

1. Record Nr.	UNINA9910298180603321
Titolo	Operations Research Applications in Health Care Management // edited by Cengiz Kahraman, Y. Ilker Topcu
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-65455-1
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XV, 604 p. 99 illus., 42 illus. in color.)
Collana	International Series in Operations Research & Management Science, , 0884-8289 ; ; 262
Disciplina	658.4034
Soggetti	Health care management Health services administration Operations research Decision making Engineering economics Engineering economy Health Care Management Operations Research/Decision Theory Engineering Economics, Organization, Logistics, Marketing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part 1: Overview -- A Taxonomy of Operations Research Studies in Health Care Management -- A Comprehensive Survey on Health Care Management -- Part 2: Medical Units in Hospital -- The Real Time Management of Operating Rooms. Mixed fuzzy clustering for deriving predictive models in intensive care units -- Operations Research for Occupancy Modeling at Hospital Wards and its Integration into Practice -- Part 3: Care Process: Preparedness -- Evaluating Health Care System Efficiency of OECD Countries: A DEA-Based Study -- Health Care Expenditure Prediction in Turkey using Genetic Algorithm based Grey Forecasting Models -- The Impact of Social Networks in Developing and Managing Chronic Care Models -- Part 4: Care Process: Precaution -- The design and planning of organ transplantation networks -- Blood

Supply Chain Management and Future Research Opportunities -- Vaccine Supply Management -- Part 5: Care Process: Diagnosis and Prognosis -- OR Applications in Disease Screening -- Classification of Cancer Data: Analyzing Gene Expression Data Using a Fuzzy Decision Tree Algorithm -- Part 6: Care Process: Treatment -- Efficiency of Diabetes Treatment: Evidence from the UK -- A Multiobjective Solution Method for Radiation Treatment Planning -- Part 7: Medical Issues -- OR Models for Emergency Medical Service (EMS) Management -- Health Informatics -- OR applications in pharmaceutical supply chain management -- A Categorical DEA Framework for Evaluating Medical Tourism Efficiency of "Top Destinations" -- Part 8: Health Care Management -- Health Care Human Resource Planning -- Lean Health Care -- Procurement management in Health Care systems.

Sommario/riassunto

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.
