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Traffic Engineering and QoS Optimization of Integrated Voice and Data Networks Routledge
This book describes, analyzes, and recommends traffic engineering (TE) and quality of service (QoS) optimization methods for integrated voice/data dynamic routing networks. These functions control a network's response to traffic demands and other stimuli, such as link failures or node failures. TE and QoS optimization is concerned with measurement, modeling, characterization, and control of network traffic, and the application of techniques to achieve specific performance objectives. The scope of the analysis and recommendations include dimensioning, call/flow and connection routing, QoS resource management, routing table management, dynamic transport routing, and operational requirements. Case studies are included which provide the reader with a concrete way into the technical details and highlight why and how to use the techniques described in the book. Includes Case Studies of MPLS and GMPLS Network Optimization Presents state-of-the-art traffic engineering and quality of service optimization methods and illustrates the tradeoffs between the various methods discussed Contains practical Case Studies based on large-scale service provider implementations and architecture plans Written by a highly respected and well known active expert in traffic engineering and quality of service
[Making Essential Choices with Scant Information](#) Elsevier
The scope of this book is Operations Research methods in Agriculture and a thorough discussion of derived applications in the Agri-food industry. The book summarizes current research and practice in this area and illustrates the development of useful approaches to deal with actual problems arising in the agriculture sector and the agri-food industry. This book is intended to collect in one volume high quality chapters on Methods and Applications in Agriculture and Agri-food industry considering both theoretical issues and application results. Methods applied to problems in agriculture and the agri-food industry include, but are not restricted to, the following themes:

Dynamic programming Multi-criteria decision methods Markov decision processes Linear programming Stochastic programming Parameter estimation and knowledge acquisition Learning from data Simulation Descriptive and normative decision tree techniques, including: agent modelling and simulation, and state of the art surveys Each chapter includes some standard and traditional methodology but also some recent research advances. All the applications presented in the chapters have been inspired and motivated by the demands from the agriculture and food production areas.
Computer Aided and Integrated Manufacturing Systems World Scientific
Sustainable development is one of the most influential visions guiding future societies. Encompassed within its vision are various domains where improvements are desirable such as, social equity, environmental degradation, climate change. In the work towards sustainable development firms, government authorities and individuals face various practical challenges tied to these sustainability domains. When facing these challenges, they may implement sustainability solutions, that is, solutions that are framed in the context of contributing to sustainable development. This thesis deals with a particular sub-set of such sustainability solutions, namely integrative and multi-functional solutions. These solutions are characterized by the ability to provide different functions through value creation within several different sustainability domains and require organisations, or units of organisations, to further integrate material, energy and informational flows in order to implement the solution. Integrative and multi-functional solutions may play an important part in the transition towards sustainable societies since the integration of material, energy and informational flows may bring with it synergistic benefits. Furthermore, the contribution of these solutions to several different sustainability domains reduces the risk of problem shifting, and it may be more cost-efficient to have one multi-functional sustainability solution than to have one for

each sustainability- related challenge. However, if integration and multi-functionality are desirable characteristics of future socio-technological systems, we need ways to systematically assess them and facilitate their implementation. When it comes to the assessment, there is a need to find an assessment methodology that can handle capturing the synergistic benefits and multiple functions of such solutions. Furthermore, the methodology also has to conform to the value pluralism inherent to sustainable development. Dealing with this value pluralism when trying to assess which solution, among many, to implement can be challenging as comparative judgements have to handle potentially conflicting value orientations, goals, empirics and ontologies. As for the facilitation of their implementation, integrative and multi-functional solutions tend to be more difficult—or at least different—to implement than traditional single-minded solutions since they require traditionally separate organisations to cooperate Therefore, this thesis aims to contribute to understanding the process of implementing integrative and multi-functional solutions. Specifically the thesis explores how to select indicators for assessment, how assessments may aid decision-makers to deal with the value pluralism of sustainable development when making comparative judgements and how to strengthen the internal capacity of groups of actors to engage in collective action. Regarding the selection of indicators, the thesis suggests two different pathways. Either one may base indicator selections on stakeholder discussions, where stakeholders come to a consensus around which indicators are important to assess, or one may base indicators on operationalising pre-defined sustainability objectives: namely, sorting, contextualising and reformulating pre-defined sustainability objectives so that they fit the purpose of the assessment. A mix of both pathways is also possible, in other words, using both stakeholder discussions and the operationalisation of pre-defined sustainability objectives to motivate and

justify the selection of indicators. As for how assessments may aid decision-makers, the thesis advocates for a discursive approach based on the primacy of decision support tools over decision-making tools. Meaning that the tools should support informed decisions but not make them for the decisionmaker. Here, contributions are made in the form of motivations for the discursive, qualitative approach to decision-making and exemplify how decision support tools may be designed, and a method is presented and developed that enables this kind of informed comparative judgements. This method builds on multicriteria decision analysis methodology but makes a few key contributions to the selection of indicators (mentioned previously) and to how to compare different alternatives and judge which of the alternatives is the preferred. Finally, contributions are made to the practice of facilitating integrative and multi-functional solutions through showing how the theory of institutional capacity building can be used to guide design, development and evaluation of interventions aimed at facilitating such solutions. Institutional capacity building represents the ability of groups of actors to engage in collective action, something that seems to be often needed to implement integrative and multi-functional solutions. Historically, this theory has been used to study how different events influenced the capacity of actors to engage in collective action. However, in research performed within the bounds of this thesis, the theory is expanded for use in a proactive manner, thereby contributing with insights and inspiration to others that may seek to facilitate the implementation process of integrative and multi-functional solutions.

Predictive Analytics Routledge
An authoritative guide to large-scale energy storage technologies and applications for power system planning and operation To reduce the dependence on fossil energy, renewable energy generation (represented by wind power and photovoltaic power generation) is a growing field worldwide. Energy Storage for Power System Planning and Operation offers an authoritative introduction to the rapidly evolving field of energy storage systems. Written by a noted expert on the topic, the book outlines a valuable framework for understanding the existing and most recent advances in technologies for integrating energy storage applications

with power systems. Filled with full-color illustrations, the book reviews the state-of-the-art of energy storage systems and includes illustrative system models and simulations. The author explores the various techniques that can be employed for energy storage that is compatible with renewable energy generation. Designed as a practical resource, the book examines in detail the aspects of system optimization, planning, and dispatch. This important book, Provides an introduction to the systematically different energy storage techniques with deployment potential in power systems Models various energy storage systems for mathematical formulation and simulations Contains a review of the techniques for integrating and operating energy storage with renewable energy generation Analyses how to optimize power systems with energy storage, at both the transmission and distribution system levels Shows how to optimize planning, siting, and sizing of energy storage for a range of purposes Written for power system engineers and researchers, Energy Storage for Power System Planning and Operation introduces the application of large-scale energy storage for the optimal operation and planning of power systems.

Resolving International Disputes Through Super-optimum Solutions CRC Press

Predictive analytics refers to making predictions about the future based on different parameters which are historical data, machine learning, and artificial intelligence. This book provides the most recent advances in the field along with case studies and real-world examples. It discusses predictive modeling and analytics in reliability engineering and introduces current achievements and applications of artificial intelligence, data mining, and other techniques in supply chain management. It covers applications to reliability engineering practice, presents numerous examples to illustrate the theoretical results, and considers and analyses case studies and real-word examples. The book is written for researchers and practitioners in the field of system reliability, quality, supply chain management, and logistics management. Students taking courses in these areas will also find this book of interest.

30th European Symposium on Computer Aided Chemical Engineering Springer

Airline Operations and Delay Management fills a gap within the area of airline schedule planning by addressing the close relationships between network

development, economic driving forces, schedule demands and operational complexity. The pursuit of robust airline scheduling and reliable airline operations is discussed in light of the future trends of airline scheduling and technology applications in airline operations. The book extensively explores the subject from the perspectives of airline economics, airline network development and airline scheduling practices. Many operational issues and problems are the inevitable consequences of airline network development and scheduling philosophy, so a wide perspective is essential to address airline operations in their proper context. The influence of airline network development on schedule planning and operations driven by economic forces and relaxed regulations is thoroughly examined for different types of operations in aviation such as network carriers and low-cost carriers. The advantages and disadvantages of running different networks and schedules are discussed and illustrated with real airline examples. In addition, this book provides readers with various mathematical models for solving different issues in airline operations and delay management. Airline Operations and Delay Management is ideal for senior undergraduate students as an introductory book on airline operations. The more advanced materials included in this book regarding modeling airline operations are suitable for postgraduate students, advanced readers and professionals interested in modeling and solving airline operational problems.

Proceedings of the 14th European Conference on Knowledge Management Oxford University Press

This is an invaluable five-volume reference on the very broad and highly significant subject of computer aided and integrated manufacturing systems. It is a set of distinctly titled and well-harmonized volumes by leading experts on the international scene. The techniques and technologies used in computer aided and integrated manufacturing systems have produced, and will no doubt continue to produce, major annual improvements in productivity, which is defined as the goods and services produced from each hour of work. This publication deals particularly with more effective utilization of labor and capital, especially information technology systems. Together the five volumes treat comprehensively the major techniques and technologies that are involved.

Sustainable Solid Waste Management Springer Nature

This book explains how water, electricity/power, roads and other infrastructure services are linked together within the general basket of development and how to obtain the optimum use of resources. The emphasis, nowadays, is on multipurpose activities, optimum use of resources, environmental approach, minimum use of energy. This book tries to integrate all of these, by showing the links between the different components of infrastructure and trying to model them. A well articulated, socially attractive and desirable project may fail during the implementation or operation stage, not only

from bad design, but also due to inadequate attention paid to the human aspects required for its operation. This book is intended for graduates and practising professionals who are involved in the general development planning of their country/region. It enables better understanding, collaboration and communication with other professionals in relation to their own or different disciplines.

Integrated Optimization in Public Transport Planning Routledge

The Internet and the World Wide Web (WWW) are becoming more and more important in our highly interconnected world as more and more data and information is made available for online access. Many individuals and governmental, commercial, cultural, and scientific organizations increasingly depend on information sources that can be accessed and queried over the Web. For example, accessing flight schedules or retrieving stock information has become common practice in today's world. When accessing this data, many people assume that the information accessed is accurate and that the data source can be accessed reliably. These two examples clearly demonstrate that not only the information content is important, the information about the quality of the data becomes an even more crucial and critical aspect for individuals and organizations when they make plans or take decisions based on the results of their queries. More precisely, having access to information of known quality becomes critical for the well-being and indeed for the functioning of modern industrialized societies. Surprisingly, despite the urgent need for clear concepts and techniques to judge and value quality and for technology to use such (meta) information, very few scientific results are known and available. Few approaches are known to use quality measures for accessing and querying information over the Web. Only a limited number of products on the IT market address this burning problem.

Energy Storage for Power System Planning and Operation Springer

Metamaterials and metasurfaces are enabling modern 5G/6G wireless systems to achieve high performance while maintaining efficient costs and sizes. In the wireless industry, transmission lines play a fundamental role in the development of guided wave elements, antennas, radio frequency identification (RFID) tags, and sensors whose efficiency may be enhanced using metamaterials. Additionally, a metamaterial absorber can solve the bandwidth issue of the internet of things (IoT's) backhaul network. Metasurfaces are also potential candidates for implementing reconfigurable intelligent surfaces (RISs) due to their special wireless communication capabilities. Metamaterial Technology and Intelligent Metasurfaces for Wireless Communication Systems compiles and promotes metamaterials research and sheds light on how metamaterials and metasurfaces will be used in the 5G era and beyond. Covering topics such as active and passive metamaterials, metasurfaces-inspired antennas, and metamaterials

for RFID and sensors, this book is ideal for researchers, students, academicians, and professionals.

Large-Scale Integrated Energy Systems Springer
This book concerns resolving conflicts on an international level. The author states that for the purposes of this book, the dispute would have to be at the level of a war, revolution, or other dispute that involves substantial bloodshed on one or more sides, rather than a dispute that merely involves words, economic competition, or non-violent conflict. The SOS Resolution is a special kind of Win-Win dispute resolution where one where both or all sides come out ahead of even their best initial expectations simultaneously. The steps and strategies of this resolution are fully explained.

Quality-Driven Query Answering for Integrated Information Systems J. Ross Publishing
An increment of urban flood risk in many areas around the globe is expected, accentuated due to climate change and urbanisation. Thus, appropriate flood risk management is crucial. Conventional approaches focus on grey infrastructure, which frequently do not address the root causes of risk. A change of paradigm is needed to develop effective adaptation strategies. Green-blue infrastructure (GBI) is a central concept to achieve adaptation to climate change. Its main strength is the ability to deliver multiple benefits. Although strong evidence exists demonstrating that GBI is a sustainable solution to reduce flooding, its adoption is still slow. Therefore, the objective of this research is to help decision-makers to adopt adaptation strategies to cope with flood risk while achieving other benefits. This study provides a framework which introduces co-benefits into decision-making for stormwater infrastructure planning. Besides, the multiple benefits are quantified and their impact on helping GBI implementation are evaluated. Finally, the effects of including co-benefits on the selection of flood mitigation strategies and the trade-offs among cost and benefits are assessed. This work contributes to enhance planning processes for flood mitigation combining green-blue-grey measures. It provides tools and knowledge to facilitate holistic decision-making, in order to ensure safe and liveable urban spaces for current and future conditions.

Lynnhaven River Basin Ecosystem Restoration Project Final Feasibility Report and Integrated Environmental Assessment, House Doc. 113-176, December 11, 2014, 113-2 Springer
Covering a series of important topics, which are of current research interest and have practical applications, this book examines all aspects of risk analysis and hazard mitigation, ranging from specific assessment of risk to mitigation associated with both natural and anthropogenic hazards. Originally presented at the Fifth International Conference on Computer Simulation in Risk Analysis and Hazard Mitigation, the papers cover topics such as: Risk Mitigation; Estimation of Risk; Hazard Prevention; Management and Control; Data Collection and Analysis; Information Society Technologies in Risk; Man-made Risk; Seismic Hazard; Marine and Maritime Risk; Landslides and Slope Movements; Floods and Droughts; Soil, Water and Air Contamination; Health Issues; Policy and Decision Making; Risk and Sustainability and Operational Issues such as Energy Response; Risk Communication; Risk Perception.

Creativity and Public Policy Springer Science & Business Media

This book presents the application of system analysis techniques with case studies to help readers learn how the techniques can be applied, how the problems are solved, and which sustainable management strategies can be reached.

Airline Operations and Delay Management Springer

Phenotypic plasticity is the range and process of variation in body plan and physiology. This book pulls together recent theoretical advances in phenotypic plasticity, as influenced by evolution and development. The editors and the chapter authors are among the leaders of this exciting and active subfield. The volume begins with a primer on the basic principles of the subject, and companion chapters on phenotypic plasticity in plants and animals. Of interest to a wide range of researchers on evolution, development, and their interface.

Economic Theory of The Industry John Wiley & Sons

This title was first published in 2000: A history of the ideas behind public policy studies, which can be defined as the study of the nature, causes and effects of government decisions for dealing with social problems.

InfoWorld CUP Archive

This title was first published in 2003. There is growing anxiety about the consequences of social and economic change for children in industrial countries. It is in this context that the Federation for International Studies in Social Security chose Children and Social Security as the theme of its conference held in June 2001. Leading academics came together to discuss issues such as international comparative studies of child poverty, financial benefit packages for children, aspects of social security provision for families with children. This volume is international in focus bringing together research from the US, Europe, South Africa, New Zealand it should be useful to researchers of social policy, economics, sociology and politics, as well as policy-makers and representatives of charities and international bodies.

Infrastructure Planning and Management: An Integrated Approach Academic Conferences Limited

Today's global business environments drive companies to be more technology dependent, and to remain competitive, firms need to introduce or adopt a new technology to business. In order to achieve a successful integration with maximum return on investment, companies need a systematic approach that accommodates a comprehensive course of action of technology integration. Technology Integration to Business – Practical Methods and Case Studies suggests a business-driven holistic approach of technology integration that consists of several steps. First, companies should examine the current state, issues, benefits, and obstacles of technology integration in conjunction with their competitive business

strategy and operational capability. Second, firms should investigate new, emerging business technologies as to how those technologies can contribute to improve the business. Third, with the technology integration needs identified, companies should complete preparatory tasks before actual implementation, such as, business process analysis, technology assessment, technology provider investigation, business case development, and cost-benefit analysis. Fourth, because the nature of technology integration project involves many stakeholders in global locations, firms should use effective project management knowledge from project initiation, through planning, execution, control, to close. Students will learn real-world technology integration processes in industry settings and become more prepared for industrial careers. Practitioners will find thorough procedures and methods that are useful in practice to improve business performance. Realistic examples for manufacturing, logistics, and supply chain management application domains give the reader practical implications for the methods presented.

Building Information Systems in the Construction Industry Frontiers Media SA

This is an invaluable five-volume reference on the very broad and highly significant subject of computer aided and integrated manufacturing systems. It is a set of distinctly titled and well-harmonized volumes by leading experts on the international scene. The techniques and technologies used in computer aided and integrated manufacturing systems have produced, and will no doubt continue to produce, major annual improvements in productivity, which is defined as the goods and services produced from each hour of work. This publication deals particularly with more effective utilization of labor and capital, especially information technology systems. Together the five volumes treat comprehensively the major techniques and technologies that are involved.

Handbook of Integrated Risk Management for E-Business World Scientific

Integrated water resources management advocates a coordinated approach for managing water resources in a way that balances social and economic needs with concern for the environment. While potentially useful, integrated water management is also controversial. Supporters believe that the multi-dimensional nature of water can only be understood and m