

Thom Frühwirth
Slim Abdennadher

Essentials of Constraint Programming



Springer

Essentials Of Constraint Programming 1st Edition

JG Myers



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Essentials of Constraint Programming Thom Frühwirth, Slim Abdennadher, 2013-03-14 The use of constraints had its scientific and commercial breakthrough in the 1990s Programming with constraints makes it possible to model and specify problems with uncertain incomplete information and to solve combinatorial problems as they are abundant in industry and commerce such as scheduling planning transportation resource allocation layout design and analysis This book is a short concise and complete presentation of constraint programming and reasoning covering theoretical foundations algorithms implementations examples and applications It is based on more than a decade of experience in teaching and research about this subject This book is intended primarily for graduate students researchers and practitioners in diverse areas of computer science and related fields including programming languages computational logic symbolic computation and artificial intelligence The book is complemented by a web page with teaching material software links and more We take the reader on a step by step journey through the world of constraint based programming and constraint reasoning Feel free to join in Acknowledgements Thorn thanks his wife Andrea and his daughter Anna for everything He dedicates his contribution to the book to the memory of his mother Grete Slim thanks his wife Nabila and his daughters Shirine and Amira for their ongoing support and patience

Practical Aspects of Declarative Languages Pascal van Hentenryck, 2005-12-19 This volume contains the papers presented at the Eighth International Symposium on Practical Aspects of Declarative Languages PADL 2006 held on January 9-10 2006 in Charleston South Carolina Information about the conference can be found at <http://www.cs.brown.edu/people/pvh/PADL06.html> As is now traditional PADL 2006 was co-located with the 33rd Annual Symposium on Principles of Programming Languages that was held on January 11-13 2006 The PADL conference series is a forum for researchers and practitioners to present original work emphasizing novel applications and implementation techniques for all forms of declarative concepts Topics of interest include but are not limited to Innovative applications of declarative languages Declarative domain specific languages and applications Practical applications of theoretical results New language developments and their impact on applications Evaluation of implementation techniques on practical applications Novel implementation techniques relevant to applications Novel uses of declarative languages in the classroom Practical experiences This year there were 36 submissions Each submission was reviewed by at least three Programme Committee members The committee decided to accept 15 papers In addition the programme also included three invited talks by Erik Meijer David Roundy and Philip Walder

Evolutionary Scheduling Keshav Dahal, Kay Chen Tan, Peter I. Cowling, 2007-04-25 Evolutionary scheduling is a vital research domain at the interface of artificial intelligence and operational research This edited book gives an overview of many of the current developments in the large and growing field of evolutionary scheduling It demonstrates the applicability of evolutionary computational techniques to solve scheduling problems not only to small scale test problems but also fully fledged real world problems

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

Fundamentals of Software Engineering Mehdi Dastani, Marjan Sirjani, 2015-09-24 This book constitutes the thoroughly refereed post conference proceedings of the 6th IPM International Conference on Fundamentals of Software Engineering FSEN 2015 held in Tehran Iran in April 2015 The 21 full papers presented in this volume were carefully reviewed and selected from 64 submissions The topics of interest in FSEN span over all aspects of formal methods especially those related to advancing the application of formal methods in software industry and promoting their integration with practical engineering techniques Fundamentals of Information Systems Torsten Polle, Torsten Ripke, Klaus-Dieter Schewe, 2012-12-06 Fundamentals of Information Systems contains articles from the 7th International Workshop on Foundations of Models and Languages for Data and Objects FoMLaDO 98 which was held in Timmel Germany These articles

capture various aspects of database and information systems theory identification as a primitive of database models deontic action programs marked nulls in queries topological canonization in spatial databases complexity of search queries complexity of Web queries attribute grammars for structured document queries hybrid multi level concurrency control efficient navigation in persistent object stores formal semantics of UML reengineering of object bases and integrity dependence Fundamentals of Information Systems serves as an excellent reference providing insight into some of the most challenging research issues in the field *ACM Transactions on Programming Languages and Systems* Association for Computing Machinery,2004 Parallel Processing for Artificial Intelligence 2 V. Kumar,H. Kitano,C.B. Suttner,2014-06-28 With the increasing availability of parallel machines and the raising of interest in large scale and real world applications research on parallel processing for Artificial Intelligence AI is gaining greater importance in the computer science environment Many applications have been implemented and delivered but the field is still considered to be in its infancy This book assembles diverse aspects of research in the area providing an overview of the current state of technology It also aims to promote further growth across the discipline Contributions have been grouped according to their subject architectures 3 papers languages 4 papers general algorithms 6 papers and applications 5 papers The internationally sourced papers range from purely theoretical work simulation studies algorithm and architecture proposals to implemented systems and their experimental evaluation Since the book is a second volume in the parallel processing for AI series it provides a continued documentation of the research and advances made in the field The editors hope that it will inspire readers to investigate the possibilities for enhancing AI systems by parallel processing and to make new discoveries of their own **Proceedings of the Seventh International Conference on Genetic Algorithms** Thomas Bäck,1997 Proceedings of the biennial International Conference on Genetic Algorithms available for 1989 present *Constraint Programming* ,1995 *Programming Languages: Implementations, Logics, and Programs* ,1995 *Fundamentals of Management Science* Efraim Turban,Jack R. Meredith,1998 **American Book Publishing Record** ,2005 **2001 IEEE International Symposium on Intelligent Control** IEEE Control Systems Society Staff,2001-09 Proceedings of the ... International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming ,2007 *Whitaker's Books in Print* ,1998 **Parallel Processing for Artificial Intelligence** Laveen N. Kanal,1994 Parallel processing for AI problems is of great current interest because of its potential for alleviating the computational demands of AI procedures The articles in this book consider parallel processing for problems in several areas of artificial intelligence image processing knowledge representation in semantic networks production rules mechanization of logic constraint satisfaction parsing of natural language data filtering and data mining The publication is divided into six sections The first addresses parallel computing for processing and understanding images The second discusses parallel processing for semantic networks which are widely used means for representing knowledge methods which enable efficient and flexible processing of semantic networks are expected

to have high utility for building large scale knowledge based systems The third section explores the automatic parallel execution of production systems which are used extensively in building rule based expert systems systems containing large numbers of rules are slow to execute and can significantly benefit from automatic parallel execution The exploitation of parallelism for the mechanization of logic is dealt with in the fourth section While sequential control aspects pose problems for the parallelization of production systems logic has a purely declarative interpretation which does not demand a particular evaluation strategy In this area therefore very large search spaces provide significant potential for parallelism In particular this is true for automated theorem proving The fifth section considers the problem of constraint satisfaction which is a useful abstraction of a number of important problems in AI and other fields of computer science It also discusses the technique of consistent labeling as a preprocessing step in the constraint satisfaction problem Section VI consists of two articles each on a different important topic The first discusses parallel formulation for the Tree Adjoining Grammar TAG which is a powerful formalism for describing natural languages The second examines the suitability of a parallel programming paradigm called Linda for solving problems in artificial intelligence Each of the areas discussed in the book holds many open problems but it is believed that parallel processing will form a key ingredient in achieving at least partial solutions It is hoped that the contributions sourced from experts around the world will inspire readers to take on these challenging areas of inquiry

Data Mining and Knowledge Discovery ,1999 Data Mining and Knowledge Discovery Belur V. Dasarathy,1999 The incorporation of new technology into aviation has had an enormous impact Advances in microelectronics stealth technology engine design and electronic sensors and displays have converted simple aircraft into formidable flying machines In this book recognized experts in aviation helmet mounted displays summarize 25 years of knowledge and experience in HMD visual acoustic and biodynamic performance and user issues such as sizing fitting and emergency egress Design, Specification and Verification of Interactive Systems '96 Francois Bodart,1996-10-07 Making systems easier to use implies an ever increasing complexity in managing communication between users and applications Indeed an increasing part of the application code is devoted to the user interface portion In order to manage this complexity it is important to have tools notations and methodologies which support the designer s work during the refinement process from specification to implementation Selected revised papers from the Eurographics workshop in Namur review the state of the art in this area comparing the different existing approaches to this field in order to identify the principle requirements and the most suitable notations and indicate the meaningful results which can be obtained from them

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