

**Lecture Notes in  
Computer Science**

**1870**

**Pierre Deransart Manuel V. Hermenegildo  
Jan Małuszyński (Eds.)**

**Analysis and  
Visualization Tools  
for Constraint  
Programming**

**Constraint Debugging**



**Springer**

# Analysis And Visualization Tools For Constraint Programming Constraint Debugging

**Christian G. Meyer**



## **Analysis And Visualization Tools For Constraint Programming Constraint Debugging:**

**Analysis and Visualization Tools for Constraint Programming** Pierre Deransart, M.V. Hermenegildo, J. Maluszynski, 2006-12-31 Coordinating production across a supply chain designing a new VLSI chip allocating classrooms or scheduling maintenance crews at an airport are just a few examples of complex combinatorial problems that can be modeled as a set of decision variables whose values are subject to a set of constraints The decision variables may be the time when production of a particular lot will start or the plane that a maintenance crew will be working on at a given time Constraints may range from the number of students you can t in a given classroom to the time it takes to transfer a lot from one plant to another Despite advances in computing power many forms of these and other combinatorial problems have continued to defy conventional programming approaches Constraint Logic Programming CLP first emerged in the mid eighties as a programming technique with the potential of significantly reducing the time it takes to develop practical solutions to many of these problems by combining the expressiveness of languages such as Prolog with the computational power of constrained search While the roots of CLP can be traced to Monash University in Australia it is without any doubt in Europe that this new software technology has gained the most prominence benefiting among other things from sustained funding from both industry and public R D programs over the past dozen years These investments have already paid off resulting in a number of popular commercial solutions as well as the creation of several successful European startups

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[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

**Analysis and Visualization Tools for Constraint Programming** Pierre Deransart, M.V. Hermenegildo, J. Maluszynski, 2014-01-15

**Programming Constraint Services** Christian Schulte, 2003-08-01 Constraint Programming is an approach for modeling and solving combinatorial problems that has proven successful in many applications It builds on techniques developed in Artificial Intelligence Logic Programming and operations Research Key techniques are constraint propagation and heuristic search Constraint Programming is based on an abstraction that decomposes a problem solver into a reusable constraint engine and a declarative program modeling the problem The constraint engine implements the required propagation and search algorithms It can be realized as a library for a general purpose programming language e.g. C as an extension of an existing language e.g. Prolog or as a system with its own dedicated language The present book is concerned with the architecture and implementation of constraint engines It presents a new concurrent architecture that is far superior to the sequential architecture underlying Prolog The new architecture is based on concurrent search with copying and recomputation rather than sequential search with trailing and backtracking One advantage of the concurrent approach is that it accommodates any search strategy Furthermore it considerably simplifies the implementation of constraint propagation algorithms since it eliminates the need to account for trailing and backtracking The book investigates an expressive generalization of the concurrent architecture that accommodates propagation preserving combinators known as deep guard combinators for negation disjunction implication and retraction of constraint propagators Such combinators are beyond the scope of Prolog's technology In the concurrent approach they can be obtained with a reflective encapsulation primitive

*Logic-Based Program Synthesis and Transformation* Annalisa Bossi, 2006-12-30 This volume contains the proceedings of the ninth international workshop on logic based program synthesis and transformation LOPSTR 99 which was held in Venice Italy September 22-24 1999

LOPSTR is the annual workshop and forum for researchers in the logic based program development stream of computational logic The main focus used to be on synthesis and transformation of logic programs but the workshop is open to contributions on logic based program development in any paradigm Previous workshops were held in Manchester UK 1991 1992 Louvain-la-Neuve Belgium 1993 Pisa Italy 1994 Arnhem The Netherlands 1995 Stockholm Sweden 1996 Leuven Belgium 1997 and Manchester UK 1998 LOPSTR is a real workshop in the sense that it is a friendly and lively forum for presenting recent and current research as well as discussing future trends Formal proceedings of the workshop are produced only after the workshop and contain only those papers selected by the program committee after a second refereeing process The program

committee of LOPSTR 99 accepted 20 extended abstracts for presentation at the workshop then selected 14 papers for inclusion in the workshop proceedings. Selected papers cover all the main streams of LOPSTR's topics: synthesis, specialization, transformation, analysis, and verification. Verification, transformation, and specialization methods are applied to functional constraint logic and imperative programming.

*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.

**Semantics** Muhammad Tanvir Afzal, 2012-04-25. The current book is a nice blend of number of great ideas, theories, mathematical models, and practical systems in the domain of Semantics. The book has been divided into two volumes. The current one is the first volume which highlights the advances in theories and mathematical models in the domain of Semantics. This volume has been divided into four sections and ten chapters. The sections include: 1. Background, 2. Queries, Predicates, and Semantic Cache, 3. Algorithms and Logic Programming, and 4. Semantic Web and Interfaces. Authors across the World have contributed to debate on state-of-the-art systems, theories, mathematical models in the domain of Semantics. Subsequently, new theories, mathematical models, and systems have been proposed, developed, and evaluated.

**Principles and Practice of Declarative Programming**, 2006  
**Proceedings of the ... International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming**, 2006  
**ERCIM/CologNet 2002** Barry O'Sullivan, 2003-04-07. 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     **Static Analysis** ,2003  
    **Functional and Logic Programming** ,2006     **Logic-based Program Synthesis and Transformation /** ,1999  
    *Automata, Languages and Programming* ,2002     *ACM Transactions on Programming Languages and Systems*  
Association for Computing Machinery,2000     **Proceedings** ,2005     *The British National Bibliography* Arthur James  
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