

INTERNATIONAL SERIES IN OPERATIONS  
RESEARCH AND MANAGEMENT SCIENCE



# Time-Varying Network Optimization

Xiaoqiang Cai  
Dan Sha  
C.K. Wong

 Springer

# Time Varying Network Optimization International Series In Operations Research Management Science

**Jack P.C. Kleijnen**



## **Time Varying Network Optimization International Series In Operations Research Management Science:**

*Time-Varying Network Optimization* Dan Sha, C. K. Wong, 2007-05-05 Network flow optimization problems may arise in a wide variety of important fields such as transportation telecommunication computer networking financial planning logistics and supply chain management energy systems etc Significant and elegant results have been achieved on the theory algorithms and applications of network flow optimization in the past few decades See for example the seminal books written by Ahuja Magnanti and Orlin 1993 Bazaraa Jarvis and Sherali 1990 Bertsekas 1998 Ford and Fulkerson 1962 Gupta 1985 Iri 1969 Jensen and Barnes 1980 Lawler 1976 and Minieka 1978 Most network optimization problems that have been studied up to date are however static in nature in the sense that it is assumed that it takes zero time to traverse any arc in a network and that all attributes of the network are constant without change at any time Networks in the real world are nevertheless time varying in essence in which any flow must take a certain amount of time to traverse an arc and the network structure and parameters such as arc and node capacities may change over time In such a problem how to plan and control the transmission of flow becomes very important since waiting at a node or travelling along a particular arc with different speed may allow one to catch the best timing along his path and therefore achieve his overall objective such as a minimum overall cost or a minimum travel time from the origin to the destination

*Linear Programming* Robert J Vanderbei, 2007-10-23 This Third Edition introduces the latest theory and applications in optimization It emphasizes constrained optimization beginning with linear programming and then proceeding to convex analysis network flows integer programming quadratic programming and convex optimization You will discover a host of practical business applications as well as non business applications With its focus on solving practical problems the book features free C programs to implement the major algorithms covered The book's accompanying website includes the C programs JAVA tools and new online instructional tools and exercises

*Supply Chain Games: Operations Management and Risk Valuation* Konstantin Kogan, Charles S. Tapiero, 2007-09-05 In today's global economy supply chains are an essential ingredient to corporate survival and growth Operations strategy in supply chains must assume an ever expanding and strategic role of risks that modern enterprises face when they operate in an interdependent supply chain environment These operational and strategic facets entail a brand new set of operational problems and risks that have not always been understood or managed very well It falls to supply chain managers to identify and to educate corporate managers on what these critical operational problems and risks involve Supply Chain Games Operations Management and Risk Valuation provides business students and practitioners with the means to understand to model and to analyze these outstanding issues and problems that are the essential elements in managing supply chains today

**Linear and Nonlinear Programming** David G. Luenberger, Yinyu Ye, 2008-07-07 This third edition of the classic textbook in Optimization has been fully revised and updated It comprehensively covers modern theoretical insights in this crucial computing area and will be required reading for analysts and operations researchers in a variety of

fields The book connects the purely analytical character of an optimization problem and the behavior of algorithms used to solve it Now the third edition has been completely updated with recent Optimization Methods The book also has a new co author Yinyu Ye of California s Stanford University who has written lots of extra material including some on Interior Point Methods

**Computational Probability** John H. Drew,Diane L. Evans,Andrew G. Glen,Lawrence Leemis,2008-01-08 This title organizes computational probability methods into a systematic treatment The book examines two categories of problems Algorithms for Continuous Random Variables covers data structures and algorithms transformations of random variables and products of independent random variables Algorithms for Discrete Random Variables discusses data structures and algorithms sums of independent random variables and order statistics

Hydropower Economics Finn R. Forsund,2007-09-19 The state organisation responsible for coordinating the hydropower el tricity system in Norway Samkj ringen contacted me in 1990 about the advanced plan for deregulating the electricity system separating gene tion transmission and distribution and introducing a wholesale market for electricity It was felt that insights about the fundamental nature of running an electricity system based on hydropower was somewhat lacking within the team of academic economists engaged to write background reports by the Oil and Energy ministry responsible for driving the reform of the el tricity system When talking to engineers I was fascinated by the world of electricity with its physical laws and weird concepts such as reactive power and el tric phase angles Externalities of hydraulic interdependence between river based power stations and highly fluctuating loss and congestion ternalities involved in a meshed transmission network had to be recognised Furthermore capturing all these elements required advanced mathematical methods of dynamic programming in a stochastic envir ment My conclusion was that a market design that neglected these aspects did it at its own peril I predicted volatile prices coming out of a compe tion between producers facing zero short run variable costs and problems with investments coming forth sufficiently from a social perspective However I can safely say that my report had no impact whatsoever on the Norwegian electricity reform of 1991 that must be regarded not the least by me as being highly successful

*Supply Chain Analysis* Christopher S. Tang,Chung-Piaw Teo,Kwok-Kee Wei,2007-11-28 Supply Chain Analysis A Handbook on the Interaction of Information System and Optimization is a carefully developed work focused on the analysis of supply chain interaction issues in emerging markets and industry sectors It is a leading edge handbook that will emphasize where little work has been done and where the rubber meets the road the supply chain process information and systems integration These are pertinent issues facing practitioners and researchers in today s business environment This is a gap bridging handbook that analyzes interaction issues from both the research and practitioner sides The result is a volume that examines and provides practical solutions on interaction issues while being firmly grounded in research principles An outstanding team of editors Chris Tang is well known and highly regarded in the area of Supply Chain Management He is both a department chairman and the Edward Carter Professor of Business Administration at UCLA Anderson School

Professor Wei is the Dean of the Faculty of Business at the City University of Hong Kong and is an eminent scholar in the area of Information Technology Professor Teo has extensive experience in the area of Supply Chain Management and Optimization and he is with the NUS Business School at the National University of Singapore     Health Care Benchmarking and Performance Evaluation Yasar A. Ozcan, 2007-12-08 Hugely relevant in today's world of healthcare performance management this comprehensive work applies the analytical framework of Data Envelopment Analysis methodology to provide health care administrators with specific tools for performance evaluation Most important the book provides health care practitioners and administrators with information of what is lacking in specific aspects of performance and then outlines the ways how these performance inadequacies can be improved     **Feasibility and Infeasibility in Optimization:** John W. Chinneck, 2007-10-25 Written by a world leader in the field and aimed at researchers in applied and engineering sciences this brilliant text has as its main goal imparting an understanding of the methods so that practitioners can make immediate use of existing algorithms and software and so that researchers can extend the state of the art and find new applications It includes algorithms on seeking feasibility and analyzing infeasibility as well as describing new and surprising applications     Design and Analysis of Simulation Experiments Jack P.C. Kleijnen, 2007-11-15 Simulation is a widely used methodology in all Applied Science disciplines This textbook focuses on this crucial phase in the overall process of applying simulation and includes the best of both classic and modern methods of simulation experimentation This book will be the standard reference book on the topic for both researchers and sophisticated practitioners and it will be used as a textbook in courses or seminars focusing on this topic

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Introduction**

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