# Constraint Processing

### is about ...

- Solving a decision problem...
- While allowing the user to state <u>arbitrary</u> constraints in an expressive way and
- Providing concise and high-level feedback about alternatives and conflicts

### Related areas:

AI, OR, Algorithmic, DB, TCS, Prog. Languages, etc.

## **Constraint Processing**

**Gilles Pesant** 

#### **Constraint Processing:**

Constraint Processing Rina Dechter, 2003-05-05 Constraint reasoning has matured over the last three decades with contributions from a diverse community of researchers in artificial intelligence databases and programming languages operations research management science and applied mathematics In Constraint Processing Rina Dechter synthesizes these contributions as well as her own significant work to provide the first comprehensive examination of the theory that underlies Constraint Processing Manfred Meyer, 1995-06-20 This volume contains 15 thoroughly constraint processing algorithms refereed full research papers selected from the presentations given during two workshops on constraint processing these workshops were held in conjunction with the International Congress on Computer Systems and Applied Mathematics St Petersburg Russia July 1993 and the European Conference on Artificial Intelligence Amsterdam The Netherlands August 1994 This volume essentially contributes to integrating the different approaches to the young and very active field of constraint processing by offering papers from logic programming knowledge representation expert systems theoretical computer science operations research and other fields Among contributions are two surveys by Podelski and van Roy and by Freuder 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 Data Mining and Constraint Programming Christian Bessiere, Luc De Raedt, Lars Kotthoff, Siegfried Nijssen, Barry O'Sullivan, Dino Pedreschi, 2016-12-01 A successful integration of constraint programming and data mining has the potential to lead to a new ICT paradigm with far reaching implications It could change the face of data mining and machine learning as well as constraint programming technology It would not only allow one to use data mining techniques in constraint programming to identify and update constraints and optimization criteria but also to employ constraints and criteria in data mining and machine learning in order to discover models compatible with prior knowledge This book reports on some key results obtained on this integrated and cross disciplinary approach within the European FP7 FET Open project no 284715 on Inductive Constraint Programming and a number of associated workshops and Dagstuhl seminars The book is structured in five parts background learning to model learning to solve constraint programming for data mining and showcases **Principles and Practice of Constraint Programming - CP 2001** Toby Walsh, 2003-06-30 This book constitutes the refereed proceedings of the 7th International Conference on Principles and Practice of Constraint Programming CP 2001 held in Paphos Cyprus in November December 2001 The 37 revised full papers 9 innovative applications presentations and 14 short papers presented were carefully reviewed and selected from a total of 135 submissions All current issues in constraint processing are addressed ranging from theoretical and foundational issues to advanced and innovative applications in a variety of fields **Principles and Practice of Constraint Programming Vijay** Saraswat, Pascal Van Hentenryck, 1995 Constraint programming aims at supporting a wide range of complex applications which are often modeled naturally in terms of constraints Early work in the 1960s and 1970s made use of constraints in computer graphics user interfaces and artificial intelligence Such work introduced a declarative component in otherwise procedural systems to reduce the development effort **Constraint Handling Rules** Tom Schrijvers, Thom Frühwirth, 2009-03-26 The ConstraintHandling Rules CHR languagecameto life morethan 15 years ago Sincethen ithasbecomeamajordeclarativespeci cationandimplemen tion language for constraint based algorithms and applications In recent years the ve Workshops on Constraint Handling Rules have spurred the exchange of ideas within the CHR community which has led to increased international collaboration new theoretical results and optimized implementations The aim of this volume of Lecture Notes in Ariti cial Intelligence was to attract high quality research papers on these recent advances in CHR The 8 papersinthis issuewereselectedfrom11submissionsaftercarefulreviewingand subsequent revisions Each paper was reviewd by three reviewers The accepted papers represent some of the research teams on CHR around the world It is not by

accident that the currently most active research group is featured here with three articles We also would have liked to see contributions from other CHR teams but space is limited and the reviewers took their job seriously After an introductory article that foreshadows an upcoming monograph on CHR the accepted papers span a range of current research topics in the CHR community It goes from extending the CHR language with search facilities and the related adaptive framework and from generating rules from speci cations of constraint solvers to implementing abductive probabilistic reasoning They cover the theory that is a compositional semantics for CHR and nally describe e cient implementations of CHR in traditional mainstream programming I guages and compiler optimizations in the context of the re ned semantics of CHR Wewouldliketothanktheauthorsofsubmittedpapersandthemanyrevi ers for their contribution in making this collection of research papers possible Principles and Practice of Constraint Programming - CP '95 Ugo Montanari, 1995-09-06 This book constitutes the proceedings of the First International Conference on Principles and Practice of Constraint Programming CP 95 held in Cassis near Marseille France in September 1995 The 33 refereed full papers included were selected out of 108 submissions and constitute the main part of the book in addition there is a 60 page documentation of the four invited papers and a section presenting industrial reports Thus besides having a very strong research component the volume will be attractive for practitioners. The papers are organized in sections on efficient constraint handling constraint logic programming concurrent constraint programming computational logic applications and operations research

Principles and Practice of Constraint Programming - CP 2006 Frédéric Benhamou, 2006-09-26 This book constitutes the refereed proceedings of the 12th International Conference on Principles and Practice of Constraint Programming CP 2006 held in Nantes France in September 2006 The 42 revised full papers and 21 revised short papers presented together with extended abstracts of four invited talks were carefully reviewed and selected from 142 submissions All current issues of computing with constraints are addressed 
Integration of Constraint Programming, Artificial Intelligence, and Operations Research Bistra Dilkina, 2024-05-27 This book constitutes the proceedings of the 21st International Conference on the Integration of Constraint Programming Artificial Intelligence and Operations Research CPAIOR 2024 held in Uppsala Sweden during May 28 31 2024 The 33 full papers and the 9 short papers presented in the proceedings were carefully reviewed and selected from a total of 104 submissions The content of the papers focus on new techniques or applications in the area and foster the integration of techniques from different fields dealing with large and complex problems

Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems
Tobias Achterberg, J. Christopher Beck, 2011-05-05 This book constitutes the refereed proceedings of the 8th International
Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems
CPAIOR 2011 held in Berlin Germany in May 2011 The 13 revised full papers and 7 revised short papers presented together
with 3 invited lectures were carefully reviewed and selected from 35 submissions The papers are focused on both theoretical

and practical application oriented issues and present current research with a special focus on the integration and hybridization of the approaches of constraint programming artificial intelligence and operations research technologies for solving large scale and complex real life combinatorial optimization problems Principles and Practice of Constraint <u>Programming - CP 2005</u> Peter van Beek, 2005-10-19 The 11th International Conference on the Principles and Practice of Constraint Programming CP 2005 was held in Sitges Barcelona Spain October 1 5 2005 Information about the conference can be found on the web at http www iiia csic es cp2005 Informationaboutpastconferencesinthe series can be found athttp www cs ualberta ca ai cp The CP conference series is the premier international conference on c straint programming and is held annually The conference is concerned with all aspects of computing with constraints including algorithms applications environments languages models and systems This year we received 164 submissions All of the submitted papers received atleastthreereviews andthepapersandtheirreviewswerethenextensivelyd cussed during an online Program Committee meeting As a result the Program Committee chose 48 29 3% papers to be published in full in the proceedings and a further 22 13 4% papers to be published as short papers. The full papers were presented at the conference in two parallel tracks and the short papers were presented as posters during a lively evening session. Two papers were selected by a subcommittee of the ProgramCommittee consisting of Chris Beck Gilles Pesant and myself to receive best paper awards The conference program also included excellent invited talks by Hector Gener Ian Horrocks Francesca Rossi and Peter J. Stuckey As a permanent record the proceedings contain four page extended abstracts of the invited talks **Constraint Programming** Brian Mayoh, Enn Tyugu, Jaan Penjam, 2013-11-21 Constraint programming is like an octopus spreading its tentacles into databases operations research artificial intelligence and many other areas The concept of constraint programming was introduced in artificial intelligence and graphics in the 1960s and 1970s Now the related techniques are used and studied in many fields of computing Different aspects of constraint processing are investigated in theoretical computer science logic programming knowledge representation operations research and related application domains Constraint programming has been included in the lists of related topics of many conferences Nevertheless only in 1993 were the first forums held devoted as a whole to this field of knowledge These were the First Workshop on Principles and Practice of Constraint Programming PPCP 93 which was held in Newport Rhode Island USA April 28 30 the International Workshop on Constraint Processing at CSAM 93 held in St Petersburg Russia July 20 21 and the NATO Advanced Study Institute NATO AS on Constraint Programming held in Parnu Estonia August 13 24 NATO A Sis are aimed to be schools bringing together leading researchers and practitioners from industry and academia in some area of knowledge to provide a concise picture of the work done and results obtained by different groups This is intended for dissemination of advanced knowledge not yet taught regularly in of new topics university However ASis must also encourage the introduction into university curricula as well as foster international scientific contacts **Principles and Practice of Constraint Programming** John Hooker, 2018-08-22 This

book constitutes the proceedings of the 24th International Conference on Principles and Practice of Constraint Programming CP 2018 held in Lille France in August 2018 The 41 full and 9 short papers presented in this volume were carefully reviewed and selected from 114 submissions They deal with 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 The papers were organized according to the following topics tracks main technical track applications track CP and data science CP and music CP and operations research CP optimization and power system management multiagent and parallel CP and testing and verification Principles and Practice of Constraint Programming -CP 2010 David Cohen, 2010-09-07 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 C mittee 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 disti tion 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 Therewere 101 23 short research track submissions of which 36 8 short were accepted whichisa 36% 35% of short acceptance rate Application strack submissions received special consideration and the acceptance rate was sign cantly higher than for the research track 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 c puting with constraints In particular there are several papers on applications of constraints re ecting 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 e ort spent in reviewing the papers The program committee invited three speakers Joxan Ja ar Peter Jeavons Patrick Prosser Their papers are in this volume **Principles and Practice of Constraint Programming - CP 2007** Christian Bessiere, 2007-09-06 This book constitutes the refereed proceedings of the 13th International Conference on Principles and Practice of Constraint Programming CP 2007 It contains 51 revised full papers and 14 revised short papers presented together with eight application papers and the abstracts of two invited lectures All current issues of computing with constraints are addressed ranging from methodological and foundational aspects to solving real world problems in various **Principles and Practice of Constraint Programming - CP 2004** Mark Wallace, 2005-01-12 The 10th application fields 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 c plexity 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 Constraintprogramming continues to bean exciting ourishingandgrowing research eld astheannualCPconferenceproceedingsamplywitness Thisyear 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 papersin 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 buttwoofthe leadingresearchersinthe CPcommunity Helmut Simonis of Parc Technologies until its recent takeover by Cisco Systems and Jean Francoi's Puget Director of Optimization Technology at ILOG The other two invited speakers are also big movers and shakers in the research community Integration of AI and OR Techniques in Constraint Programming for **Combinatorial Optimization Problems** Jean-Charles Régin, Michel Rueher, 2004-04-07 This book constitutes the refereed proceedings of the First International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems CPAIOR 2004 held in Nice France in April 2004 The 23 revised full papers and 7 revised short papers presented together with an invited talk were carefully reviewed and selected from 56 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 via constraint programming **Principles and Practice of** Constraint Programming - CP 2000 Rina Dechter, 2000-09-06 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

Uncover the mysteries within Crafted by is enigmatic creation, **Constraint Processing**. This downloadable ebook, shrouded in suspense, is available in a PDF format ( PDF Size: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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