

Logic and Integer Programming

H. P. Williams



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Pascal van Hentenryck, Michela Milano

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are used to draw together diverse problems or approaches into a unified whole In addition features of solution approaches found in today's commercial software are identified throughout the book Thoroughly classroom tested Applied Integer Programming is an excellent book for integer programming courses at the upper undergraduate and graduate levels It also serves as a well organized reference for professionals software developers and analysts who work in the fields of applied mathematics computer science operations research management science and engineering and use integer programming techniques to model and solve real world optimization problems 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 constraintsatisfaction 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 inproblem 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 developersseeking to combine the two techniques Features extensive references to important computational studies And much more **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 Principles and Practice of Constraint Programming Vijay Saraswat, Pascal Van Hentenryck, 1995 Constraint programming aims at supporting a wide range of complex applications which are often modeled naturally in terms of constraints Early work in the 1960s and 1970s made use of constraints in computer graphics user interfaces and artificial intelligence Such work introduced a declarative component in otherwise procedural systems to reduce the development effort Linear Programming in Computational and Systems Biology Dan Gusfield, 2019-06-13 This hands on tutorial text for non experts demonstrates biological applications of a versatile modeling and optimization technique **Computers** .1991-07-15 Advances in Computers Integer Programming John K. Karlof, 2005-09-22 Integer Programming Theory and Practice contains refereed articles that explore both theoretical aspects of integer programming as well as major applications This volume begins with a description of new constructive and iterative search methods for solving the Boolean optimization problem BOOP Following a review of recent developments *Encyclopedia of Optimization* Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling **Scientific Computing in Chemical Engineering II** Frerich Keil, 1999-05-19 The application of modern methods in numerical mathematics on problems in chemical engineering is essential for designing analyzing and running chemical processes and even entire plants Scientific Computing in Chemical Engineering II gives the state of the art from the point of view of numerical mathematicians as well as that of engineers The present volume as part of a two volume edition covers topics such as computer aided process design combustion and flame image processing optimization control and neural networks. The volume is aimed at scientists practitioners and graduate students in chemical engineering industrial engineering and numerical mathematics Logic-Based 0-1 Constraint *Programming* Peter Barth, 2012-12-06 A logic view of 0.1 integer programming problems providing new insights into the structure of problems that can lead the researcher to more effective solution techniques depending on the problem class Operations research techniques are integrated into a logic programming environment. The first monographic treatment that begins to unify these two methodological approaches Logic based methods for modelling and solving combinatorial problems have recently started to play a significant role in both theory and practice. The application of logic to combinatorial problems has a dual aspect On one hand constraint logic programming allows one to declaratively model combinatorial problems over

an appropriate constraint domain the problems then being solved by a corresponding constraint solver Besides being a high

level declarative interface to the constraint solver the logic programming language allows one also to implement those subproblems that cannot be naturally expressed with constraints On the other hand logic based methods can be used as a constraint solving technique within a constraint solver for combinatorial problems modelled as 0.1 integer programs

Logic-Based Decision Support R.G. Jeroslow,1989-02-01 This monograph is based on a series of lectures given by the author at the first Advanced Research Institute on Discrete Applied Mathematics held at Rutgers University It emphasizes connections between the representational aspects of mixed integer programming and applied logic as well as discussing logic based approaches to decision support which help to create more intelligent systems Dividing naturally into two parts the first four chapters are an overview of mixed integer programming representability techniques This is followed by five chapters on applied logic expert systems logic and databases and complexity theory It concludes with a summary of open research issues and an attempt to extrapolate trends in this rapidly developing area Computer Science Handbook Allen B.

Tucker,2004-06-28 When you think about how far and fast computer science has progressed in recent years it s not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today s computer scientists software engineers and IT professionals need With a broadened scope more emphasis on applied computing and more than 70 chap

Computer Science Logic Egon Börger,1992-09-10 This volume presents the proceedings of the workshop CSL 91 Computer Science Logic held at the University of Berne Switzerland October 7 11 1991 This was the fifth in a series of annual workshops on computer sciencelogic the first four are recorded in LNCS volumes 329 385 440 and 533 The volume contains 33 invited and selected papers on a variety of logical topics in computer science including abstract datatypes bounded theories complexity results cut elimination denotational semantics infinitary queries Kleene algebra with recursion minimal proofs normal forms in infinite valued logic ordinal processes persistent Petri nets plausibility logic program synthesis systems quantifier hierarchies semantics of modularization stable logic term rewriting systems termination of logic programs transitive closure logic variants of resolution and many others *Handbooks in Operations Research and Management Science* K. Aardal, George* L. Nemhauser, R. Weismantel, 2005-12-08 The chapters of this Handbook volume cover nine main topics that are representative of recent theoretical and algorithmic developments in the field In addition to the nine papers that present the state of the art there is an article on the early history of the field The handbook will be a useful reference to experts in the field as well as students and others who want to learn about discrete optimization

<u>Hybrid Optimization</u> Pascal van Hentenryck, Michela Milano, 2010-11-05 Hybrid Optimization focuses on the application of artificial intelligence and operations research techniques to constraint programming for solving combinatorial optimization problems This book covers the most relevant topics investigated in the last ten years by leading experts in the field and speculates about future directions for research This book includes contributions by experts from different but related areas of research including constraint programming decision theory operations research SAT artificial intelligence as well as

others These diverse perspectives are actively combined and contrasted in order to evaluate their relative advantages This volume presents techniques for hybrid modeling integrated solving strategies including global constraints decomposition techniques use of relaxations and search strategies including tree search local search and metaheuristics Various applications of the techniques presented as well as supplementary computational tools are also discussed Logic-Based Benders Decomposition John Hooker, 2023-11-18 This book is the first comprehensive guide to logic based Benders decomposition LBBD a general and versatile method for breaking large complex optimization problems into components that are small enough for practical solution The author introduces logic based Benders decomposition for optimization which substantially generalizes the classical Benders method It can reduce solution times by orders of magnitude and allows decomposition to be applied to a much wider variety of optimization problems On the theoretical side this book provides a full account of inference duality concepts that underlie LBBD as well as a description of how LBBD can be combined with stochastic and robust optimization heuristic methods and decision diagrams It also clarifies the connection between LBBD and combinatorial Benders cuts for mixed integer programming On the practical side it explains how LBBD has been applied to a rapidly growing variety of problem domains After describing basic theory this book provides a comprehensive review of the rapidly growing literature that describes these applications in each case explaining how LBBD is adapted to the problem at hand In doing so this work provides a sourcebook of ideas for applying LBBD to new problems as they arise

Handbook of Research on Natural Computing for Optimization Problems Mandal, Jyotsna Kumar, Mukhopadhyay, Somnath, Pal, Tandra, 2016-05-25 Nature inspired computation is an interdisciplinary topic area that connects the natural sciences to computer science Since natural computing is utilized in a variety of disciplines it is imperative to research its capabilities in solving optimization issues The Handbook of Research on Natural Computing for Optimization Problems discusses nascent optimization procedures in nature inspired computation and the innovative tools and techniques being utilized in the field Highlighting empirical research and best practices concerning various optimization issues this publication is a comprehensive reference for researchers academicians students scientists and technology developers interested in a multidisciplinary perspective on natural computational systems Study and Research Guide in Computer Science

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