

Algorithms  
and Computation  
in Mathematics

Volume 7

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Peter Bürgisser

**Completeness  
and Reduction  
in Algebraic  
Complexity Theory**



Springer

# Completeness And Reduction Algebraic Complexity Theory

**Kathleen Armour**



## **Completeness and Reduction Algebraic Complexity Theory:**

**Completeness and Reduction in Algebraic Complexity Theory** Peter Bürgisser, 2013-03-14 One of the most important and successful theories in computational complexity is that of NP completeness. This discrete theory is based on the Turing machine model and achieves a classification of discrete computational problems according to their algorithmic difficulty. Turing machines formalize algorithms which operate on finite strings of symbols over a finite alphabet. By contrast, in algebraic models of computation the basic computational step is an arithmetic operation or comparison of elements of a fixed field, for instance of real numbers. Hereby one assumes exact arithmetic. In 1989 Blum, Shub, and Smale combined existing algebraic models of computation with the concept of uniformity and developed a theory of NP completeness over the reals, the BSS model. Their paper created a renewed interest in the field of algebraic complexity and initiated new research directions. The ultimate goal of the BSS model and its future extensions is to unite classical discrete complexity theory with numerical analysis and thus to provide a deeper foundation of scientific computation.

cf. [11], [101]. Already ten years before the BSS paper, Valiant [107], [110] had proposed an analogue of the theory of NP completeness in an entirely algebraic framework in connection with his famous hardness result for the permanent [108]. While the part of his theory based on the Turing approach, P-completeness, is now standard and well known among the theoretical computer science community, his algebraic completeness result for the permanents received much less attention.

*Fundamentals of Computation Theory* Olaf Owe, Martin Steffen, Jan Arne Telle, 2011-08-18 This book constitutes the refereed proceedings of the 18th International Symposium Fundamentals of Computation Theory FCT 2011 held in Oslo, Norway, in August 2011. The 28 revised full papers presented were carefully reviewed and selected from 78 submissions. FCT 2011 focused on algorithms, formal methods, and emerging fields such as ad hoc, dynamic, and evolving systems, algorithmic game theory, computational biology, foundations of cloud computing and ubiquitous systems, and quantum computation.

[Mathematical Foundations of Computer Science 2009](#) Rastislav Kráľovič, Damian Niwinski, 2009-08-06 This book constitutes the refereed proceedings of the 34th International Symposium on Mathematical Foundations of Computer Science MFCS 2009 held in Nový Smokovec, High Tatras, Slovakia, in August 2009. The 56 revised full papers presented together with 7 invited lectures were carefully reviewed and selected from 148 submissions. All current aspects in theoretical computer science and its mathematical foundations are addressed, including algorithmic game theory, algorithmic learning theory, algorithms and data structures, automata, grammars, and formal languages, bioinformatics, complexity, computational geometry, computer-assisted reasoning, concurrency theory, cryptography and security, databases and knowledge-based systems, formal specifications and program development, foundations of computing logic in computer science, mobile computing, models of computation, networks, parallel and distributed computing, quantum computing, semantics, and verification of programs, theoretical issues in artificial intelligence.

*Computer Science - Theory and Applications* Alexander S. Kulikov, Gerhard J. Woeginger, 2016-06-02 This book

constitutes the proceedings of the 11th International Computer Science Symposium in Russia CSR 2016 held in St Petersburg Russia in June 2016 The 28 full papers presented in this volume were carefully reviewed and selected from 71 submissions In addition the book contains 4 invited lectures The scope of the proposed topics is quite broad and covers a wide range of areas such as include but are not limited to algorithms and data structures combinatorial optimization constraint solving computational complexity cryptography combinatorics in computer science formal languages and automata computational models and concepts algorithms for concurrent and distributed systems networks proof theory and applications of logic to computer science model checking automated reasoning and deductive methods

*Proceedings of the 36th Annual ACM Symposium on the Theory of Computing*, 2004

**Proceedings of the ...ACM Symposium on Theory of Computing**, 2007

Proceedings of the 33rd Annual ACM Symposium on Theory of Computing, 2001

Algebraic Complexity Theory Peter Bürgisser, Michael Clausen, Amin Shokrollahi, 1996-12-16 The algorithmic solution of problems has always been one of the major concerns of mathematics For a long time such solutions were based on an intuitive notion of algorithm It is only in this century that metamathematical problems have led to the intensive search for a precise and sufficiently general formalization of the notions of computability and algorithm In the 1930s a number of quite different concepts for this purpose were proposed such as Turing machines WHILE programs recursive functions Markov algorithms and Thue systems All these concepts turned out to be equivalent a fact summarized in Church's thesis which says that the resulting definitions form an adequate formalization of the intuitive notion of computability This had and continues to have an enormous effect First of all with these notions it has been possible to prove that various problems are algorithmically unsolvable Among of group these undecidable problems are the halting problem the word problem theory the Post correspondence problem and Hilbert's tenth problem Secondly concepts like Turing machines and WHILE programs had a strong influence on the development of the first computers and programming languages In the era of digital computers the question of finding efficient solutions to algorithmically solvable problems has become increasingly important In addition the fact that some problems can be solved very efficiently while others seem to defy all attempts to find an efficient solution has called for a deeper understanding of the intrinsic computational difficulty of problems

*Computing and Combinatorics*, 2001

**Proceedings of the Twenty-seventh Annual ACM Symposium on Theory of Computing**, 1995

Mathematical Foundations of Computer Science, 2001

STOC 08 STOC (40, 2008, Victoria, British Columbia), STOC. 40, 2008, Victoria, British Columbia, 2008

**SIAM Journal on Computing** Society for Industrial and Applied Mathematics, 2003

*Choice*, 2000

**Proceedings of the Seventh Annual Structure in Complexity Theory Conference**, 1992

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web max reger composed his three suites for violoncello solo in 1914 15 for three important cellists and teachers of the time julius klengel hugo becker and paul grümmer klengel was also friends with the composer reger humorously told him of his opus 131c in summer 1915 calling them strapping triplets

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web among them are his three suites for viola solo op 131d reger published these in the last year of his life 1914 15 together with six preludes and fugues for violin solo three duos in ancient style for two violins and three suites for violoncello solo grouping all these works under the opus number 131