

Andreas Podelski (Ed.)

Constraint Programming: Basics and Trends

1994 Châtillon Spring School
Châtillon-sur-Seine, France, May 1994
Selected Papers



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Christian Schulte



Constraint Programming Selected Papers:

Recent Advances in Constraints Krzysztof Apt, Francois Fages, Francesca Rossi, Peter Szeredi, Josef Váncza, 2004-04-07
Constraint programming is the fruit of several decades of research carried out in mathematical logic automated deduction operations research and artificial intelligence The tools and programming languages arising from this research have enjoyed real success in the industrial world as they contribute to solving hard combinatorial problems in diverse domains such as production planning communication networks robotics and bioinformatics This volume contains the extended and reviewed versions of a selection of papers presented at the Joint ERCIM CoLogNET International Workshop on Constraint Solving and Constraint Logic Programming CSCLP2003 which was held from June 30 to July 2 2003 The venue chosen for the seventh edition of this annual workshop was the Computer and Automation Research Institute of the Hungarian Academy of Sciences MTA SZTAKI in Budapest Hungary This institute is one of the 20 members of the Working Group on Constraints of the European Research Consortium for Informatics and Mathematics ERCIM For many participants this workshop provided the first opportunity to visit their ERCIM partner in Budapest CoLogNET is the European funded network of excellence dedicated to supporting and enhancing cooperation and research on all areas of computational logic and continues the work done previously by the Compulog Net In particular the aim of the logic and constraint logic programming area of CoLogNET is to foster and support all research activities related to logic programming and constraint logic programming The editors would like to take the opportunity and thank all the authors who submitted papers to this volume as well as the reviewers for their helpful work

Principles and Practice of Constraint Programming - CP 2012 Michela Milano, 2012-10-03 This book constitutes the thoroughly refereed post conference proceedings of the 18th International Conference on Principles and Practice of Constraint Programming CP 2012 held in Quebec Canada in October 2012 The 68 revised full papers were carefully selected from 186 submissions Beside the technical program the conference featured two special tracks The former was the traditional application track which focused on industrial and academic uses of constraint technology and its comparison and integration with other optimization techniques MIP local search SAT etc The second track featured for the first time in 2012 concentrated on multidisciplinary papers cross cutting methodology and challenging applications collecting papers that link CP technology with other techniques like machine learning data mining game theory simulation knowledge compilation visualization control theory and robotics In addition the track focused on challenging application fields with a high social impact such as CP for life sciences sustainability energy efficiency web social sciences finance and verification

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 - 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 tober 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

Principles and Practice of Constraint Programming-CP 2013 Christian

Schulte,2013-09-07 This book constitutes the refereed conference proceedings of the 18th International Conference on Principles and Practice of Constraint Programming CP 2013 held in Uppsala Sweden in September 2013 The 61 revised papers presented together with 3 invited talks were carefully selected from 138 submissions The scope of the conference is on all aspects of computing with constraints including theory algorithms environments languages models and systems applications such as decision making resource allocation and agreement technologies *Recent Advances in Constraints*

Angelo Oddi,François Fages,Francesca Rossi,2009-07-28 This book constitutes the thoroughly refereed and extended post workshop proceedings of the 13th Annual ERCIM International Workshop on Constraint Solving and Constraint Logic Programming CSCLP 2008 held in Rome Italy in June 2008 The 9 revised full papers presented were carefully reviewed and selected from 14 initial submissions The papers in this volume present original research results as well as applications in many aspects of constraint solving and constraint logic programming Research topics that can be found in the papers are rst order constraints symmetry breaking global constraints constraint optimization problems distributed constraint solving problems soft constraints as well as the analysis of application domains such as cumulative resource problems and hybrid systems **Analysis and Visualization Tools for Constraint Programming** Pierre Deransart,M.V. Hermenegildo,J.

Maluszynski,2000-09-27 This book is the first one entirely devoted to the topic of constraint debugging it presents new approaches to debugging for the computational paradigm of constraint programming The book is based on the European research project DiSCiPl It consists of an introduction and three parts each of them composed of several chapters The introduction presents the DiSCiPl debugging methodology and explains how the technical chapters are related The three parts on correctness debugging performance debugging and user cases offer a total of 13 consistently written chapters

Ten Years Of Concurrency Semantics: Selected Papers Of The Amsterdam Concurrency Group J W De Bakker,J Rutten,1992-09-22 This collection of reprints describes a unified treatment of semantics covering a wide range of notions in parallel languages Included are several foundational and introductory papers developing the methodology of metric semantics studies on the comparative semantics of parallel object oriented and logic programming and papers on full abstraction and transition system specifications In addition links with process algebra and the theory of domain equations are established Throughout a uniform proof technique is used to relate operational and denotational models The approach is flexible in that both linear time branching time or bisimulation and intermediate models can be handled as well as schematic and interpreted elementary actions The reprints are preceded by an extensive introduction surveying related work on metric semantics *Recent Advances in Constraints*

François Fages,Francesca Rossi,Sylvain Soliman,2008-12-01 This book constitutes the thoroughly refereed and extended post workshop proceedings of the 12th Annual ERCIM International Workshop on Constraint Solving and Constraint Logic Programming CSCLP 2007 held in Rocquencourt France in June 2007 The 10 revised full papers presented were carefully reviewed and selected from 16 initial submissions The papers address all

aspects of constraint and logic programming including foundational issues implementation techniques new applications as well as teaching issues Particular emphasis is placed on assessing the current state of the art and identifying future directions *Trends in Constraint Programming* Frédéric Benhamou, Narendra Jussien, Barry A. O'Sullivan, 2013-05-06 This title brings together the best papers on a range of topics raised at the annual International Conference on Principles and Practice of Constraint Programming This conference provides papers and workshops which produce new insights concepts and results which can then be used by those involved in this area to develop their own work **Recent Advances in Constraints** Barry O'Sullivan, 2003-08-03 This book constitutes the thoroughly refereed post proceedings of the Joint ERCIM CologNet International Workshop on Constraint Solving and Constraint Logic Programming held in Cork Ireland in June 2002 The 14 revised full papers presented were carefully selected for inclusion in the book during two rounds of reviewing and revision Among the topics addressed are verification and debugging of constraint logic programs modeling and solving CSPs explanation generation inference and inconsistency processing SAT and 0 1 encodings of CSPs soft constraints and constraint relaxation real world applications and distributed constraint solving Integration of Constraint Programming, Artificial Intelligence, and Operations Research Peter J. Stuckey, 2021-06-17 This volume LNCS 12735 constitutes the papers of the 18th International Conference on the Integration of Constraint Programming Artificial Intelligence and Operations Research CPAIOR 2021 which was held in Vienna Austria in 2021 Due to the COVID 19 pandemic the conference was held online The 30 regular papers presented were carefully reviewed and selected from a total of 75 submissions The conference program included a Master Class on the topic Explanation and Verification of Machine Learning Models **Principles and Practice of Constraint Programming - CP 2000** Rina Dechter, 2003-06-29 This volume constitutes the refereed proceedings of the 6th International Conference on Principles and Practice of Constraint Programming CP 2000 held in Singapore in September 2000 The 31 revised full papers and 13 posters presented together with three invited contributions were carefully reviewed and selected from 101 submissions All current issues of constraint processing ranging from theoretical and foundational issues to applications in various fields are addressed **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 **Principles and Practice of Constraint Programming - CP97** Gert

Smolka,1997-10-15 This book constitutes the refereed proceedings of the Third International Conference on Principles and Practice of Constraint Programming CP 97 held in Linz Austria in October November 1997 The volume presents 37 revised full papers carefully selected from a total of 132 submissions also included are the abstracts of two invited talks and three tutorials The papers address all current aspects of constraint programming Among the topics covered are constraint matching constraint languages set constraints constraint search constraint satisfaction problems scheduling constraint routing temporal constraints constraint graphs local search object oriented constraint programming etc Integration of AI and OR Techniques in Constraint Programming Domenico Salvagnin,Michele Lombardi,2017-05-30 This book constitutes the proceedings of the 14th International Conference on Integration of Artificial Intelligence and Operations Research Techniques in Constraint Programming for Combinatorial Optimization Problems CPAIOR 2017 held in Padua Italy in June 2017 The 32 full papers presented together with 6 abstracts were carefully reviewed and selected from numerous submissions The conference brings together interested researchers from constraint programming artificial intelligence and operations research to present new techniques or applications in the intersection of these fields and provides an opportunity for researchers in one area to learn about techniques in the others and to show how the integration of techniques from different fields can lead to interesting results on large and complex problems Index of Conference Proceedings British Library. Document Supply Centre,2003 Practice and Theory of Automated Timetabling V Edmund Burke,Michael Trick,2005-11-15 This volume contains a selection of papers from the 5th International Conference on the Practice and Theory of Automated Timetabling PATAT 2004 held in Pittsburgh USA August 18 20 2004 Indeed as we write this preface in the Summer of 2005 we note that we are about one month away from the tenth anniversary of the very first PATAT conference in Edinburgh Since those very early days the conference series has gone from strength to strength and this volume represents the latest in a series of rigorously refereed volumes which showcase a broad spectrum of ground breaking timetabling research across a very wide range of timetabling problems and applications Timetabling is an area that unites a number of disparate fields and which cuts across a number of diverse academic disciplines While the most obvious instances of timetabling occur in educational institutions timetabling also appears in sports applications transportation planning project scheduling and many other fields Viewing timetabling as a unifying theme enables researchers from these various areas to learn from each other and to extend their own search and practice in new and innovative ways This volume continues the trend of the conference series to extend the definition of timetabling beyond its educational roots In this volume seven of the 19 papers involve domains other than education Of course educational timetabling remains at the core of timetabling research and the papers in this volume represent the full range of this area including exam timetabling

room scheduling and class rostering

Constraint Programming and Decision Making: Theory and Applications

Martine Ceberio, Vladik Kreinovich, 2017-09-07 This book describes new algorithms and ideas for making effective decisions under constraints including applications in control engineering manufacturing how to optimally determine the production level econometrics how to better predict stock market behavior and environmental science and geosciences how to combine data of different types It also describes general algorithms and ideas that can be used in other application areas The book presents extended versions of selected papers from the annual International Workshops on Constraint Programming and Decision Making CoProd XX from 2013 to 2016 These workshops held in the US El Paso Texas and in Europe W rzburg Germany and Uppsala Sweden have attracted researchers and practitioners from all over the world It is of interest to practitioners who benefit from the new techniques to researchers who want to extend the ideas from these papers to new application areas and or further improve the corresponding algorithms and to graduate students who want to learn more in short to anyone who wants to make more effective decisions under constraints *Functional and Constraint Logic*

Programming Julio Marino, 2011-05-10 This book contains a selection of the papers presented at the 19th International Workshop on Functional and Constraint Logic Programming WFLP 2010 held in Madrid Spain in January 2010 as part of the ACM SIGPLAN Principles of Programming Languages event POPL 2010 From the 15 papers submitted 12 were accepted for presentation at the workshop The 8 regular papers presented in this volume were selected following a second round of reviewing which took place after the event They are complemented by a full length invited talk by the workshop s guest speaker Mariangiola Dezani Ciancaglini All current issues in the areas of functional and constraint logic programming are covered including foundational aspects language design implementation transformation and analysis software engineering integration of paradigms and applications

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Table of Contents Constraint Programming Selected Papers

1. Understanding the eBook Constraint Programming Selected Papers
 - The Rise of Digital Reading Constraint Programming Selected Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Constraint Programming Selected Papers
 - 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 Constraint Programming Selected Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Constraint Programming Selected Papers
 - Personalized Recommendations
 - Constraint Programming Selected Papers User Reviews and Ratings
 - Constraint Programming Selected Papers and Bestseller Lists
5. Accessing Constraint Programming Selected Papers Free and Paid eBooks
 - Constraint Programming Selected Papers Public Domain eBooks
 - Constraint Programming Selected Papers eBook Subscription Services
 - Constraint Programming Selected Papers Budget-Friendly Options
6. Navigating Constraint Programming Selected Papers eBook Formats

- ePub, PDF, MOBI, and More
- Constraint Programming Selected Papers Compatibility with Devices
- Constraint Programming Selected Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Constraint Programming Selected Papers
 - Highlighting and Note-Taking Constraint Programming Selected Papers
 - Interactive Elements Constraint Programming Selected Papers
- 8. Staying Engaged with Constraint Programming Selected Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Constraint Programming Selected Papers
- 9. Balancing eBooks and Physical Books Constraint Programming Selected Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Constraint Programming Selected Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Constraint Programming Selected Papers
 - Setting Reading Goals Constraint Programming Selected Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Constraint Programming Selected Papers
 - Fact-Checking eBook Content of Constraint Programming Selected Papers
 - 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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