


Optimization Based on Local Search

- ◆ Start with an initial setting of the link weights
 - E.g., same integer weight on every link
 - E.g., weights inversely proportional to link capacity
 - E.g., existing weights in the operational network
 - ◆ Compute the objective function
 - Compute the all-pairs shortest paths to get $P_{i,j,l}$
 - Apply the traffic matrix M_{ij} to get link loads u_l
 - Evaluate the objective function from the u_l/c_l
 - ◆ Generate a new setting of the link weights
- 
- repeat

Integer Optimization By Local Search

Harvey J. Greenberg



Integer Optimization By Local Search:

Integer Optimization by Local Search Joachim P. Walser, 1999-08-04 Integer Optimization addresses a wide spectrum of practically important optimization problems and represents a major challenge for algorithmics The goal of integer optimization is to solve a system of constraints and optimization criteria over discrete variables Integer Optimization by Local Search introduces a new approach to domain independent integer optimization which unlike traditional strategies is based on local search It develops the central concepts and strategies of integer local search and describes possible combinations with classical methods from linear programming The surprising effectiveness of the approach is demonstrated in a variety of case studies on large scale realistic problems including production planning timetabling radar surveillance and sports scheduling The monograph is written for practitioners and researchers from artificial intelligence and operations research

Computational Experiments for Local Search Algorithms for Binary and Mixed Integer Optimization Jingting Zhou (S.M.), Massachusetts Institute of Technology. Computation for Design and Optimization Program, 2010 In this thesis we implement and test two algorithms for binary optimization and mixed integer optimization respectively We fine tune the parameters of these two algorithms and achieve satisfactory performance We also compare our algorithms with CPLEX on large amount of fairly large size instances Based on the experimental results our binary optimization algorithm delivers performance that is strictly better than CPLEX on instances with moderately dense constraint matrices while for sparse instances our algorithm delivers performance that is comparable to CPLEX Our mixed integer optimization algorithm outperforms CPLEX most of the time when the constraint matrices are moderately dense while for sparse instances it yields results that are close to CPLEX and the largest gap relative to the result given by CPLEX is around 5% Our findings show that these two algorithms especially the binary optimization algorithm have practical promise in solving large dense instances of both set covering and set packing problems

Principles and Practice of Constraint Programming - CP 2005 Peter van Beek, 2005-09-22 This book constitutes the refereed proceedings of the 11th International Conference on Principles and Practice of Constraint Programming CP 2005 held in Sitges Spain in October 2005 The 48 revised full papers and 22 revised short papers presented together with extended abstracts of 4 invited talks and 40 abstracts of contributions to the doctoral students program as well as 7 abstracts of contributions to a systems demonstration session were carefully reviewed and selected from 164 submissions All current issues of computing with constraints are addressed ranging from methodological and foundational aspects to solving real world problems in various application fields

Principles and Practice of Constraint Programming - CP 2004 Mark Wallace, 2005-01-12 The 10th International Conference on the Principles and Practice of Constraint Programming CP 2003 was held in Toronto Canada during September 27 October 1 2004 Information about the conference can be found on the Web at <http://ai.uwaterloo.ca/cp2004> Constraint programming CP is about problem modelling problem solving programming optimization software engineering databases visualization user

interfaces and anything to do with satisfying complex constraints. It reaches into mathematics, operations research, artificial intelligence, algorithms, complexity modelling, and programming languages, and many aspects of computer science. Moreover, CP is never far from applications, and its successful use in industry and government goes hand in hand with the success of the CP research community. Constraint programming continues to be an exciting, flourishing, and growing research field. As the annual CP conference proceedings amply witness, this year from 158 submissions we chose 46 to be published in full in the proceedings. Instead of selecting one overall best paper, we picked out four distinguished papers, though we were tempted to select at least 12 such papers. In addition, we included 16 short papers in the proceedings; these were presented as posters at CP 2004. This volume includes summaries of the four invited talks of CP 2004. Two speakers from industry were invited. However, these were no ordinary industrial representatives, but two of the leading researchers in the CP community: Helmut Simonis of Parc Technologies until its recent takeover by Cisco Systems, and Jean-François Puget, Director of Optimization Technology at ILOG. The other two invited speakers are also big movers and shakers in the research community.

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 **Principles and Practice of Constraint Programming - CP 2003**

Francesca Rossi,2003-11-18 This volume contains the proceedings of the Ninth International Conference on Principles and Practice of Constraint Programming CP 2003 held in Kinsale Ireland from September 29 to October 3 2003 Detailed information about the CP 2003 conference can be found at the URL <http://www.cs.ucc.ie/cp2003> The CP conferences are held annually and provide an international forum for the latest results on all aspects of constraint programming Previous CP conferences were held in Cassis France in 1995 in Cambridge USA in 1996 in Schloss Hagenberg Austria in 1997 in Pisa Italy in 1998 in Alexandria USA in 1999 in Singapore in 2000 in Paphos Cyprus in 2001 and in Ithaca USA in 2002 Like previous CP conferences CP 2003 again showed the interdisciplinary nature of computing with constraints and also its usefulness in many problem domains and applications Constraint programming with its solvers languages theoretical results and applications has become a widely recognized paradigm to model and solve successfully many real life problems and to reason about problems in many research areas *Handbook of Metaheuristics* Fred W. Glover,Gary A. Kochenberger,2006-04-11

Metaheuristics in their original definition are solution methods that orchestrate an interaction between local improvement procedures and higher level strategies to create a process capable of escaping from local optima and performing a robust search of a solution space Over time these methods have also come to include any procedures that employ strategies for overcoming the trap of local optimality in complex solution spaces especially those procedures that utilize one or more neighborhood structures as a means of defining admissible moves to transition from one solution to another or to build or destroy solutions in constructive and destructive processes The degree to which neighborhoods are exploited varies according to the type of procedure In the case of certain population based procedures such as genetic algorithms neighborhoods are implicitly and somewhat restrictively defined by reference to replacing components of one solution with those of another by variously chosen rules of exchange popularly given the name of crossover In other population based methods based on the notion of path relinking neighborhood structures are used in their full generality including constructive and destructive neighborhoods as well as those for transitioning between complete solutions Certain hybrids of classical evolutionary approaches which link them with local search also use neighborhood structures more fully though apart from the combination process itself **Handbook of Approximation Algorithms and Metaheuristics** Teofilo F.

Gonzalez,2018-05-15 Handbook of Approximation Algorithms and Metaheuristics Second Edition reflects the tremendous growth in the field over the past two decades Through contributions from leading experts this handbook provides a comprehensive introduction to the underlying theory and methodologies as well as the various applications of approximation

algorithms and metaheuristics Volume 1 of this two volume set deals primarily with methodologies and traditional applications It includes restriction relaxation local ratio approximation schemes randomization tabu search evolutionary computation local search neural networks and other metaheuristics It also explores multi objective optimization reoptimization sensitivity analysis and stability Traditional applications covered include bin packing multi dimensional packing Steiner trees traveling salesperson scheduling and related problems Volume 2 focuses on the contemporary and emerging applications of methodologies to problems in combinatorial optimization computational geometry and graphs problems as well as in large scale and emerging application areas It includes approximation algorithms and heuristics for clustering networks sensor and wireless communication bioinformatics search streams virtual communities and more About the Editor Teofilo F Gonzalez is a professor emeritus of computer science at the University of California Santa Barbara He completed his Ph D in 1975 from the University of Minnesota He taught at the University of Oklahoma the Pennsylvania State University and the University of Texas at Dallas before joining the UCSB computer science faculty in 1984 He spent sabbatical leaves at the Monterrey Institute of Technology and Higher Education and Utrecht University He is known for his highly cited pioneering research in the hardness of approximation for his sublinear and best possible approximation algorithm for k tMM clustering for introducing the open shop scheduling problem as well as algorithms for its solution that have found applications in numerous research areas as well as for his research on problems in the areas of job scheduling graph algorithms computational geometry message communication wire routing etc

Stochastic Algorithms: Foundations and Applications Kathleen Steinhöfel, 2003-07-31 SAGA 2001 the rst Symposium on Stochastic Algorithms Foundations and Applications took place on December 13 14 2001 in Berlin Germany The present volume comprises contributed papers and four invited talks that were included in the nal program of the symposium Stochastic algorithms constitute a general approach to nding approximate solutions to a wide variety of problems Although there is no formal proof that stochastic algorithms perform better than deterministic ones there is evidence by empirical observations that stochastic algorithms produce for a broad range of applications near optimal solutions in a reasonable run time The symposium aims to provide a forum for presentation of original research in the design and analysis experimental evaluation and real world application of stochastic algorithms It focuses in particular on new algorithmic ideas invo ing stochastic decisions and exploiting probabilistic properties of the underlying problem domain The program of the symposium re ects the e ort to promote cooperation among practitioners and theoreticians and among algorithmic and complexity researchers of the eld In this context we would like to express our special gratitude to DaimlerChrysler AG for supporting SAGA 2001 The contributed papers included in the proceedings present results in the following areas Network and distributed algorithms local search methods for combinatorial optimization with application to constraint satisfaction problems manufacturing systems motor control unit calibration and packing exible jects and computational learning theory

Integration of AI and OR Techniques

in Constraint Programming for Combinatorial Optimization Problems Roman Barták, 2005-05-20 This book constitutes the refereed proceedings of the Second International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems CPAIOR 2005 held in Prague Czech Republic in May June 2005 The 26 revised full papers published together with an invited paper and abstracts of 2 invited talks were carefully reviewed and selected from close to 100 submissions Methodological and foundational issues from AI OR and algorithmics are presented as well as applications to the solution of combinatorial optimization problems in various fields Column Generation Guy Desaulniers, Jacques Desrosiers, Marius M. Solomon, 2006-03-20 Column Generation is an insightful overview of the state of the art in integer programming column generation and its many applications The volume begins with A Primer in Column Generation which outlines the theory and ideas necessary to solve large scale practical problems illustrated with a variety of examples Other chapters follow this introduction on Shortest Path Problems with Resource Constraints Vehicle Routing Problem with Time Window Branch and Price Heuristics Cutting Stock Problems each dealing with methodological aspects of the field Three chapters deal with transportation applications Large scale Models in the Airline Industry Robust Inventory Ship Routing by Column Generation and Ship Scheduling with Recurring Visits and Visit Separation Requirements Production is the focus of another three chapters Combining Column Generation and Lagrangian Relaxation Dantzig Wolfe Decomposition for Job Shop Scheduling and Applying Column Generation to Machine Scheduling The final chapter by François Vanderbeck Implementing Mixed Integer Column Generation reviews how to set up the Dantzig Wolfe reformulation adapt standard MIP techniques to the column generation context branching preprocessing primal heuristics and deal with specific column generation issues initialization stabilization column management strategies Domain-independent Local Search for Linear Integer Optimization Joachim Paul Walser, 1998 SAT 2005 Enrico Giunchiglia, Toby Walsh, 2007-01-21 This book is devoted to recent progress made in solving propositional satisfiability and related problems Propositional satisfiability is a powerful and general formalism used to solve a wide range of important problems including hardware and software verification The core of many reasoning problems in automated deduction are propositional Research into methods to automate such reasoning has therefore a long history in artificial intelligence In 1957 Allen Newell and Herb Simon introduced the Logic Theory Machine to prove propositional theorems from Whitehead and Russell's Principia mathematica In 1960 Martin Davis and Hillary Putnam introduced their eponymous decision procedure for satisfiability reasoning though for space reasons it was quickly superseded by the modified procedure proposed by Martin Davis George Logemann and Donald Loveland two years later In 1971 Stephen Cook's proof that propositional satisfiability is NP Complete placed satisfiability as the cornerstone of complexity theory **Optimization for Communications and Networks** Poompat Saengudomlert, 2011-09-22 This book provides an introduction to optimization theory and its applications It is written for senior undergraduate students and first year graduate students of telecommunication and related fields Most applications

pertain to communication and network problems The book has practical examples to accompany rigorous discussion so that the r

Proceedings of the ... International Joint Conference on Artificial Intelligence, 2001 Tutorials on Emerging Methodologies and Applications in Operations Research Harvey J. Greenberg, 2006-06-16 This volume reflects the theme of the INFORMS 2004 Meeting in Denver Back to OR Roots Emerging as a quantitative approach to problem solving in World War II our founders were physicists mathematicians and engineers who quickly found peace time uses It is fair to say that Operations Research OR was born in the same incubator as computer science and it has spawned many new disciplines such as systems engineering health care management and transportation science Although people from many disciplines routinely use OR methods many scientific researchers engineers and others do not understand basic OR tools and how they can help them Disciplines ranging from finance to bioengineering are the beneficiaries of what we do we take an interdisciplinary approach to problem solving Our strengths are modeling analysis and algorithm design We provide a quantitative foundation for a broad spectrum of problems from economics to medicine from environmental control to sports from e commerce to computational ometry We are both producers and consumers because the mainstream of OR is in the interfaces As part of this effort to recognize and extend OR roots in future probl solving we organized a set of tutorials designed for people who heard of the topic and want to decide whether to learn it The 90 minutes was spent addre ing the questions What is this about in a nutshell Why is it important Where can I learn more In total we had 14 tutorials and eight of them are published here

VSM 2000 Hal Thwaites, 2000 **IJCAI-01** Bernhard Nebel, 2001 **Matheuristics** Vittorio Maniezzo, Thomas Stützle, Stefan Voß, 2009-09-18 Metaheuristics support managers in decision making with robust tools that provide high quality solutions to important applications in business engineering economics and science in reasonable time frames but finding exact solutions in these applications still poses a real challenge However because of advances in the fields of mathematical optimization and metaheuristics major efforts have been made on their interface regarding efficient hybridization This edited book will provide a survey of the state of the art in this field by providing some invited reviews by well known specialists as well as refereed papers from the second Matheuristics workshop to be held in Bertinoro Italy June 2008 Papers will explore mathematical programming techniques in metaheuristics frameworks and especially focus on the latest developments in Mixed Integer Programming in solving real world problems Electric Power Distribution Reliability Richard E. Brown, 2002-03-06 Balancing theory practical knowledge and real world applications this reference consolidates all pertinent topics related to power distribution reliability into one comprehensive volume Exploring pressing issues in creating and analyzing reliability models the author highlights the most effective techniques to achieve maximum performance at lowest cost With over 300 tables figures and equations the book discusses service interruptions caused by equipment malfunction animals trees severe weather natural disasters and human error and evaluates strategies to improve reliability and quantifies their impact by incorporating them into component and system models

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