

**Wiley Series in Operations Research
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HEALTHCARE ANALYTICS

**FROM DATA TO KNOWLEDGE TO
HEALTHCARE IMPROVEMENT**



Edited by
Hui Yang
Eva K. Lee

WILEY

**Healthcare Analytics From Data To Knowledge To
Healthcare Improvement Wiley Series In Operations
Research And Management Science**

Kaoru Tone



Healthcare Analytics From Data To Knowledge To Healthcare Improvement Wiley Series In Operations Research And Management Science:

Healthcare Analytics Hui Yang, Eva K. Lee, 2016-08-01 Features of statistical and operational research methods and tools being used to improve the healthcare industry With a focus on cutting edge approaches to the quickly growing field of healthcare Healthcare Analytics From Data to Knowledge to Healthcare Improvement provides an integrated and comprehensive treatment on recent research advancements in data driven healthcare analytics in an effort to provide more personalized and smarter healthcare services Emphasizing data and healthcare analytics from an operational management and statistical perspective the book details how analytical methods and tools can be utilized to enhance healthcare quality and operational efficiency Organized into two main sections Part I features biomedical and health informatics and specifically addresses the analytics of genomic and proteomic data physiological signals from patient monitoring systems data uncertainty in clinical laboratory tests predictive modeling disease modeling for sepsis and the design of cyber infrastructures for early prediction of epidemic events Part II focuses on healthcare delivery systems including system advances for transforming clinic workflow and patient care macro analysis of patient flow distribution intensive care units primary care demand and resource allocation mathematical models for predicting patient readmission and postoperative outcome physician patient interactions insurance claims and the role of social media in healthcare Healthcare Analytics From Data to Knowledge to Healthcare Improvement also features Contributions from well known international experts who shed light on new approaches in this growing area Discussions on contemporary methods and techniques to address the handling of rich and large scale healthcare data as well as the overall optimization of healthcare system operations Numerous real world examples and case studies that emphasize the vast potential of statistical and operational research tools and techniques to address the big data environment within the healthcare industry Plentiful applications that showcase analytical methods and tools tailored for successful healthcare systems modeling and improvement The book is an ideal reference for academics and practitioners in operations research management science applied mathematics statistics business industrial and systems engineering healthcare systems and economics Healthcare Analytics From Data to Knowledge to Healthcare Improvement is also appropriate for graduate level courses typically offered within operations research industrial engineering business and public health departments

Healthcare Analytics Hui Yang, Eva K. Lee, 2016 Features of statistical and operational research methods and tools being used to improve the healthcare industry With a focus on cutting edge approaches to the quickly growing field of healthcare Healthcare Analytics From Data to Knowledge to Healthcare Improvement provides an integrated and comprehensive treatment on recent research advancements in data driven healthcare analytics in an effort to provide more personalized and smarter healthcare services Emphasizing data and healthcare analytics from an operational management and statistical perspective the book details how analytical methods

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Healthcare Analytics Hui Yang, Eva K. Lee, 2016-10-13

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driven healthcare analytics in an effort to provide more personalized and smarter healthcare services Emphasizing data and healthcare analytics from an operational management and statistical perspective the book details how analytical methods and tools can be utilized to enhance healthcare quality and operational efficiency Organized into two main sections Part I features biomedical and health informatics and specifically addresses the analytics of genomic and proteomic data physiological signals from patient monitoring systems data uncertainty in clinical laboratory tests predictive modeling disease modeling for sepsis and the design of cyber infrastructures for early prediction of epidemic events Part II focuses on healthcare delivery systems including system advances for transforming clinic workflow and patient care macro analysis of patient flow distribution intensive care units primary care demand and resource allocation mathematical models for predicting patient readmission and postoperative outcome physician patient interactions insurance claims and the role of social media in healthcare Healthcare Analytics From Data to Knowledge to Healthcare Improvement also features Contributions from well known international experts who shed light on new approaches in this growing area Discussions on contemporary methods and techniques to address the handling of rich and large scale healthcare data as well as the overall optimization of healthcare system operations Numerous real world examples and case studies that emphasize the vast potential of statistical and operational research tools and techniques to address the big data environment within the healthcare industry Plentiful applications that showcase analytical methods and tools tailored for successful healthcare systems modeling and improvement The book is an ideal reference for academics and practitioners in operations research management science applied mathematics statistics business industrial and systems engineering healthcare systems and economics Healthcare Analytics From Data to Knowledge to Healthcare Improvement is also appropriate for graduate level courses typically offered within operations research industrial engineering business and public health departments

The Handbook of Behavioral Operations Karen Donohue, Elena Katok, Stephen Leider, 2018-10-16 A comprehensive review of behavioral operations management that puts the focus on new and trending research in the field The Handbook of Behavioral Operations offers a comprehensive resource that fills the gap in the behavioral operations management literature This vital text highlights best practices in behavioral operations research and identifies the most current research directions and their applications A volume in the Wiley Series in Operations Research and Management Science this book contains contributions from an international panel of scholars from a wide variety of backgrounds who are conducting behavioral research The handbook provides succinct tutorials on common methods used to conduct behavioral research serves as a resource for current topics in behavioral operations research and as a guide to the use of new research methods The authors review the fundamental theories and offer frameworks from a psychological systems dynamics and behavioral economic standpoint They provide a crucial grounding for behavioral operations as well as an entry point for new areas of behavioral research The handbook also presents a variety of behavioral operations applications that focus on specific areas of study and includes a

survey of current and future research needs This important resource Contains a summary of the methodological foundations and in depth treatment of research best practices in behavioral research Provides a comprehensive review of the research conducted over the past two decades in behavioral operations including such classic topics as inventory management supply chain contracting forecasting and competitive sourcing Covers a wide range of current topics and applications including supply chain risk responsible and sustainable supply chain health care operations culture and trust Connects existing bodies of behavioral operations literature with related fields including psychology and economics Provides a vision for future behavioral research in operations Written for academicians within the operations management community as well as for behavioral researchers The Handbook of Behavioral Operations offers a comprehensive resource for the study of how individuals make decisions in an operational context with contributions from experts in the field

HEALTHCARE's OUT SICK - PREDICTING A CURE - Solutions that WORK !!!! Gary D. Miner,Linda Miner,Darrell L. Dean,2019-01-04 The U S healthcare system is in complete chaos disarray Medical costs have increased significantly over the past 6 years with 70% increase for deductibles and 24% or more for health insurance premiums All the while workers earnings have either not increased or if they did the pay raises were for less than the increase in the cost of medical care The situation is unsustainable and the public wants the system fixed This book offers ways of fixing the problems in healthcare

HEALTHCARE s OUT SICK PREDICTING A CURE Solutions that WORK first defines the healthcare in crisis problem Through real patient experiences the book describes the difficulties of getting through the maze of complexity among the plethora of silo providers which make up the industry The heart of the book provides readers with a comprehensive solution that can work a disruption that is necessary to provide Americans the medical care they need without the US public and healthcare providers and payors going into bankruptcy insolvency or closure This book delves into digitized medicine payor and provider reimbursement models and value based healthcare delivery It also includes a philosophy or mode of thinking and operation for the solutions that are needed for diagnosis effective cost effective and time efficient healthcare delivery of which digitized medicine value based care and payor reimbursement modes are just some of the factors The authors propose that the real solution involves having the patient at the center of the issues and changing from an archaic gold standard way of thinking to a Predictive Analytic thinking where one gets at the real truth by doing real science that in the end becomes effective not only for the population but for the individual person This all leads to real person centered and person directed medicine and healthcare delivery

Decision Analytics and Optimization in Disease Prevention and Treatment Nan Kong,Shengfan Zhang,2018-02-02 A systematic review of the most current decision models and techniques for disease prevention and treatment Decision Analytics and Optimization in Disease Prevention and Treatment offers a comprehensive resource of the most current decision models and techniques for disease prevention and treatment With contributions from leading experts in the field this important resource presents information on the optimization of chronic disease prevention infectious disease

control and prevention and disease treatment and treatment technology Designed to be accessible in each chapter the text presents one decision problem with the related methodology to showcase the vast applicability of operations research tools and techniques in advancing medical decision making This vital resource features the most recent and effective approaches to the quickly growing field of healthcare decision analytics which involves cost effectiveness analysis stochastic modeling and computer simulation Throughout the book the contributors discuss clinical applications of modeling and optimization techniques to assist medical decision making within complex environments Accessible and authoritative Decision Analytics and Optimization in Disease Prevention and Treatment Presents summaries of the state of the art research that has successfully utilized both decision analytics and optimization tools within healthcare operations research Highlights the optimization of chronic disease prevention infectious disease control and prevention and disease treatment and treatment technology Includes contributions by well known experts from operations researchers to clinical researchers and from data scientists to public health administrators Offers clarification on common misunderstandings and misnomers while shedding light on new approaches in this growing area Designed for use by academics practitioners and researchers Decision Analytics and Optimization in Disease Prevention and Treatment offers a comprehensive resource for accessing the power of decision analytics and optimization tools within healthcare operations research

A Handbook on Multi-Attribute Decision-Making Methods Omid Bozorg-Haddad, Babak Zolghadr-Asli, Hugo A. Loáiciga, 2021-03-04 Clear and effective instruction on MADM methods for students researchers and practitioners A Handbook on Multi Attribute Decision Making Methods describes multi attribute decision making MADM methods and provides step by step guidelines for applying them The authors describe the most important MADM methods and provide an assessment of their performance in solving problems across disciplines After offering an overview of decision making and its fundamental concepts this book covers 20 leading MADM methods and contains an appendix on weight assignment methods Chapters are arranged with optimal learning in mind so you can easily engage with the content found in each chapter Dedicated readers may go through the entire book to gain a deep understanding of MADM methods and their theoretical foundation and others may choose to review only specific chapters Each standalone chapter contains a brief description of prerequisite materials methods and mathematical concepts needed to cover its content so you will not face any difficulty understanding single chapters Each chapter Describes step by step a specific MADM method or in some cases a family of methods Contains a thorough literature review for each MADM method supported with numerous examples of the method s implementation in various fields Provides a detailed yet concise description of each method s theoretical foundation Maps each method s philosophical basis to its corresponding mathematical framework Demonstrates how to implement each MADM method to real world problems in a variety of disciplines In MADM methods stakeholders objectives are expressible through a set of often conflicting criteria making this family of decision making approaches relevant to a wide range of situations A Handbook on Multi Attribute Decision Making

Methods compiles and explains the most important methodologies in a clear and systematic manner perfect for students and professionals whose work involves operations research and decision making

Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis Toshiyuki Sueyoshi, Mika Goto, 2018-03-19 Introduces a bold new model for energy industry pollution prevention and sustainable growth Balancing industrial pollution prevention with economic growth is one of the knottiest problems faced by industry today This book introduces a novel approach to using data envelopment analysis DEA as a powerful tool for achieving that balance in the energy industries the world s largest producers of greenhouse gases It describes a rigorous framework that integrates elements of the social sciences corporate strategy regional economics energy economics and environmental policy and delivers a methodology and a set of strategies for promoting green innovation while solving key managerial challenges to greenhouse gas reduction and business growth In writing this book the authors have drawn upon their pioneering work and considerable experience in the field to develop an unconventional holistic approach to using DEA to assess key aspects of sustainability development The book is divided into two sections the first of which lays out a conventional framework of DEA as the basis for new research directions In the second section the authors delve into conceptual and methodological extensions of conventional DEA for solving problems of environmental assessment in all contemporary energy industry sectors Introduces a powerful new approach to using DEA to achieve pollution prevention sustainability and business growth Covers the fundamentals of DEA including theory statistical models and practical issues of conventional applications of DEA Explores new statistical modeling strategies and explores their economic and business implications Examines applications of DEA to environmental analysis across the complete range of energy industries including coal petroleum shale gas nuclear energy renewables and more Summarizes important studies and nearly 800 peer reviewed articles on energy the environment and sustainability Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis is must reading for researchers academics graduate students and practitioners in the energy industries as well as government officials and policymakers tasked with regulating the environmental impacts of industrial pollution

Applied Risk Analysis for Guiding Homeland Security Policy and Decisions Samrat Chatterjee, Robert T. Brigantic, Angela M. Waterworth, 2021-02-09 Presents various challenges faced by security policy makers and risk analysts and mathematical approaches that inform homeland security policy development and decision support Compiled by a group of highly qualified editors this book provides a clear connection between risk science and homeland security policy making and includes top notch contributions that uniquely highlight the role of risk analysis for informing homeland security policy decisions Featuring discussions on various challenges faced in homeland security risk analysis the book seamlessly divides the subject of risk analysis for homeland security into manageable chapters which are organized by the concept of risk informed decisions methodology for applying risk analysis and relevant examples and case studies Applied Risk Analysis for Guiding Homeland Security Policy and Decisions offers an enlightening overview of risk

analysis methods for homeland security For instance it presents readers with an exploration of radiological and nuclear risk assessment along with analysis of uncertainties in radiological and nuclear pathways It covers the advances in risk analysis for border security as well as for cyber security Other topics covered include strengthening points of entry systems modeling for rapid containment and casualty mitigation and disaster preparedness and critical infrastructure resilience Highlights how risk analysis helps in the decision making process for homeland security policy Presents specific examples that detail how various risk analysis methods provide decision support for homeland security policy makers and risk analysts Describes numerous case studies from academic government and industrial perspectives that apply risk analysis methods for addressing challenges within the U S Department of Homeland Security DHS Offers detailed information regarding each of the five DHS missions prevent terrorism and enhance security secure and manage our borders enforce and administer our immigration laws safeguard and secure cyberspace and strengthen national preparedness and resilience Discusses the various approaches and challenges faced in homeland risk analysis and identifies improvements and methodological advances that influenced DHS to adopt an increasingly risk informed basis for decision making Written by top educators and professionals who clearly illustrate the link between risk science and homeland security policy making Applied Risk Analysis for Guiding Homeland Security Policy and Decisions is an excellent textbook and or supplement for upper undergraduate and graduate level courses related to homeland security risk analysis It will also be an extremely beneficial resource and reference for homeland security policy analysts risk analysts and policymakers from private and public sectors as well as researchers academics and practitioners who utilize security risk analysis methods

Principles of Sequencing and Scheduling Kenneth R. Baker, Dan Trietsch, 2018-10-08 An updated edition of the text that explores the core topics in scheduling theory The second edition of Principles of Sequencing and Scheduling has been revised and updated to provide comprehensive coverage of sequencing and scheduling topics as well as emerging developments in the field The text offers balanced coverage of deterministic models and stochastic models and includes new developments in safe scheduling and project scheduling including coverage of project analytics These new topics help bridge the gap between classical scheduling and actual practice The authors noted experts in the field present a coherent and detailed introduction to the basic models problems and methods of scheduling theory This book offers an introduction and overview of sequencing and scheduling and covers such topics as single machine and multi machine models deterministic and stochastic problem formulations optimization and heuristic solution approaches and generic and specialized software methods This new edition adds coverage on topics of recent interest in shop scheduling and project scheduling This important resource Offers comprehensive coverage of deterministic models as well as recent approaches and developments for stochastic models Emphasizes the application of generic optimization software to basic sequencing problems and the use of spreadsheet based optimization methods Includes updated coverage on safe scheduling lognormal modeling and job selection Provides basic coverage of

robust scheduling as contrasted with safe scheduling Adds a new chapter on project analytics which supports the PERT21 framework for project scheduling in a stochastic environment Extends the coverage of PERT 21 to include hierarchical scheduling Provides end of chapter references and access to advanced Research Notes to aid readers in the further exploration of advanced topics Written for upper undergraduate and graduate level courses covering such topics as scheduling theory and applications project scheduling and operations scheduling the second edition of Principles of Sequencing and Scheduling is a resource that covers scheduling techniques and contains the most current research and emerging topics

Advances in DEA Theory and Applications Kaoru Tone, 2017-06-26 A key resource and framework for assessing the performance of competing entities including forecasting models *Advances in DEA Theory and Applications* provides a much needed framework for assessing the performance of competing entities with special emphasis on forecasting models It helps readers to determine the most appropriate methodology in order to make the most accurate decisions for implementation Written by a noted expert in the field this text provides a review of the latest advances in DEA theory and applications to the field of forecasting Designed for use by anyone involved in research in the field of forecasting or in another application area where forecasting drives decision making this text can be applied to a wide range of contexts including education health care banking armed forces auditing market research retail outlets organizational effectiveness transportation public housing and manufacturing This vital resource Explores the latest developments in DEA frameworks for the performance evaluation of entities such as public or private organizational branches or departments economic sectors technologies and stocks Presents a novel area of application for DEA namely the performance evaluation of forecasting models Promotes the use of DEA to assess the performance of forecasting models in a wide area of applications Provides rich detailed examples and case studies *Advances in DEA Theory and Applications* includes information on a balanced benchmarking tool that is designed to help organizations examine their assumptions about their productivity and performance

Decision Science for Housing and Community Development Michael P. Johnson, Jeffrey M. Keisler, Senay Solak, David A. Turcotte, Armagan Bayram, Rachel Bogardus Drew, 2015-10-12 A multidisciplinary approach to problem solving in community based organizations using decision models and operations research applications A comprehensive treatment of public sector operations research and management science *Decision Science for Housing and Community Development* Localized and Evidence Based Responses to Distressed Housing and Blighted Communities addresses critical problems in urban housing and community development through a diverse set of decision models and applications The book represents a bridge between theory and practice and is a source of collaboration between decision and data scientists and planners advocates and community practitioners The book is motivated by the needs of community based organizations to respond to neighborhood economic and social distress represented by foreclosed abandoned and blighted housing through community organizing service provision and local development The book emphasizes analytic approaches that increase the ability of

local practitioners to act quickly thoughtfully and effectively By doing so practitioners can design and implement responses that reflect stakeholder values associated with healthy and sustainable communities that benefit from increased organizational capacity for evidence based responses and that result in solutions that represent improvements over the status quo according to multiple social outcome measures Featuring quantitative and qualitative analytic methods as well as prescriptive and exploratory decision modeling the book also includes Discussions of the principles of decision theory and descriptive analysis to describe ways to identify and quantify values and objectives for community development Mathematical programming applications for real world problem solving in foreclosed housing acquisition and redevelopment Applications of case studies and community engaged research principles to analytics and decision modeling Decision Science for Housing and Community Development Localized and Evidence Based Responses to Distressed Housing and Blighted Communities is an ideal textbook for upper undergraduate and graduate level courses in decision models and applications humanitarian logistics nonprofit operations management urban operations research public economics performance management urban studies public policy urban and regional planning and systems design and optimization The book is also an excellent reference for academics researchers and practitioners in operations research management science operations management systems engineering policy analysis city planning and data analytics

Meta-heuristic and Evolutionary Algorithms for Engineering Optimization Omid Bozorg-Haddad, Mohammad Solgi, Hugo A. Loáiciga, 2017-08-30 A detailed review of a wide range of meta heuristic and evolutionary algorithms in a systematic manner and how they relate to engineering optimization problems This book introduces the main metaheuristic algorithms and their applications in optimization It describes 20 leading meta heuristic and evolutionary algorithms and presents discussions and assessments of their performance in solving optimization problems from several fields of engineering The book features clear and concise principles and presents detailed descriptions of leading methods such as the pattern search PS algorithm the genetic algorithm GA the simulated annealing SA algorithm the Tabu search TS algorithm the ant colony optimization ACO and the particle swarm optimization PSO technique Chapter 1 of Meta heuristic and Evolutionary Algorithms for Engineering Optimization provides an overview of optimization and defines it by presenting examples of optimization problems in different engineering domains Chapter 2 presents an introduction to meta heuristic and evolutionary algorithms and links them to engineering problems Chapters 3 to 22 are each devoted to a separate algorithm and they each start with a brief literature review of the development of the algorithm and its applications to engineering problems The principles steps and execution of the algorithms are described in detail and a pseudo code of the algorithm is presented which serves as a guideline for coding the algorithm to solve specific applications This book Introduces state of the art metaheuristic algorithms and their applications to engineering optimization Fills a gap in the current literature by compiling and explaining the various meta heuristic and evolutionary algorithms in a clear and systematic manner Provides a step by step presentation of each algorithm and guidelines for practical

implementation and coding of algorithms Discusses and assesses the performance of metaheuristic algorithms in multiple problems from many fields of engineering Relates optimization algorithms to engineering problems employing a unifying approach Meta heuristic and Evolutionary Algorithms for Engineering Optimization is a reference intended for students engineers researchers and instructors in the fields of industrial engineering operations research optimization mathematics engineering optimization and computer science OMID BOZORG HADDAD PhD is Professor in the Department of Irrigation and Reclamation Engineering at the University of Tehran Iran MOHAMMAD SOLGI M Sc is Teacher Assistant for M Sc courses at the University of Tehran Iran HUGO A LO ICIGA PhD is Professor in the Department of Geography at the University of California Santa Barbara United States of America

Sustainable Operations and Supply Chain Management
Valeria Belvedere, Alberto Grando, 2017-01-31 SUSTAINABLE OPERATIONS AND SUPPLY CHAIN MANAGEMENT
SUSTAINABLE OPERATIONS AND SUPPLY CHAIN MANAGEMENT Sustainable Operations and Supply Chain Management addresses the most relevant topics of operations and supply chain management from the perspective of sustainability The main focus is to provide a step by step guide for managerial decisions made along the product life cycle following a path made up of the following steps product design sourcing manufacturing packaging and physical distribution reverse logistics and recovery Guidance is provided on understanding traditional operations and supply chain management approaches tools and techniques such as production planning stock management quality management and performance measurement which can be adapted to achieve economic environmental and social sustainability Key features Repositions the main operations and supply chain management decisions developed in the perspective of the Life Cycle Analysis Cradle to Cradle approach and the Triple Bottom Line approach economic environmental and social sustainability Covers sustainability and future trends sustainable operations as a competitive factor as well as performance measurement and control Explores five main areas of operations and supply chain management design for environment procurement manufacturing packaging and distribution and reverse supply chain Provides a case study within each chapter to further the reader s understanding along with numerous examples and real world problems The book will be valuable for students at undergraduate and graduate levels in management and engineering schools as well as for practitioners working in operations and supply chain management functions

Multi-parametric Optimization and Control Efstratios N. Pistikopoulos, Nikolaos A. Diangelakis, Richard Oberdieck, 2020-11-24 Recent developments in multi parametric optimization and control Multi Parametric Optimization and Control provides comprehensive coverage of recent methodological developments for optimal model based control through parametric optimization It also shares real world research applications to support deeper understanding of the material Researchers and practitioners can use the book as reference It is also suitable as a primary or a supplementary textbook Each chapter looks at the theories related to a topic along with a relevant case study Topic complexity increases gradually as readers progress through the chapters The first part of the book presents an overview of

the state of the art multi parametric optimization theory and algorithms in multi parametric programming The second examines the connection between multi parametric programming and model predictive control from the linear quadratic regulator over hybrid systems to periodic systems and robust control The third part of the book addresses multi parametric optimization in process systems engineering A step by step procedure is introduced for embedding the programming within the system engineering which leads the reader into the topic of the PAROC framework and software platform PAROC is an integrated framework and platform for the optimization and advanced model based control of process systems Uses case studies to illustrate real world applications for a better understanding of the concepts presented Covers the fundamentals of optimization and model predictive control Provides information on key topics such as the basic sensitivity theorem linear programming quadratic programming mixed integer linear programming optimal control of continuous systems and multi parametric optimal control An appendix summarizes the history of multi parametric optimization algorithms It also covers the use of the parametric optimization toolbox POP which is comprehensive software for efficiently solving multi parametric programming problems

Airline Network Planning and Scheduling Ahmed Abdelghany,Khaled Abdelghany,2018-11-20

A concise resource to the best practices and problem solving ideas for understanding the airline network planning and scheduling process Airline Network Planning and Scheduling offers a comprehensive resource that is filled with the industry s best practices that can help to inform decision modeling and the problem solving process Written by two industry experts the book is designed to be an accessible guide that contains information for addressing complex challenges problems and approaches that arise on the job The chapters begin by addressing the complex topics at a broad conceptual level before moving on to more detailed modeling in later chapters This approach follows the standard airline planning process and reflects the duties of the day to day job of network schedule planners To help gain a practical understanding of the information presented each chapter includes exercises and data based on real world case studies In addition throughout the book there are graphs and illustrations as well as information on the most recent advances in airline network and planning research This important resource Takes a practical approach when detailing airline network planning and scheduling practices as opposed to a theoretical perspective Puts the focus on the complexity and main challenges as well as current practices and approaches to problem solving and decision making Presents the information in a logical sequence that begins with broad conceptual topics and gradually delves into more advanced topics that address modeling Contains international standard airline planning processes the day to day responsibilities of the job and outlines the steps taken when building an airline network and schedule Includes numerous case studies exercises graphs and illustrations throughout Written for professionals and academics Airline Network Planning and Scheduling offers a resource for understanding best practices and models as well as the challenges involved with network planning and scheduling

Big Data and Differential Privacy Nii O. Attoh-Okine,2017-05-22 A comprehensive introduction to the theory and practice of contemporary data science analysis for

railway track engineering Featuring a practical introduction to state of the art data analysis for railway track engineering Big Data and Differential Privacy Analysis Strategies for Railway Track Engineering addresses common issues with the implementation of big data applications while exploring the limitations advantages and disadvantages of more conventional methods In addition the book provides a unifying approach to analyzing large volumes of data in railway track engineering using an array of proven methods and software technologies Dr Attoh Okine considers some of today s most notable applications and implementations and highlights when a particular method or algorithm is most appropriate Throughout the book presents numerous real world examples to illustrate the latest railway engineering big data applications of predictive analytics such as the Union Pacific Railroad s use of big data to reduce train derailments increase the velocity of shipments and reduce emissions In addition to providing an overview of the latest software tools used to analyze the large amount of data obtained by railways Big Data and Differential Privacy Analysis Strategies for Railway Track Engineering Features a unified framework for handling large volumes of data in railway track engineering using predictive analytics machine learning and data mining Explores issues of big data and differential privacy and discusses the various advantages and disadvantages of more conventional data analysis techniques Implements big data applications while addressing common issues in railway track maintenance Explores the advantages and pitfalls of data analysis software such as R and Spark as well as the Apache™ Hadoop data collection database and its popular implementation MapReduce Big Data and Differential Privacy is a valuable resource for researchers and professionals in transportation science railway track engineering design engineering operations research and railway planning and management The book is also appropriate for graduate courses on data analysis and data mining transportation science operations research and infrastructure management NII ATTOH OKINE PhD PE is Professor in the Department of Civil and Environmental Engineering at the University of Delaware The author of over 70 journal articles his main areas of research include big data and data science computational intelligence graphical models and belief functions civil infrastructure systems image and signal processing resilience engineering and railway track analysis Dr Attoh Okine has edited five books in the areas of computational intelligence infrastructure systems and has served as an Associate Editor of various ASCE and IEEE journals *Service Systems Engineering and Management* A. Ravi Ravindran, Paul M. Griffin, Vittaldas V. Prabhu, 2018-04-18 Recipient of the 2019 IISE Institute of Industrial and Systems Engineers Joint Publishers Book of the Year Award This is a comprehensive textbook on service systems engineering and management It emphasizes the use of engineering principles to the design and operation of service enterprises Service systems engineering relies on mathematical models and methods to solve problems in the service industries This textbook covers state of the art concepts models and solution methods important in the design control operations and management of service enterprises Service Systems Engineering and Management begins with a basic overview of service industries and their importance in today s economy Special challenges in managing services namely perishability intangibility proximity and

simultaneity are discussed Quality of service metrics and methods for measuring them are then discussed Evaluating the design and operation of service systems frequently involves the conflicting criteria of cost and customer service This textbook presents two approaches to evaluate the performance of service systems Multiple Criteria Decision Making and Data Envelopment Analysis The textbook then discusses several topics in service systems engineering and management supply chain optimization warehousing and distribution modern portfolio theory revenue management retail engineering health systems engineering and financial services Features Stresses quantitative models and methods in service systems engineering and management Includes chapters on design and evaluation of service systems supply chain engineering warehousing and distribution financial engineering healthcare systems retail engineering and revenue management Bridges theory and practice Contains end of chapter problems case studies illustrative examples and real world applications Service Systems Engineering and Management is primarily addressed to those who are interested in learning how to apply operations research models and methods for managing service enterprises This textbook is well suited for industrial engineering students interested in service systems applications and MBA students in elective courses in operations management logistics and supply chain management that emphasize quantitative analysis

Handbook of Healthcare Analytics Tinglong Dai, Sridhar Tayur, 2018-07-30 How can analytics scholars and healthcare professionals access the most exciting and important healthcare topics and tools for the 21st century Editors Tinglong Dai and Sridhar Tayur aided by a team of internationally acclaimed experts have curated this timely volume to help newcomers and seasoned researchers alike to rapidly comprehend a diverse set of thrusts and tools in this rapidly growing cross disciplinary field The Handbook covers a wide range of macro meso and micro level thrusts such as market design competing interests global health personalized medicine residential care and concierge medicine among others and structures what has been a highly fragmented research area into a coherent scientific discipline The handbook also provides an easy to comprehend introduction to five essential research tools Markov decision process game theory and information economics queueing games econometric methods and data science by illustrating their uses and applicability on examples from diverse healthcare settings thus connecting tools with thrusts The primary audience of the Handbook includes analytics scholars interested in healthcare and healthcare practitioners interested in analytics This Handbook Instills analytics scholars with a way of thinking that incorporates behavioral incentive and policy considerations in various healthcare settings This change in perspective a shift in gaze away from narrow local and one off operational improvement efforts that do not replicate scale or remain sustainable can lead to new knowledge and innovative solutions that healthcare has been seeking so desperately Facilitates collaboration between healthcare experts and analytics scholar to frame and tackle their pressing concerns through appropriate modern mathematical tools designed for this very purpose The handbook is designed to be accessible to the independent reader and it may be used in a variety of settings from a short lecture series on specific topics to a semester long course *Applying*

Business Intelligence Initiatives in Healthcare and Organizational Settings Miah, Shah J.,Yeoh, William,2018-07-13 Data analysis is an important part of modern business administration as efficient compilation of information allows managers and business leaders to make the best decisions for the financial solvency of their organizations Understanding the use of analytics reporting and data mining in everyday business environments is imperative to the success of modern businesses Applying Business Intelligence Initiatives in Healthcare and Organizational Settings incorporates emerging concepts methods models and relevant applications of business intelligence systems within problem contexts of healthcare and other organizational boundaries Featuring coverage on a broad range of topics such as rise of embedded analytics competitive advantage and strategic capability this book is ideally designed for business analysts investors corporate managers and entrepreneurs seeking to advance their understanding and practice of business intelligence

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