

Sally Brailsford  
Paul Harper  
(eds)

# **Operational Research for Health Policy: Making Better Decisions**

Proceedings of the 31st Annual Conference  
of the European Working Group  
on Operational Research Applied  
to Health Services

Peter Lang

# Operational Research Applied To Health Services

**Cengiz Kahraman, Y. Ilker Topcu**



## **Operational Research Applied To Health Services:**

**Operational Research Applied to Health Services** Duncan Boldy, 1981      **Operational Research for Health Policy**  
EURO Working Group "Operational Research Applied to Health Services." Meeting, 2007      **Operational Research for Health Policy: Making Better Decisions** Paul Harper, 2007  
ORAHS the Working Group on Operational Research Applied to Health Services is a special interest group of EURO the European Association of OR Societies ORAHS meets every year in a different host country The objectives of the group include communication of ideas knowledge and experience concerning the application of Operational Research approaches and methods to problems in the health services area mutual support between members and collaboration on joint projects The 31st meeting of ORAHS was held in 2005 at the University of Southampton UK A total of forty one scientific papers were presented nineteen of which are contained in this volume The application areas covered include resource allocation performance measurement and disease modelling from within Europe and beyond The approaches used range from mathematical optimization simulation and statistical modelling through to soft OR These proceedings provide a broad perspective on current research in this area across Europe and beyond

Proceedings of the ... Meeting of the European Working Group on Operational Research Applied to Health Services (ORAHS). European Working Group on Operational Research Applied to Health Services,      The 39th International Conference of the EURO Working Group Operational Research Applied to Health Services (ORAHS) - 2013, 2015

**Monitoring, Evaluating, Planning Health Services - Proceedings Of The 24th Meeting Of The European Working Group On Operational Research Applied To Health Services** Vanda De Angelis, Nicoletta Ricciardi, Giovanni Storchi, 1999-11-24 This volume is a collection of papers on the application of operational research approaches and methods to problems in the health services      Quantitative Approaches in Health Care Management EURO Working Group "Operational Research Applied to Health Services". Meeting, Kurt Heidenberger, 2003 Health care policy makers are facing the problem of limited expenditures and growing demand Thus quantitative approaches can help solve this urging issue For this reason the EURO Working Group on Operational Research Applied to Health Services ORAHS was formed in 1975 The objectives of the group are communication of ideas knowledge and experience concerning the application of Operational Research approaches and methods to problems in the health services area mutual assistance among members co operation on joint projects inspiration with regard to approaches and attitudes in this field The 27th meeting of this group was hosted by the University of Vienna Austria 2001 This book covers a selection of 18 papers presented at this conference

Operations Research for Health Care in Red Zone Roberto Aringhieri, Francesca Maggioni, Ettore Lanzarone, Melanie Reuter-Opfermann, Giovanni Righini, Maria Teresa Vespucci, 2023-09-04 The book contains selected contributions from the 48th Annual Meeting of the EURO Working Group on Operational Research Applied to Health Services ORAHS 2022 held in Bergamo Italy July 2022 ORAHS 2022 provided a network for researchers involved in the application of systematic and

quantitative analyses to support planning and management in the health services sector with the ultimate goal of pursuing good health and well being It was the ORAHS in the red zone focused on the organization and reaction of health systems in the face of emergency situations such as the COVID pandemic The questions addressed were for example how can hospitals and public authorities react to extreme scenarios by reorganizing their resources How and to what extent do local health systems integrate hospitals to deal with a pandemic How can Decision Support Systems for diagnosis and treatment help when battling a new virus for the first time Contributions included a variety of methodological viewpoints optimization simulation data analysis predictive models decision science mathematical programming machine learning and health services applications hospital management therapy calibration analysis of statistical and epidemiological data minimization of logistics costs This work strongly contributes to the Sustainable Development Goals SDG Programme Operations Research for Health Care Delivery Engineering Xiaolan Xie, Françoise Lorca, Éric Marcon, Centre hospitalier universitaire (Saint-Étienne), École nationale supérieure des mines (Saint-Étienne), Université Jean Monnet (Saint-Étienne), 2009

Operational Research Applied to Health Services in Action Marek Lubicz, 2009 *Research projects and applications of operational research in the German health system* Klaus Hansen, 1975 **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 makers 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

**Operational Research for Emergency Planning in Healthcare: Volume 2** Navonil Mustafee, 2016-01-26 This book presents a selection of studies that have applied Operational Research methods to improve emergency planning in healthcare to include both A E and public health emergencies like epidemic and natural disasters The studies have delved into qualitative Operational Research like Problem Structuring Critical Systems Thinking Soft Systems Methodology and Qualitative System Dynamics and also quantitative techniques such as Monte Carlo Simulation Discrete event Simulation and System Dynamics These techniques have been applied for review and assessment of emergency services for policy formulation and for facilitating broader public engagement in emergency preparedness and response Furthermore this book presents rigorous reviews on the applications of Operational Research in the wider healthcare context This volume focuses mainly on emergency planning at the strategic level whereas volume 1 focuses on planning at the operational level The OR Essentials series presents a unique cross section of high quality research work fundamental to understanding contemporary issues and research across a range of Operational Research OR topics It brings together some of the best research papers from the highly respected journals of the Operational Research Society also published by Palgrave Macmillan

**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

**Operational research applied to health services : a special volume dedicated to the International Conference ORAHS 2007** Xiaolan Xie, 2010

Monitoring, Evaluating, Planning Health Services European Working Group on Operational Research Applied to Health Services. Meeting, N. Ricciardi, G. Storchi, 1999 OR in health services A success or is more research necessary A D Clayden Are inequalities in health care consistent with equity in access P M Mullen How to monitor evaluate and plan medical programmes An approach and an illustration for cardiovascular surgery L Delesie 3D visual simulation platform for the project of a new hospital facility M J Ferriera de Oliveira Health care regionalisation project Development plan and

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**Quantitative Approaches in Health Care Management** EURO Working Group "Operational Research Applied to Health Services". Meeting, Marion Sabine Rauner, Kurt Heidenberger, 2003 Health care policy makers are facing the problem of limited expenditures and growing demand Thus quantitative approaches can help solve this urging issue For this reason the EURO Working Group on Operational Research Applied to Health Services ORAHS was formed in 1975 The objectives of the group are communication of ideas knowledge and experience concerning the application of Operational Research approaches and methods to problems in the health services area mutual assistance among members co operation on joint projects inspiration with regard to approaches and attitudes in this field The 27th meeting of this group was hosted by the University of Vienna Austria 2001 This book covers a selection of 18 papers presented at this conference Contents Jan M H Vissers The Nature and Content of Health Operational Research Penelope M Mullen Should Priorities be Quantified David Clayden Adrian Bonner Establishing and Monitoring Outcomes in Social Care Marten Lagergren The Swedish National Study

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