

Constraint-based Scheduling

- A typical scheduling system allocates WorkForce to WorkLoad satisfying real-world Constraints and business Objectives
- Scheduling Engines - the software tools that allow a human scheduler to build an optimal schedule

Constraint Based Scheduling

**National Aeronautics and Space
Administration (NASA)**



Constraint Based Scheduling:

Constraint-Based Scheduling Philippe Baptiste, Claude Le Pape, Wim Nuijten, 2012-12-06 Constraint Programming is a problem solving paradigm that establishes a clear distinction between two pivotal aspects of a problem 1 a precise definition of the constraints that define the problem to be solved and 2 the algorithms and heuristics enabling the selection of decisions to solve the problem It is because of these capabilities that Constraint Programming is increasingly being employed as a problem solving tool to solve scheduling problems Hence the development of Constraint Based Scheduling as a field of study The aim of this book is to provide an overview of the most widely used Constraint Based Scheduling techniques Following the principles of Constraint Programming the book consists of three distinct parts The first chapter introduces the basic principles of Constraint Programming and provides a model of the constraints that are the most often encountered in scheduling problems Chapters 2 3 4 and 5 are focused on the propagation of resource constraints which usually are responsible for the hardness of the scheduling problem Chapters 6 7 and 8 are dedicated to the resolution of several scheduling problems These examples illustrate the use and the practical efficiency of the constraint propagation methods of the previous chapters They also show that besides constraint propagation the exploration of the search space must be carefully designed taking into account specific properties of the considered problem e g dominance relations symmetries possible use of decomposition rules Chapter 9 mentions various extensions of the model and presents promising research directions

Constraint-Based Scheduling National Aeronautics and Space Administration (NASA), 2018-08-16 The GERRY scheduling system developed by NASA Ames with assistance from the Lockheed Space Operations Company and the Lockheed Artificial Intelligence Center uses a method called constraint based iterative repair Using this technique one encodes both hard rules and preference criteria into data structures called constraints GERRY repeatedly attempts to improve schedules by seeking repairs for violated constraints The system provides a general scheduling framework which is being tested on two NASA applications The larger of the two is the Space Shuttle Ground Processing problem which entails the scheduling of all inspection repair and maintenance tasks required to prepare the orbiter for flight The other application involves power allocations for the NASA Ames wind tunnels Here the system will be used to schedule wind tunnel tests with the goal of minimizing power costs In this paper we describe the GERRY system and its applications to the Space Shuttle problem We also speculate as to how the system would be used for manufacturing transportation and military problems

Zweben Monte Ames Research Center NASA TM 107873 FIA 91 27 NAS 1 15 107873 [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

Using a constraint-based scheduling library to solve a specific scheduling problem Claude Le Pape,1994

Constraint-based Scheduling ,1991 *Designing the Framework of a Constraint-based Scheduling Software System for Operations Management* Jing Tan,Thayer School of Engineering,2007 Constraint-Based Scheduling in an Intelligent Logistics Support System: An Artificial Intelligence Approach M. S. Fox,S. F. Smith,CARNEGIE-MELLON UNIV PITTSBURGH PA ROBOTICS INST.,1985 This report summarizes the progress of research performed under AFOSR contract Number F49620 82 K 0017 titled Constraint Based Scheduling in an Intelligent Logistics Support System An Artificial Intelligence Approach During the contract renewal period from March 1984 to March 1985 the continued development of a theory of hierarchical opportunistic constraint directed reasoning for job shop scheduling has been the focus of our research Specifically we have conducted work in the areas or of opportunistic exploitation of constraints and constaint directed diagnosis The former has led us to the use of multiple problem decompositions during schedule generation while the latter has evolved toward development of a more broad based framework for reactive scheduling An experimental software system call ISIS has continued it evolution and additional testing with simulated plant data has been performed The design of a

successor system called PHOENIX has been initiated Author **Constraint-based Local Search** Pascal Van Hentenryck, Laurent Michel, 2005 The ubiquity of combinatorial optimization problems in our society is illustrated by the novel application areas for optimization technology which range from supply chain management to sports tournament scheduling Over the last two decades constraint programming has emerged as a fundamental methodology to solve a variety of combinatorial problems and rich constraint programming languages have been developed for expressing and combining constraints and specifying search procedures at a high level of abstraction Local search approaches to combinatorial optimization are able to isolate optimal or near optimal solutions within reasonable time constraints This book introduces a method for solving combinatorial optimization problems that combines constraint programming and local search using constraints to describe and control local search and a programming language COMET that supports both modeling and search abstractions in the spirit of constraint programming After an overview of local search including neighborhoods heuristics and metaheuristics the book presents the architecture and modeling and search components of constraint based local search and describes how constraint based local search is supported in COMET The book describes a variety of applications arranged by meta heuristics It presents scheduling applications along with the background necessary to understand these challenging problems The book also includes a number of satisfiability problems illustrating the ability of constraint based local search approaches to cope with both satisfiability and optimization problems in a uniform fashion

Principles and Practice of Constraint Programming, 2005 *Improving Constraint-based Scheduling with Look Ahead Techniques* Michelle Lyn Edwards, 1997 **A Genetic Algorithm-based Scheduling System for Dynamic Job Shop Scheduling Problems** Shyh-Chang Lin, 1997 **A Constraint-based Method for Project Scheduling with Time Windows** Amedeo Cesta, Angelo Oddi, Stephen F. Smith, 2000 Abstract This paper presents a heuristic algorithm for solving RCPSP max the resource constrained project scheduling problem with generalized precedence relations The algorithm relies at its core on a constraint satisfaction problem solving CSP search procedure which generates a consistent set of activity start times by incrementally removing resource conflicts from an otherwise temporally feasible solution Key to the effectiveness of the CSP search procedure is its heuristic strategy for conflict selection A conflict sampling method biased toward selection of minimal conflict sets that involve activities with higher capacity requests is introduced and coupled with a non deterministic choice heuristic to guide the base conflict resolution process This CSP search is then embedded within a larger iterative sampling search framework to broaden search space coverage and promote solution optimization The efficacy of the overall heuristic algorithm is demonstrated empirically on a large set of previously studied RCPSP max benchmark problems Using Constraint-based Heuristics to Satisfice Static Software Partitioning and Allocation of Heterogeneous Distributed Systems Elizabeth Marie Sisley, 1999 Scheduling Chung-Yee Lee, Lei Lei, 1997 *Integrating Constraint Programming, Artificial Intelligence, and Operations Research* Torsten Fahle, 2002 **Planning and Scheduling Research**

at NASA Ames Research Center ,1990 *ETFA '96* ,1996 **Constraint-Based Agents** Alexander Nareyek,2001-05-30

Autonomous agents have become a vibrant research and development topic in recent years attracting activity and attention from various areas The basic agent concept incorporates proactive autonomous units with goal directed behaviour and communication capabilities The book focuses on autonomous agents that can act in a goal directed manner under real time constraints and incomplete knowledge being situated in a dynamic environment where resources may be restricted To satisfy such complex requirements the author improves combines and applies results from areas like planning constraint programming and local search The formal framework developed is evaluated by application to the field of computer games which fit the problem context very well since most of them are played in real time and provide a highly interactive environment where environmental situations are changing rapidly Artificial Intelligence in the Petroleum Industry

Bertrand Braunschweig,Ron Day,1995 *Using Constraints to Render Websites* Lars Kotthoff,2008-02 Diploma Thesis from the year 2007 in the subject Computer Science Theory grade 1 0 University of Leipzig language English abstract Constraint programming is an area of Artificial Intelligence which has many applications This thesis applies its techniques to a new kind of problem the rendering of online retailer websites First in depth introductions to constraint programming and the problem of rendering a shop website will be given A prototypical implementation of a constraint problem solver and a system to solve and illustrate the problem will be described The architecture of the prototypical implementation and specific features algorithms and design decisions will be detailed analysed and illustrated An overview of related work both in the fields of constraint programming and website generation will be presented and existing technologies evaluated Features and concepts unique to this thesis like real time constraint satisfaction will be introduced and discussed Finally a comprehensive example will illustrate the problem means of modelling it and possible solutions An outlook to future work and a summary conclude the thesis Constraint Programming ist ein Teilgebiet der k nstlichen Intelligenz mit vielen praktischen Anwendungen Diese Diplomarbeit wendet die Techniken auf eine neue Art von Problem an das Rendern von Webseiten von Internetshops Zuerst wird eine detaillierte Einf hrung zu Constraint Programming und dem Problem die Webseite eines Online Shops zu rendern gegeben werden Eine Beispielimplementierung eines Constraint Problem Solvers und eines Systems um das Problem zu l sen und illustrieren werden beschrieben werden Die Architektur der Beispielimplementierung und spezielle Eigenschaften Algorithmen und Implementierungsentscheidungen werden genau beschrieben analysiert und illustriert werden Ein berblick von hnlichen Arbeiten sowohl im Bereich des Constraint Programming als auch im Bereich des Generierens von We

Adopting the Track of Expression: An Emotional Symphony within **Constraint Based Scheduling**

In a global taken by displays and the ceaseless chatter of immediate communication, the melodic elegance and psychological symphony produced by the prepared term frequently disappear into the backdrop, eclipsed by the constant sound and disruptions that permeate our lives. However, nestled within the pages of **Constraint Based Scheduling** a charming fictional treasure filled with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this charming masterpiece conducts visitors on a psychological trip, well unraveling the hidden songs and profound affect resonating within each carefully constructed phrase. Within the depths with this emotional examination, we will investigate the book is key harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Table of Contents Constraint Based Scheduling

1. Understanding the eBook Constraint Based Scheduling
 - The Rise of Digital Reading Constraint Based Scheduling
 - Advantages of eBooks Over Traditional Books
2. Identifying Constraint Based Scheduling
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Constraint Based Scheduling
 - User-Friendly Interface
4. Exploring eBook Recommendations from Constraint Based Scheduling
 - Personalized Recommendations

- Constraint Based Scheduling User Reviews and Ratings
- Constraint Based Scheduling and Bestseller Lists
- 5. Accessing Constraint Based Scheduling Free and Paid eBooks
 - Constraint Based Scheduling Public Domain eBooks
 - Constraint Based Scheduling eBook Subscription Services
 - Constraint Based Scheduling Budget-Friendly Options
- 6. Navigating Constraint Based Scheduling eBook Formats
 - ePub, PDF, MOBI, and More
 - Constraint Based Scheduling Compatibility with Devices
 - Constraint Based Scheduling Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Constraint Based Scheduling
 - Highlighting and Note-Taking Constraint Based Scheduling
 - Interactive Elements Constraint Based Scheduling
- 8. Staying Engaged with Constraint Based Scheduling
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Constraint Based Scheduling
- 9. Balancing eBooks and Physical Books Constraint Based Scheduling
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Constraint Based Scheduling
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Constraint Based Scheduling
 - Setting Reading Goals Constraint Based Scheduling
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Constraint Based Scheduling
 - Fact-Checking eBook Content of Constraint Based Scheduling

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web jul 29 2023 1 welcome the audience using serious language for a formal occasion pick an appropriate greeting such as good evening ladies and gentlemen then welcome the audience to the event using a phrase such as it is my pleasure to welcome everyone to our beautiful venue tonight 1 keep the tone more serious if it s an important occasion

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web apr 4 2023 thank you short welcome speech for school exhibition 150 words in english good afternoon to everyone present here i warmly welcome all of you on behalf of our school abc public school delhi in the event of its first science exhibition it is our pleasure to have everyone in our inaugural exhibition

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web here you would find both short welcome speeches for school exhibitions as well as long welcome speeches for school exhibitions you can use following school exhibition welcome speech depending upon your requirement and prepare your own good speech for the right occasion and impress your audience

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web nov 10 2023 good morning everyone i am very happy to see everyone blooming in the spirit of the sports day it is an absolute honor to introduce to you all the chief guests guests mention their names today we feel privileged to host you today i would like to thank you for accepting our invitation and gracing us with your presence

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web aug 2 2021 welcome speech a welcome speech is a short expression of words which is delivered at the starting of any event meeting gathering celebration or program it is a statement which includes greeting to all the audience special guests participants delegates or whoever is present for the occasion

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web read welcome speech for event in 3 minutes here it is my pleasure to present a welcome speech for the event of the annual sports day i believe that everyone present here is doing good and are super excited about today s sports day

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web mar 10 2023 10 give a brief overview of the schedule short speech on welcome speech a very warm morning to everyone who are present here and who are going to make this program a grand success it s my immense pleasure to

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web in the case of a welcoming ceremony the welcome speech is considered to be one of the most important parts of the whole gathering in fact it is the most crucial aspect of the entire event this is because the welcome speech serves several purposes first it introduces the guests to the host

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web welcome speech for an event a welcome speech is a great way to set the tone for an event it sets the tone for the event and can make attendees feel more comfortable and welcome additionally a well crafted welcome speech can help to promote the event to those who may not be familiar with it

welcome speech for award ceremony for students and a - Dec 05 2022

web apr 4 2023 these speeches will be useful for the students of schools and colleges teachers and the hosts who deliver a welcome speech for award ceremony in their educational institutes a long welcome speech for award ceremony is helpful to students of classes 7 8 9 10 11 and 12