

MARK S. FOX

# **Constraint-Directed Search: A Case Study of Job-Shop Scheduling**

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# Constraintdirected Search A Case Study Of Jobshop Scheduling

**Gert Smolka**



## **Constraintdirected Search A Case Study Of Jobshop Scheduling:**

**Constraint-directed Search** Mark Fox,1987      **Principles and Practice of Constraint Programming - CP97** Gert Smolka,1997-10-15 This book constitutes the refereed proceedings of the Third International Conference on Principles and Practice of Constraint Programming CP 97 held in Linz Austria in October November 1997 The volume presents 37 revised full papers carefully selected from a total of 132 submissions also included are the abstracts of two invited talks and three tutorials The papers address all current aspects of constraint programming Among the topics covered are constraint matching constraint languages set constraints constraint search constraint satisfaction problems scheduling constraint routing temporal constraints constraint graphs local search object oriented constraint programming etc

**Knowledge-Based Systems, Four-Volume Set** Cornelius T. Leondes,2000-07-11 The design of knowledge systems is finding myriad applications from corporate databases to general decision support in areas as diverse as engineering manufacturing and other industrial processes medicine business and economics In engineering for example knowledge bases can be utilized for reliable electric power system operation In medicine they support complex diagnoses while in business they inform the process of strategic planning Programmed securities trading and the defeat of chess champion Kasparov by IBM s Big Blue are two familiar examples of dedicated knowledge bases in combination with an expert system for decision making With volumes covering Implementation Optimization Computer Techniques and Systems and Applications this comprehensive set constitutes a unique reference source for students practitioners and researchers in computer science engineering and the broad range of applications areas for knowledge based systems      ,      **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 *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

**Combinatorial Optimization Problems in Planning and Decision Making** Michael Z. Zgurovsky, Alexander A. Pavlov, 2018-09-24 The book focuses on the next fields of computer science combinatorial optimization scheduling theory decision theory and computer aided production management systems It also offers a quick introduction into the theory of PSC algorithms which are a new class of efficient methods for intractable problems of combinatorial optimization A PSC algorithm is an algorithm which includes sufficient conditions of a feasible solution optimality for which their checking can be implemented only at the stage of a feasible solution construction and this construction is carried out by a polynomial algorithm the first polynomial component of the PSC algorithm an approximation algorithm with polynomial complexity the second polynomial component of the PSC algorithm also for NP hard combinatorial optimization problems an exact subalgorithm if sufficient conditions were found fulfilment of which during the algorithm execution turns it into a polynomial complexity algorithm Practitioners and software developers will find the book useful for implementing advanced methods of production organization in the fields of planning including operative planning and decision making Scientists graduate and master students or system engineers who are interested in problems of combinatorial optimization decision making with poorly formalized overall goals or a multiple regression construction will benefit from this book

Beyond Manufacturing Resource Planning (MRP II) Andreas Drexel, Alf Kimms, 2013-11-11 The logic of Manufacturing Resource Planning MRP II is implemented in most commercial production planning software tools and is commonly accepted by practitioners However these people are not satisfied with production planning and complain about long lead times high work in process and backlogging As many researchers have pointed out the reason for these shortcomings is inherent to the methods that are used The research community is thus eager to find more sophisticated approaches This book is an attempt to compile some state of the art work in the field of production planning research It includes material that somehow dominates the existing MRP II concept 15 articles written by 36 authors from 10 countries cover many aspects related to MRP II All papers went through a single blind refereeing process

before they were selected for being published in this book When we received papers for this issue we discovered that MRP II is a topic about which not only management scientists show interest As the list of authors proves industrial engineers computer scientists and operations researchers from academia as well as practitioners have contributed to this book This we hope makes the book of value for a broad audience We thank all authors who submitted papers And we are in debt to Dr Werner Muller from Springer for his support in this book project

### **An Introduction to Fuzzy Control** Dimitar

Driankov, Hans Hellendoorn, Michael Reinfrank, 2013-03-09 Fuzzy controllers are a class of knowledge based controllers using artificial intelligence techniques with origins in fuzzy logic to compute an appropriate control action These fuzzy knowledge based controllers can be found either as stand alone control elements or as integral parts of distributed control systems including conventional controllers in a wide range of industrial process control systems and consumer products Applications of fuzzy controllers have become a well established practice for Japanese manufacturers of control equipment and systems and are becoming more and more common for their European and American counterparts The main aim of this book is to show that fuzzy control is not totally ad hoc that there exist formal techniques for the analysis of a fuzzy controller and that fuzzy control can be implemented even when no expert knowledge is available Thus the book is mainly oriented toward control engineers and theorists rather than fuzzy and non fuzzy AI people However parts can be read without any knowledge of control theory and may be of interest to AI people The book has six chapters Chapter 1 introduces two major classes of knowledge based systems for closedloop control Chapter 2 introduces relevant parts of fuzzy set theory and fuzzy logic Chapter 3 introduces the principal design parameters of a fuzzy knowledge based controller FKBC and discusses their relevance with respect to its performance Chapter 4 considers an FKBC as a particular type of nonlinear controller Chapter 5 considers tuning and adaptation of FKBCs which are nonlinear and so can be designed to cope with a certain amount of nonlinearity Chapter 6 considers several approaches for stability analysis of FKBCs in the context of classical nonlinear dynamic systems theory

### **Logic Programming in Action** Gerard Comyn, Norbert E. Fuchs, 1992-08-25

Logic programming enjoys a privileged position It is firmly rooted in mathematical logic yet it is also immensely practical as a growing number of users in universities research institutes and industry are realizing Logic programming languages specifically Prolog have turned out to be ideal as prototyping and application development languages This volume presents the proceedings of the Second Logic Programming Summer School LPSS 92 The First Logic Programming Summer School LPSS 90 addressed the theoretical foundations of logic programming This volume focuses on the relationship between theory and practice and on practical applications The introduction to the volume is by R Kowalski one of the pioneers in the field The following papers are organized into sections on constraint logic programming deductive databases and expert systems processing of natural and formal languages software engineering and education

*Genetic Algorithms + Data Structures = Evolution Programs* Zbigniew Michalewicz, 2013-03-09 Genetic algorithms are founded upon the principle of evolution i e

survival of the fittest Hence evolution programming techniques based on genetic algorithms are applicable to many hard optimization problems such as optimization of functions with linear and nonlinear constraints the traveling salesman problem and problems of scheduling partitioning and control The importance of these techniques is still growing since evolution programs are parallel in nature and parallelism is one of the most promising directions in computer science The book is self contained and the only prerequisite is basic undergraduate mathematics This third edition has been substantially revised and extended by three new chapters and by additional appendices containing working material to cover recent developments and a change in the perception of evolutionary computation

*Constraint-directed Search* Mark S. Fox, 1983 This thesis investigates the problem of constraint directed reasoning in the job shop scheduling domain The job shop scheduling problem is defined as selecting a sequence of operations whose execution results in the completion of an order and assigning times i e start and end times and resources to each operation The number of possible schedules grows exponentially with the number of orders alternative production plans substitutable resources and possible times to assign resources and perform operations The acceptability of a particular schedule depends not only on the availability of alternatives but on other knowledge such as organizational goals physical limitations of resources causal restrictions amongst resources and operations availability of resources and preferences amongst alternatives By viewing the scheduling problem from a constraint directed search perspective much of this knowledge can be viewed as constraints on the schedule generation and selection process In this thesis we present a system called ISIS ISIS uses a constraint directed search paradigm to solve the scheduling problem ISIS provides a knowledge representation language SRL for modeling organizations and their constraints hierarchical constraint directed scheduling of orders which includes constraint directed bounding of the solution space context sensitive selection of constraints and weighted interpretation of constraints analytic and generative constraint relaxation and techniques for the diagnosis of poor schedules

Multi-Agent Based Beam Search for Real-Time Production Scheduling and Control Shu Gang Kang, Shiu Hong Choi, 2012-10-10 The Multi Agent Based Beam Search MABBS method systematically integrates four major requirements of manufacturing production representation capability solution quality computation efficiency and implementation difficulty within a unified framework to deal with the many challenges of complex real world production planning and scheduling problems Multi agent Based Beam Search for Real time Production Scheduling and Control introduces this method together with its software implementation and industrial applications This book connects academic research with industrial practice and develops a practical solution to production planning and scheduling problems To simplify implementation a reusable software platform is developed to build the MABBS method into a generic computation engine This engine is integrated with a script language called the Embedded Extensible Application Script Language EXASL to provide a flexible and straightforward approach to representing complex real world problems Adopting an in depth yet engaging and clear approach and avoiding confusing or complicated mathematics and formulas this

book presents simple heuristics and a user friendly software platform for system modelling The supporting industrial case studies provide key information for students lecturers and industry practitioners alike Multi agent Based Beam Search for Real time Production Scheduling and Control offers insights into the complex nature of and a practical total solution to production planning and scheduling and inspires further research and practice in this promising research area

*Computer-Aided Production Management* Asbjorn Rolstadas,2012-12-06 The purpose of this book is to discuss the state of the art and future trends in the field of computerized production management systems It is composed of a number of independent papers each presented in a chapter Some of the widely recognized experts in the field around the world have been asked to contribute I owe each of them my sincere gratitude for their kind cooperation I am also grateful to Peter Falster and Jim Browne for their kind support in helping me to review topics to be covered and to select the authors This book is a result of the professional work done in the International Federation of Information Processing Technical Committee IFIP TC5 Computer Applications in Technology and especially in the Working Group WG5.7 Computer Aided Production Management This group was established in 1978 with the aim of promoting and encouraging the advancement of the field of computer systems for the production management of manufacturing off shore construction electronic and similar and related industries The scope of the work includes but is not limited to the following topics 1 design and implementation of new production planning and control systems taking into account new technology and management philosophy 2 CAPM in a CIM environment including interfaces to CAD and CAM 3 project management and cost engineering 4 knowledge engineering in CAPM 5 CAPM for Flexible Manufacturing Systems FMS and Flexible Assembly Systems FAS 6 methods and concepts in CAPM 7 economic and social implications of CAPM Parallelism and Programming in Classifier Systems Stephanie

Forrest,1991 By Stephanie Forrest *Meta-level Inference Systems* Frank Van Harmelen,1991 **Satisfiability Problem** Dingzhu Du,Jun Gu,Panos M. Pardalos,1997-01-01 The satisfiability SAT problem is central in mathematical logic computing theory and many industrial applications There has been a strong relationship between the theory the algorithms and the applications of the SAT problem This book aims to bring together work by the best theorists algorithmists and practitioners working on the sat problem and on industrial applications as well as to enhance the interaction between the three research groups The book features the applications of theoretical algorithmic results to practical problems and presents practical examples for theoretical algorithmic study Major topics covered in the book include practical and industrial SAT problems and benchmarks significant case studies and applications of the SAT problem and SAT algorithms new algorithms and improved techniques for satisfiability testing specific data structures and implementation details of the SAT algorithms and the theoretical study of the SAT problem and SAT algorithms **Artificial Intelligence Planning Systems** James

Hendler,1992 **Agent Mediated Electronic Commerce** Frank Dignum,Carlos Sierra,2003-06-29 It is now no longer necessary to argue the importance of agent technology Besides numerous conferences and workshops on specific aspects of

agent technology there are also many companies that are exploring its exploitation possibilities In the light of these developments and in order to foster the transfer of agent technology from research labs to business the EU has funded a network of excellence devoted to agent technology This network of excellence called AgentLink <http://www.agentlink.org> aims at bringing together research groups from different countries and industrial developers The ultimate goal is to create synergy among the different projects and groups to improve the competence of European industry and the excellence of academia In order to achieve this goal Agent Link organises educational activities summer schools builds agent related literature repositories and facilitates collaboration between member nodes One of the main activities related to the last point are the regular meetings of Special Interest Groups SIGs At this moment six SIGs are functioning focusing on topics ranging from agent based social simulation to intelligent agents for telecommunications applications and telematics The current book combines two results from the activities of the SIG on Agent Mediated Electronic Commerce This SIG gathers the main research groups and industrial partners interested in the use of agent technology in electronic commerce First and foremost the book contains a roadmap of research and current technological developments in the area of agent mediated electronic commerce

*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 ASI on Constraint Programming held in Parnu Estonia August 13-24 NATO ASIs 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

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