



# DIMACS

Series in Discrete Mathematics  
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Volume 35

## Satisfiability Problem: Theory and Applications

DIMACS Workshop  
March 11–13, 1996

Dingzhu Du  
Jun Gu  
Panos M. Pardalos  
Editors



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American Mathematical Society

# Satisfiability Problem Theory And Applications

**Dingzhu Du, Jun Gu, Panos M. Pardalos**



## **Satisfiability Problem Theory And Applications:**

**Satisfiability Problem: Theory and Applications** Dingzhu Du, Jun Gu, Panos M. Pardalos, NSF Science and Technology Center in Discrete Mathematics and Theoretical Computer Science, 1997 The satisfiability SAT problem is central in mathematical logic computing theory and many industrial applications There has been a strong relationship between the theory the algorithms and the applications of the SAT problem This book aims to bring together work by the best theorists algorithmists and practitioners working on the sat problem and on industrial applications as well as to enhance the interaction between the three research groups The book features the applications of theoretical algorithmic results to practical problems and presents practical examples for theoretical algorithmic study Major topics covered in the book include practical and industrial SAT problems and benchmarks significant case studies and applications of the SAT problem and SAT algorithms new algorithms and improved techniques for satisfiability testing specific data structures and implementation details of the SAT algorithms and the theoretical study of the SAT problem and SAT algorithms

**Satisfiability Problem** NSF Science and Technology Center in Discrete Mathematics and Theoretical Computer Science Staff, 1997 The satisfiability SAT problem is central in mathematical logic computing theory and many industrial applications There has been a strong relationship between the theory the algorithms and the applications of the SAT problem This book aims to bring together work by the best theorists algorithmists and practitioners working on the SAT problem and on industrial applications as well as to enhance the interaction between the three research groups The book features the application of theoretical algorithmic results to practical problems and presents practical problems for theoretical al

Satisfiability Problem Dingzhu Du, Jun Gu, Panos M. Pardalos, 1997-01-01 The satisfiability SAT problem is central in mathematical logic computing theory and many industrial applications There has been a strong relationship between the theory the algorithms and the applications of the SAT problem This book aims to bring together work by the best theorists algorithmists and practitioners working on the sat problem and on industrial applications as well as to enhance the interaction between the three research groups The book features the applications of theoretical algorithmic results to practical problems and presents practical examples for theoretical algorithmic study Major topics covered in the book include practical and industrial SAT problems and benchmarks significant case studies and applications of the SAT problem and SAT algorithms new algorithms and improved techniques for satisfiability testing specific data structures and implementation details of the SAT algorithms and the theoretical study of the SAT problem and SAT algorithms *Machine Learning:*

*Theory and Applications*, 2013-05-16 Statistical learning and analysis techniques have become extremely important today given the tremendous growth in the size of heterogeneous data collections and the ability to process it even from physically distant locations Recent advances made in the field of machine learning provide a strong framework for robust learning from the diverse corpora and continue to impact a variety of research problems across multiple scientific disciplines The aim of

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featured three plenary talks given by John Mylopoulos Jiawei Han and Michael Lowry They spoke on their recent research in age oriented software engineering information network mining and intelligent so ware engineering tools respectively

Algorithms and Data Structures Frank Dehne,Jörg-Rüdiger Sack,Ulrike Stege,2015-07-27 This book constitutes the refereed proceedings of the 14th Algorithms and Data Structures Symposium WADS 2015 held in Victoria BC Canada August 2015 The 54 revised full papers presented in this volume were carefully reviewed and selected from 148 submissions The Algorithms and Data Structures Symposium WADS formerly Workshop on Algorithms And Data Structures which alternates with the Scandinavian Workshop on Algorithm Theory is intended as a forum for researchers in the area of design and analysis of algorithms and data structures WADS includes papers presenting original research on algorithms and data structures in all areas including bioinformatics combinatorics computational geometry databases graphics and parallel and distributed computing

**Handbook of Constraint Programming** Francesca Rossi,Peter van Beek,Toby Walsh,2006-08-18 Constraint programming is a powerful paradigm for solving combinatorial search problems that draws on a wide range of techniques from artificial intelligence computer science databases programming languages and operations research Constraint programming is currently applied with success to many domains such as scheduling planning vehicle routing configuration networks and bioinformatics The aim of this handbook is to capture the full breadth and depth of the constraint programming field and to be encyclopedic in its scope and coverage While there are several excellent books on constraint programming such books necessarily focus on the main notions and techniques and cannot cover also extensions applications and languages The handbook gives a reasonably complete coverage of all these lines of work based on constraint programming so that a reader can have a rather precise idea of the whole field and its potential Of course each line of work is dealt with in a survey like style where some details may be neglected in favor of coverage However the extensive bibliography of each chapter will help the interested readers to find suitable sources for the missing details Each chapter of the handbook is intended to be a self contained survey of a topic and is written by one or more authors who are leading researchers in the area The intended audience of the handbook is researchers graduate students higher year undergraduates and practitioners who wish to learn about the state of the art in constraint programming No prior knowledge about the field is necessary to be able to read the chapters and gather useful knowledge Researchers from other fields should find in this handbook an effective way to learn about constraint programming and to possibly use some of the constraint programming concepts and techniques in their work thus providing a means for a fruitful cross fertilization among different research areas The handbook is organized in two parts The first part covers the basic foundations of constraint programming including the history the notion of constraint propagation basic search methods global constraints tractability and computational complexity and important issues in modeling a problem as a constraint problem The second part covers constraint languages and solver several useful extensions to the basic framework such as interval constraints structured domains and distributed

CSPs and successful application areas for constraint programming Covers the whole field of constraint programming Survey style chapters Five chapters on applications      **Graph-Theoretic Concepts in Computer Science** Dieter Kratsch,2005-12-06 This book constitutes the thoroughly refereed post proceedings of the 31st International Workshop on Graph Theoretic Concepts in Computer Science WG 2005 held in Metz France in June 2005 The 38 revised full papers presented together with 2 invited papers were carefully selected from 125 submissions The papers provide a wealth of new results for various classes of graphs graph computations graph algorithms and graph theoretical applications in various fields The workshop aims at uniting theory and practice by demonstrating how graph theoretic concepts can be applied to various areas in Computer Science or by extracting new problems from applications The goal is to present recent research results and to identify and explore directions of future research      *Foundations and Tools for Neural Modeling* Jose Mira,Juan V. Sanchez-Andres,2006-12-08 This book constitutes together with its compaignon LNCS 1607 the refereed proceedings of the International Work Conference on Artificial and Natural Neural Networks IWANN 99 held in Alicante Spain in June 1999 The 89 revised papers presented were carefully reviewed and selected for inclusion in the book This volume is devoted to foundational issues of neural computation and tools for neural modeling The papers are organized in parts on neural modeling biophysical and structural models plasticity phenomena maturing learning and memory and artificial intelligence and cognitive neuroscience      **Foundations and Tools for Neural Modeling** José Mira,1999 This book constitutes together with its compaignon LNCS 1606 the refereed proceedings of the International Work Conference on Artificial Neural Networks IWANN 99 held in Alicante Spain in June 1999 The 91 revised papers presented were carefully reviewed selected for inclusion in the book This volume is devoted to applications of biologically inspired artificial neural networks in various engineering disciplines The papers are organized in parts on artificial neural nets simulation implementation image processing engineering applications      New Optimization Algorithms in Physics Alexander K. Hartmann,Heiko Rieger,2006-03-06 Many physicists are not aware of the fact that they can solve their problems by applying optimization algorithms Since the number of such algorithms is steadily increasing many new algorithms have not been presented comprehensively until now This presentation of recently developed algorithms applied in physics including demonstrations of how they work and related results aims to encourage their application and as such the algorithms selected cover concepts and methods from statistical physics to optimization problems emerging in theoretical computer science      *Metaheuristic Optimization via Memory and Evolution* Cesar Rego,Bahram Alidaee,2006-03-30 Tabu Search TS and more recently Scatter Search SS have proved highly effective in solving a wide range of optimization problems and have had a variety of applications in industry science and government The goal of Metaheuristic Optimization via Memory and Evolution Tabu Search and Scatter Search is to report original research on algorithms and applications of tabu search scatter search or both as well as variations and extensions having adaptive memory programming as a primary focus Individual chapters identify

useful new implementations or new ways to integrate and apply the principles of TS and SS or that prove new theoretical results or describe the successful application of these methods to real world problems      Non-commutative Cryptography and Complexity of Group-theoretic Problems Alexei G. Myasnikov,Vladimir Shpilrain,Alexander Ushakov,2011 Examines the relationship between three different areas of mathematics and theoretical computer science combinatorial group theory cryptography and complexity theory It explores how non commutative infinite groups can be used in public key cryptography It also shows that there is remarkable feedback from cryptography to combinatorial group theory because some of the problems motivated by cryptography appear to be new to group theory      **Principles and Practice of Constraint**

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Hutter,Werner Stephan,2011-03-29 By presenting state of the art results in logical reasoning and formal methods in the context of artificial intelligence and AI applications this book commemorates the 60th birthday of J rg H Siekmann The 30 revised reviewed papers are written by former and current students and colleagues of J rg Siekmann also included is an appraisal of the scientific career of J rg Siekmann entitled A Portrait of a Scientist Logics AI and Politics The papers are organized in four parts on logic and deduction applications of logic formal methods and security and agents and planning

**Automata, Languages and Programming** Ugo Montanari,Jose D.P. Rolim,Emo Welzl,2003-08-06 This book constitutes the refereed proceedings of the 27th International Colloquium on Automata Languages and Programming ICALP 2000 held in Geneva Switzerland in July 2000 The 69 revised full papers presented together with nine invited contributions were carefully reviewed and selected from a total of 196 extended abstracts submitted for the two tracks on algorithms automata complexity and games and on logic semantics and programming theory All in all the volume presents a unique snapshot of the state of the art in theoretical computer science      *Algorithmic Applications in Management* Nimrod Megiddo,Yinfeng Xu,Nancy Alonstioti,Binhai Zhu,2005-05-24 The papers in this volume were presented at the 1st International Conference on Algorithmic Applications in Management AAIM 2005 held June 22 25 2005 in Xian China

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