

OPTIMIZATION
METHODS
FOR
LOGICAL
INFERENCE



VIJAY CHANDRU
JOHN N. HOOKER

Optimization Methods For Logical Inference

Vijay Chandru, John Hooker



Optimization Methods For Logical Inference:

Optimization Methods for Logical Inference Vijay Chandru, John Hooker, 2011-09-26 Merging logic and mathematics in deductive inference an innovative cutting edge approach Optimization methods for logical inference Absolutely say Vijay Chandru and John Hooker two major contributors to this rapidly expanding field And even though solving logical inference problems with optimization methods may seem a bit like eating sauerkraut with chopsticks it is the mathematical structure of a problem that determines whether an optimization model can help solve it not the context in which the problem occurs Presenting powerful proven optimization techniques for logic inference problems Chandru and Hooker show how optimization models can be used not only to solve problems in artificial intelligence and mathematical programming but also have tremendous application in complex systems in general They survey most of the recent research from the past decade in logic optimization interfaces incorporate some of their own results and emphasize the types of logic most receptive to optimization methods propositional logic first order predicate logic probabilistic and related logics logics that combine evidence such as Dempster Shafer theory rule systems with confidence factors and constraint logic programming systems Requiring no background in logic and clearly explaining all topics from the ground up Optimization Methods for Logical Inference is an invaluable guide for scientists and students in diverse fields including operations research computer science artificial intelligence decision support systems and engineering *Boolean Models and Methods in Mathematics, Computer Science, and Engineering* Yves Crama, Peter L. Hammer, 2010-06-28 A collection of papers written by prominent experts that examine a variety of advanced topics related to Boolean functions and expressions **Logic-Based Methods for Optimization** John Hooker, 2011-09-28 A pioneering look at the fundamental role of logic in optimization and constraint satisfaction While recent efforts to combine optimization and constraint satisfaction have received considerable attention little has been said about using logic in optimization as the key to unifying the two fields Logic Based Methods for Optimization develops for the first time a comprehensive conceptual framework for integrating optimization and constraint satisfaction then goes a step further and shows how extending logical inference to optimization allows for more powerful as well as flexible modeling and solution techniques Designed to be easily accessible to industry professionals and academics in both operations research and artificial intelligence the book provides a wealth of examples as well as elegant techniques and modeling frameworks ready for implementation Timely original and thought provoking Logic Based Methods for Optimization Demonstrates the advantages of combining the techniques in problem solving Offers tutorials in constraint satisfaction constraint programming and logical inference Clearly explains such concepts as relaxation cutting planes nonserial dynamic programming and Bender's decomposition Reviews the necessary technologies for software developers seeking to combine the two techniques Features extensive references to important computational studies And much more Office of Naval Research Guide to Programs United States. Office of Naval Research, 1992 Office of Naval Research Guide to Programs

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Logic-Based Methods for Optimization John

Hooker,2000-05-30 Logic Based Methods for Optimization develops for the first time a comprehensive conceptual framework for integrating optimization and constraint satisfaction then goes a step further and shows how extending logical inference to optimization allows for more powerful as well as flexible modeling and solution techniques Designed to be easily accessible to industry professionals and academics in both operations research and artificial intelligence the book provides a wealth of examples as well as elegant techniques and modeling frameworks ready for implementation BOOK JACKET

Mathematical Approaches to Polymer Sequence Analysis and Related Problems Renato Bruni,2010-10-17 An edited volume describing the latest developments in approaching the problem of polymer sequence analysis with special emphasis on the most relevant biopolymers peptides and DNA but not limited to them The chapters will include peptide sequence analysis DNA sequence analysis analysis of biopolymers and nonpolymers sequence alignment problems and more

Handbook of Satisfiability Armin Biere,2009 Satisfiability SAT related topics have attracted researchers from various disciplines logic applied areas such as planning scheduling operations research and combinatorial optimization but also theoretical issues on the theme of complexity and much more they all are connected through SAT My personal interest in SAT stems from actual solving The increase in power of modern SAT solvers over the past 15 years has been phenomenal It has become the key enabling technology in automated verification of both computer hardware and software Bounded Model Checking BMC of computer hardware is now probably the most widely used model checking technique The counterexamples that it finds are just satisfying instances of a Boolean formula obtained by unwinding to some fixed depth a sequential circuit and its specification in linear temporal logic Extending model checking to software verification is a much more difficult problem on the frontier of current research One promising approach for languages like C with finite word length integers is to use the same idea as in BMC but with a decision procedure for the theory of bit vectors instead of SAT All decision procedures for bit vectors that I am familiar with ultimately make use of a fast SAT solver to handle complex formulas Decision procedures for more complicated theories like linear real and integer arithmetic are also used in program verification Most of them use powerful SAT solvers in an essential way Clearly efficient SAT solving is a key technology for 21st century computer science I expect this collection of papers on all theoretical and practical aspects of SAT solving will be extremely useful to both students and researchers and will lead to many further advances in the field Edmund Clarke FORE Systems University Professor of Computer Science and Professor of Electrical and Computer Engineering at Carnegie Mellon University winner of the 2007 A M Turing Award *The Probabilistic Method* Noga Alon,Joel H. Spencer,2015-10-28 Praise for the Third Edition Researchers of any kind of extremal combinatorics or theoretical computer science will welcome the new edition of this book MAA Reviews Maintaining a standard of excellence that establishes The Probabilistic Method as the leading reference on probabilistic methods in combinatorics the Fourth Edition continues to feature a clear writing style

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Noga Alon PhD is Baumritter Professor of Mathematics and Computer Science at Tel Aviv University He is a member of the Israel National Academy of Sciences and Academia Europaea A coeditor of the journal Random Structures and Algorithms Dr Alon is the recipient of the Polya Prize The G del Prize The Israel Prize and the EMET Prize Joel H Spencer PhD is Professor of Mathematics and Computer Science at the Courant Institute of New York University He is the cofounder and coeditor of the journal Random Structures and Algorithms and is a Sloane Foundation Fellow Dr Spencer has written more than 200 published articles and is the coauthor of Ramsey Theory Second Edition also published by Wiley

Frontiers of Combining Systems Helene Kirchner, Christophe Ringeissen, 2006-12-30 This book constitutes the refereed proceedings of the Third International Workshop on Frontiers of Combining Systems FroCoS 2000 held in Nancy France in March 2000 The 14 revised full papers presented together with four invited papers were carefully reviewed and selected from a total of 31 submissions Among the topics covered are constraint processing interval narrowing rewriting systems proof planning sequent calculus type systems model checking theorem proving declarative programming logic programming and equational theories

Introduction to Combinatorics Martin J. Erickson, 2013-06-13 Praise for the First Edition This excellent text should prove a useful accoutrement for any developing mathematics program it s short it s sweet it s beautifully written The Mathematical Intelligencer Erickson has prepared an exemplary work strongly recommended for inclusion in undergraduate level library collections Choice Featuring a modern approach Introduction to Combinatorics Second Edition illustrates the applicability of combinatorial methods and

discusses topics that are not typically addressed in literature such as Alcuin's sequence, Rook paths and Leech's lattice. The book also presents fundamental results, discusses interconnection and problem solving techniques, and collects and disseminates open problems that raise questions and observations. Many important combinatorial methods are revisited and repeated several times throughout the book in exercises, examples, theorems, and proofs alike, allowing readers to build confidence and reinforce their understanding of complex material. In addition, the author successfully guides readers step by step through three major achievements of combinatorics: Van der Waerden's theorem on arithmetic progressions, Pólya's graph enumeration formula, and Leech's 24-dimensional lattice. Along with updated tables and references that reflect recent advances in various areas such as error-correcting codes and combinatorial designs, the Second Edition also features many new exercises to help readers understand and apply combinatorial techniques and ideas. A deeper investigative study of combinatorics through exercises requiring the use of computer programs. Over fifty new examples ranging in level from routine to advanced that illustrate important combinatorial concepts. Basic principles and theories in combinatorics as well as new and innovative results in the field. Introduction to Combinatorics, Second Edition is an ideal textbook for a one or two semester sequence in combinatorics, graph theory, and discrete mathematics at the upper undergraduate level. The book is also an excellent reference for anyone interested in the various applications of elementary combinatorics.

Cryptography, Information Theory, and Error-Correction Aiden A. Bruen, Mario A. Forcinito, 2011-09-28. Discover the first unified treatment of today's most essential information technologies: Compressing, Encrypting, and Encoding. With identity theft, cybercrime, and digital file sharing proliferating in today's wired world, providing safe and accurate information transfers has become a paramount concern. The issues and problems raised in this endeavor are encompassed within three disciplines: cryptography, information theory, and error correction. As technology continues to develop, these fields have converged at a practical level, increasing the need for a unified treatment of these three cornerstones of the information age. Stressing the interconnections of the disciplines, *Cryptography, Information Theory, and Error Correction* offers a complete yet accessible account of the technologies shaping the 21st century. This book contains the most up-to-date, detailed, and balanced treatment available on these subjects. The authors draw on their experience both in the classroom and in industry, giving the book's material and presentation a unique real-world orientation. With its reader-friendly style and interdisciplinary emphasis, *Cryptography, Information Theory, and Error Correction* serves as both an admirable teaching text and a tool for self-learning. The chapter structure allows for anyone with a high school mathematics education to gain a strong conceptual understanding and provides higher-level students with more mathematically advanced topics. The authors clearly map out paths through the book for readers of all levels to maximize their learning. This book is suitable for courses in cryptography, information theory, or error correction, as well as courses discussing all three areas. Provides over 300 example problems with solutions. Presents new and exciting algorithms adopted by industry. Discusses potential applications in cell biology. Details a new

characterization of perfect secrecy Features in depth coverage of linear feedback shift registers LFSR a staple of modern computing Follows a layered approach to facilitate discussion with summaries followed by more detailed explanations Provides a new perspective on the RSA algorithm Cryptography Information Theory and Error Correction is an excellent in depth text for both graduate and undergraduate students of mathematics computer science and engineering It is also an authoritative overview for IT professionals statisticians mathematicians computer scientists electrical engineers entrepreneurs and the generally curious

Data Mining and Knowledge Discovery via Logic-Based Methods

Evangelos Triantaphyllou, 2010-06-08 The importance of having efficient and effective methods for data mining and knowledge discovery DM KD to which the present book is devoted grows every day and numerous such methods have been developed in recent decades There exists a great variety of different settings for the main problem studied by data mining and knowledge discovery and it seems that a very popular one is formulated in terms of binary attributes In this setting states of nature of the application area under consideration are described by Boolean vectors defined on some attributes That is by data points defined in the Boolean space of the attributes It is postulated that there exists a partition of this space into two classes which should be inferred as patterns on the attributes when only several data points are known the so called positive and negative training examples The main problem in DM KD is defined as finding rules for recognizing classifying new data points of unknown class i.e. deciding which of them are positive and which are negative In other words to infer the binary value of one more attribute called the goal or class attribute To solve this problem some methods have been suggested which construct a Boolean function separating the two given sets of positive and negative training data points

Ethical Challenges in AI-enhanced Military Operations

George Lucas, Henrik Syse, Kirsi Helkala, Edward Barrett, 2023-07-10 *Decision Making in Uncertain Situations* Fabio Campos, 2006 The main problem addressed by this work is how to model and combine bodies of knowledge or evidence while maintaining the representation of the unknowledge and of the conflict among the bodies This is a problem with far reaching applications in many knowledge segments in particular for the fields of artificial intelligence product design decision making knowledge engineering and uncertain probability It must be kept in mind that knowledge based systems depend on algorithms able to relate the inputs of a system to a correct answer coming out of the knowledge base and both the inputs and the knowledge base are subject to information imperfections caused by the unknowledge and the conflict There are several formalisms to deal with knowledge representation and combination among them the Mathematical Theory of Evidence or Dempster Shafer Theory This work extends the Mathematical Theory of Evidence through the adoption of a new rule for the combination of evidence and a companion set of concepts This extension solves the counter intuitive problems illustrated in the original theory extends its power of expression and allows the representation of uncertainty in the results The representation of uncertainty implies the possibility of its use in decision making and also makes explicit the relationship between the numeric results achieved and the results from classical

probability theory **Artificial Intelligence, Automated Reasoning, and Symbolic Computation** Jacques Calmet, Belaid Benhamou, Olga Caprotti, Laurent Henocque, Volker Sorge, 2003-08-02 AISC 2002 the 6th international conference on Artificial Intelligence and Symbolic Computation and Calculemus 2002 the 10th symposium on the Integration of Symbolic Computation and Mechanized Reasoning were held jointly in Marseille France on July 1-5 2002 This event was organized by the three universities in Marseille together with the LSIS Laboratoire des Sciences de l'Information et des Systèmes AISC 2002 was the latest in a series of specialized conferences founded by John Campbell and Jacques Calmet with the initial title Artificial Intelligence and Symbolic Mathematical Computation AISMC and later denoted Artificial Intelligence and Symbolic Computation AISC The scope is well defined by its successive titles AISMC 1 1992 AISMC 2 1994 AISMC 3 1996 AISC 98 and AISC 2000 took place in Karlsruhe Cambridge Steyr Plattsburgh NY and Madrid respectively The proceedings were published by Springer Verlag as LNCS 737 LNCS 958 LNCS 1138 LNAI 1476 and LNAI 1930 respectively Calculemus 2002 was the 10th symposium in a series which started with three meetings in 1996 two meetings in 1997 and then turned into a yearly event in 1998 Since then it has become a tradition to hold the meeting jointly with an event in either symbolic computation or automated deduction Both events share common interests in looking at Symbolic Computation each from a different point of view Artificial Intelligence in the more general case of AISC and Automated Deduction in the more specific case of Calculemus **Handbook of Statistical Data Editing and Imputation** Ton de Waal, Jeroen Pannekoek, Sander Scholtus, 2011-03-04 A practical one stop reference on the theory and applications of statistical data editing and imputation techniques Collected survey data are vulnerable to error In particular the data collection stage is a potential source of errors and missing values As a result the important role of statistical data editing and the amount of resources involved has motivated considerable research efforts to enhance the efficiency and effectiveness of this process Handbook of Statistical Data Editing and Imputation equips readers with the essential statistical procedures for detecting and correcting inconsistencies and filling in missing values with estimates The authors supply an easily accessible treatment of the existing methodology in this field featuring an overview of common errors encountered in practice and techniques for resolving these issues The book begins with an overview of methods and strategies for statistical data editing and imputation Subsequent chapters provide detailed treatment of the central theoretical methods and modern applications with topics of coverage including Localization of errors in continuous data with an outline of selective editing strategies automatic editing for systematic and random errors and other relevant state of the art methods Extensions of automatic editing to categorical data and integer data The basic framework for imputation with a breakdown of key methods and models and a comparison of imputation with the weighting approach to correct for missing values More advanced imputation methods including imputation under edit restraints Throughout the book the treatment of each topic is presented in a uniform fashion Following an introduction each chapter presents the key theories and formulas underlying the topic and then illustrates common

applications The discussion concludes with a summary of the main concepts and a real world example that incorporates realistic data along with professional insight into common challenges and best practices Handbook of Statistical Data Editing and Imputation is an essential reference for survey researchers working in the fields of business economics government and the social sciences who gather analyze and draw results from data It is also a suitable supplement for courses on survey methods at the upper undergraduate and graduate levels

Handbook of Hybrid Systems Control Jan Lunze, Françoise Lamnabhi-Lagarigue, 2009-10-15 Setting out core theory and reviewing a range of new methods theoretical problems and applications this handbook shows how hybrid dynamical systems can be modelled and understood Sixty expert authors involved in the recent research activities and industrial application studies provide practical insights on topics ranging from the theoretical investigations over computer aided design to applications in energy management and the process industry Structured into three parts the book opens with a thorough introduction to hybrid systems theory illustrating new dynamical phenomena through numerous examples Part II then provides a survey of key tools and tool integration activities Finally Part III is dedicated to applications implementation issues and system integration considering different domains such as industrial control automotive systems and digital networks Three running examples are referred to throughout the book together with numerous illustrations helping both researchers and industry professionals to understand complex theory recognise problems and find appropriate solutions

Data Mining and Knowledge Discovery Approaches Based on Rule Induction Techniques Evangelos Triantaphyllou, Giovanni Felici, 2006-09-10 2 Some Background Information 49 3 Definitions and Terminology 52 4 The One Clause at a Time OCAT Approach 54 4 1 Data Binarization 54 4 2 The One Clause at a Time OCAT Concept 58 4 3 A Branch and Bound Approach for Inferring Clauses 59 4 4 Inference of the Clauses for the Illustrative Example 62 4 5 A Polynomial Time Heuristic for Inferring Clauses 65 5 A Guided Learning Approach 70 6 The Rejectability Graph of Two Collections of Examples 72 6 1 The Definition of the Rejectability Graph 72 6 2 Properties of the Rejectability Graph 74 6 3 On the Minimum Clique Cover of the Rejectability Graph 76 7 Problem Decomposition 77 7 1 Connected Components 77 7 2 Clique Cover 78 8 An Example of Using the Rejectability Graph 79 9 Conclusions 82 References 83 Author's Biographical Statement 87 Chapter 3 AN INCREMENTAL LEARNING ALGORITHM FOR INFERRING LOGICAL RULES FROM EXAMPLES IN THE FRAMEWORK OF THE COMMON REASONING PROCESS by X Naidenova 89 1 Introduction 90 2 A Model of Rule Based Logical Inference 96 2 1 Rules Acquired from Experts or Rules of the First Type 97 2 2 Structure of the Knowledge Base 98 2 3 Reasoning Operations for Using Logical Rules of the First Type 100 2 4 An Example of the Reasoning Process 102 3 Inductive Inference of Implicative Rules From Examples 103 3 **Automated Reasoning**

David Basin, Michael Rusinowitch, 2004-06-22 This volume constitutes the proceedings of the 2nd International Joint Conference on Automated Reasoning IJCAR 2004 held July 4 8 2004 in Cork Ireland IJCAR 2004 continued the tradition established at the first IJCAR in Siena Italy in 2001 which brought together different research communities working in automated

reasoning The current IJCAR is the fusion of the following conferences CADE The International Conference on Automated Deduction CALCULEMUS Symposium on the Integration of Symbolic Computation and Mechanized Reasoning FroCoS Workshop on Frontiers of Combining Systems FTP The International Workshop on First Order Theorem Proving and TABLEAUX The International Conference on Automated Reasoning with Analytic Tableaux and Related Methods There were 74 research papers submitted to IJCAR as well as 12 system descriptions After extensive reviewing 26 research papers and 6 system scriptions were accepted for presentation at the conference and publication in this volume In addition this volume also contains papers from the three invited speakers and a description of the CADE ATP system competition We would like to acknowledge the enormous amount of work put in by the members of the program committee the various organizing and steering c mittees the IJCAR o cials the invited speakers and the additional referees named on the following pages We would also like to thank Achim Brucker and Barbara Geiser for their help in producing this volume

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