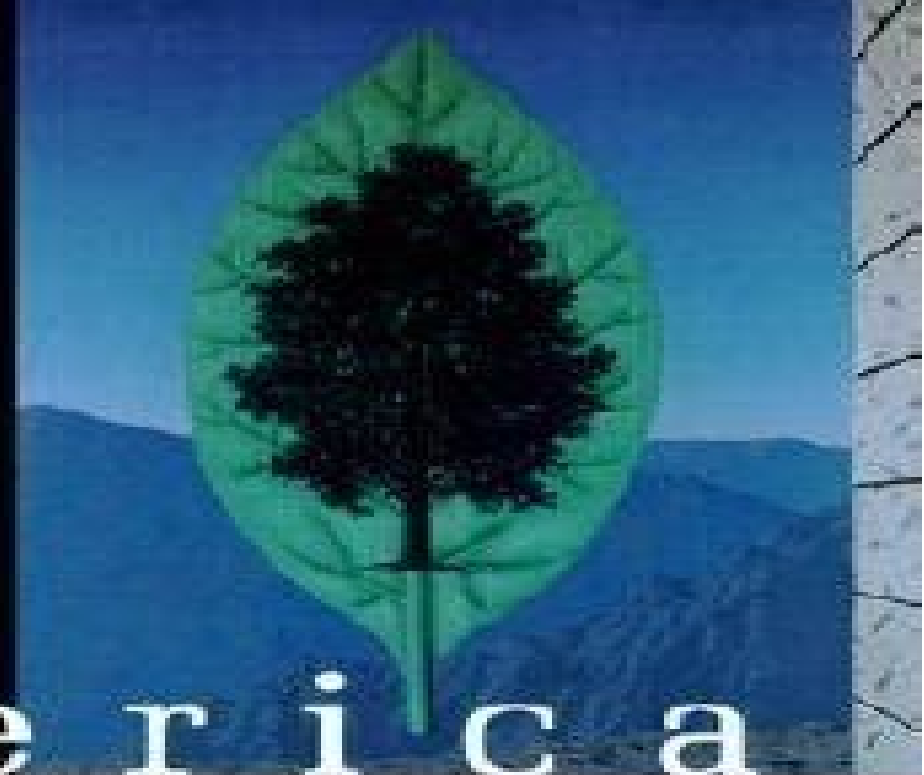




N u m e r i c a

A MODELING LANGUAGE FOR GLOBAL OPTIMIZATION

PASCAL VAN HENTENRYCK, LAURENT MICHEL, AND YVES DEVILLE

Numerica A Modeling Language For Global Optimization

Kim Marriott, Peter J. Stuckey



Numerica A Modeling Language For Global Optimization:

Numerica Pascal Van Hentenryck, Laurent Michel, Yves Deville, 1997 Many science and engineering applications require the user to find solutions to systems of nonlinear constraints or to optimize a nonlinear function subject to nonlinear constraints The field of global optimization is the study of methods to find all solutions to systems of nonlinear constraints and all global optima to optimization problems Numerica is modeling language for global optimization that makes it possible to state nonlinear problems in a form close to the statements traditionally found in textbooks and scientific papers The constraint solving algorithm of Numerica is based on a combination of traditional numerical methods such as interval and local methods and constraint satisfaction techniques This comprehensive presentation of Numerica describes its design functions and implementation It also discusses how to use Numerica effectively to solve practical problems and reports a number of experimental results A commercial implementation of Numerica is available from ILOG under the name ILOG Numerica

Gemischt-ganzzahlige Optimierung: Modellierung in der Praxis Josef Kallrath, 2013-03-08 Die gemischt ganzzahlige Optimierung Diskrete Optimierung wird in den Gebieten Logistik Transport Produktionsplanung Finanzen Kommunikation oder Yield Management eingesetzt Der Autor führt Modellbildungsaspekte und algorithmische Aspekte aus den Bereichen kontinuierlicher und gemischt ganzzahliger linearer und nichtlinearer und schließlich globaler Optimierung zusammen

Modeling Languages in Mathematical Optimization Josef Kallrath, 2013-12-01 This volume presents a unique combination of modeling and solving real world optimization problems It is the only book which treats systematically the major modeling languages and systems used to solve mathematical optimization problems and it also provides a useful overview and orientation of today's modeling languages in mathematical optimization It demonstrates the strengths and characteristic features of such languages and provides a bridge for researchers practitioners and students into a new world solving real optimization problems with the most advances modeling systems

Global Optimization and Constraint Satisfaction Christian Blier, Christophe Jermann, Arnold Neumaier, 2003-10-28 This book constitutes the thoroughly refereed post proceedings of the First International Workshop on Global Constraints Optimization and Constraint Satisfaction COCOS 2002 held in Valbonne Sophia Antipolis France in October 2002 The 15 revised full papers presented together with 2 invited papers were carefully selected during two rounds of reviewing and improvement The papers address current issues in global optimization mathematical programming and constraint programming they are grouped in topical sections on optimization constraint satisfaction and benchmarking

IJCAI-97 International Joint Conferences on Artificial Intelligence, 1997

Model-Based Optimization for Petroleum Refinery Configuration Design Cheng Seong Khor, 2024-01-03 Model Based Optimization for Petroleum Refinery Configuration Design An accessible easy to read introduction to the methods of mixed integer optimization with practical applications real world operational data and case studies Interest in model based approaches for optimizing the design of petroleum refineries has increased throughout the industry in recent years

Mathematical optimization based on mixed integer programming has brought about the superstructure optimization method for synthesizing petroleum refinery configurations from multiple topological alternatives Model Based Optimization for Petroleum Refinery Configuration Design presents a detailed introduction to the use of mathematical optimization to solve both linear and nonlinear problems in the refining industry The book opens with an overview of petroleum refining processes basic concepts in mathematical programming and applications of mathematical programming for refinery optimization Subsequent chapters address superstructure representations of topological alternatives mathematical formulation solution strategies and various modeling frameworks Practical case studies demonstrate refinery configuration design refinery retrofitting and real world issues and considerations Presents linear nonlinear and mixed integer programming approaches applicable to both new and existing petroleum refineries Highlights the benefits of model based solutions to refinery configuration design problems Features detailed case studies of the development and implementation of optimization models Discusses economic considerations of heavy oil processing including cash flow analysis of refinery costs and return on capital Includes numerical examples based on real world operational data and various commercial technologies Model Based Optimization for Petroleum Refinery Configuration Design is an invaluable resource for researchers chemical engineers process and energy engineers other refining professionals and advanced chemical engineering students **Acta Numerica**

2004: Volume 13 Arieh Iserles, 2004-06-03 An annual volume presenting substantive survey articles in numerical mathematics and scientific computing Constraint-Programmierung Thom Frühwirth, Slim Abdennadher, 2013-03-11 Das Buch gibt einen kompakten aber umfassenden Überblick über das Problemlösen und Programmieren mit Constraints Randbedingungen Diese aktuelle Programmiermethodik ermöglicht es Aufgaben direkt zu formulieren und effizient zu lösen Sie gewinnt zusehends Bedeutung in Anwendungsbereichen wie Kombinatorische Suchprobleme z.B. Zeitpläne Layout Optimierung Berechnungen Finanzanalyse Simulation Hardware Verifikation oder allgemein Schließen und Rechnen mit ungenauer oder unvollständiger Information z.B. Kostenschätzung Die theoretisch fundierte Darstellung mit Aufgaben und Anwendungsbeispielen aus der Praxis ist in der Lehre erprobt aber auch für Forscher und Praktiker von Nutzen

Relaxation and Decomposition Methods for Mixed Integer Nonlinear Programming Ivo Nowak, 2006-03-28 Nonlinear optimization problems containing both continuous and discrete variables are called mixed integer nonlinear programs MINLP Such problems arise in many fields such as process industry engineering design communications and finance There is currently a huge gap between MINLP and mixed integer linear programming MIP solving technology With a modern state of the art MIP solver it is possible to solve models with millions of variables and constraints whereas the dimension of solvable MINLPs is often limited by a number that is smaller by three or four orders of magnitude It is theoretically possible to approximate a general MINLP by a MIP with arbitrary precision However good MIP approximations are usually much larger than the original problem Moreover the approximation of nonlinear functions by piecewise linear functions can

be difficult and time consuming. In this book, relaxation and decomposition methods for solving nonconvex structured MINLPs are proposed. In particular, a generic branch and price BCP framework for MINLP is presented. BCP is the underlying concept in almost all modern MIP solvers. Providing a powerful decomposition framework for both sequential and parallel solvers, it made the success of the current MIP technology possible. So far, generic BCP frameworks have been developed only for MIP, for example COIN BCP (IBM, 2003) and ABACUS OREAS GmbH (1999). In order to generalize MIP BCP to MINLP, BCP, the following points have to be taken into account. A given sparse MINLP is reformulated as a block separable program with linear coupling constraints. The block structure makes it possible to generate Lagrangian cuts and to apply Lagrangian heuristics. In order to facilitate the generation of polyhedral relaxations, nonlinear convex relaxations are constructed. The MINLP separation and pricing subproblems for generating cuts and columns are solved with specialized MINLP solvers.

Principles and Practice of Constraint Programming - CP 2010 David Cohen, 2010-08-30. The 16th annual International Conference on the Principles and Practice of Constraint Programming CP 2010 was held in St Andrews, Scotland, during September 6-10, 2010. We would like to thank our sponsors for their generous support of this event. This conference is concerned with all aspects of computing with constraints, including theory, algorithms, applications, environments, languages, models, and systems. We received a wide variety of submissions, each of which was reviewed by at least three referees. Referees were chosen for each submission by an initial bidding process where Program Committee members chose papers from their area of interest. The range of expertise represented by the large Program Committee meant that almost all submissions were reviewed by subject experts on the Program Committee or by colleagues chosen by members of the Program Committee for their particular expertise. Papers were solicited either as long (15 page) or short (8 page) submissions. Short paper submissions were refereed to exactly the same high standards as long paper submissions but naturally were expected to contain a smaller quantity of new material. Thus, there is no distinction in these proceedings between short and long papers. I used the excellent EasyChair conference management system to support this process of reviewing and for the collation and organization of these proceedings. Submissions were made either to the applications track or to the research track. There were 101/23 short research track submissions of which 36/8 short were accepted, which is a 36%/35% of short acceptance rate. Application track submissions received special consideration and the acceptance rate was significantly higher than for the research track.

Handbook of Granular Computing Witold Pedrycz, Andrzej Skowron, Vladik Kreinovich, 2008-07-31. Although the notion is a relatively recent one, the notions and principles of Granular Computing (GrC) have appeared in a different guise in many related fields, including granularity in Artificial Intelligence, interval computing, cluster analysis, quotient space theory, and many others. Recent years have witnessed a renewed and expanding interest in the topic as it begins to play a key role in bioinformatics, e-commerce, machine learning, security, data mining, and wireless mobile computing, when it comes to the issues of effectiveness, robustness, and uncertainty. The Handbook of Granular Computing

offers a comprehensive reference source for the granular computing community edited by and with contributions from leading experts in the field Includes chapters covering the foundations of granular computing interval analysis and fuzzy set theory hybrid methods and models of granular computing and applications and case studies Divided into 5 sections Preliminaries Fundamentals Methodology and Algorithms Development of Hybrid Models and Applications and Case Studies Presents the flow of ideas in a systematic well organized manner starting with the concepts and motivation and proceeding to detailed design that materializes in specific algorithms applications and case studies Provides the reader with a self contained reference that includes all pre requisite knowledge augmented with step by step explanations of more advanced concepts The Handbook of Granular Computing represents a significant and valuable contribution to the literature and will appeal to a broad audience including researchers students and practitioners in the fields of Computational Intelligence pattern recognition fuzzy sets and neural networks system modelling operations research and bioinformatics

Granular Computing Witold Pedrycz, 2013-06-05 Granular Computing is concerned with constructing and processing carried out at the level of information granules Using information granules we comprehend the world and interact with it no matter which intelligent endeavor this may involve The landscape of granular computing is immensely rich and involves set theory interval mathematics fuzzy sets rough sets random sets linked together in a highly synergetic environment This volume is a first comprehensive treatment of this emerging paradigm and embraces its fundamentals underlying methodological framework and a sound algorithmic environment The panoply of applications covered includes system identification telecommunications linguistics and music processing Written by experts in the field this volume will appeal to all developing intelligent systems either working at the methodological level or interested in detailed system realization

Global Optimization Leo Liberti, Nelson Maculan, 2006-02-21 Most global optimization literature focuses on theory This book however contains descriptions of new implementations of general purpose or problem specific global optimization algorithms It discusses existing software packages from which the entire community can learn The contributors are experts in the discipline of actually getting global optimization to work and the book provides a source of ideas for people needing to implement global optimization software

The Logic Programming Paradigm Krzysztof R. Apt, Victor W. Marek, Mirek Truszczynski, David S. Warren, 2012-12-06 Logic Programming was founded 25 years ago This exciting new text reveals both the evolution of this programming paradigm since its inception and the impressively broad scope of current research in Logic Programming The contributions to the book deal with both theoretical and practical issues They address such diverse topics as computational molecular biology machine learning mobile computing multi agent systems planning numerical computing and dynamical systems database systems an alternative to the formulas as types approach program semantics and analysis and natural language processing The contributors are all leading world experts in Logic Programming and their contributions were all invited and refereed

Principles and Practice of Constraint Programming - CP98 Michael Maher, Jean-Francois

Puget,2003-05-20 Constraints have emerged as the basis of a representational and computational paradigm that draws from many disciplines and can be brought to bear on many problem domains This volume contains papers dealing with all aspects of computing with constraints In particular there are several papers on applications of constraints reflecting the practical usefulness of constraint programming The papers were presented at the 1998 International Conference on Principles and Practice of Constraint Programming CP 98 held in Pisa Italy 26-30 October 1998 It is the fourth in this series of conferences following conferences in Cassis France Cambridge USA and Schloss Hagenberg Austria We received 115 high quality submissions In addition 7 abstracts submissions were not followed by a full paper hence were not counted as submissions The program committee selected 29 high quality papers after thorough refereeing by at least 3 experts and further discussion by committee members We thank the referees and the program committee for the time and effort spent in reviewing the papers The program committee invited three speakers Joxan Jaffar Peter Jeavons Patrick Prosser Their papers are in this volume **Artificial Intelligence and Symbolic Computation** John A. Campbell,Eugenio

Roanes-Lozano,2003-06-29 This book constitutes the thoroughly refereed post proceedings of the International Conference on Artificial Intelligence and Symbolic Computation AISC 2000 held in Madrid Spain in July 2000 The 17 revised full papers presented together with three invited papers were carefully reviewed and revised for inclusion in the book Among the topics addressed are automated theorem proving logical reasoning mathematical modeling of multi agent systems expert systems and machine learning computational mathematics engineering and industrial applications **Programming with**

Constraints Kim Marriott,Peter J. Stuckey,1998 Constraints Simplification optimization and implication Finite constraint domains Constraint logic programming Simple modeling Using data structures Controlling search Modelling with finite domain constraints Advanced programming techniques CLP systems Other constraint programming languages Constraint databases Index Integration of AI and OR Techniques in Constraint Programming Laurent Michel,2015-04-15 This book constitutes the proceedings of the 12th International Conference on the Integration of Artificial Intelligence AI and Operations Research OR Techniques in Constraint Programming CPAIOR 2015 held in Barcelona Spain in May 2015 The 29 papers presented together with 8 short papers in this volume were carefully reviewed and selected from 90 submissions The purpose of the conference series is to bring together researchers in the fields of Constraint Programming Artificial Intelligence and Operations Research to explore ways of solving hard and large scale combinatorial optimization problems that emerge in various industrial domains Pooling the skills and strengths of this diverse group of researchers has proved extremely effective and valuable during the past decade leading to improvements and cross fertilization between the three fields as well as breakthrough for actual applications *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. Principles and Practice of Constraint Programming Gilles Pesant, 2015-08-12. This book constitutes the refereed conference proceedings of the 21st International Conference on Principles and Practice of Constraint Programming CP 2015 held in Cork, Ireland, in August-September 2015. This edition of the conference was part of George Boole 200, a celebration of the life and work of George Boole, who was born in 1815 and worked at the University College of Cork. It was also co-located with the 31st International Conference on Logic Programming ICLP 2015. The 48 revised papers presented together with 3 invited talks and 16 abstract papers were carefully selected from numerous submissions. The scope of CP 2014 includes all aspects of computing with constraints, including theory, algorithms, environments, languages, models, systems, and applications such as decision making, resource allocation, scheduling, configuration, and planning.

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Table of Contents Numerica A Modeling Language For Global Optimization

1. Understanding the eBook Numerica A Modeling Language For Global Optimization
 - The Rise of Digital Reading Numerica A Modeling Language For Global Optimization
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerica A Modeling Language For Global Optimization
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerica A Modeling Language For Global Optimization
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerica A Modeling Language For Global Optimization
 - Personalized Recommendations
 - Numerica A Modeling Language For Global Optimization User Reviews and Ratings
 - Numerica A Modeling Language For Global Optimization and Bestseller Lists
5. Accessing Numerica A Modeling Language For Global Optimization Free and Paid eBooks
 - Numerica A Modeling Language For Global Optimization Public Domain eBooks
 - Numerica A Modeling Language For Global Optimization eBook Subscription Services
 - Numerica A Modeling Language For Global Optimization Budget-Friendly Options

6. Navigating Numerica A Modeling Language For Global Optimization eBook Formats
 - ePub, PDF, MOBI, and More
 - Numerica A Modeling Language For Global Optimization Compatibility with Devices
 - Numerica A Modeling Language For Global Optimization Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerica A Modeling Language For Global Optimization
 - Highlighting and Note-Taking Numerica A Modeling Language For Global Optimization
 - Interactive Elements Numerica A Modeling Language For Global Optimization
8. Staying Engaged with Numerica A Modeling Language For Global Optimization
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerica A Modeling Language For Global Optimization
9. Balancing eBooks and Physical Books Numerica A Modeling Language For Global Optimization
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerica A Modeling Language For Global Optimization
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Numerica A Modeling Language For Global Optimization
 - Setting Reading Goals Numerica A Modeling Language For Global Optimization
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Numerica A Modeling Language For Global Optimization
 - Fact-Checking eBook Content of Numerica A Modeling Language For Global Optimization
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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