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Maintenance Planning, Scheduling, and Coordination Scheduling and Coordination of Distributed Design Projects Coordination in Planning and Scheduling Scheduling and Coordination of Multiple Dynamic Systems Maintenance Planning, Coordination and Scheduling Too Many Meetings? Scheduling for Service Stability and Supply Chain Coordination Coordination of Distributed Schedules in a Heterogeneous Environment IBM On-site/off-shore Scheduling and Coordination Improvement Supply Chain Scheduling and Coordination Problems Supply Chain Scheduling Supply Chain Coordination and Scheduling Computer-aided Scheduling and Dispatching System Scheduling and Motion Coordination of Autonomous Vehicles Optimization in Project Coordination Scheduling Through Application of Taguchi Methods Coordination of Multiple Agents in Distributed Manufacturing Scheduling In Vivo Research Scheduling and Coordination in the Pharmaceutical Industry Scheduling Models in Health Care Focusing on Care Coordination and Teamwork New Results on the Coordination of Transportation and Batching Scheduling Construction Project Scheduling and Coordination Through Control of Short-term and Long-term Financing Scheduling in Green Supply Chain Management Optimization Approaches for Supply Network Coordination and Design Project Scheduling Airline Partnerships and Schedule Coordination Special Issue of Scheduling & Logistics on Planning and Coordination in Supply Chains with Outsourcing Special Issue of Scheduling & Logistics on Supply Chain Integration and Coordination Coordination and Decomposition of Large-Scale Planning and Scheduling Problems with Application to Steel Production Coordination Module for Integration of Scheduling System with Batch Process Control Special Issue of Scheduling Logistics Scheduling Logistics on Planning and Coordination in Supply Chains with Outsourcing The Antenna Case Study On the Computational Complexity of a Scheduling Problem Related to Motion Coordination of Multiple Robots Multi-agent Learning for Adaptive Scheduling Lightweight Scheduling and Information Delivery in Wireless Networks Bus Scheduling with Trip Coordination and Complex Constraints Coordination of Reactive Power Scheduling in a Multi-area Power System Operated by Independent Utilities Guideline to Good Practices for Planning, Scheduling, and Coordination of Maintenance at DOE Nuclear Facilities Supply Network Optimization Energy-aware Coordination of Machine Scheduling and Support Device Recharging in Production Systems Behavioral Operations in Planning and Scheduling Cost-saving Properties of Schedule Coordination in a Simple Trunk-and-feeder Transit System The Impact of Enhanced Coordination and Scheduling of Production and Distribution in the Light of Various Levels of Collaboration Within Retail Supply Chains of SME Manufacturers

Maintenance Planning, Scheduling, and Coordination 2001 well planned properly scheduled and effectively communicated jobs accomplish more work more efficiently and at a lower cost this work will disturb operations less frequently and be accomplished with higher quality greater job satisfaction and higher organizational morale than jobs performed without proper preparation maintenance planning scheduling coordination focuses on and deals specifically with the preparatory tasks that lead to effective utilization and application of maintenance resources it is a vital training document for planners an educational document for those to whom planners are responsible and a valuable guide for those who interface with the planning and scheduling function and are dependent upon the many contributions of planning and scheduling operational excellence

Scheduling and Coordination of Distributed Design Projects 1999 meeting the load on a large scale power system network involves the scheduling and control of multiple generating units with the primary goal of minimizing the total cost of generation many constraints and factors must be taken into account and problems of scheduling involve times scales from several years for future construction planning to a year for maintenance scheduling to daily or weekly scheduling of the units which are available for meeting the current demand a totally integrated scheduling methodology taking into account all such factors involves computational requirements far beyond the practical limitations of computing technology consequently each aspect of the problem has been previously investigated with the relationship to the other time scales being only heuristically and intuitively involved author

Coordination in Planning and Scheduling 2011 this book thus deals specifically with preparatory tasks that lead to effective utilization and application of maintenance resources in order to achieve the level of reliability essential to an organization s business objectives it comprehensively examines the job preparation process from job scoping and planning to determination of material requirements estimation of labor requirements and job duration coordination of all involved parties and job scheduling related metrics are included

Scheduling and Coordination of Multiple Dynamic Systems 1979 this dissertation studies scheduling for service stability and for supply chain coordination as well the scheduling problems for service stability are studied from the single perspective of a firm itself while the scheduling problems for supply chain coordination are investigated from the perspective of a supply chain both the studies have broad applications in real life in the first study several job scheduling problems are addressed with the measure of performance being job completion time variance ctv ctv minimization is used to represent service stability since it means that jobs are completed in a relative concentrated period of time ctv minimization also conforms to the just in time philosophy two scheduling problems are studied on multiple identical parallel machines the one problem does not restrict the idle times of machines before their job processing while the other does for these two scheduling problems desirable properties are explored and heuristic algorithms are proposed computational results show the excellent performances of the proposed algorithms the third scheduling problem in the first study is considered on a single machine and from the users perspective rather than the system s perspective the performance measure is thus class based completion time variance cb ctv this problem is shown to be able to be transformed into multiple ctv problems therefore the well developed desirable properties of the ctv problem can be applied to solve the cb ctv problem the tradeoff between the cb ctv problem and the ctv problem is also investigated the second study deals with scheduling coordination in a supply chain since supply chain coordination is increasingly critical in recent years usually different standpoints prevent decision makers in a supply chain from having agreement on a certain scheduling decision therefore conflicts arise in pursuit of excellent performance of the whole supply chain coordination among decision makers is needed in this study the scheduling conflicts are measured and analyzed from different perspectives of decision makers and cooperation mechanisms are proposed based on different scenarios of the relative bargaining power among decision makers the cooperation savings are examined as well

Maintenance Planning, Coordination and Scheduling 2010 construction projects involve a large number of participants with often overlapping activities schedules play a key role in coordination of these activities a general contractor or a construction manager is usually responsible for coordination and has a master schedule that covers the scope of the entire project the individual participants have different project management objectives and build schedules for their scope of work using different breakdown structures different levels of detail different scheduling software and different naming conventions existing scheduling techniques and software provide a robust set of constructs to generate these individual schedules however coordination of these schedules is a manual iterative task not adequately supported by existing theories and software tools the primary aim of this research was to provide a framework to enable analysis across distributed heterogeneous schedules the framework presented in this dissertation schedule mappings provides a set of constructs to dynamically link individual participant schedules to the master schedule the schedule mappings approach uses the linked schedules to facilitate schedule coordination by rapid identification of scheduling conflicts this identification enables rapid initial coordination of schedules and supports assessment of scheduling alternatives in response to a schedule change a software tool was developed using microsoft visual basic trademark programming language as a shared addin for microsoft project trademark this dissertation contributes to state of the art of scheduling by providing a framework for reasoning across multiple schedules from an industry perspective this research makes a contribution by formalizing identification of scheduling conflicts the formalisms and the tool should help industry professionals in rapid assessment of scheduling alternatives the tool enabled the use of the schedule mappings approach by industry professionals and was used for validation the approach was validated in a two step process and was shown to be beneficial

Too Many Meetings? 2021 supply chain scheduling is a relatively new research area with less than 20 years of history it is an intersection of two traditional areas supply chain management and scheduling in this book the authors provide a comprehensive coverage of supply chain scheduling the book covers applications solution algorithms for solving related problems evaluation of supply chain conflicts and models for encouraging cooperation between decision makers supply chain scheduling studies detailed scheduling issues within supply chains as motivated by a variety of applications in the real world topics covered by the book include coordinated decision making in centralized supply chains including integrated production and distribution scheduling joint scheduling and

product pricing and coordinated subcontracting and scheduling coordination and competition issues in decentralized supply chains including conflict and cooperation within scheduling decisions made by different parties in supply chains and both cooperative and non cooperative supply chain scheduling games the book describes a variety of representative problems within each of these topics the authors define these problems mathematically describe corresponding applications and introduce solution methods for solving each problem to improve supply chain performance

Scheduling for Service Stability and Supply Chain Coordination 2009 using the implementation of a computed aided scheduling and dispatching casd system in peoria as a case study the study documents the insights gained from the evaluation effort and provides recommendations regarding the statewide deployment of such systems with respect to productivity vehicle assignment limitations must be eliminated to allow the casd system to optimize vehicle use with respect to management a decision makers must require well defined and pre formatted training delivery schedules to be included in implementation and b as casd systems are implemented state wide a user group of managers should meet periodically to exchange information explain innovations and discuss issues arising as the systems are used in paratransit operations with respect to training a each step of the preferred scheduling and dispatch process must be mapped and linked to the new casd b a pre defined and formal training period must precede installation and live implementation of casd c training and reference manuals must be distributed and prominently placed at each computer terminal and d managerial training in developing and interpreting report data is the most often cited failure of casd at the manager s level vendor training for this extraordinarily important task should become part of any implementation effort with respect to automatic vehicle location avl and mobile data terminals mdt systems concurrent implementation of avl mdt overcomes the problem of run posting in that no new personnel need be hired manifest entries are out of the control of the driver and no interpretation or data entry mistakes will be entered into the system all providing more accuracy and timeliness with respect to casd technology in the long term a contract administrators must implement fixes to ensure appropriate training is received by site managers to ensure management can access and understand casd data b contract managers must ensure that project management support is provided to augment already busy paratransit managers and c the best evaluation of casd will follow from implementation of avl and mdt systems with respect to quality of service allowing unrestricted use of vehicles will impact passenger perceptions of on time rates more favorably with respect to cost effectiveness contract managers must enforce vendor accountability for training report construction support and software documentation to ensure the potential casd cost effectiveness changes

Coordination of Distributed Schedules in a Heterogeneous Environment 2008 this study focuses on developing an approach to solve the complex problem of task allocation and motion coordination simultaneously for a large fleet of autonomous vehicles in highly constrained operational environments a simultaneous task allocation and motion coordination approach is developed to solve the problem in a concurrent manner furthermore a novel algorithm simultaneous path and motion planning is proposed for collision free motion coordination based on dijkstra and a algorithms the appropriateness of heuristic and evolutionary algorithms to solve the problem is investigated a distributed computational architecture is also developed to improve the efficiency of implementation of the approach the proposed approach is tested with static and dynamic environments and validated by using data from an automated container terminal with fleet of autonomous straddle carriers

IBM On-site/off-shore Scheduling and Coordination Improvement 2010 in an effort to determine ways to decrease projected project completion dates as well as to reduce project cost overruns a predictive schedule was developed using taguchi methods that would compare interaction of resources in pert cpm plans using the values of all the factors in the resource schedule taguchi methods are a subset of statistical design of experiments doe which use statistics to improve performance of scheduling resources and provide consistent product outcomes the result is that activities causing delays can be identified and possibly adjusted before the delays become too significant and the cost overruns become too overwhelming details of the taguchi methods are outlined and several practical examples are provided

Supply Chain Scheduling and Coordination Problems 2000 abstract distributed problem solving dps is concerned with a group of agents each with only local views that cooperate and coordinate to solve a given problem in a coherent and efficient manner as networked computer systems and practical concurrent processing architectures develop dps research has seen increasing realization in real world problems as opposed to using sophisticated agents in problem solving dps approaches based on simple reactive agents have received growing interest these reactive agents are simple in the sense that they do not have representations of their environments and they act by stimulus and response they are embedded in the environment and follow simple patterns of behavior that can be easily programmed generating sophisticated group behavior from coordination and integration of activities of simple individuals has potentially great significance this thesis presents dps approaches based on reactive agents and applied to scheduling in the domain of manufacturing job shops in general scheduling deals with organizing possibly related activities over time and limited resources scheduling problems occur in many domains such as manufacturing transportation computer processing communication services health care education etc distributed scheduling typically is concerned with coordination among resources over processing of related activities in environments where knowledge and control distribution are desired the objective of this work is the problem solving efficacy of reactive agents in terms of computational cost and solution quality our thesis is that multi agent coordination techniques can provide substantial gains in terms of problem solving efficiency and solution quality the main contributions of this research are the coordination schemes and the dps techniques implemented in the two effective multiagent scheduling systems cora and cofcast in addition cora and cofcast are shown to provide equivalent or superior performance to competing centralized scheduling techniques and therefore enrich viable approaches to scheduling problems in a broader view this work supplements dps research with innovative approaches to tightly coupled problems and successful demonstration of competitive performance this work also provides an essential component for larger scaled dps research in manufacturing management and control

Supply Chain Scheduling 2022-02-07 cont a multi criteria objective function uses the researcher s preference to

optimize both room assignments and procedure start time a tabu search meta heuristic has been developed to generate a near optimal solution the solution approach uses four neighborhood move strategies based on insert and interval exchange algorithms to optimize procedural room assignments although a functioning model was not developed a recommended implementation plan is discussed

Supply Chain Coordination and Scheduling 2008 since the early 1960s scheduling problems in health care have been a focus for industrial engineers and operations researchers utilizing a wide range of solution techniques and types of problems a general area of increasing importance in health care concerns co scheduling or coordinating the scheduling of teams of care providers such as for complex procedures team based primary care or integrating specialty and primary care these new models of care present unique and challenging scheduling needs that lend themselves well to mathematical programming solution approaches this dissertation applies optimization to three specific care coordination problems focused on team collaboration and care continuity in primary specialty and inpatient settings 1 multidisciplinary team scheduling for co availability 2 resident scheduling for continuity of primary care and 3 integrated scheduling of specialty and primary care using telehealth the first area of focus is a co availability scheduling problem that arises in various healthcare settings in which personnel from different disciplines are required to work together as care teams to perform specific tasks this problem is characterized by the asynchrony in availability of these personnel which we optimize to facilitate teamwork and improve timeliness of care by reducing unnecessary delays integer and constraint programming techniques are developed to maximize scheduling rescheduling flexibility while satisfying coverage time resource and preference constraints applications to breast cancer treatment in two different health systems illustrate the potential improvement on team quality and procedure timeliness the second problem focuses on optimizing individual scheduling templates of multiple primary care teams in order to increase patient team continuity and access typically including the complexity of resident scheduling this new care model focuses on a small care team instead of a single provider as a consistent source of care for primary care patients an integer programming model is developed to maximize team coverage by assigning clinicians to their tasks in accordance with various educational and clinical requirements in a way that improves continuity of care application of the developed model to a family medicine residency clinic has significantly improved continuity and access leading to its integration into daily practice finally the third area of focus is the integrated scheduling of primary care with remote specialist availability by utilizing telehealth resources under this approach patients referred to a specialty service receive a consult with a specialist immediately after their primary care visit via medical videoconferencing technology to optimize specialist scheduling an integer programming model is developed to maximize the proportion of immediate videoconference consultations that can be satisfied by available resources off line application to the veteran health administration data suggests significant improvements are possible in timeliness and reduction in system wide resource waste together these three models address the scheduling challenges that healthcare practice in various levels has been facing in terms of care coordination a deterministic perspective is utilized to optimize personnel schedules for enabling improvements in daily processes results of the models show that teamwork and care continuity can be supported by mathematical programming for enhanced care quality and efficient day to day operations

Computer-aided Scheduling and Dispatching System 2000 this book presents scheduling with a medium and short term focus which makes it possible to capitalize on fleeting market opportunities while simultaneously working to reconcile economic and environmental priorities it introduces a new mixed integer approach to hierarchical discrete time and continuous time scheduling combining aspects of production and recycling forward and reverse logistics as well as emissions trading for multi stage supply chain networks problem specific variants of relax and fix heuristics and genetic algorithms are also proposed given its scope the book provides a range of practical tools and new perspectives for researchers and professionals in the field of supply chain management

Scheduling and Motion Coordination of Autonomous Vehicles 2014-03 scheduling coordination is said to be both a reason for and a consequence of airline consolidation this paper offers a first attempt to formally model this dimension of airline partnerships in a simple setup of complementary alliance with schedule delay affecting the passengers utility we compare partnership where carriers are only allowed to coordinate scheduling to the one where airlines can jointly set both prices and schedules we show that the former yields higher fares but better schedule coordination in terms of shorter intervals between connecting flights than the latter if partner airlines do not take schedules as given when setting the fares if a sequential scheduling then price setup is considered however coordination of both fares and schedules yields both lower fares and better scheduling coordination further sequential scheduling then price results in even lower consumer welfare than the no coordination scenario thus we suggest an example of a complementary airline alliance hurting interline passengers by offering them a better quality service at too high a price

Optimization in Project Coordination Scheduling Through Application of Taguchi Methods 1992 coordinating the manufacture of a small batch irregularly scheduled airplane part is a difficult task the addition of subcontractors and aging parts makes this activity even more difficult this case focuses on the problem of scheduling and coordinating the production of the irregular timeline of an airplane antenna xyz aerospace manufactures an antenna for an aircraft and needs to respond to intermittent orders and strict deadlines this case illustrates the coordination between a contractor xyz aerospace and its subcontractor abc corporation for manufacturing scheduling issues that arise in scheduling when parts fail to meet testing requirements and aging parts that expire before being able to be used for the manufacturing activity in depth group discussion and coordination are the tools used to solve this case the case may be used in supply chain management undergraduate and graduate courses as a learning tool for supply chain manufacturing and supplier and customer relationship management

Coordination of Multiple Agents in Distributed Manufacturing Scheduling 1996 focuses on the design of multi agent coordination strategies a coordination scheme that utilizes multi agent distributed learning with coordination is tested against an existing framework of multi agent learning without coordination in a production scheduling environment the coordination strategies are tested for two different managerial objectives flow time minimization and tardiness minimization

In Vivo Research Scheduling and Coordination in the Pharmaceutical Industry 2008 as inherently distributed computational systems wireless sensor networks rely critically on coordination between nodes to effectively sense interpret and deliver environmental data wireless nodes face significant battery and computational limitations so a strategy of lightweight and low communication task coordination is critical to maintaining the longevity and efficient operation of the network the challenge is to solve network wide coordination problems such as scheduling routing and aggregation using simple local operations such as gossiping local broadcasting and neighborhood leader election while each node performs a simple local task these actions can be carefully aggregated to achieve the desired global solution in this thesis we study two key decentralized coordination problems scheduling and information delivery in scheduling where coordination among nodes occurs at the neighborhood level the problem is for nodes to select timeslots for their actions that do not interfere with those chosen by other nodes in the neighborhood we employ simple randomized and rapidly converging iterative algorithms that seek to stagger node behavior while relying as little as possible on potentially expensive inter node communication in information delivery the problem is to build and maintain a delivery infrastructure that enables information dissemination from sources to sinks in the network here we think of the coordination as occurring over longer distances in the network enabling the required infrastructure to be built in an efficient decentralized fashion we employ information delivery backbones like connected dominating sets and hierarchical trees and show how they can be quickly and easily built and maintained even when users are mobile and link dynamics affect the network topology

Scheduling Models in Health Care Focusing on Care Coordination and Teamwork 2015 this paper describes recent improvement updates to these heuristics research in improving the vampires algorithm through object oriented modelling is also outlined

New Results on the Coordination of Transportation and Batching Scheduling 2014 this thesis addresses the problem of reactive power scheduling in a power system with several areas controlled by independent transmission system operators tsos to design a fair method for optimizing the control settings in the interconnected multi tso system two types of schemes are developed first a centralized multi tso optimization scheme is introduced and it is shown that this scheme has some properties of fairness in the economic sense second the problem is addressed through a decentralized optimization scheme with no information exchange between the tsos in this framework each tso assumes an external network equivalent in place of its neighboring tsos and optimizes the objective function corresponding to its own control area regardless of the impact that its choice may have on the other tsos the thesis presents simulation results obtained with the ieee 39 bus system and ieee 118 bus systems partitioned between three tsos it also presents some results for a ucte like 4141 bus system with seven tsos the decentralized control scheme is applied to both time invariant and time varying power systems nearly optimal performance is obtained in those contexts

Construction Project Scheduling and Coordination Through Control of Short-term and Long-term Financing 1988 human and organizational factors have a substantial impact on the performance of planning and scheduling processes despite widespread and advanced decision support systems human decision makers are still crucial to improve the operational performance in manufacturing industries in this text the state of the art in this area is discussed by experts from a wide variety of engineering and social science disciplines moreover recent results from collaborative studies and a number of field cases are presented the text is targeted at researchers and graduate students but is also particularly useful for managers consultants and system developers to better understand how human performance can be advanced

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