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*The computational complexity of algebraic and numeric ... 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:*

*Papers on relation between computational complexity and ... COMPUTATIONAL COMPLEXITY OF NUMERICAL SOLUTIONS OF INITIAL VALUE PROBLEMS FOR DIFFERENTIAL ALGEBRAIC EQUATIONS (Spine title: Computational Complexity of Numerical Solutions of IVP for DAE) (Thesis format: Monograph) by Silvana Ilie Graduate Program in Applied Mathematics Submitted in partial fulfillment of the requirements for the degree of*

*computational complexity - Springer*

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## 1 COMPUTATIONAL COMPLEXITY OF NUMERICAL SOLUTIONS OF INITIAL ...

*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".*

*Decision tree model - Wikipedia*

*or complexity theory, or some type of “discrete mathematics for computer science students” course. They also may have gained such experience in undergraduate mathematics courses, such as abstract or linear algebra. The material in these math-ematics courses may overlap with some of the material presented here; however,*

*Computational Complexity Of Algebraic And*

*The following tables list the 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,  $M(n)$  below stands in for the complexity of the chosen multiplication algorithm.*

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

*The computational complexity of algebraic and numeric problems. [Allan Borodin; I Munro] Home. WorldCat Home About WorldCat Help. Search. Search for Library Items Search for Lists Search for Contacts Search for a Library. Create ...*

*Geometric complexity theory - Wikipedia*

*In computer science, the computational complexity, or simply complexity of an algorithm is the amount of resources required for running it (a property unrelated to “complexity” in a conventional sense). The computational complexity of a problem is the minimum of the complexities of all possible algorithms for this problem (including the unknown algorithms).*

*Algebraic Problems in Computational Complexity*

*Geometric complexity theory (GCT), is a research program in computational complexity theory proposed by Ketan Mulmuley and Milind Sohoni. The goal of the program is to answer the most famous open problem in computer science – whether  $P = NP$  – by showing that the complexity class  $P$  is not equal to the complexity class  $NP$ .*

*Computational Complexity of Algebraic Structures PhD and ...*

*Computational Complexity is concerned with the resources that are required for*

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<sup>1</sup> algorithms to detect properties of combinatorial objects and structures. It has often proven true that the best way to argue about these combinatorial objects is by establishing a connection (perhaps approximate) to a more well-behaved algebraic setting.

*A Computational Introduction to Number Theory and Algebra ...*

*Math 278 Topics: Geometry and algebra of computational complexity 1.*

*Description: In this course, mathematical aspects of computational complexity theory will be... 2. Prerequisites: No knowledge of computer science is assumed. 3.*

*Text: I will draw materials from the following books and papers ...*

*Computational complexity of mathematical operations ...*

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*The computational complexity of algebraic and numeric ...*

*computational complexity. 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.*

1 *Algebraic Complexity Theory | Peter Bürgisser | Springer*

*Computational geometry is a branch of computer science devoted to the study of algorithms which can be stated in terms of geometry. Some purely geometrical problems arise out of the study of computational geometric algorithms, and such problems are also considered to be part of computational geometry.*

*Computational complexity - Wikipedia*

*"This book is certainly the most complete reference on algebraic complexity theory that is available hitherto. ... superb bibliographical and historical notes are given at the end of each chapter. ... this book would most certainly make a great textbook for a graduate course on algebraic complexity theory. ..."*

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*SIAM Journal on Applied Algebra and Geometry (SIAGA)*

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<sup>1</sup>Computational geometry - Wikipedia

Something like "Papers on relation between computational Complexity and algebraic geometry/topology".

– Kaveh Aug 24 '11 at 21:39  
Could you elaborate your question a bit? I would think everyone would miss something from that line if that line is true since he is talking about "unknowns".

*Algebraic Methods in Computational Complexity - Caltech* AUTHORS

*Algebraic Problems in Computational Complexity. A thesis submitted to the University of Mumbai for the degree of Doctor of Philosophy in Computer Science by Pranab Sen School of Technology and Computer Science Tata Institute of Fundamental Research Mumbai 400005, India 2001.*

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