

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 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

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

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

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

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 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 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 first 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 field in its own right This development has simultaneously taken place in several scientific disciplines including amongst others cognitive science artificial intelligence and computer science Consequently a number of different 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 phenomena and sophisticated 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 interdisciplinary conference for this exciting new field It is intended that Diagrams 2000 should become the premier international conference series in this area and provide a forum with sufficient 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 *The Handbook of Applied Expert Systems* Jay Liebowitz, 2019-07-23 The Handbook of Applied Expert Systems is a landmark work dedicated solely to this rapidly advancing area of study Edited by Jay Liebowitz a professor author and consultant known around the world for his work in the field this authoritative source covers the latest expert system technologies applications methodologies and practices The book features contributions from more than 40 of the world's foremost expert systems authorities in industry government and academia The Handbook is organized into two major sections The first section explains expert systems technologies while the second section focuses on applied examples in a wide variety of industries Key topics covered include fuzzy systems genetic algorithm development machine learning knowledge representation and much more **Case-Based Reasoning Research and Development** Manuela Veloso, Agnar Aamodt, 1995-10-16 This book constitutes the refereed proceedings of the First International Conference on Case Based Reasoning ICCBR 95 held in Sesimbra Portugal in October 1995 The 52 revised papers included are classified as scientific papers application papers and posters All current aspects of research and development aiming at industrial applications in CBR are addressed Among the topical sections are case and knowledge representation case retrieval nearest neighbour methods case adaptation and learning cognitive modelling integrated reasoning methods and application oriented methods planning decision making diagnosis interpretation design etc *Logical Aspects of Computational Linguistics* Philippe de

Groote, Glyn Morrill, Christian Retore, 2003-06-29 This book constitutes the refereed proceedings of the 4th International Conference on Logical Aspects of Computational Linguistics LACL 2001 held in Le Croisic France in June 2001 The 16 revised full papers presented together with two invited papers were carefully reviewed and selected for presentation Among the topics covered are categorical grammars dependency grammars formal language theory grammatical inference hyperintensional semantics minimalism type logical semantics language learning and natural language processing

Metaheuristics Mauricio G.C. Resende, J. Pinho de Sousa, 2003-11-30 Combinatorial optimization is the process of finding the best or optimal solution for problems with a discrete set of feasible solutions Applications arise in numerous settings involving operations management and logistics such as routing scheduling packing inventory and production management location logic and assignment of resources The economic impact of combinatorial optimization is profound affecting sectors as diverse as transportation airlines trucking rail and shipping forestry manufacturing logistics aerospace energy electrical power petroleum and natural gas telecommunications biotechnology financial services and agriculture While much progress has been made in finding exact provably optimal solutions to some combinatorial optimization problems using techniques such as dynamic programming cutting planes and branch and cut methods many hard combinatorial problems are still not solved exactly and require good heuristic methods Moreover reaching optimal solutions is in many cases meaningless as in practice we are often dealing with models that are rough simplifications of reality The aim of heuristic methods for combinatorial optimization is to quickly produce good quality solutions without necessarily providing any guarantee of solution quality Metaheuristics are high level procedures that coordinate simple heuristics such as local search to find solutions that are of better quality than those found by the simple heuristics alone Modern metaheuristics include simulated annealing genetic algorithms tabu search GRASP scatter search ant colony optimization variable neighborhood search and their hybrids Artificial Intelligence in the Petroleum Industry Bertrand

Braunschweig, Ron Day, 1995 **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 **Abduction and Induction** P.A. Flach, Antonis Hadjiantonis, 2013-04-18 From the very beginning of their investigation of human reasoning philosophers have identified two other forms of reasoning besides deduction which we now call abduction and induction Deduction is now fairly well understood but abduction and induction have eluded a similar level of understanding The papers collected here address the

relationship between abduction and induction and their possible integration The approach is sometimes philosophical sometimes that of pure logic and some papers adopt the more task oriented approach of AI The book will command the attention of philosophers logicians AI researchers and computer scientists in general 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

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