

The Logic Of Logistics Theory Algorithms And Applications For Logistics Management Springer Series In Operations Research And Financial Engineering

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Nested Partitions Method, Theory and Applications -

Leyuan Shi 2008-10-30

The subject of this book is the nested partitions

method (NP), a relatively new optimization method that has been found to be very effective solving discrete optimization problems. Such discrete problems are common in many practical applications and the NP method is thus useful in diverse application areas. It can be applied to both operational and planning problems and has been demonstrated to effectively solve complex problems in both manufacturing and service industries. To illustrate its broad applicability and effectiveness, in this book we will show how the NP method has been successful in solving complex problems in planning and scheduling, logistics and transportation, supply chain design, data mining, and health

care. All of these diverse applications have one characteristic in common: they all lead to complex large-scale discrete optimization problems that are intractable using traditional optimization methods. 1.1 Large-Scale Optimization In developing the NP method we will consider optimization problems that can be stated mathematically in the following generic form: $\min_{x \in X} f(x)$, (1.1) where the solution space or feasible region X is either a discrete or bounded set of feasible solutions. We denote a solution to this problem x and the objective function value $f = f(x)$.

Green Logistics and Transportation -

Behnam Fahimnia 2015-05-11

This book identifies and furthers the state of the art in green logistics and transportation with a supply chain focus. It includes discussions on concerns and

linkages across policy, corporate strategy and operations and inter-organizational relationships and practices. Separate sections are assigned to discuss issues related to greening of logistics and transportation functions, including green logistics network, green land transportation and green air and water transportation. Linking research with practice is another important feature of the book as various techniques and research methodologies are utilized to explain and analyze green logistics and transportation concepts and issues. The authors come from throughout the world from a variety of backgrounds (e.g. policy, technical, engineering, and management backgrounds) to provide solutions and insights from their regional and global perspectives to some of the world's most critical green logistics and transportation issues.

Sustainable Transportation and Smart Logistics - Javier Faulin
2018-11-13

Sustainable Transportation and Smart Logistics: Decision-Making Models and Solutions provides deterministic and probabilistic models for transportation logistics problem-solving and decision-making. The book presents an overview of the intersections between sustainability, transportation, and logistics, and delves into the current problems associated with the implementation of sustainable transportation and smart logistics in urban settings. It also offers models for addressing complex structural problems and procedures for estimating transportation externalities such as environmental and social impacts, both in industrial and government arenas, as well as decision-making models from operational, tactical, and strategic management perspectives. Sustainable Transportation and Smart Logistics also covers best practices for practical corporate policy implementation, making it a comprehensive and vital

resource for researchers, graduate students, practitioners, and policy makers in transportation, logistics, urban planning, economics, engineering, and environmental science.

Examines various modes of transportation Includes mathematical models for decision-making in a wide variety of situations Presents public transportation and smart cities use cases

Crisis Management: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2013-11-30

"This book explores the latest empirical research and best real-world practices for preventing, weathering, and recovering from disasters such as earthquakes or tsunamis to nuclear disasters and cyber terrorism"--Provided by publisher.

Handbook of Humanitarian Health Care Logistics - George Mc Guire 2015-10-31

The Oxford Handbook of

Pricing Management - Özalp Özer 2012-06-07

A definitive reference to the theory and practice of pricing across industries, environments, and methodologies. It covers all major areas of pricing including, pricing fundamentals, pricing tactics, and pricing management.

Sustainable Radio Frequency Identification Solutions - Cristina Turcu 2010-02-01

Radio frequency identification (RFID) is a fascinating, fast developing and multidisciplinary domain with emerging technologies and applications. It is characterized by a variety of research topics, analytical methods, models, protocols, design principles and processing software. With a relatively large range of applications, RFID enjoys extensive investor confidence and is poised for growth. A number of RFID applications proposed or already used in technical and scientific fields are described in this book.

Sustainable Radio Frequency

Identification Solutions comprises 19 chapters written by RFID experts from all over the world. In investigating RFID solutions experts reveal some of the real-life issues and challenges in implementing RFID.

Dynamics in Logistics - Michael Freitag 2020-04-15

Since 2007, the biennial International Conferences on Dynamics in Logistics (LDIC) offers researchers and practitioners from logistics, operations research, production, industrial and electrical engineering as well as from computer science an opportunity to meet and to discuss the latest developments in this particular research domain. From February 12th to 14th 2020 for the seventh time, LDIC 2020 is held in Bremen, Germany. Similar to its six predecessors, the Bremen Research Cluster for Dynamics in Logistics (LogDynamics) organizes this conference. The spectrum of topics reaches from the dynamic modeling, planning and control of processes over supply chain

management and maritime logistics to innovative technologies and robotic applications for cyber-physical production and logistics systems. LDIC 2020 provides a forum for the discussion of advances in that matter. The conference program consists of three invited keynote speeches and 51 papers selected by a severe double-blind reviewing process. Within these proceedings all the papers are published. By this, the proceedings give an interdisciplinary outline on the state of the art of dynamics in logistics as well as identify challenges and solutions for logistics today and tomorrow.

Computational Logistics - Ana Paias 2016-08-15

This book constitutes the refereed proceedings of the 7th International Conference on Computational Logistics, ICCL 2016, held in Lisbon, Portugal, in September 2016. The 29 papers presented in this volume were carefully reviewed and selected for inclusion in the book. They are organized in topical sections

entitled: container terminals and maritime transportation; intermodal transport; location and routing; (general) logistics and supply chain management.

Encyclopedia of

Optimization - Christodoulos A. Floudas 2008-09-04

The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research, the richness of ideas, and the breadth of applications that has come from this field. The second edition builds on the success of the former edition with more than 150 completely new entries, designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced. Particularly heavy attention resulted in health science and transportation, with entries such as "Algorithms for Genomics", "Optimization and Radiotherapy Treatment Design", and "Crew Scheduling".

New Trends in Distribution Logistics - M. Grazia Speranza

2012-12-06

The globalization of markets has reinforced the interest in logistics. A constantly raising level of competition among companies stresses the need for improved logistic processes, in terms of cost reduction and increased service level. The book covers the main problems of distribution logistics: network design and location problems, tactical and operational planning of transport, internal logistics, and inventory management. The book contains a rigorous methodological approach with an emphasis on practical problems. Two survey papers provide references and open problems.

Production Planning by Mixed Integer Programming - Yves Pochet 2006-09-23

This textbook provides a comprehensive modeling, reformulation and optimization approach for solving production planning and supply chain planning problems, covering topics from a basic introduction to planning

systems, mixed integer programming (MIP) models and algorithms through the advanced description of mathematical results in polyhedral combinatorics required to solve these problems. Based on twenty years worth of research in which the authors have played a significant role, the book addresses real life industrial production planning problems (involving complex production structures with multiple production stages) using MIP modeling and reformulation approach. The book provides an introduction to MIP modeling and to planning systems, a unique collection of reformulation results, and an easy to use problem-solving library. This approach is demonstrated through a series of real life case studies, exercises and detailed illustrations. Review by Jakub Marecek (Computer Journal) The emphasis put on mixed integer rounding and mixing sets, heuristics in-built in general purpose integer programming solvers, as well

as on decompositions and heuristics using integer programming should be praised... There is no doubt that this volume offers the present best introduction to integer programming formulations of lotsizing problems, encountered in production planning. (2007) *Extreme Value Theory* - Laurens de Haan 2007-12-09 Focuses on theoretical results along with applications All the main topics covering the heart of the subject are introduced to the reader in a systematic fashion Concentration is on the probabilistic and statistical aspects of extreme values Excellent introduction to extreme value theory at the graduate level, requiring only some mathematical maturity **Analysis and Algorithms for Service Parts Supply Chains** - John A. Muckstadt 2006-12-26 * Provides a broad overview of modeling approaches and solution methodologies for addressing inventory problems, particularly the management of high cost, low demand rate service parts found in multi-

echelon settings * The text may be used in a variety of courses for first-year graduate students or senior undergraduates, or as a reference for researchers and practitioners * A background in stochastic processes and optimization is assumed

Dynamics in Logistics - Herbert Kotzab 2015-12-21

This contributed volume brings together research papers presented at the 4th International Conference on Dynamics in Logistics, held in Bremen, Germany in February 2014. The conference focused on the identification, analysis and description of the dynamics of logistics processes and networks. Topics covered range from the modeling and planning of processes, to innovative methods like autonomous control and knowledge management, to the latest technologies provided by radio frequency identification, mobile communication, and networking. The growing dynamic poses wholly new challenges: logistics processes and networks must be (come) able to rapidly and flexibly

adapt to constantly changing conditions. The book primarily addresses the needs of researchers and practitioners from the field of logistics, but will also be beneficial for graduate students.

Linear and Integer Programming vs Linear Integration and Counting -

Jean-Bernard Lasserre 2009-04-21

This book analyzes and compares four closely related problems, namely linear programming, integer programming, linear integration, and linear summation (or counting). The book provides some new insights on duality concepts for integer programs.

Heavy-Tail Phenomena - Sidney I. Resnick 2007-12-03

This comprehensive text gives an interesting and useful blend of the mathematical, probabilistic and statistical tools used in heavy-tail analysis. It is uniquely devoted to heavy-tails and emphasizes both probability modeling and statistical methods for fitting models. Prerequisites for the

reader include a prior course in stochastic processes and probability, some statistical background, some familiarity with time series analysis, and ability to use a statistics package. This work will serve second-year graduate students and researchers in the areas of applied mathematics, statistics, operations research, electrical engineering, and economics.

Managing the Supply Chain -

David Simchi-Levi 2003-11-22

In today's environment of tight budgets and even tighter turnarounds, effective supply-chain management has become a core business requirement. Managing the Supply Chain adapts the number one supply-chain book on the college market to examine how professionals can consistently turn supply-chain strategy into a competitive advantage. This results-based book examines the experiences of today's most accomplished companies to demonstrate supply-chain innovation at work in the marketplace.

Numerical Optimization -

Jorge Nocedal 2006-12-11

Optimization is an important tool used in decision science and for the analysis of physical systems used in engineering. One can trace its roots to the Calculus of Variations and the work of Euler and Lagrange. This natural and reasonable approach to mathematical programming covers numerical methods for finite-dimensional optimization problems. It begins with very simple ideas progressing through more complicated concepts, concentrating on methods for both unconstrained and constrained optimization.

Cooperative Stochastic Differential Games -

David W.K. Yeung 2006-05-11

Numerical Optimization presents a comprehensive and up-to-date description of the most effective methods in continuous optimization. It responds to the growing interest in optimization in engineering, science, and business by focusing on the methods that are best suited to practical problems. For this new edition the book has been thoroughly updated

throughout. There are new chapters on nonlinear interior methods and derivative-free methods for optimization, both of which are used widely in practice and the focus of much current research. Because of the emphasis on practical methods, as well as the extensive illustrations and exercises, the book is accessible to a wide audience. It can be used as a graduate text in engineering, operations research, mathematics, computer science, and business. It also serves as a handbook for researchers and practitioners in the field. The authors have strived to produce a text that is pleasant to read, informative, and rigorous - one that reveals both the beautiful nature of the discipline and its practical side.

Quantum Theory and Pictures of Reality - Wolfram

Schommers 1989

The subject is approached mainly from a historical point of view, highlighting the original ideas which enabled the transfer from the macroscopic to the microscopic

level. New aspects are covered in connection with locality, wave-particle duality, the time operator, the uncertainty of time, the role of the observer. A review of recently proposed radical new experiments is also given. Annotation copyrighted by Book News, Inc., Portland, OR

Evaluation of Cooperative Planning in Supply Chains -

Luis Martín Díaz 2006-08-31

Luis Martín Díaz shows why some companies are still reluctant to cooperate with partners in the supply chain even though it may be advantageous to them. Based on an extensive survey within the European automotive industry, he proposes solutions to this paradox and describes a prototype for the assessment of the added-value of cooperation.

The Logic of Logistics - David

Simchi-Levi 1999-05-27

Fierce competition in today's global market provides a powerful motivation for developing ever more sophisticated logistics systems. This book, written for the logistics manager and

researcher, presents a timely and authoritative survey of the modern theory and application of logistics, including case studies in which decision support tools for large-scale logistics applications are developed.

Extreme Values, Regular Variation and Point Processes - Sidney I. Resnick 2013-12-20

This book examines the fundamental mathematical and stochastic process techniques needed to study the behavior of extreme values of phenomena based on independent and identically distributed random variables and vectors. It emphasizes the core primacy of three topics necessary for understanding extremes: the analytical theory of regularly varying functions; the probabilistic theory of point processes and random measures; and the link to asymptotic distribution approximations provided by the theory of weak convergence of probability measures in metric spaces.

Markets, Business and Sustainability - Ilias P. Vlachos

2015-03-26

Many studies on environmental and business sustainability have been conducted over the last couple of decades. These studies demonstrate that the concept of sustainability management can be applied to several industries. Consumers around the globe are increasingly interested in sustainable consumption and they turn their attention into sustainable products, thus, campaigning for banning companies and supply chains that do not operate under sustainable ethos. *Markets, Business and Sustainability* is a collection of selected reports that examine business sustainability, market sustainability and supply chain sustainability in a variety of contexts and using diverse methodologies. This reference work emphasizes the profound impact of sustainability management on markets and business. Readers are presented with critical analyses on different dimensions of sustainability. This book covers the applications of sustainable

management techniques in construction, city logistics and the food industry.

Sustainability management practitioners, consumers, as well as students and academics can enrich their understanding about the business dimension of sustainability and also find references of available literature on the subject. The information presented in this reference is also helpful to senior business leaders seeking to create a vision, mission and strategy for their companies in order to create sustainable value, and an organizational culture of sustainability.

Quality Management

Practices - R. P. Mohanty
2008

This book is the outcome of the efforts of many professionals working both in academia and industry who have contributed to the proceedings of the International Conference on Quality Management Practices for Organizational Excellence . Organizational Excellence is a final product composed of two basic elements alloyed prudently by the

members/stakeholders of an organization. These two basic elements are Strategy and Culture . When we talk of quality management practices, we have to pursue quality as a strategy and also quality as a culture . Quality as strategy is a conscious and deliberate search for a plan of action that will develop an organization's distinctive competence and compound it. Quality as culture is the amalgamation of behavior patterns of all the stakeholders in terms of beliefs, values, attitudes etc. In other words, quality management is the epicenter of the competitive organizations of the future in which strategy is the scientific pursuits and culture is the artistic artifacts. Numerous authors have put forth their logical thoughts, have articulated their concepts and have validated their hypothesis relating to quality management. The papers, which have found place in this book aim at creating values of quality management practices.

Operations Management -
Antonella Petrillo 2021-03-03

Global competition has caused fundamental changes in the competitive environment of the manufacturing and service industries. Firms should develop strategic objectives that, upon achievement, result in a competitive advantage in the market place. The forces of globalization on one hand and rapidly growing marketing opportunities overseas, especially in emerging economies on the other, have led to the expansion of operations on a global scale. The book aims to cover the main topics characterizing operations management including both strategic issues and practical applications. A global environmental business including both manufacturing and services is analyzed. The book contains original research and application chapters from different perspectives. It is enriched through the analyses of case studies.

The Logic of Logistics - David Simchi-Levi 2013-03-09
Fierce competition in today's global market provides a powerful motivation for

developing ever more sophisticated logistics systems. This book, written for the logistics manager and researcher, presents a timely and authoritative survey of the modern theory and application of logistics, including case studies in which decision support tools for large-scale logistics applications are developed.

Location Theory - Stefan Nickel
2006-01-16

Although modern location theory is now more than 90 years old, the focus of researchers in this area has been mainly problem oriented. However, a common theory, which keeps the essential characteristics of classical location models, is still missing. This monograph addresses this issue. A flexible location problem called the Ordered Median Problem (OMP) is introduced. For all three main subareas of location theory (continuous, network and discrete location) structural properties of the OMP are presented and solution approaches provided.

Numerous illustrations and examples help the reader to become familiar with this new location model. By using OMP classical results of location theory can be reproved in a more general and sometimes even simpler way. Algorithms enable the reader to solve very flexible location models with a single implementation. In addition, the code of some algorithms is available for download.

Computational Logistics -

Hao Hu 2012-08-27

This book constitutes the refereed proceedings of the Third International Conference on Computational Logistics, held in Shanghai, China, in September 2012. The 15 revised full papers presented were carefully reviewed and selected from various submissions. The papers are organized in topical sections on maritime shipping; logistics and supply chain management; planning and operations; and case studies.

Networks in Action - Gerard Sierksma 2009-12-11

One of the most well-known of

all network optimization problems is the shortest path problem, where a shortest connection between two locations in a road network is to be found. This problem is the basis of route planners in vehicles and on the Internet. Networks are very common structures; they consist primarily of a finite number of locations (points, nodes), together with a number of links (edges, arcs, connections) between the locations. Very often a certain number is attached to the links, expressing the distance or the cost between the end points of that connection. Networks occur in an extremely wide range of applications, among them are: road networks; cable networks; human relations networks; project scheduling networks; production networks; distribution networks; neural networks; networks of atoms in molecules. In all these cases there are "objects" and "relations" between the objects. A network optimization problem is actually nothing

else than the problem of finding a subset of the objects and the relations, such that a certain optimization objective is satisfied.

Strategic Supply Chain Design - Thorsten Klaas-Wissing 2007

Modelling and Decisions in Economics - Ulrike Leopold-Wildburger 2013-06-29

Franz Ferschl is seventy. According to his birth certificate it is true, but it is unbelievable. Two of the three editors remembers very well the Golden Age of Operations Research at Bonn when Franz Ferschl worked together with Wilhelm Krelle, Martin Beckmann and Horst Albach. The importance of this fruitful cooperation is reflected by the fact that half of the contributors to this book were strongly influenced by Franz Ferschl and his colleagues at the University of Bonn. Clearly, Franz Ferschl left his traces at all the other places of his professional activities, in Vienna and Munich. This is demonstrated by the present

volume as well. Born in 1929 in the Upper-Austrian Miihlviertel, his scientific education brought him to Vienna where he studied mathematics. In his early years he was attracted by Statistics and Operations Research. During his employment at the Osterreichische Bundeskammer fUr Gewerbliche Wirtschaft in Vienna he prepared his famous book on queueing theory and stochastic processes in economics. This work has been achieved during his scarce time left by his duties at the Bundeskammer, mostly between 6 a.m. and midnight. All those troubles were, however, soon rewarded by the chair of statistics at Bonn University. As a real Austrian, the amenities of the Rhineland could not prevent him from returning to Vienna, where he took the chair of statistics. *CLC 2018: Carpathian Logistics Congress* -

The Logic of Logistics - David Simchi-Levi 2010-11-29
Fierce competition in today's

global market provides a powerful motivation for developing ever more sophisticated logistics systems. This book, written for the logistics manager and researcher, presents a survey of the modern theory and application of logistics. The goal of the book is to present the state-of-the-art in the science of logistics management. As a result, the authors have written a timely and authoritative survey of this field that many practitioners and researchers will find makes an invaluable companion to their work.

Tools of Transport Telematics - Jerzy Mikulski 2016-01-12

This book constitutes the proceedings of the 15th International Conference on Transport Systems Telematics, TST 2015, held in Wrocław, Poland, in April 2015. The 35 revised full papers and two short papers included in this volume were carefully reviewed and selected from 115 submissions. The papers provide an overview of solutions being developed in

the fields of transport telematics and intelligent transport systems.

Sustainable Logistics and Strategic Transportation Planning - Kramberger, Tomaz 2016-03-17

The tactical organization of resources is a vital component to any industry in modern society. Effectively managing the flow of materials through various networks ensures that the requirements of customers are met. Sustainable Logistics and Strategic Transportation Planning is a pivotal reference source for the latest research on the management of logistics through the lens of sustainability, as well as for emerging procedures that are particularly critical to the transportation sector.

Highlighting international perspectives, conceptual frameworks, and targeted investigations, this book is ideally designed for policy makers, professionals, researchers, and upper-level students interested in logistics and transport systems.

Logistics Systems: Design and

Optimization - Andre Langevin
2005-03-25

In a context of global competition, the optimization of logistics systems is inescapable. *Logistics Systems: Design and Optimization* falls within this perspective and presents twelve chapters that well illustrate the variety and the complexity of logistics activities. Each chapter is written by recognized researchers who have been commissioned to survey a specific topic or emerging area of logistics. The first chapter, by Riopel, Langevin, and Campbell, develops a framework for the entire book. It classifies logistics decisions and highlights the relevant linkages to logistics decisions. The intricacy of these linkages demonstrates how thoroughly the decisions are interrelated and underscores the complexity of managing logistics activities. Each of the chapters focus on quantitative methods for the design and optimization of logistics systems.

Metaheuristic Optimization

via Memory and Evolution -
Cesar Rego 2006-03-30

Tabu Search (TS) and, more recently, Scatter Search (SS) have proved highly effective in solving a wide range of optimization problems, and have had a variety of applications in industry, science, and government. The goal of *Metaheuristic Optimization via Memory and Evolution: Tabu Search and Scatter Search* is to report original research on algorithms and applications of tabu search, scatter search or both, as well as variations and extensions having "adaptive memory programming" as a primary focus. Individual chapters identify useful new implementations or new ways to integrate and apply the principles of TS and SS, or that prove new theoretical results, or describe the successful application of these methods to real world problems.

Supply Chain Scheduling - Zhi-Long Chen 2022-03-11

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.