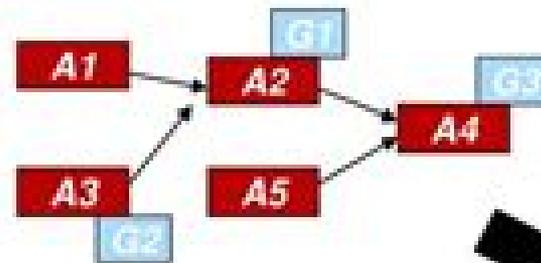# Integrated Planning and Scheduling (as typically formulated)
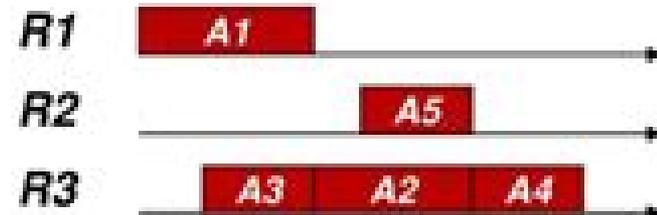
Goals

Sequence goals and construct goal achieving action sequences

Plan

Allocate resources (maybe) and Assign times

Schedule

Constraint Based Scheduling

Jianping Song

Constraint Based Scheduling:

    <u>Constraint-Based Scheduling</u> 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   <u>Constraint-Based Scheduling</u> 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 Syestem 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 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   **A Genetic Algorithm-based Scheduling System for Dynamic Job Shop Scheduling Problems** Shyh-Chang Lin,1997   **Using Constraint-based Heuristics to Satisfice Static Software Partitioning and Allocation of Heterogeneous Distributed Systems** Elizabeth Marie Sisley,1999   **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 **Scheduling** Chung-Yee Lee,Lei Lei,1997 *Planning and Scheduling Research at NASA Ames Research Center* ,1990 Constraint-based Real-time Scheduling for Process Control Jianping Song,2010 This research addresses real time task scheduling in industrial process control It includes a constraint based scheduler which is based on MSP RTL a tool for real time multiprocessor scheduling problems with a wide variety of timing constraints This dissertation extends previous work in two broad directions improving the tool itself and broadening the application domain of the tool to include wired and wireless industrial process control For the tool itself we propose enhancements to MSP RTL in three steps In the first step we modify the data structure for representing the temporal constraint graph and cutting the memory usage in half In the second step we model the search problem as a constraint satisfaction problem CSP and utilize backmarking and conflict directed backjumping to speed up the search process In the third step we perform the search from the perspective of constraint satisfaction programming As a result we are able to use existing CSP techniques efficiently such as look ahead backjumping and consistency checking Compared to the various ad hoc heuristics used in the original version the new approach is more systematic and powerful To exercise the new MSP RTL tool we acquired an updated version of the Boeing 777 Integrated Airplane Information Management System AIMS This new benchmark problem is more complicated than the old one used in the original tool in that data communications are described in messages and a message can have multiple senders and receivers The new MSP RTL tool successfully solved the new benchmark problem whereas the old tool would not be able to do so In order to apply real time scheduling in industrial process control we carry out our research in two directions First we apply the improved tool to traditional wired process control The tool has been successfully applied to solve the block assignment problem in Fieldbus networks where each block comprising the control system is assigned to a specific device such that certain metrics of the system can be optimized Wireless industrial control has received a lot of attention recently We experimented with the tool to schedule communications on a simulated wireless industrial network In order to integrate the scheduler in real wireless process control systems we are building an experimental platform based on the WirelessHART standard WirelessHART as the first open wireless standard for process control defines a time synchronized MAC layer which is ideal for real time process control We have successfully implemented a prototype WirelessHART stack on Freescale JM128 toolkits and built some demo

applications on top of it Even with the scheduler tool to regulate communications in a wireless process control it may still be possible that communications cannot be established on an inferior wireless link within an expected period In order to handle this type of failures we propose to make the control modules aware of the unreliability of wireless links that is to make the control modules adapt to the varying link qualities PID Proportional Integral Derivative modules are the most used control modules We developed PIDPlus an enhanced PID algorithm to cope with possible lost inputs and outputs It has been shown that PIDPlus can drastically improve the stability of the control loop in cases of unreliable wireless communications   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   **IJCAI** ,1995   **NASA Conference Publication** ,1991

Constraint Based Scheduling Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Constraint Based Scheduling**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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