Constraint Processing: Overview

- ⊙ Illustrating the idea with examples:
  - → Numerical constraint nets, Spreadsheets

- ⊙ Defining constraint problems
- ⊙ Techniques for solving them:
  - → A variety of backtracking techniques
  - → Consistency and relaxation
  - → Hybrid constraint techniques

- ⊙ Some applications:
  - → Understanding line drawings
  - → Disambiguating natural language

Constraint Processing

Francisco Azevedo

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 algorithms **Constraint Processing** Rina Dechter,2003-05-22 Constraint satisfaction is a simple but powerful tool Constraints identify the impossible and reduce the realm of possibilities to effectively focus on the possible allowing for a natural declarative formulation of what must be satisfied without expressing how The field of 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 Today constraint problems are used to model cognitive tasks in vision language comprehension default reasoning diagnosis scheduling temporal and spatial reasoning In Constraint Processing Rina Dechter synthesizes these contributions along with her own significant work to provide the first comprehensive examination of the theory that underlies constraint processing algorithms Throughout she focuses on fundamental tools and principles emphasizing the representation and analysis of algorithms Examines the basic practical aspects of each topic and then tackles more advanced issues including current research challenges Builds the reader s understanding with definitions examples theory algorithms and complexity analysis Synthesizes three decades of researchers work on constraint processing in AI databases and programming languages operations research management science and applied mathematics **Constraint Processing** Manfred Meyer,1995-06-20 This volume contains 15 thoroughly 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 **The Serial and Integrative Processing of Semantic Constraints** Paul C. Amrhein,1982 *IEEE Pacific Rim Conference on Communications, Computers and Signal Processing* ,1993 *The Syntax and Processing of Scrambling Constructions in Russian* Irina A. Sekerina,1997 **Principles and Practice of Constraint Programming** ,2000 **Vehicle, Mechatronics and Information Technologies** X.D. Yu,2013-08-30 Selected peer reviewed papers from the 2013 International Conference on Vehicle Mechanical Engineering and Information Technology VMEIT 2013 August 17 18 2013 Zhengzhou Henan China **The ... IEEE International Conference on Fuzzy Systems**

Proceedings ,1998 *Artificial Intelligence V* B. du Boulay,V. Sgurev,1992 Recent results and ongoing research in Artificial Intelligence are described in this book with emphasis on fundamental questions in several key areas machine learning neural networks automated reasoning natural language processing and logic methods in AI There are also more applied papers in the fields of vision architectures for KBS expert systems and intelligent tutoring systems One of the changes since AIMSA 90 has been the increased numbers of papers submitted in the fields of machine learning neural networks and hybrid systems One of the special features of the AIMSA series of conferences is their coverage of work across both Eastern and Western Europe and the former Soviet Union as well as papers from North America AIMSA 92 is no exception and this volume provides a unique multi cultural view of AI **1997 IEEE International Conference on Acoustics, Speech, and Signal Processing: Statistical signal and array processing, applications** ,1997 *The Syntactic and Semantic Processing of English Comparatives* Duane Evan Olawsky,1990 *Constraint Solving Over Multi-valued Logics* Francisco Azevedo,2003 Systems are subject to faults in their components affecting their overall behaviour In a black box system such faults only become apparent in the output when appropriate inputs are given which poses a number of satisfaction and optimization problems regarding both testing and diagnosing This work addresses such problems developing models with multi valued logics that it formalizes and generalizes to multiple faults Such logics extend Boolean logic by encoding dependencies on faults thus allowing the modelling of an arbitrary number of diagnostic theories The effectiveness of constraint solving over finite domains and sets is shown on several problems **Perspectives in Artificial Intelligence** J. A. Campbell,J. Cuena,1989 **A Collection of Technical Papers** ,1983 *ESD/SMI Expert Systems [Conference and Exposition]* ,1988 **Proceedings of the ... IEEE Conference on Evolutionary Computation** ,1997 **Data Warehousing and Knowledge Discovery** ,2005 Knowledge-based Systems in Engineering Clive L. Dym,Raymond E. Levitt,1991 This book integrates the fundamentals of artifical intelligence AI approaches to knowledge representation with engineering examples Its unified treatment makes it an essential tool in this emerging new field Combining an informed approach to AI with engineering problem solving this book is suitable for an introductory course on AI expert systems which is specifically offered to engineers The text provides an in depth appreciation of the AI fundamentals underlying knowledge based systems and covers rule based frame based and object oriented representation with many engineering illustrations Database Systems Handbook Paul J. Fortier,1997 With a unique systematic coverage of next generation databasing this essential handbook gives computing professionals working in distributed systems a one stop source of information and tips on the design operation and use of database management systems for a wide variety of applications

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Constraint Processing Introduction

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