

# QUANTITATIVE METHODS IN HEALTH CARE MANAGEMENT

TECHNIQUES AND APPLICATIONS

Yasar A. Ozcan

# Quantitative Methods In Health Care Management Techniques And Applications

**Piotr Bilski, Francesca Guerriero**



## **Quantitative Methods In Health Care Management Techniques And Applications:**

Quantitative Methods in Health Care Management Yasar A. Ozcan,2005-08-19 As health care organization leaders use data more consistently in decision making it is important they understand the quantitative methods that help convert data to information Quantitative Methods in Health Care Management provides important insights into the various quantitative methods detailing many different problems and their solutions It contains numerous helpful exhibits and graphics that explain and demonstrate the methods presented It also provides a readable narrative for the manager who wants a high level refresher on quantitative methods

**Quantitative Methods in Health Care Management** Yasar A. Ozcan,2009-04-20 Thoroughly revised and updated for Excel this second edition of Quantitative Methods in Health Care Management offers a comprehensive introduction to quantitative methods and techniques for the student or new administrator Its broad range of practical methods and analysis spans operational tactical and strategic decisions Users will find techniques for forecasting decision making facility location facility layout reengineering staffing scheduling productivity resource allocation supply chain and inventory management quality control project management queuing models for capacity and simulation The book s step by step approach use of Excel and downloadable Excel templates make the text highly practical Praise for the Second Edition The second edition of Dr Ozcan s textbook is comprehensive and well written with useful illustrative examples that give students and health care professionals a perfect toolkit for quantitative decision making in health care on the road for the twenty first century The text helps to explain the complex health care management problems and offer support for decision makers in this field Marion Rauner associate professor School of Business Economics and Statistics University of Vienna Quantitative Methods in Health Care Administration Second Edition covers a broad set of necessary and important topics It is a valuable text that is easy to teach and learn from David Belson professor Department of Industrial Engineering Viterbi School of Engineering University of Southern California

**Operations Research Applications in Health Care Management** Cengiz Kahraman,Y. Ilker Topcu,2017-12-08 This book offers a comprehensive reference guide to operations research theory and applications in health care systems It provides readers with all the necessary tools for solving health care problems The respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts of operations research for the management of operating rooms intensive care units supply chain emergency medical service human resources lean health care and procurement To foster a better understanding the chapters include relevant examples or case studies Taken together they form an excellent reference guide for researchers lecturers and postgraduate students pursuing research on health care management problems The book presents a dynamic snapshot on the field that is expected to stimulate new directions and stimulate new ideas and developments

Handbook of Healthcare System Scheduling Randolph Hall,2011-11-25 This edited volume captures and communicates the best thinking on how to improve healthcare by improving the delivery of services providing care when and where it is needed most through application of

state of the art scheduling systems Over 12 chapters the authors cover aspects of setting appointments allocating healthcare resources and planning to ensure that capacity matches needs for care A central theme of the book is increasing healthcare efficiency so that both the cost of care is reduced and more patients have access to care This can be accomplished through reduction of idle time lessening the time needed to provide services and matching resources to the needs where they can have the greatest possible impact on health Within their chapters authors address 1 Use of scheduling to improve healthcare efficiency 2 Objectives constraints and mathematical formulations 3 Key methods and techniques for creating schedules 4 Recent developments that improve the available problem solving methods 5 Actual applications demonstrating how the methods can be used 6 Future directions in which the field of research is heading Collectively the chapters provide a comprehensive state of the art review of models and methods for scheduling the delivery of patient care for all parts of the healthcare system Chapter topics include setting appointments for ambulatory care and outpatient procedures surgical scheduling nurse scheduling bed management and allocation medical supply logistics and routing and scheduling for home healthcare

*Encyclopedia of Health Services Research* Ross M. Mullner, 2009-05-20 Within two volumes more than 400 signed entries and their associated bibliographies and recommended readings authoritatively cover issues in both the historical and contemporary context of health services research

*Computational Intelligence and Soft Computing Applications in Healthcare Management Science* Gul, Muhammet, Celik, Erkan, Mete, Suleyman, Serin, Faruk, 2020-03-06 In today's modernized world the field of healthcare has seen significant practical innovations with the implementation of computational intelligence approaches and soft computing methods These two concepts present various solutions to complex scientific problems and imperfect data issues This has made both very popular in the medical profession There are still various areas to be studied and improved by these two schemes as healthcare practices continue to develop Computational Intelligence and Soft Computing Applications in Healthcare Management Science is an essential reference source that discusses the implementation of soft computing techniques and computational methods in the various components of healthcare telemedicine and public health Featuring research on topics such as analytical modeling neural networks and fuzzy logic this book is ideally designed for software engineers information scientists medical professionals researchers developers educators academicians and students

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**Essentials of Applied Quantitative Methods for Health Services** James Lewis, Robert McGrath, Lee Seidel, 2011 Essentials of Applied Quantitative Methods for Health Services

Management shows students how to use statistics in all aspects of health care administration Offering careful step by step instructions for calculations using Microsoft Excel this hands on resource begins with basic foundational competencies in statistics and then walks the reader through forecasting designing and analyzing systems and project analysis The text stresses the application of concepts models and techniques and provides problems involving all of the methods It is intended to build a student management and planning tools repertoire Ideal for junior and seniors in baccalaureate level health administration programs as well as first year graduate students in non MBA health administration programs this book requires limited previous knowledge of statistics its mathematical dimension is equal to basic high school algebra

*Effective Methods for Modern Healthcare Service Quality and Evaluation* Manolitzas, Panagiotis, Grigoroudis, Evangelos, Matsatsinis, Nikolaos, Yannacopoulos, Denis, 2016-03-17 Turbulent changes in worldwide economies and decreases in overall quality of life have led to a re evaluation of the current state of health services Improvements in this sector will allow for more efficient healthcare delivery to the public as well as increased patient satisfaction *Effective Methods for Modern Healthcare Service Quality and Evaluation* is an authoritative reference source for the latest research on emerging tools and methodologies for the design of healthcare models providing expert analyses on trouble shooting specific problems in the industry and creating optimal hospital environments Highlighting various perspectives across a range of relevant health services this book is ideally designed for policy makers researchers upper level students and practitioners

*Health Care Benchmarking and Performance Evaluation* Yasar A. Ozcan, 2014-07-01 This new edition continues to emphasize the use of data envelopment analysis DEA to create optimization based benchmarks within hospitals physician group practices health maintenance organizations nursing homes and other health care delivery organizations Suitable for graduate students learning DEA applications in health care as well as for practicing administrators it is divided into two sections covering methods and applications Section I considers efficiency evaluations using DEA returns to scale weight restricted multiplier models non oriented or slack based models including in this edition two versions of non controllable variable models and categorical variable models longitudinal panel evaluations and the effectiveness dimension of performance evaluation A new chapter then looks at new and advanced models of DEA including super efficiency congestion DEA network DEA and dynamic network models Mathematical formulations of various DEA models are placed in end of chapter appendices Section II then looks at health care applications within particular settings chapter by chapter including hospitals physician practices nursing homes and health maintenance organizations HMOs Other chapters then explore home health care and home health agencies dialysis centers community mental health centers community based your services organ procurement organizations aging agencies and dental providers DEA models to evaluate provider performance for specific treatments including stroke mechanical ventilation and perioperative services A new chapter then examines international country based applications of DEA in health care in 16 different countries along with OECD and multi country studies Most of the existing chapters in this

section were expanded with recent applications Included with the book is online access to a learning version of DEA Solver software written by Professor Kaoru Tone which can solve up to 50 DMUs for various DEA models listed in the User s Guide at the end of the book

**Operations Research and Health Care Policy** Gregory S. Zaric, 2013-03-27 Operations research tools are ideally suited to providing solutions and insights for the many problems health policy maker s face Indeed a growing body of literature on health policy analysis based on operations research methods has emerged to address the problems mentioned above and several others The research in this field is often multi disciplinary being conducted by teams that include not only operations researchers but also clinicians economists and policy analysts The research is also often very applied focusing on a specific question driven by a decision maker and many times yielding a tool to assist in future decisions The goal of this volume was to bring together a group of papers by leading experts that could showcase the current state of the field of operations research applied to health care policy There are 18 chapters that illustrate the breadth of this field The chapters use a variety of techniques including classical operations research tools such as optimization queuing theory and discrete event simulation as well as statistics epidemic models and decision analytic models The book spans the field and includes work that ranges from highly conceptual to highly applied An example of the former is the chapter by Kimmel and Schackman on building policy models and an example of the latter is the chapter by Coyle and colleagues on developing a Markov model for use by an organization in Ontario that makes recommendations about the funding of new drugs The book also includes a mix of review chapters such as the chapter by Hutton on public health response to influenza outbreaks and original research such as the paper by Blake and colleagues analyzing a decision by Canadian Blood Services to consolidate services This volume could provide an excellent introduction to the field of operations research applied to health care policy and it could also serve as an introduction to new areas for researchers already familiar with the topic The book is divided into six sections The first section contains two chapters that describe several different applications of operations research in health policy and provide an excellent overview of the field Sections 2 to 4 present policy models in three focused areas Section 5 contains two chapters on conceptualizing and building policy models The book concludes in Section 6 with two chapters describing work that was done with policy makers and presenting insights gained from working directly with policy makers

**Health Program Management** Beaufort B. Longest, Jr., 2014-09-17 Learn how to effectively plan implement and evaluate health programs Health Program Management From Development Through Evaluation Second Edition is a practical and useful introduction to the management of health programs While providing an overview of the current best practices in management the textbook goes beyond simple management techniques teaching students how to develop lead and evaluate their programs to ensure quality outcomes The focus is on the three core management concepts of strategy design and leadership but time is also devoted to describing facilitative management activities integral to successful programs Students will learn techniques for communication decision making quality assurance marketing and program evaluation within the

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**Healthcare IT Transformation** John C. Dodd, 2016-10-04 This book gives examples from healthcare institutions that are using IT automation and innovation to drive change and provides guidance on the strategic direction of HIT over the next five years Improving the delivery of healthcare through HIT is vital for both the economic success of healthcare organizations and the care of the patient but most EMR systems do not have an integrated and architected approach This book provides a detailed approach on how to leverage IT for transformation It also shows how to build upon the experiences of other industries and helps foster innovation by providing a vision of where technology can be an enabler

Data-Guided Healthcare Decision Making Ramalingam Shanmugam, 2023-06-22 How does data evidence matter in decision making in healthcare How do you implement and maintain cost effective healthcare operations Do decision trees help to sharpen decision making This book will answer these questions demystifying the many questions by clearly showing how to analyse data and how to interpret the results vital skills for anyone who will go on to work in health administration in hospitals clinics pharmaceutical or insurance industries Written by an expert in health and medical informatics this book introduces readers to the fundamentals of operational decision making by illustrating the ideas and tools to reach optimal healthcare drawing on numerous healthcare data sets from multiple sources Aimed at an audience of graduate students and lecturers in Healthcare Administration and Business Administration courses and heavily illustrated throughout this book includes up to date concepts new methodologies and interpretations using widely available software Excel Microsoft Mathematics MathSolver and JASP

**Applied Cyber-Physical Systems** Sang C. Suh, U. John Tanik, John N. Carbone, Abdullah Eroglu, 2013-08-13 Applied Cyber Physical Systems presents the latest methods and technologies in the area of cyber physical systems including medical and biological applications Cyber physical systems CPS integrate computing and communication capabilities by monitoring and controlling the physical systems via embedded hardware and computers This book brings together unique contributions from renowned experts on cyber physical systems research and education with applications It also addresses the major challenges in CPS and then provides a resolution with various diverse applications as examples Advanced level students and researchers focused on computer science engineering and biomedicine

will find this to be a useful secondary text book or reference as will professionals working in this field      *101 Deficiencies Which Lead to the Demise of a Healthcare Organization* Sunil Kadakia MD FACC FSCAI CPE,2019-07-17 *101 Deficiencies Which Lead to the Demise of a Healthcare Organization* by Sunil Kadakia MD FACC FSCAI CPE      *Optimizing Emergency Department Throughput* John M. Shiver,David Eitel,2017-07-26 Across the country ambulances are turned away from emergency departments EDs and patients are waiting hours and sometimes days to be admitted to a hospital room Hospitals are finding it hard to get specialist physicians to come to treat emergency patients Our EDs demand a new way of thinking They are not at a tipping point they are at a break      **Computer Systems for Healthcare and Medicine** Piotr Bilski,Francesca Guerriero,2022-09-01 The development of modern civilization leads to us having to solve new problems which did not exist before The contemporary world faces a great challenge of aging societies where the increasing number of citizens requires constant medical attention To ensure safety and wellbeing of elderly people patients in hospitals and disabled persons advanced technologies can be implemented These include both sophisticated data acquisition systems and data processing algorithms aiming at the constant and discreet monitoring of persons whilst raising alarm if immediate attention is required Computer Systems for Healthcare and Medicine presents a novel look at the introduced problems including proposed solutions in the form of automated data acquisition and processing systems which were tested in various environments Characteristic features include a wide range of sensors used to monitor the situation of the person and accurate decision making algorithms often based on the computational intelligence domain Technical topics discussed in the book include application for the healthcare of the following Infrared sensorsMEMSUltra wideband radarsDeep learningDecision treesArtificial neural networksGabor filtersDecision support systems      **Handbook of Research on Healthcare Administration and Management** Wickramasinghe, Nilmini,2016-08-23 Effective healthcare delivery is a vital concern for citizens and communities across the globe The numerous facets of this industry require constant re evaluation and optimization of management techniques The Handbook of Research on Healthcare Administration and Management is a pivotal reference source for the latest scholarly material on emerging strategies and methods for delivering optimal healthcare opportunities and solutions Highlighting issues relating to decision making process optimization and technological applications this book is ideally designed for policy makers administrators students professionals and researchers interested in achieving superior healthcare solutions      **Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing** Roger Lee,2008-08-18 The 9th ACIS International Conference on Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing held in Phuket Thailand on August 6 8 2008 is aimed at bringing together researchers and scientist businessmen and entrepreneurs teachers and students to discuss the numerous fields of computer science and to share ideas and information in a meaningful way This publication captures 20 of the conference s most promising papers and we impatiently await the important contributions that we know these authors will



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