in invariant theory as exposed by the Geometric Complexity Theory (GCT) program, including the aforementioned problem of computing succinct encodings for generators for invariant rings.

~~DROPS Search Problems in Algebraic Complexity, GCT, and ...~~  
The following tables list the

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computational complexity of various algorithms for common mathematical operations.. Here, complexity refers to the time complexity of performing computations on a multitape Turing machine. See big O notation for an explanation of the notation used.. Note: Due to the variety of multiplication algorithms,  $( )$  below stands in for the complexity of the chosen ...

~~Computational complexity of mathematical operations ...~~

Currently the main focus of the program is on algebraic complexity classes. Proving that computing the permanent cannot be efficiently reduced to computing determinants is considered to be a major

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milestone for the program. These computational problems can be characterized by their symmetries. The program aims at utilizing these symmetries for proving lower bounds.

~~Geometric complexity theory—  
Wikipedia~~

computational complexity presents outstanding research in computational complexity. Its subject is at the interface between mathematics and theoretical computer science, with a clear mathematical profile and strictly mathematical format. The central topics are:

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THE COMPUTATIONAL

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COMPLEXITY OF ALGEBRAIC

NUMBERS by H. To Kung

Department of Computer Science

Carnegie-Mellon University

Pittsburgh, Pa. March, 1973 This

work was supported in part by the

National Science Foundation

under grant GJ-32111 and the

Office of Naval Research under

Contract

N00014-67-A-0314-0010, NR

044-422. Presented at the Fifth

Annual

~~The computational complexity of  
algebraic numbers~~

At its core, much of

Computational Complexity is

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objects and structures. But it has

often proven true that the best

way to prove things about these

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of combinatorial objects is by establishing a connection (perhaps approximate) to a more well-behaved algebraic setting.

~~Algebraic and Combinatorial  
Methods in Computational ...~~

We analyze the complexity of fitting a variety, coming from a class of varieties, to a configuration of points in  $\mathbb{C}^n$ . The complexity measure, called the algebraic complexity, computes the Euclidean Distance Degree (EDdegree) of a certain variety called the hypothesis variety as the number of points in the configuration increases. For the problem of fitting an  $(n-1)$ -sphere to a ...

~~Computational complexity in~~

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algebraic regression

In computational complexity the decision tree model is the model of computation in which an algorithm is considered to be basically a decision tree, i.e., a sequence of branching operations based on comparisons of some quantities, the comparisons being assigned unit computational cost.. The branching operations are called "tests" or "queries". In this setting the algorithm in question may be ...

~~Decision tree model - Wikipedia~~

Class: SC105, MW 1500-1615

Office hours: MW 1300-1500,

SC518 1. Description: In this course, mathematical aspects of computational complexity theory will be broadly covered. We shall

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start with basics of complexity theory (Turing machines, various notions of complexity and NP completeness), discuss other computation models and intractability results, and explore algebro-geometric ...

~~Math 278 Topics: Geometry and algebra of computational ...~~

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Abstract: In this paper we improve the lower bound of Chatterjee et al. (ECCC 2019) to an  $\Omega(n^2)$  lower bound for unlayered Algebraic Branching Programs. We also study the impact layerization has on Algebraic Branching Programs.

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