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Green and Smart Technologies for Smart Cities Cengage Learning

The SCORE Assessment methodology, 2020 complements the SCORE Global report on health data and capacity, 2020, and explains how countries were assessed and scored by five interventions and the accompanying elements and indicators.

Research Anthology on Big Data Analytics, Architectures, and Applications IGI Global

This book includes state-of-the-art discussions on various issues and aspects of the implementation, testing, validation, and application of big data in the context of healthcare. The concept of big data is revolutionary, both from a technological and societal well-being standpoint. This book provides a comprehensive reference guide for engineers, scientists, and students studying/involved in the development of big data tools in the areas of healthcare and medicine. It also features a multifaceted and state-of-the-art literature review on healthcare data, its modalities, complexities, and methodologies, along with mathematical formulations. The book is divided into two main sections, the first of which discusses the challenges and opportunities associated with the implementation of big data in the healthcare sector. In turn, the second addresses the mathematical modeling of healthcare problems, as well as current and potential future big data applications and platforms.

Clinical Costing Techniques and Analysis in Modern Healthcare Systems National Academies Press

Stock management and control is a critical element to the success and overall financial well-being of an organization. Through the application of innovative practices and technology, businesses are now able to effectively monitor their operations and manage their inventory by evaluating sales patterns and customer preferences.

The Handbook of Research on Promoting Business Process Improvement Through Inventory Control Techniques is a critical scholarly resource that examines optimization techniques, data mining concepts, and genetic algorithms to manage inventory control. Featuring coverage on a broad range of topics such as logistics and supply chain management, stochastic inventory modelling, and inventory management in healthcare, this book is geared towards academicians, practitioners, and researchers seeking various research methods to get optimal ordering policy.

E-Healthcare Systems and Wireless Communications: Current

and Future Challenges Jones & Bartlett Learning

There has been a dramatic increase in the utilization of wireless technologies in healthcare systems as a consequence of the wireless ubiquitous and pervasive communications revolution. Emerging information and wireless communication technologies in health and healthcare have led to the creation of e-health systems, also known as e-healthcare, which have been drawing increasing attention in the public and have gained strong support from government agencies and various organizations. E-Healthcare Systems and Wireless Communications: Current and Future Challenges explores the developments and challenges associated with the successful deployment of e-healthcare systems. The book combines research efforts in different disciplines including pervasive wireless communications, wearable computing, context-awareness, sensor data fusion, artificial intelligence, neural networks, expert systems, databases, and security. This work serves as a comprehensive reference for graduate students in bioengineering and also provides solutions for medical researchers who are faced with the challenge of designing and implementing a cost-effective pervasive and ubiquitous wireless communication system.

Information and Communication Technologies CRC Press

Sharing healthcare information--including electronic health/medical records (EHRs/EMRs)--among healthcare information systems is necessary for improving the quality of healthcare. However, facilitating data exchange increases privacy threats--due to easier copying and dissemination of healthcare information. We propose a solution that provides privacy protection for patients' EHRs/EMRs disseminated among different authorized healthcare information systems. Our solution builds upon the existing construct named an Active Data Bundle (ADB). In the proposed solution, ADBs keep EHRs/EMRs as sensitive data; include metadata describing sensitive data and prescribing their use; and encompass a policy enforcement engine (called a virtual machine or VM), which controls and manages how its active bundle behaves. The VM enforces ADB's data integrity and ADB's privacy policies (specified as a part of metadata). We first modify the existing design and implementation of the ADB scheme, known as Active Bundles using Trusted Third Party (ABTTP). ABTTP uses ADBs and trusted third parties (TTPs). The latter maintain and provide to ADBs trust values of visited hosts, as well as hash values and decryption keys. Our modification, named Active Data Bundles with Trusted Third Party (ADB-TTP), is only a starting point for significant enhancements and improvements to the ADB scheme proposed by us. They include: (i) using nested VMs in ADB-TTP instead of using single VM in ABTTP, (ii) adding new phases to the ADB lifecycle including ADB auditing and ADB Termination; and (iii) using the eXtensible Access Control Markup Language (XACML) to specify the privacy policies and to enforce them. We also develop a new ADB scheme implementation, known as Active Data Bundles with Multi-Agent System (ADB-MAS). ADB-MAS implements active data bundles as mobile intelligent agents, which eliminate the need for using TTPs. In order to test the effectiveness of different ADB schemes and evaluate their use in healthcare applications, we use a real-life healthcare scenario for dissemination of EHRs in healthcare information systems. We evaluate both ADB-TTP and ADB-MAS using separate testbeds implemented with Java Standard Edition (JDK 1.8) and Java Agent Development Framework (JADE), respectively. We run consistent experiments on both testbeds to evaluate and compare performance for both solutions (the experiments are "consistent" as much as possible in the context of separate

testbed implementations). The evaluation criteria for ADB-TTP and ADB-MAS include rates of data reduction, data disclosure, and successful/unsuccessful data delivery. Our evaluation shows that ADBs are able to protect patient EHRs//EMRs during their dissemination among healthcare providers. The quantitative results show that under different circumstances either ADB-TTP or ADB-MAS is a better protector of data (via so called "evaporation" or "apoptosis" of the most sensitive data). The qualitative conclusions are that ADB-MAS outperforms ADB-TTP in protection of privacy of healthcare data (EHRs/EMRs) because ADB-MAS performs a priori trust verification of destination hosts (to which EHRs/EMRs are delivered by ADBs). Our results demonstrate that ADB-MAS, our new implementations of the ADB scheme, improve the privacy and efficiency of processing of patients' data in healthcare information systems. In the broader area of computing technology, ADB-MAS can be used to prevent privacy violations, including stealing and leaking of sensitive data in diverse distributed computing applications areas, including Internet of Things, Cloud Computing, Opportunistic Resource Utilization Networks (Oppnets), and distributed database systems.

Programs and Services CRC Press

This book focuses on the different aspects of handling big data in healthcare. It showcases the current state-of-the-art technology used for storing health records and health data models. It also focuses on the research challenges in big data acquisition, storage, management and analysis.

For the Record Government Printing Office

Hospital funding plays an important role in strengthening healthcare and medical resources. Utilizing comprehensive costing systems to accommodate clinical and financial data leads to improved patient care both clinically and financially. Clinical Costing Techniques and Analysis in Modern Healthcare Systems provides innovative insights into the connections between statistical information and financial systems within clinical settings. The content within this publication delves into business intelligence, clinical decision making, and electronic health records. It is geared towards medical practitioners and professionals, hospital administrators, and researchers seeking valuable insights centered on clinical variations of healthcare data as well as the role of information systems in linking productivity and performance management.

SCORE for health data technical package Cengage Learning

Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization. With the efficiencies that big data bring to all institutions, data is continuously being collected and analyzed. However, data sets may be too complex for traditional data-processing, and therefore, different strategies must evolve to solve the issue. The field of big data works as a valuable tool for many different industries. The Research Anthology on Big Data Analytics, Architectures, and Applications is a complete reference source on big data analytics that offers the latest, innovative architectures and frameworks and explores a variety of applications within various industries. Offering an international perspective, the applications discussed within this anthology feature global representation. Covering topics such as advertising curricula, driven supply chain, and smart cities, this research anthology is ideal for data scientists, data analysts, computer engineers, software engineers, technologists, government officials, managers, CEOs, professors, graduate students, researchers, and academicians.

DHO Health Science IGI Global

This book focuses on the development and use of interoperability standards related to healthcare information technology (HIT) and provides in-depth discussion of the associated essential aspects. The book explains the principles of conformance, examining how to improve the content of healthcare data exchange standards (including HL7 v2.x, V3/CDA, FHIR, CTS2, DICOM, EDIFACT, and ebXML), the rigor of conformance testing, and the interoperability capabilities of healthcare applications for the benefit of healthcare professionals who use HIT, developers of HIT applications, and healthcare consumers who aspire to be recipients of safe and effective health services facilitated through meaningful use of well-designed HIT. Readers will understand the common terms interoperability, conformance, compliance and

compatibility, and be prepared to design and implement their own complex interoperable healthcare information system. Chapters address the practical aspects of the subject matter to enable application of previously theoretical concepts. The book provides real-world, concrete examples to explain how to apply the information, and includes many diagrams to illustrate relationships of entities and concepts described in the text. Designed for professionals and practitioners, this book is appropriate for implementers and developers of HIT, technical staff of information technology vendors participating in the development of standards and profiling initiatives, informatics professionals who design conformance testing tools, staff of information technology departments in healthcare institutions, and experts involved in standards development. Healthcare providers and leadership of provider organizations seeking a better understanding of conformance, interoperability, and IT certification processes will benefit from this book, as will students studying healthcare information technology.

Compendium of HHS Evaluations and Relevant Other Studies

Springer Nature

The healthcare industry is under privacy attack. The book discusses the issues from the healthcare organization and individual perspectives. Someone hacking into a medical device and changing it is life-threatening. Personal information is available on the black market. And there are increased medical costs, erroneous medical record data that could lead to wrong diagnoses, insurance companies or the government data-mining healthcare information to formulate a medical ' FICO ' score that could lead to increased insurance costs or restrictions of insurance. Experts discuss these issues and provide solutions and recommendations so that we can change course before a Healthcare Armageddon occurs.

Departments of Labor, Health and Human Services, Education, and related agencies appropriations for 1984 CRC Press

When you visit the doctor, information about you may be recorded in an office computer. Your tests may be sent to a laboratory or consulting physician. Relevant information may be transmitted to your health insurer or pharmacy. Your data may be collected by the state government or by an organization that accredits health care or studies medical costs. By making information more readily available to those who need it, greater use of computerized health information can help improve the quality of health care and reduce its costs. Yet health care organizations must find ways to ensure that electronic health information is not improperly divulged. Patient privacy has been an issue since the oath of Hippocrates first called on physicians to "keep silence" on patient matters, and with highly sensitive data--genetic information, HIV test results, psychiatric records--entering patient records, concerns over privacy and security are growing. For the Record responds to the health care industry's need for greater guidance in protecting health information that increasingly flows through the national information infrastructure--from patient to provider, payer, analyst, employer, government agency, medical product manufacturer, and beyond. This book makes practical detailed recommendations for technical and organizational solutions and national-level initiatives. For the Record describes two major types of privacy and security concerns that stem from the availability of health information in electronic form: the increased potential for inappropriate release of information held by individual organizations (whether by those with access to computerized records or those who break into them) and systemic concerns derived from open and widespread sharing of data among various parties. The committee reports on the technological and organizational aspects of security management, including basic principles of security; the effectiveness of technologies for user authentication, access control, and encryption; obstacles and incentives in the adoption of new technologies; and mechanisms for training, monitoring, and enforcement. For the Record reviews the growing interest in electronic medical records; the increasing value of

health information to providers, payers, researchers, and administrators; and the current legal and regulatory environment for protecting health data. This information is of immediate interest to policymakers, health policy researchers, patient advocates, professionals in health data management, and other stakeholders.

Handbook of Research on Promoting Business Process Improvement Through Inventory Control Techniques Springer Nature

This significantly expanded and newest edition of the bestselling HIMSS Dictionary of Health Information Technology Terms, Acronyms, and Organizations has been developed and extensively reviewed by more than 50 industry experts. The fourth edition of this dictionary serves as a quick reference for students, health information technology professionals and healthcare executives to better navigate the ever-growing health IT field. This valuable resource includes more than 3000 definitions, 30 new organizations and 76 new references. Definitions of terms for the information technology and clinical, medical and nursing informatics fields are updated and included. This fourth edition also includes an acronyms list with cross references to current definitions, new word-search capability, and a list of health IT-related associations and organizations, including contact information, mission statements and web addresses. Academic and certification credentials are also included. HIMSS North America, a business unit within HIMSS, positively transforms health and healthcare through the best use of information technology in the United States and Canada. As a cause-based non-profit, HIMSS North America provides thought leadership, community building, professional development, public policy, and events. HIMSS North America represents 64,000 individual members, 640 corporate members, and over 450 non-profit organizations. Thousands of volunteers work with HIMSS to improve the quality, cost-effectiveness, access, and value of healthcare through IT. HIMSS Vision Better health through information technology. HIMSS Mission Globally, lead endeavors optimizing health engagements and care outcomes through information technology.

Cross-Cultural Design. Applications in Business, Communication, Health, Well-being, and Inclusiveness Springer

The Updated and Extensively Revised Guide to Developing Efficient Health Information Management Systems Health Information Management is the most comprehensive introduction to the study and development of health information management (HIM).

Students in all areas of health care gain an unmatched understanding of the entire HIM profession and how it currently relates to the complex and continuously evolving field of health care in the United States. This brand-new Sixth Edition represents the most thorough revision to date of this cornerstone resource. Inside, a group of hand-picked HIM educators and practitioners representing the vanguard of the field provide fundamental guidelines on content and structure, analysis, assessment, and enhanced information. Fully modernized to reflect recent changes in the theory and practice of HIM, this latest edition features all-new illustrative examples and in-depth case studies, along with: Fresh and contemporary examinations of both electronic and print health records, data management, data privacy and security, health informatics and analytics, and coding and classification systems An engaging and user-friendly pedagogy, complete with learning objectives, key terms, case studies, and problems with workable solutions in every chapter Ready-to-use PowerPoint slides for lectures, full lesson plans, and a test bank for turnkey assessments A must-have resource for everyone in health care, Health Information Management, Sixth Edition, puts everything you need at your fingertips.

Beyond the HIPAA Privacy Rule World Health Organization

This book constitutes the refereed proceedings of the 6th IFIP WG 2.14 European Conference on Service-Oriented and Cloud Computing, ESOC 2017, held in Oslo, Norway, in September 2017. The 6 short and 10 full papers presented in this volume were carefully reviewed and selected from 37 submissions. The volume also contains one invited talk in full paper length. The contributions were organized in topical sections named: microservices and containers; security; cloud resources; services; internet of things and

data streams; and industrial applications of service and cloud computing.

Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for Fiscal Year 1990: Department of Health and Human Services CRC Press

Aside from the dramatic effects that the COVID-19 pandemic has had on the lives of people everywhere, it has also triggered and accelerated some important process changes in healthcare. Digital health has become ever more important, supporting test strategies and contact tracing, statistical analysis, prognostic modeling, and vaccination roll-out and documentation. Video calls have become more common, and it seems likely that all these changes will continue to influence healthcare in the longer-term. This book presents the proceedings of dHealth 2021 – the 15th annual conference on Health Informatics Meets Digital Health – held as a virtual conference on 11 & 12 May 2021. The dHealth conference is where research and application meet as equals, and the conference series has been contributing to scientific exchange and networking since 2007. The 2021 edition is the second that has been organized virtually. Each year, this event attracts 300+ participants from academia, industry, government and healthcare organizations, and provides a platform for researchers, practitioners, decision makers and vendors to discuss innovative health informatics and dHealth solutions with the aim of improving the quality and efficiency of healthcare. The 24 papers included here offer an insight into the research on digital health conducted during the COVID-19 crisis, and topics include the management of infectious diseases, telehealth services, standardization and interoperability in healthcare, nursing informatics, data analytics, predictive modeling and digital tools for rare-disease research. The book provides new healthcare insights from both science and practice, and will be of interest to all those working in healthcare.

John Wiley & Sons

The four-volume set LNCS 13311 - 13314 constitutes the refereed proceedings of the 14th International Conference on Cross-Cultural Design, CCD 2022, which was held as part of HCI International 2022 and took place virtually during June 26 - July 1, 2022. The papers included in the HCII-CCD volume set were organized in topical sections as follows: Part I: Cross-Cultural Interaction Design; Collaborative and Participatory Cross-Cultural Design; Cross-Cultural Differences and HCI; Aspects of Intercultural Design Part II: Cross-Cultural Learning, Training, and Education; Cross-Cultural Design in Arts and Music; Creative Industries and Cultural Heritage under a Cross-Cultural Perspective; Cross-Cultural Virtual Reality and Games Part III: Intercultural Business Communication; Intercultural Business Communication; HCI and the Global Social Change Imposed by COVID-19; Intercultural Design for Well-being and Inclusiveness Part IV: Cross-Cultural Product and Service Design; Cross-Cultural Mobility and Automotive UX Design; Design and Culture in Social Development and Digital Transformation of Cities and Urban Areas; Cross-Cultural Design in Intelligent Environments.

Big Data in ehealthcare Springer Nature

In the realm of health care, privacy protections are needed to preserve patients' dignity and prevent possible harms. Ten years ago, to address these concerns as well as set guidelines for ethical health research, Congress called for a set of federal standards now known as the HIPAA Privacy Rule. In its 2009 report, Beyond the HIPAA Privacy Rule: Enhancing Privacy, Improving Health Through Research, the Institute of Medicine's Committee on Health Research and the Privacy of Health Information concludes that the HIPAA Privacy Rule does not protect privacy as well as it should, and that it impedes important health research. Executive Office of Health and Human Services National Academies Press

The book starts with an overview of the role of cities in climate change and environmental pollution worldwide, followed by the

concept description of smart cities and their expected features, focusing on green technology innovation. This book explores the energy management strategies required to minimize the need for huge investments in high-capacity transmission lines from distant power plants. A new range of renewable energy technologies modified for installation in cities like small wind turbines, micro-CHP and heat pumps are described. The overall objective of this book is to explore all the green and smart technologies for designing green smart cities.

Departments of Labor and Health, Education, and Welfare and Related Agencies Appropriations for Fiscal Year 1977 Springer

The highly respected DHO HEALTH SCIENCE continues to provide an all-in-one resource to build student excitement about the vast possibilities for a future in healthcare as well as covering introductory knowledge and skills in the health science curriculum. Organized in two parts, the text opens with foundational information required to enter a broad range of health professions, including infection control, first aid, legal requirements, and professionalism. Part two covers fundamental entry-level skills for a range of specific careers, including medical assisting, dental assisting, nursing assisting and more. Carefully revised to include current medical issues and technology from the Opioid Epidemic to frozen Stem Cells, the Ninth Edition is updated to current National Healthcare Foundation Standards, HIPPA and OBRA requirements, as well as HOSA student competitions. The ninth edition has also added NEW Case Study Investigations that bookend each chapter and offer students a chance to bring newly learned knowledge to help analyze patient scenarios and make recommendations. Prepare future health care professionals with an extensive learning package that includes an online teacher ' s resource kit and instructor ' s manual, student workbook, and MindTap, the online learning solution that includes hands-on Learning Lab simulations where concepts come to life via learning activities and videos of patients and medical professionals in decision-making scenarios. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Massachusetts register 5starcooks

Your all-in-one resource for quantitative, qualitative, and spatial analyses in Excel® using current real-world healthcare datasets.

Health Services Research and Analytics Using Excel® is a practical resource for graduate and advanced undergraduate students in programs studying healthcare administration, public health, and social work as well as public health workers and healthcare managers entering or working in the field. This book provides one integrated, application-oriented resource for common quantitative, qualitative, and spatial analyses using only Excel. With an easy-to-follow presentation of qualitative and quantitative data, students can foster a balanced decision-making approach to financial data, patient statistical data and utilization information, population health data, and quality metrics while cultivating analytical skills that are necessary in a data-driven healthcare world. Whereas Excel is typically considered limited to quantitative application, this book expands into other Excel applications based on spatial analysis and data visualization represented through 3D Maps as well as text analysis using the free add-in in Excel. Chapters cover the important methods and statistical analysis tools that a practitioner will face when navigating and analyzing data in the public domain or from internal data collection at their health services organization. Topics covered include importing and working with data in Excel; identifying, categorizing, and presenting data; setting bounds and hypothesis testing; testing the mean; checking for patterns; data visualization and spatial analysis; interpreting variance; text analysis; and much more. A concise overview of research design also provides helpful background on how to gather and measure useful data prior to analyzing in Excel. Because Excel is the most common data analysis software used in the workplace setting, all case examples,

exercises, and tutorials are provided with the latest updates to the Excel software from Office365 ProPlus® and newer versions, including all important “ Add-ins ” such as 3D Maps, MeaningCloud, and Power Pivots, among others. With numerous practice problems and over 100 step-by-step videos, Health Services Research and Analytics Using Excel® is an extremely practical tool for students and health service professionals who must know how to work with data, how to analyze it, and how to use it to improve outcomes unique to healthcare settings. Key Features: Provides a competency-based analytical approach to health services research using Excel Includes applications of spatial analysis and data visualization tools based on 3D Maps in Excel Lists select sources of useful national healthcare data with descriptions and website information Chapters contain case examples and practice problems unique to health services All figures and videos are applicable to Office365 ProPlus Excel and newer versions Contains over 100 step-by-step videos of Excel applications covered in the chapters and provides concise video tutorials demonstrating solutions to all end-of-chapter practice problems Robust Instructor ancillary package that includes Instructor ' s Manual, PowerPoints, and Test Bank