Medical Informatics Computer Applications In Health Care

Helmuth F. Orthner,Bruce I. Blum

Medical Informatics Computer Applications In Health Care:

   Biomedical Informatics Edward H. Shortliffe,James J. Cimino,2013-12-02 The practice of modern medicine and biomedical research requires sophisticated information technologies with which to manage patient information plan diagnostic procedures interpret laboratory results and carry out investigations Biomedical Informatics provides both a conceptual framework and a practical inspiration for this swiftly emerging scientific discipline at the intersection of computer science decision science information science cognitive science and biomedicine Now revised and in its third edition this text meets the growing demand by practitioners researchers and students for a comprehensive introduction to key topics in the field Authored by leaders in medical informatics and extensively tested in their courses the chapters in this volume constitute an effective textbook for students of medical informatics and its areas of application The book is also a useful reference work for individual readers needing to understand the role that computers can play in the provision of clinical services and the pursuit of biological questions The volume is organized so as first to explain basic concepts and then to illustrate them with specific systems and technologies   *Medical Informatics* Edward Hance Shortliffe,Leslie E. Perreault,2001 Inspired by a Stamford University training program developed to introduce health professional to computer applications in medical care Medical Informatics provides practitioners researchers and students with a comprehensive introduction to key topics in computers and medicine   **Medical Informatics** G. Wiederhold,Edward H. Shortliffe,L.M. Fagan,Leslie E. Perreault,2013-11-11 This series is directed to healthcare professionals who are leading the transfor mation of health care by using information and knowledge Launched in 1988 as Computers in Health Care the series offers a broad range of titles some ad dressed to specific professions such as nursing medicine and health adminis tration others to special areas of practice such as trauma and radiology Still other books in the series focus on interdisciplinary issues such as the computer based patient record electronic health records and networked healthcare systems Renamed Health Informatics in 1998 to reflect the rapid evolution in the dis cipline now known as health informatics the series continues to add titles that contribute to the evolution of the field In the series eminent experts serving as editors or authors offer their accounts of innovations in health informatics In creasingly these accounts go beyond hardware and software to address the role of information in influencing the transformation of healthcare delivery systems around the world The series also increasingly focuses on peopleware and the organizational behavioral and societal changes that accompany the diffusion of information technology in health services environments   **Biomedical Informatics** Edward H. Shortliffe,2006-05-25 This book focuses on the role of computers in the provision of medical services It provides both a conceptual framework and a practical approach for the implementation and management of IT used to improve the delivery of health care Inspired by a Stanford University training program it fills the need for a high quality text in computers and medicine It meets the growing demand by practitioners researchers and students for a comprehensive introduction to key topics in the field Completely revised and expanded this

work includes several new chapters filled with brand new material   *Medical Informatics* Edward Hance Shortliffe,Leslie E. Perreault,1990   **Pediatric Informatics** Christoph Lehmann,George R. Kim,Kevin B. Johnson,2009-07-16 Now is a critical time in pediatric informatics As information technologies electronic health records EHRs personal health records PHRs computerized physician order entry CPOE and standards HL7 are developed to improve the quality of health care it is imperative for policy makers and pediatricians to be aware of their impact on pediatric care and child health Informed child advocates must be at the planning table as national and regional health information networks are developed to insure the unique health care needs of children are being met Pediatric Informatics Computer Applications in Child Health is a current digest of the important trends in pediatric informatics written by leading experts in the field This book explores how the management of biomedical data information and knowledge can optimize and advance child health The contributors investigate the specific importance of pediatric informatics is derived from the biological psychological social and cultural needs that the distinguish children from other populations These distinctions create complexities in the management of pediatric data and information that make children a vulnerable population and require the development of a new body of knowledge in pediatric informatics   *Eighteenth Annual Symposium on Computer Applications in Medical Care* American Medical Informatics Association,1994   **Essentials of Computers for Nurses** Virginia K. Saba,Kathleen Ann McCormick,2001 The best selling nurses guide to understanding and using computers in the workplace now revised and completely up to date New edition discusses the increasing use of specialized software within nursing curriculums Examines use of the Internet as a powerful research tool the way computers are changing the practice of nursing and the NCLEX telemedicine and more   **Evaluating the Organizational Impact of Health Care Information Systems** James G. Anderson,Carolyn Aydin,2006-04-07 Evaluating the Organizational Impact of Health Care Information Systems Second Edition is heavily updated and revised from its First Edition which is entitled Evaluating Health Care Information Systems Methods and Applications The much needed Second Edition is a guide for evaluating the organizational impacts of computer systems in health care institutions It provides a practical guide for determining the appropriate questions to ask based on underlying models of change and the most effective methods available An introduction to various methods is provided as well as appendices containing survey instruments usable in research and evaluation computer programs for data analyses and other evaluation resources The book provides a critical overview of current research and evaluation to date with numerous bibliographic references from health care and other fields The methods and instruments described are applicable to a wide variety of other organizations that utilize information technology and they emphasize the importance of clearly specifying the purpose of the evaluation recognizing assumptions about organizational change and using a multi method approach to system evaluation The material presented is drawn from a variety of social and health science disciplines in order to integrate the study of information system with social science theory and methods Chapter highlights include Cognitive

Approaches to Evaluation Computer Simulation as an Evaluation Tool and Research and Evaluation Future Directions Evaluating the Organizational Impact of Health Care Information Systems Second Edition is timely since annual investment in information technology by health care organization in the U S now exceeds 15 billion It will prove valuable to physicians nurses other health care providers health care administrators information systems personnel and consultants who are involved in planning developing implementing utilizing and evaluating computer based health care systems **Knowledge Engineering in Health Informatics** Homer R. Warner,Dean K. Sorenson,Omar Bouhaddou,2013-05-16 The information explosion in recent decades has made it impossible for practicing physicians even specialists to keep up with all the information potentially at their disposal As a result it is not surprising that empirical studies have shown that physicians do not always make optimal decisions Thus medical expert systems are now available to support not replace physicians and healthcare providers in their goal of providing the best possible healthcare to every patient Knowledge Engineering in Health Informatics is a guide to the creation of such systems Presenting the core material for courses such as Medical Knowledge Engineering and Expert System Development it allows non experts to make diagnostic decisions with the precision and accuracy of medical experts thanks to the help of the computer **Proceedings** Judy G. Ozbolt,1994 **Biomedical Informatics** Edward H. Shortliffe,James J. Cimino,2021-05-31 This 5th edition of this essential textbook continues to meet the growing demand of practitioners researchers educators and students for a comprehensive introduction to key topics in biomedical informatics and the underlying scientific issues that sit at the intersection of biomedical science patient care public health and information technology IT Emphasizing the conceptual basis of the field rather than technical details it provides the tools for study required for readers to comprehend assess and utilize biomedical informatics and health IT It focuses on practical examples a guide to additional literature chapter summaries and a comprehensive glossary with concise definitions of recurring terms for self study or classroom use Biomedical Informatics Computer Applications in Health Care and Biomedicine reflects the remarkable changes in both computing and health care that continue to occur and the exploding interest in the role that IT must play in care coordination and the melding of genomics with innovations in clinical practice and treatment New and heavily revised chapters have been introduced on human computer interaction mHealth personal health informatics and precision medicine while the structure of the other chapters has undergone extensive revisions to reflect the developments in the area The organization and philosophy remain unchanged focusing on the science of information and knowledge management and the role of computers and communications in modern biomedical research health and health care **Implementing Health Care Information Systems** Helmuth F. Orthner,Bruce I. Blum,2012-12-06 This series in Computers and Medicine had its origins when I met Jerry Stone of Springer Verlag at a SCAMC meeting in 1982 We determined that there was a need for good collections of papers that would help disseminate the results of research and application in this field I had already decided to do what is now Information Systems for Patient Care

and Jerry contributed the idea of making it part of a series In 1984 the first book was published and thanks to Jerry s efforts Computers and Medicine was underway Since that time there have been many changes Sadly Jerry died at a very early age and cannot share in the success of the series that he helped found On the bright side however many of the early goals of the series have been met As the result of equipment improvements and the consequent lowering of costs com puters are being used in a growing number of medical applications and the health care community is very computer literate Thus the focus of concern has turned from learning about the technology to understanding how that technology can be exploited in a medical environment **Pediatric Biomedical Informatics** John J. Hutton,2012-12-13 Advances in the biomedical sciences especially genomics proteomics and metabolomics taken together with the expanding use of electronic health records are radically changing the IT infrastructure and software applications needed to support the transfer of knowledge from bench to bedside Pediatric Biomedical Informatics Computer Applications in Pediatric Research describes the core resources in informatics necessary to support biomedical research programs and how these can best be integrated with hospital systems to receive clinical information that is necessary to conduct translational research The focus is on the authors recent practical experiences in establishing an informatics infrastructure in a large research intensive children s hospital This book is intended for translational researchers and informaticians in pediatrics but can also serve as a guide to all institutions facing the challenges of developing and strengthening informatics support for biomedical research The first section of the book discusses important technical challenges underlying computer based pediatric research while subsequent sections discuss informatics applications that support biobanking and a broad range of research programs Pediatric Biomedical Informatics provides practical insights into the design implementation and utilization of informatics infrastructures to optimize care and research to benefit children Dr John Hutton is the Vice President and Director of Biomedical Informatics at Cincinnati Children s Hospital Medical Center Cincinnati OH USA He is also Professor of Pediatrics and Associate Dean for Information Services at the University of Cincinnati College of Medicine **Transforming Information, Changing Health Care** Judy G. Ozbolt,1994 **Informatics and Telematics in Health** World Health Organization,1988 This report focuses on technical issues associated with informatics a term covering all aspects of the development and operations of information systems the supporting computer methodology and technology and the supporting telecommunications links The first of six chapters discusses the purpose of the report together with basic assumptions about health care systems as related to informatics and the use of computer based information processing and transfer in telecommunications key computer applications in health and current trends in these rapidly evolving technologies as they apply to health Subsequent chapters deal with national health informatics policy and strategy informatics support for health programs and in the provision of health care informatics for health manpower development and the choice of informatics technology It is concluded that informatics will be increasingly used in all organizations and that its use must be managed Three annexes contain a list of

participants in the international consultation on application of informatics brief descriptions of sample curricula and an eight page glossary CGD   *Medical Devices and Systems* Joseph D. Bronzino,2006-04-19 Over the last century medicine has come out of the black bag and emerged as one of the most dynamic and advanced fields of development in science and technology Today biomedical engineering plays a critical role in patient diagnosis care and rehabilitation More than ever biomedical engineers face the challenge of making sure that medical d   *Ethics, Computing, and Medicine* Kenneth W. Goodman,1998 New technology always raises compelling ethical questions As those in medicine increasingly depend on computers and other intelligent machines the intersection of ethics computing and the health professions grows much more complex and significant This book attempts systematically to identify and address the full range of ethical issues that arise when intelligent machines are used in medicine nursing psychology and allied health professions It maps and explores a variety of important issues and controversies including ethics and evaluation in computational medicine patient and provider confidentiality responsibility for use of computers in medicine appropriate use of decision support systems outcomes of research and computational prognosis including mortality predictions and computer based biomedical research especially meta analysis This book is accessible to participants in the fields of bioethics and medical informatics It is appropriate for physicians nurses administrators ethicists health attorneys advanced undergraduates and graduate students   *Computer Applications for Patient Care* Joseph D. Bronzino,1982   **Eighteenth Annual Symposium on Computer Applications in Medical Care** Judy Ozbolt,1994

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