

Roman Barták · Robert A. Morris · K. Brent Venable

# An Introduction to Constraint-Based Temporal Reasoning

# Constraint Based Reasoning Special Issues Of Artificial Intelligence

**Toby Walsh**



## **Constraint Based Reasoning Special Issues Of Artificial Intelligence:**

**Constraint-based Reasoning** Eugene C. Freuder, Alan K. Mackworth, 1994 Constraint based reasoning is an important area of automated reasoning in artificial intelligence with many applications These include configuration and design problems planning and scheduling temporal and spatial reasoning defeasible and causal reasoning machine vision and language understanding qualitative and diagnostic reasoning and expert systems Constraint Based Reasoning presents current work in the field at several levels theory algorithms languages applications and hardware Constraint based reasoning has connections to a wide variety of fields including formal logic graph theory relational databases combinatorial algorithms operations research neural networks truth maintenance and logic programming The ideal of describing a problem domain in natural declarative terms and then letting general deductive mechanisms synthesize individual solutions has to some extent been realized and even embodied in programming languages Contents Introduction E C Freuder A K Mackworth The Logic of Constraint Satisfaction A K Mackworth Partial Constraint Satisfaction E C Freuder R J Wallace Constraint Reasoning Based on Interval Arithmetic The Tolerance Propagation Approach E Hyvonen Constraint Satisfaction Using Constraint Logic Programming P Van Hentenryck H Simonis M Dincbas Minimizing Conflicts A Heuristic Repair Method for Constraint Satisfaction and Scheduling Problems S Minton M D Johnston A B Philips and P Laird Arc Consistency Parallelism and Domain Dependence P R Cooper M J Swain Structure Identification in Relational Data R Dechter J Pearl Learning to Improve Constraint Based Scheduling M Zweben E Davis B Daun E Drascher M Deale M Eskey Reasoning about Qualitative Temporal Information P van Beek A Geometric Constraint Engine G A Kramer A Theory of Conflict Resolution in Planning Q Yang A Bradford Book     Artificial Intelligence in Design '96 John S. Gero, Fay Sudweeks, 2012-12-06 Change is one of the most significant parameters in our society Designers are amongst the primary change agents for any society As a consequence design is an important research topic in engineering and architecture and related disciplines since design is not only a means of change but is also one of the keystones to economic competitiveness and the fundamental precursor to manufacturing The development of computational models founded on the artificial intelligence paradigm has provided an impetus for much of current design research both computational and cognitive These forms of design research have only been carried out in the last decade or so and in the temporal sense they are still immature Notwithstanding this immaturity noticeable advances have been made both in extending our understanding of design and in developing tools based on that understanding Whilst many researchers in the field of artificial intelligence in design utilise ideas about how humans design as one source of concepts there is normally no attempt to model human designers Rather the results of the research presented in this volume demonstrate approaches to increasing our understanding of design as a process     *Trends in Artificial Intelligence Theory and Applications. Artificial Intelligence Practices* Hamido Fujita, Philippe Fournier-Viger, Moonis Ali, Jun Sasaki, 2020-09-04 This book constitutes the thoroughly refereed proceedings of the 33rd International Conference on Industrial Engineering

and Other Applications of Applied Intelligent Systems IEA AIE 2020 held in Kitakyushu Japan in September 2020 The 62 full papers and 17 short papers presented were carefully reviewed and selected from 119 submissions The IEA AIE 2020 conference will continue the tradition of emphasizing on applications of applied intelligent systems to solve real life problems in all areas These areas include are language processing robotics and drones knowledge based systems innovative applications of intelligent systems industrial applications networking applications social network analysis financial applications and blockchain medical and health related applications anomaly detection and automated diagnosis decision support and agent based systems multimedia applications machine learning data management and data clustering pattern mining system control classification and fault diagnosis      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      **Artificial Intelligence in Design '00** John S. Gero,2012-12-06 Designing is one of the foundations for change in our society It is a fundamental precursor to manufacturing fabrication and construction Design research aims to develop an understanding of designing and to produce models of designing that can be used to aid designing The papers in this volume are from the Sixth International Conference on Artificial Intelligence in Design AID 00 held in June 2000 in Worcester Massachusetts USA They represent the state of the art and the cutting edge of research and development in this field and demonstrate both the depth and breadth of the artificial intelligence paradigm in design They point the way for the development of advanced computer based tools to aid designers and describe advances in both theory and application This volume will be of particular interest to researchers developers and users of advanced computer systems in design      Over-Constrained Systems Michael Jampel,Eugene Freuder,1996-07-24 This volume presents a collection of refereed papers reflecting the state of the art in the area of over constrained systems Besides 11 revised full papers selected from the 24 submissions to the OCS workshop held in conjunction with the First International Conference on Principles and Practice of Constraint Programming CP 95 held in Marseilles in September 1995 the book includes three comprehensive background papers of central importance for the workshop papers and the whole field Also included is an introduction by one of the volume editors together with a bibliography listing 243 entries All in all this is a very useful reference book relevant for all researchers and practitioners interested in hierarchical partial and over constrained systems      **Artificial Intelligence in Perspective** Daniel Gureasko Bobrow,1994 This major collection of short essays reviews the scope and progress of research in artificial intelligence over the past two decades Seminal and most cited papers from the journal Artificial Intelligence are revisited by the authors who describe how their research has been

developed both by themselves and by others since the journals first publication The twenty eight papers span a wide variety of domains including truth maintenance systems and qualitative process theory chemical structure analysis diagnosis of faulty circuits and understanding visual scenes they also span a broad range of methodologies from AI's mathematical foundations to systems architecture The volume is dedicated to Allen Newell and concludes with a section of fourteen essays devoted to a retrospective on the strength and vision of his work Sections Contributors Artificial Intelligence in Perspective D G Bobrow Foundations J McCarthy R C Moore A Newell N J Nilsson J Gordon and E H Shortliffe J Pearl A K Mackworth and E C Freuder J de Kleer Vision H G Barrow and J M Tenenbaum B K P Horn and B Schunck K Ikeuchi T Kanade Qualitative Reasoning J de Kleer K D Forbus B J Kuipers Y Iwasake and H A Simon Diagnosis R Davis M R Genesereth P Szolovits and S G Pauker R Davis B G Buchanan and E H Shortliffe W J Clancey Architectures J S Aikins B Hayes Roth M J Stefik et al Systems R E Fikes and N J Nilsson E A Feigenbaum and B G Buchanan J McDermott Allen Newell H A Simon M J Stefik and S W Smoliar M A Arbib D C Dennett Purves R C Schank and M Y Jona P S Rosenbloom and J E Laird P E Agre      **Artificial Intelligence Techniques for a Scalable Energy Transition** Moamar Sayed-Mouchaweh, 2020-06-19 This book presents research in artificial techniques using intelligence for energy transition outlining several applications including production systems energy production energy distribution energy management renewable energy production cyber security industry 4.0 and internet of things etc The book goes beyond standard application by placing a specific focus on the use of AI techniques to address the challenges related to the different applications and topics of energy transition The contributions are classified according to the market and actor interactions service providers manufacturers customers integrators utilities etc to the SG architecture model physical layer infrastructure layer and business layer to the digital twin of SG business model operational model fault transient model and asset model and to the application domain demand side management load monitoring micro grids energy consulting residents utilities energy saving dynamic pricing revenue management and smart meters etc

*Applying Soft Computing in Defining Spatial Relations* Pascal Matsakis, Les M. Sztandera, 2012-08-13 Geometric properties and relations play central roles in the description and processing of spatial data The properties and relations studied by mathematicians usually have precise definitions but verbal descriptions often involve imprecisely defined concepts such as elongatedness or proximity The methods used in soft computing provide a framework for formulating and manipulating such concepts This volume contains eight papers on the soft definition and manipulation of spatial relations and gives a comprehensive summary on the subject      **Integration of Constraint Programming, Artificial Intelligence, and Operations Research** Emmanuel Hebrard, Nysret Musliu, 2020-09-18 The volume LNCS 12296 constitutes the papers of the 17th International Conference on the Integration of Constraint Programming Artificial Intelligence and Operations Research which will be held online in September 2020 The 32 regular papers presented together with 4 abstracts of fast track papers were carefully reviewed and selected from a total of 72 submissions Additionally this volume includes the 4 abstracts and 2

invited papers by plenary speakers The conference program also included a Master Class on the topic Recent Advances in Optimization Paradigms and Solving Technology *Constraint-Based Reasoning*, 1992 *Artificial Intelligence in the Petroleum Industry* Bertrand Braunschweig, B. A. Bremdal, 1996 Recent Advances in Natural Language Processing III Nicolas Nicolov, 2004 This volume brings together revised versions of a selection of papers presented at the 2003 International Conference on Recent Advances in Natural Language Processing A wide range of topics is covered in the volume semantics dialogue summarization anaphora resolution shallow parsing morphology part of speech tagging named entity question answering word sense disambiguation information extraction Various state of the art techniques are explored finite state processing machine learning support vector machines maximum entropy decision trees memory based learning inductive logic programming transformation based learning perceptions latent semantic analysis constraint programming The papers address different languages Arabic English German Slavic languages and use different linguistic frameworks HPSG LFG constraint based DCG This book will be of interest to those who work in computational linguistics corpus linguistics human language technology translation studies cognitive science psycholinguistics artificial intelligence and informatics *Intelligent Tutoring Systems* Beverly Woolf, Esma Aimeur, Roger Nkambou, Susanne Lajoie, 2008-07-08 This book constitutes the refereed proceedings of the 9th International Conference on Intelligent Tutoring Systems ITS 2008 held in Montreal Canada in June 2008 The 63 revised full papers and 61 poster papers presented together with abstracts of 5 keynote talks were carefully reviewed and selected from 207 submissions The papers are organized in topical sections on emotion and affect tutor evaluation student modeling machine learning authoring tools tutor feedback and intervention data mining e learning and Web based ITS natural language techniques and dialogue narrative tutors and games semantic Web and ontology cognitive models and collaboration **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      *Theory and Application of Diagrams* Michael Anderson, Peter Cheng, Volker Haarslev, 2003-07-31 Diagrams 2000 is dedicated to the memory of Jon Barwise Diagrams 2000 was the rst event in a new interdisciplinary conference series on the Theory and Application of Diagrams It was held at the University of Edinburgh Scotland September 1 3 2000 Driven by the pervasiveness of diagrams in human communication and by the increasing availability of graphical environments in computerized work the study of diagrammatic notations is emerging as a research eld in its own right This development has simultaneously taken place in several scienti c disciplines including amongst others cognitive science arti cial intelligence and computer science Consequently a number of di erent workshop series on this topic have been successfully organized during the last few years Thinking with Diagrams Theory of Visual Languages Reasoning with Diagrammatic Representations and Formalizing Reasoning with Visual and Diagrammatic Representations Diagrams are simultaneously complex cognitive phenonema and sophis cated computational artifacts So to be successful and relevant the study of diagrams must as a whole be interdisciplinary in nature Thus the workshop series mentioned above decided to merge into Diagrams 2000 as the single terdisciplinary conference for this exciting new eld It is intended that Diagrams 2000 should become the premier international conference series in this area and provide a forum with su cient breadth of scope to encompass researchers from all academic areas who are studying the nature of diagrammatic representations and their use by humans and in machines      *Advanced Artificial Intelligence* Zhongzhi Shi, 2011 Advanced Artificial Intelligence consists of 16 chapters The content of the book is novel reflects the research updates in this field and especially summarises the author s scientific efforts over many years      *Developments in Applied Artificial Intelligence* Paul Chung, Chris Hinde, Ali Moonis, 2003-06-11 This book constitutes the refereed proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems IEA AIE 2003 held in Loughborough UK in June 2003 The 81 revised full papers presented were carefully reviewed and selected

from more than 140 submissions Among the topics addressed are soft computing fuzzy logic diagnosis knowledge representation knowledge management automated reasoning machine learning planning and scheduling evolutionary computation computer vision agent systems algorithmic learning tutoring systems financial analysis etc

**Developments in Applied Artificial Intelligence** Ali Moonis,Paul Chung,Chris Hinde,2003-08-02 The refereed proceedings of the 16th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems IEA AIE 2003 held in Loughborough UK in June 2003 The 81 revised full papers presented were carefully reviewed and selected from more than 140 submissions Among the topics addressed are soft computing fuzzy logic diagnosis knowledge representation knowledge management automated reasoning machine learning planning and scheduling evolutionary computation computer vision agent systems algorithmic learning tutoring systems and financial analysis

**A Short Introduction to Preferences** Francesca Rossi,Kristen Brent Venable,Toby Walsh,2011 Computational social choice is an expanding field that merges classical topics like economics and voting theory with more modern topics like artificial intelligence multiagent systems and computational complexity This book provides a concise introduction to the main research lines in this field covering aspects such as preference modelling uncertainty reasoning social choice stable matching and computational aspects of preference aggregation and manipulation The book is centered around the notion of preference reasoning both in the single agent and the multi agent setting It presents the main approaches to modeling and reasoning with preferences with particular attention to two popular and powerful formalisms soft constraints and CP nets The authors consider preference elicitation and various forms of uncertainty in soft constraints They review the most relevant results in voting with special attention to computational social choice Finally the book considers preferences in matching problems The book is intended for students and researchers who may be interested in an introduction to preference reasoning and multi agent preference aggregation and who want to know the basic notions and results in computational social choice Table of Contents Introduction Preference Modeling and Reasoning Uncertainty in Preference Reasoning Aggregating Preferences Stable Marriage Problems



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