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Managed Equipment Services as a Conceptual Business Opportunity Model for the GCC with Focus on UAE Jones & Bartlett Learning

Improving healthcare and staying healthy is one of the most discussed and important issues in our society. Technology has played and will play an important role in many aspects of the healthcare system, and it offers new and better ways to solve the key health problems of the new century. This book describes valued contributions of technology for improving hospital and home healthcare, and gives a perspective on how they will influence critical aspects of future medical care. It provides an overview and discussion of trends, presents the state-of-the-art of important research areas, and highlights recent breakthrough results in selected fields, giving an outlook on game-changing developments in the coming decades. The material is arranged in 6 parts and a total of 31 chapters. The healthcare areas addressed are: General advances and trends in healthcare technology, diagnostic imaging, integration of imaging and therapy, molecular medicine, medical information technology and personal healthcare.

**Software Engineering** John Wiley & Sons

The World Health Organization stated that approximately two-thirds of the world’s population lacks adequate access to medical imaging. The scarcity of imaging services in developing regions contributes to a widening disparity of health care and limits global public health programs that require imaging. Radiology is an important component of many global health programs, including those that address tuberculosis, AIDS-related disease, trauma, occupational and environmental exposures, breast cancer screening, and maternal-infant health care. There is a growing need for medical imaging in global health efforts and humanitarian outreach, particularly as an increasing number of academic, government, and non-governmental organizations expand delivery of health care to disadvantaged people worldwide. To systematically deploy clinical imaging services to low-resource settings requires contributions from a variety of disciplines such as clinical radiology, epidemiology, public health, finance, radiation physics, information technology, engineering, and others. This book will review critical concepts for those interested in managing, establishing, or participating in a medical imaging program for resource-limited environments and diverse cross-cultural contexts undergoing imaging technology adaptation.

Medical Innovation in the Changing Healthcare Marketplace Plunkett Research, Ltd.

The success of product line engineering techniques in the last 15 years has popularized the use of software variability as a key modeling approach for describing the commonality and variability of systems at all stages of the software lifecycle. Software product lines enable a family of products to share a common core platform, while allowing for product specific functionality being built on top of the platform. Many companies have exploited the concept of software product lines to increase the resources that focus on highly differentiating functionality and thus improve their competitiveness with higher quality and reusable products and decreasing the time-to-market condition. Many books on product line engineering either introduce specific product line techniques or include brief summaries of industrial cases. From these sources, it is difficult to gain a comprehensive understanding of the various dimensions and aspects of software variability. Here the editors address this gap by providing a comprehensive reference on the notion of variability modeling in the context of software product line engineering, presenting an overview of the techniques proposed for variability modeling and giving a detailed perspective on software variability management. Their book is organized in four main parts, which guide the reader through the various aspects and dimensions of software variability. Part 1 which is mostly written by the editors themselves introduces the major topics related to software variability modeling, thus providing a multi-faceted view of both technological and management issues. Next, part 2 of the book comprises four separate chapters dedicated to research and commercial tools. Part 3 then continues with the most practical viewpoint of the book presenting three different industry cases on how variability is managed in real industry projects. Finally, part 4 concludes the book and encompasses six different chapters on emerging research topics in software variability like e.g. service-oriented or dynamic software product lines, or variability and aspect orientation. Each chapter briefly summarizes “ What you will learn in this chapter ” , so both expert and novice readers can easily locate the topics dealt with. Overall, the book captures the current state of the art and best practices, and indicates important open research challenges as well as possible pitfalls. Thus it serves as a reference for researchers and practitioners in software variability management, allowing them to develop the next set of solutions, techniques and methods in this complicated and yet fascinating field of software engineering.

Consumers, Corporations, and Public Health Plunkett Research, Ltd.

Technology is changing the practice of healthcare by the ways medical information is stored, shared, and accessed. With mobile innovations, new strategies are unfolding to further advance processes and procedures in medical settings. Next-Generation Mobile and Pervasive Healthcare Solutions is an advanced reference

source for the latest research on emerging progress and applications within mobile health initiatives and health informatics. Featuring coverage on a broad range of topics and perspectives such as electronic health records (EHR), clinical decision support systems, and medical ontologies, this publication is ideally designed for professionals and researchers seeking scholarly material on the increased use of mobile health applications.

**Management Engineering** National Academies Press

Plunketts Health Care Industry Almanac is the only complete reference to the American Health Care Industry and its leading corporations. Whatever your purpose for researching the health care field, youll find this massive reference book to be a valuable guide. No other source provides this books easy-to-understand comparisons of national health expenditures, emerging technologies, patient populations, hospitals, clinics, corporations, research, Medicare, Medicaid, managed care, and many other areas of vital importance. Included in the market research sections are dozens of statistical tables covering every aspect of the industry, from Medicare expenditures to hospital utilization, from insured and uninsured populations to revenues to health care expenditures as a percent of GDP. A special area covers vital statistics and health status of the U.S. population. The corporate analysis section features in-depth profiles of the 500 major for-profit firms (which we call The Health Care 500) within the many industry sectors that make up the health care system, from the leading companies in pharmaceuticals to the major managed care companies. Details for each corporation include executives by title, phone, fax, website, address, growth plans, divisions, subsidiaries, brand names, competitive advantage and financial results. Purchasers of either the book or PDF version can receive a free copy of the company profiles database on CD-ROM, enabling key word search and export of key information, addresses, phone numbers and executive names with titles for every company profiled.

Plunkett's Engineering & Research Industry Almanac 2008 WIPO

The general theme of MEDICON 2013 is "Research and Development of Technology for Sustainable Healthcare". This decade is being characterized by the appearance and use of emergent technologies under development. This situation has produced a tremendous impact on Medicine and Biology from which it is expected an unparalleled evolution in these disciplines towards novel concept and practices. The consequence will be a significant improvement in health care and well-fare, i.e. the shift from a reactive medicine to a preventive medicine. This shift implies that the citizen will play an important role in the healthcare delivery process, what requires a comprehensive and personalized assistance. In this context, society will meet emerging media, incorporated to all objects, capable of providing a seamless, adaptive, anticipatory, unobtrusive and pervasive assistance. The challenge will be to remove current barriers related to the lack of knowledge required to produce new opportunities for all the society, while new paradigms are created for this inclusive society to be socially and economically sustainable, and respectful with the environment. In this way, these proceedings focus on the convergence of biomedical engineering topics ranging from formalized theory through experimental science and technological development to practical clinical applications.

**Managing Organizations and Supply Chains by Philips** CRC Press

Software engineering is widely recognized as one of the most exciting, stimulating, and profitable research areas, with a significant practical impact on the software industry. Thus, training future generations of software engineering researchers and bridging the gap between academia and industry are vital to the field. The International Summer School on Software Engineering (ISSSE), which started in 2003, aims to contribute both to training future researchers and to facilitating the exchange of knowledge between academia and industry. This volume consists of chapters originating from a number of tutorial lectures given in 2009, 2010, and 2011 at the International Summer School on Software Engineering, ISSSE, held in Salerno, Italy. The volume has been organized into three parts, focusing on software measurement and empirical software engineering, software analysis, and software management. The topics covered include software architectures, software product lines, model driven software engineering, mechatronic systems, aspect oriented software development, agile development processes, empirical software engineering, software maintenance, impact analysis, traceability management, software testing, and search-based software engineering.

*Digital Strategy Framework* BoD – Books on Demand

Wow your customers . . . with "less." Cut costs-it's a common corporate refrain. But if you constantly slash expenditures, what happens to innovation? How can you stay competitive and satisfy customers? Costovation solves the dilemma of how to spend less and innovate more. The book's revolutionary approach broadens the definition of innovation beyond products to the business model itself. With costovation, you let go of assumptions, take a fresh look at the market, and relentlessly focus on what customers really want. Consider Planet Fitness-it grew to 7.3 million members by concentrating on casual exercisers. Those folks don't care about frills. They want easy, low-cost access to good equipment. Although it's inexpensive to run, Planet Fitness ranks highest in gym satisfaction. Gourmet grocer, Picard, sells only frozen food. With less perishable inventory, they compress costs while delighting a discerning but busy clientele. Packed with examples and interactive exercises, the book explores cost innovation strategies that work for big and small companies alike. From open innovation and cost-sharing to simplifying products and turning waste into new offerings-readers learn how rivals are carving out niches, protecting positions, and dominating industries. Innovation and cost-cutting are not opposites. Combined, they expose untapped opportunities to outsmart and underspend competitors.

**Radiology in Global Health** Springer Science & Business Media

Healthcare Data Analytics and Management help readers disseminate cutting-edge research that delivers insights into the analytic tools, opportunities, novel strategies, techniques and challenges for handling big data, data analytics and management in healthcare. As the rapidly expanding and heterogeneous nature of healthcare data poses challenges for big data analytics, this book targets researchers and bioengineers from areas of machine learning, data mining, data management, and healthcare providers, along with clinical researchers

and physicians who are interested in the management and analysis of healthcare data. Covers data analysis, management and security concepts and tools in the healthcare domain Highlights electronic medical health records and patient information records Discusses the different techniques to integrate Big data and Internet-of-Things in healthcare, including machine learning and data mining Includes multidisciplinary contributions in relation to healthcare applications and challenges

**Project Management Best Practices** John Wiley & Sons

A guide to the trends and leading companies in the engineering, research, design, innovation and development business fields: those firms that are dominant in engineering-based design and development, as well leaders in technology-based research and development.

**Advances in Healthcare Technology** Routledge

This book provides, for the first time, a unified approach to the application of MRI in radiotherapy that incorporates both a physics and a clinical perspective. Readers will find detailed information and guidance on the role of MRI in all aspects of treatment, from dose planning, with or without CT, through to response assessment. Extensive coverage is devoted to the latest technological developments and emerging options. These include hybrid MRI treatment systems, such as MRI-Linac and proton-guided systems, which are ushering in an era of real-time MRI guidance. The past decade has witnessed an unprecedented rise in the use of MRI in the radiation treatment of cancer. The development of highly conformal dose delivery techniques has led to a growing need to harness advanced imaging for patient treatment. With its flexible soft tissue contrast and ability to acquire functional information, MRI offers advantages at all stages of treatment. In documenting the state of the art in the field, this book will be of value to a wide range of professionals. The authors are international experts drawn from the scientific committee of the 2017 MR in RT symposium and the faculty of the ESTRO teaching course on imaging for physicists.

**Health Care Technology** GRIN Verlag

Featuring over 1,300 full-color illustrations, this atlas is a comprehensive, hands-on guide to more than 100 medical procedures most commonly performed in an office setting. The book presents step-by-step instructions and illustrations for each procedure and discusses strategies for avoiding common pitfalls. Each chapter includes ordering information for necessary equipment or supplies, CPT codes, ICD-9 codes, global periods, and average U.S. fees for each procedure. Some chapters also refer the practitioner to patient education handouts that will appear online. A companion Website will offer the fully searchable text, over 100 patient education handouts, and videos of ten common procedures.

**Building the Digital Enterprise** Oxford University Press

Seminar paper from the year 2011 in the subject Business economics - Business Management, Corporate Governance, grade: 2,0, University of Cologne (Unternehmensführung, Organisation und Personal), course: Managing Organizations and Supply Chains, language: English, abstract: Royal Philips Electronics N.V. is a Dutch company that was founded in 1891 and has since then become a major player in the electronic equipment industry. The company is headquartered in Amsterdam and employs 119.001 people worldwide, of which 78% are employed outside the Netherlands. Philips has operations in over 100 countries and identifies the Netherlands, the US, Germany, France, Brazil, Japan and China as their main markets. These countries make up 57.8% of total sales and 82.9% of total assets and are standing mainly in competition with Siemens and General Electronics. From 1990 till last year Philips was in a phase of organizational transformation. Without restructuring the company's portfolio in a simpler way Philips would have had extremely difficulties during the finance crises in 2008. Today the organization represents predominantly a classical Managing Diversity of Mintzberg's five configurations which divides the company's business into three segments: Healthcare, Consumer Lifestyle and Lighting. In the healthcare sector Philips is leader in areas such as cardiac care, acute care and home healthcare. In 2010 Philips' healthcare business was able to generate sales amounting to 8.6 billion EUR. The US is the largest healthcare market currently representing almost 50% of the global market. Philips' consumer and lifestyle business is very broad covering areas such as television, shaving and beauty, multimedia and domestic appliances. Currently this business unit employs approximately 18.400 people worldwide with registered sales of 8.9 billion EUR last year, of which 59.9% were generated in Western Europe and 40.1% in emerging markets. Philips Lighting spans the entire lighting value chain from lighting sources, electronics and controls to full applications and solutions. The company maintains sales and service organization in over 60 countries and runs manufacturing operations in 15 countries worldwide with sales of 7.6 billion EUR in 2010.5

**Innovation Project Management** IGI Global

Increasing costs and higher utilization of resources make the role of process improvement more important than ever in the health care industry. Management Engineering: A Guide to Best Practices for Industrial Engineering in Health Care provides an overview of the practice of industrial engineering (management engineering) in the health care industry. Explaining how to maximize the unique skills of management engineers in a health care setting, the book provides guidance on tried and true techniques that can be implemented easily in most organizations. Filled with tools and documents to help readers communicate more effectively, it includes many examples and case studies that illustrate the proper application of these tools and techniques. Containing the contributions of accomplished healthcare process engineers and process improvement professionals, the book examines Lean, Six Sigma, and other process improvement methodologies utilized by management engineers. Illustrating the various roles an industrial engineer might take on in health care, it provides readers with the practical understanding required to make the most of time-tested performance improvement tools in the health care industry. Suitable for IE students and practicing industrial engineers considering a move into the health care industry, or current healthcare industrial engineers wishing to expand their practice, the text can be used as a reference to explore individual topics, as each of the chapters stands on its own. Also, senior healthcare executives will find that the book provides insights into how the practice of management engineering can provide sustainable improvements in their organizations. To get a good overview of how your organization can best benefit from the efforts of industrial engineers, this book is a must-read.

**XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013** Springer Science & Business Media

This book is a reference guide for healthcare executives and technology providers involved in the ongoing digital transformation of the healthcare sector. The book focuses specifically on the challenges and opportunities for health systems in their journey toward a digital future. It draws from proprietary research and public information, along with interviews with over one hundred and fifty executives in leading health systems such as Cleveland Clinic, Partners, Mayo, Kaiser, and Intermountain as well as numerous technology and retail providers. The authors explore the important role of technology and that of EHR systems, digital health innovators, and big tech firms in the ongoing digital transformation of healthcare. Importantly, the book draws on the accelerated learnings of the healthcare sector during the COVID-19 pandemic in their digital transformation efforts to adopt telehealth and virtual care models. Features of this book: Provides an understanding of the current state of digital transformation and the factors influencing the ongoing transformation of the healthcare sector. Includes interviews with executives from leading health systems. Describes the important role of emerging technologies; EHR

systems, digital health innovators, and more. Includes case studies from innovative health organizations. Provides a set of templates and frameworks for developing and implementing a digital roadmap. Based on best practices from real-life examples, the book is a guidebook that provides a set of templates and frameworks for digital transformation practitioners in healthcare.

**Directory of Corporate Counsel. 2023 Edition** Business Expert Press

Global service-based firms are often 'born global,' and these organizations have developed integrated global strategies based on industry relationships, in order to thrive in new environments. Focusing on these global strategies, this textbook explores the workings of modern service businesses, presenting theoretical management concepts alongside illustrative examples. Original case studies from a range of global sectors, including Starbucks and Facebook, as well as broader studies, such as healthcare in Japan, provide practical insights into the art of thriving as a global business. Written by a leading expert in the field, this multidisciplinary text is a vital read for all scholars and students wishing to view strategic relationships from the focal point of service industries.

**Adaptive Health Management Information Systems: Concepts, Cases, and Practical Applications** National Academies Press

The digital economy is at a tipping point. This practical book defines digital ecosystems, discusses digital design using converging technologies of social networking, mobility, big data and cloud computing, and provides a methods for linking digital technologies together to meet the challenges of building a digital enterprise in the new economy.

**Healthcare Digital Transformation** Springer Science & Business Media

A wave of new health care innovation and growing demand for health care, coupled with uncertain productivity improvements, could severely challenge efforts to control future health care costs. A committee of the National Research Council and the Institute of Medicine organized a conference to examine key health care trends and their impact on medical innovation. The conference addressed the following question: In an environment of renewed concern about rising health care costs, where can public policy stimulate or remove disincentives to the development, adoption and diffusion of high-value innovation in diagnostics, therapeutics, and devices?

**Quality Management in the Imaging Sciences - E-Book** Juris Publishing, Inc.

Master all aspects of quality management and control in today's imaging environment! A true one-of-a-kind text, Quality Management in the Imaging Sciences, 7th Edition provides the information you need to ensure that radiographic equipment operates properly and that it functions within accepted standards. Step-by-step instructions provide a guide to evaluating equipment and documenting results. Also included is coverage of the latest federal regulations, advances in technology, and current QM certification requirements. Written by physics and diagnostic imaging educator Jeffrey Papp, this resource is an excellent tool to help you prepare for the ARRT® Quality Management Advanced Level Examination. Coverage of quality management for all imaging sciences includes X-ray equipment, fluoroscopy, CT, MRI, sonography, and mammography. Step-by-step QM procedures include detailed instructions on how to evaluate imaging equipment, and full-sized sample documentation forms offer practice in recording results. Special icon and bolded type identify federal regulations important to quality management. Learning features include chapter outlines, learning objectives, key terms (with definitions in the glossary), lab experiments, and review questions at the end of each chapter. Useful appendix includes a review of the radiographic quality factors and a listing of agencies, organizations, and committees related to quality control and assurance. Two 160-question practice exams on the Evolve website help you prepare for the ARRT advanced certification examination in Quality Management. NEW! Updated content reflects the latest ARRT® Quality Management certification requirements. NEW! Imaging updates include new technologies, current regulations, and ACR® accreditation requirements.

**MRI for Radiotherapy** Academic Press

This is the first report of the WIPO Patent Landscape Report series in the area of disabilities. It presents research on various assistive devices and technologies, includes an analysis on the geographical distribution of patent protection of these technologies, and features business data on major patent portfolios as well as a round-up of key innovators. Additionally, the report touches on technologies serving the same goals as the Marrakesh Treaty and the Accessible Book Consortium (ABC), namely those facilitating access of visually and hearing impaired persons to published works.