Computer Applications In Medical Care

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Sixteenth Annual Symposium on Computer Applications in Medical Care Mark E. Frisse 1993
Web-Based Applications in Healthcare and Biomedicine Athina A. Lazakidou 2009-12-18 Web-based applications provide the power of desktop and server applications with the exibility and accessibility of the web. Using web browsers, users can securely access applications from anywhere within the reach of the company intranet or extranet. The special issue strives to explore the advanced web-based information systems and database applications in healthcare area. Healthcare organizations are undergoing major reorganizations and adjustments to meet the increasing demands of improved healthcare access and quality, as well as lowered costs. As the use of information technology to process medical data increases, much of the critical information necessary to meet these challenges is being stored in digital format. Web-enabled information technologies can provide the means for greater access and more effective integration of healthcare information from disparate computer applications and other information resources. This book presents studies from leading researchers and practitioners focusing on the current challenges, directions, trends, and opportunities associated with heal- care organizations and their strategic use of web-enabled technologies. Managing healthcare information systems with web-enabled technologies is an excellent ve- cle for understanding current and potential uses of Internet technology in the broad areas of healthcare and medical applications.

Medical Informatics Edward H. Shortliffe 2013-11-11 The practice of modern medicine requires sophisticated information technologies with which to manage patient information, plan diagnostic procedures, interpret laboratory results, and conduct research. Designed for a broad audience, this book fills the need for a high quality reference in computers and medicine, first explaining basic concepts, then illustrating them with specific systems and technologies. Medical Informatics provides both a conceptual framework and a practical inspiration for this swiftly emerging scientific discipline. The second edition covers system design and engineering, ethics of health informatics, system evaluation and technology assessment, public health and consumer use of health information, and healthcare financing.

Pediatric Informatics Christoph Lehmann 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. Evaluating Health Care Information Systems James G. Anderson 1994 "In a major if not the keystone contribution to the literature on system evaluation, James G. Anderson, Carolyn E. Aydin, and Stephen J. Jay have edited a volume that reviews a number of evaluation approaches and applications." --Physicians and Computers "It has been a great pleasure to read your book, Evaluating Health Care Information Systems. There is a great need for a book like this in Europe, and I think it will be useful to many. We have just started a new program on health care informatics at Aalborg University, and we are planning to use your book in this program." -- Christian Nohr, Department of Development and Planning, Research Group Technology and Society, Aalborg University Health care organizations have become increasingly reliant on information systems. They have also become more aware of the potential pitfalls when integrating a computer system into a complex organizational structure. From cost factors to personnel problems, evaluating the impact of information systems requires an understanding of behavioral processes as well as computer technology. Drawing on more than a decade of multi-method research, Evaluating Health Care Information Systems provides a guide for evaluating the impact of computerized information systems on the structure and function of health care organizations. Chapters provide a practical overview of established research guidelines for sampling, data collection procedures and instruments, and analytic techniques. Utilizing a pluralistic approach, this practical volume also includes organizational evaluation methods such as direct observations, archival data use, interviewing strategies, survey research, experimental research methods, simulation, social network, and cost-benefit analysis. Well-known contributors from sociology, anthropology, psychology, communication, and the administrative and health sciences provide both a conceptual and methodological framework. This timely volume is an essential tool for students and scholars who recognize the increasing importance of studying and evaluating the use and impact of information

systems. It is also an invaluable guide for professionals such as computer system developers, administrators, and health care policy analysts.

Computer Applications to Hospitals, Medical, and Health Care Indian Society of Health Administrators 1997
Computer Applications in Medical Care IEEE Computer Society 1986
Computer Applications in Health Care 1979
Computer Applications in Occupational Therapy Florence S. Cromwell 1986 Here is an invaluable book that provides you with a comprehensive introduction and exploration of the present and future issues of computer use in occupational therapy. This practical book will serve as a resource--to the novice, the experienced, and the student-- regarding the often overwhelming world of microcomputer use in your profession. Computer Applications in Occupational Therapy will serve as your source of answers to the questions you may have regarding the often overwhelming world of microcomputer usage in your field. Occupational therapy professionals explore such topics as the impact of this new technology on rehabilitation, robotics and the disabled, and the computer as an administrative tool and as an educational tool. With this practical guide, you can learn how to best use the computer for your specific needs and avoid the pitfalls that many encounter when first using the computer.
Computer Applications in Medical Care I E E E * Standards
Proceedings : the thirteenth annual Symposium on Computer Applications in Medical Care
Pervasive Computing in Healthcare Alex Mihailidis 2019-08-30 With skyrocketing costs due to the increase in the elderly population, a rapid increase in lifestyle-related and chronic diseases, demand for new medical treatments and technologies, and a shortage in the number of available clinicians, nurses, and other caregivers, the challenges facing the healthcare industry seem insurmountable. However, by transforming the current model into a more distributed and highly responsive healthcare processing model, patients can take control of their own health in the form of wellness management, preventive care, and proactive intervention. Pioneering the concepts of this newly emerging field, Pervasive Computing in Healthcare provides an introduction to and is the first known comprehensive resource on the application of pervasive computing in healthcare. The book begins with an overview of healthcare, diseases, disabilities, and computer science principles. It describes challenges in using computers in large, modern hospitals, how current software and hardware technology is evolving to meet these challenges, and new pervasive technologies for people with cognitive disabilities. Identifying the main usage models and applications for mobile and personal health, the book explores sensors and wearable technologies. It also examines current research in assistive technologies, challenges associated with human factors and the usability of healthcare systems, and methods for technology innovation. The book concludes by presenting user evaluations with a special focus on real-world deployment and assessment of the technology. Pervasive healthcare is an exciting emerging research area that is bound to play an important role in an increasingly aging society. Providing a solid foundation on which current and future researchers and practitioners can build and use to further their

endeavours, Pervasive Computing in Healthcare addresses a set of related technologies and concepts that help integrate healthcare more seamlessly

Eighteenth Annual Symposium on Computer Applications in Medical Care Judy G. Ozbolt 1994

Selected Bibliography and Abstracts for Ambulatory Health Care Computer Applications Health Care Management Systems 1975 Over 2500 references to English-language literature consisting mostly of journal articles, but also including books and reports. Entries derived from Index medicus, Hospital literature index, and other sources pertinent to hospitals, ambulatory medical care, and computers. Alphabetical arrangement by primary authors. Many abstracts. Classified index.

Cloud Computing Systems and Applications in Healthcare Bhatt, Chintan M. 2016-08-30 The implementation of cloud technologies in healthcare is paving the way to more effective patient care and management for medical professionals around the world. As more facilities start to integrate cloud computing into their healthcare systems, it is imperative to examine the emergent trends and innovations in the field. Cloud Computing Systems and Applications in Healthcare features innovative research on the impact that cloud technology has on patient care, disease management, and the efficiency of various medical systems. Highlighting the challenges and difficulties in implementing cloud technology into the healthcare field, this publication is a critical reference source for academicians, technology designers, engineers, professionals, analysts, and graduate students.

Proceedings Judy G. Ozbolt 1994
Proceedings Paul D. Clayton 1992
Networking Health National Research Council 2000-07-12 Consumer health websites have garnered considerable media attention, but only begin to scratch the surface of the more pervasive transformations the Internet could bring to health and health care. Networking Health examines ways in which the Internet may become a routine part of health care delivery and payment, public health, health education, and biomedical research. Building upon a series of site visits, this book: Weighs the role of the Internet versus private networks in uses ranging from the transfer of medical images to providing video-based medical consultations at a distance. Reviews technical challenges in the areas of quality of service, security, reliability, and access, and looks at the potential utility of the next generation of online technologies. Discusses ways health care organizations can use the Internet to support their strategic interests and explores barriers to a broader deployment of the Internet. Recommends steps that private and public sector entities can take to enhance the capabilities of the Internet for health purposes and to prepare health care organizations to adopt new Internet-based applications.

Computer Applications in Health Care National Center for Health Services Research. Medical Information Systems Cluster 1979

Computer Applications for the Medical Office Barbara A. Gylys 1991 A comb-bound text, with disks, for interactive learning of various aspects of computerized management of a medical office. The simulations are self paced and cover concepts and techniques of billing and collections, insurance processing, building databases, entering patient records, and generating financial and productivity reports. The software is a simplified version of Medical Care

Basic Management and is configured for PCs. Annotation copyrighted by Book News, Inc., Portland, OR

The Computer-Based Patient Record Committee on Improving the Patient Record 1997-10-28 Most industries have plunged into data automation, but health care organizations have lagged in moving patients' medical records from paper to computers. In its first edition, this book presented a blueprint for introducing the computer-based patient record (CPR). The revised edition adds new information to the original book. One section describes recent developments, including the creation of a computer-based patient record institute. An international chapter highlights what is new in this still-emerging technology. An expert committee explores the potential of machine-readable CPRs to improve diagnostic and care decisions, provide a database for policymaking, and much more, addressing these key questions: Who uses patient records? What technology is available and what further research is necessary to meet users' needs? What should government, medical organizations, and others do to make the transition to CPRs? The volume also explores such issues as privacy and confidentiality, costs, the need for training, legal barriers to CPRs, and other key topics. *Proceedings* Randolph Miller 1990 *Computational Intelligence and Its Applications in Healthcare* Jitendra Kumar Verma 2020-08-01 Computational Intelligence and Its Applications in Healthcare presents rapidly growing applications of computational intelligence for healthcare systems, including intelligent synthetic characters, man-machine interface, menu generators, user acceptance analysis, pictures archiving, and communication systems. Computational intelligence is the study of the design of intelligent agents, which are systems that act intelligently: they do what they think are appropriate for their circumstances and goals; they're flexible to changing environments and goals; they learn from experience; and they make appropriate choices given perceptual limitations and finite computation. Computational intelligence paradigms offer many advantages in maintaining and enhancing the field of healthcare. Provides coverage of fuzzy logic, neural networks, evolutionary computation, learning theory, probabilistic methods, telemedicine, and robotics applications Includes coverage of artificial intelligence and biological applications, soft computing, image and signal processing, and genetic algorithms Presents the latest developments in computational methods in healthcare Bridges the gap between obsolete literature and current literature *Proceedings* Lawrence C. Kingsland 1989

Implementing Health Care Information Systems Helmuth F. Orthner 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.

Computer Applications in Medical Care (14th Symposium) IEEE Computer Society Press 1990-06

Biomedical Informatics Edward H. Shortliffe 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.

Applied Computing in Medicine and Health Dhiya Al-Jumeily 2015-08-21 Applied Computing in Medicine and Health is a comprehensive presentation of on-going investigations into current applied computing challenges and advances, with a focus on a particular class of applications, primarily artificial intelligence methods and techniques in medicine and health. Applied computing is the use of practical computer science knowledge to enable use of the latest technology and techniques in a variety of different fields ranging from business to scientific research. One of the most important and relevant areas in applied computing is the use of artificial intelligence (AI) in health and medicine. Artificial intelligence in health and medicine (AIHM) is assuming the challenge of creating and distributing tools that can support medical doctors and specialists in new endeavors. The material included covers a wide variety of interdisciplinary perspectives concerning the theory and practice of applied computing in medicine, human biology, and health care. Particular attention is given to AI-based clinical decision-making, medical knowledge engineering, knowledge-based systems in medical education and research, intelligent medical information systems, intelligent databases, intelligent devices and instruments, medical AI tools, reasoning and metareasoning in medicine, and methodological, philosophical, ethical, and intelligent medical data analysis. Discusses applications of artificial intelligence in medical data analysis and classifications Provides an overview of mobile health and telemedicine with specific examples and case studies Explains how behavioral intervention technologies use smart phones to support a patient

centered approach Covers the design and implementation of medical decision support systems in clinical practice using an applied case study approach

Fifteenth Annual Symposium on Computer Applications in Medical Care P.D. Clayton 1992
Computer Applications in Medical Care Institute of Electrical and Electronics Engineers
Computer Applications for Patient Care Joseph D. Bronzino 1982
Computer Applications in Medical Care
Medical Informatics Edward Hance Shortliffe 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.
Computer Applications to Private Office Practice B.B. Oberst 2012-12-06 This publication is sponsored by the American Association for Medical Systems and Informatics. The Board of AAMSI and the Board of the Society for Computer Medicine, one of AAMSI's predecessors, agreed that a book on application of medical systems and informatics for the practitioner would help promote high quality health care and they charged the Committee on Standards of the Society for Computer Medicine to write such a text. It is intended as a guide for the field of medical systems and informatics with emphasis on standards, terminology, and coding systems. The text, a result of three years of research and effort, has been reviewed by the Board of Directors of AAMSI and approved by the Publications Committee. We believe that you will find it valuable and hope to revise it from time to time to meet current needs. On behalf of the members of the Association, we congratulate the authors and thank them for their efforts. WILLIAM A. BAUMAN, M.D. President American Association for Medical Systems and Informatics Preface This book has been written by the members of the Committee on Standards of the Society for Computer Medicine. We have drawn upon the Society's expertise to prepare an easy-to-read and understandable How-to Do-It text for use by those physicians who are considering computerization of their office in one manner or another.
Nineteenth Annual Symposium on Computer Applications in Medical Care Reed M. Gardner 1995
Energy Efficiency of Medical Devices and Healthcare Applications Amr Mohamed 2020-02-15 Energy Efficiency of Medical Devices and Healthcare Facilities provides comprehensive coverage of cutting-edge, interdisciplinary research, and commercial solutions in this field. The authors discuss energy-related challenges, such as energy-efficient design, including renewable energy, of different medical devices from a hardware and mechanical perspectives, as well as energy management solutions and techniques in healthcare networks and facilities. They also discuss energy-related trade-offs to maximize the medical devices availability, especially battery-operated ones, while providing immediate response and low latency communication in emergency situations, sustainability and robustness for chronic disease treatment, in addition to high protection against cyber-attacks that may threaten patients' lives. Finally, the book examines technologies and future trends of next generation healthcare from an energy efficiency and management point of view, such as personalized or smart health and the Internet of

Medical Things – IoMT, where patients can participate in their own treatment through innovative medical devices and software applications and tools. The books applied approach makes it a useful resource for engineering researchers and practitioners of all levels involved in medical devices development, healthcare systems, and energy management of healthcare facilities. Graduate students in mechanical and electric engineering, and computer science students and professionals also benefit. Provides in-depth knowledge and understanding of the benefits of energy efficiency in the design of medical devices and healthcare networks and facilities Presents best practices and state-of-art techniques and commercial solutions in energy management of healthcare networks and systems Explores key energy tradeoffs to provide scalable, robust, and effective healthcare systems and networks