

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

*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 maintainance 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

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S Rosenbloom and J E Laird P E Agre      **Over-Constrained Systems** Michael Jampel, Eugene Freuder, 1996-07-24 This  
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systems      **Integration of Constraint Programming, Artificial Intelligence, and Operations Research** Emmanuel  
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