

Charles P. Friedman    Jeremy C. Wyatt

# Evaluation Methods in Biomedical Informatics



Second Edition

HEALTH INFORMATICS SERIES

# Evaluation Methods In Biomedical Informatics Health Informatics

**Kushniruk, Andre W., Borycki,  
Elizabeth M.**



## **Evaluation Methods In Biomedical Informatics Health Informatics:**

**Evaluation Methods in Biomedical Informatics** Charles P. Friedman,Jeremy Wyatt,2006-01-05 Evaluation Methods in Medical Informatics Second Edition is a heavily updated and revised volume based on editors Friedman and Wyatt s successful first edition This book incorporates the solid foundation of evaluation theories methods and techniques laid out in the first edition and builds on it to include case studies from real world situations Designed as a guide for both the informatics novice and the seasoned professional seeking a comprehensive resource this book explores information systems evaluation from the ground up Critique and discussion of actual evaluation efforts will guide the reader through real world application of the techniques described Just like its first edition this volume is an unparalleled reference for a broad range of health information professionals From those in training for careers in informatics to on site medical information systems staff Evaluation Methods in Medical Informatics Second Edition is an invaluable guide to successful evaluation of information technology in health care

**Evaluation Methods in Biomedical and Health Informatics** Charles P. Friedman,Jeremy C. Wyatt,Joan S. Ash,2022-02-10 Heavily updated and revised from the successful first edition Appeals to a wide range of informatics professionals from students to on site medical information system administrators Includes case studies and real world system evaluations References and self tests for feedback and motivation after each chapter Great for teaching purposes the book is recommended for courses offered at universities such as Columbia University Precise definition and use of terms

**Evaluation Methods in Medical Informatics** Charles P. Friedman,Jeremy C. Wyatt,2013-03-14 As director of a training program in medical informatics I have found that one of the most frequent inquiries from graduate students is Although I am happy with my research focus and the work I have done how can I design and carry out a practical evaluation that proves the value of my contribution Informatics is a multifaceted interdisciplinary field with research that ranges from theoretical developments to projects that are highly applied and intended for near term use in clinical settings The implications of proving a research claim accordingly vary greatly depending on the details of an individual student s goals and thesis state ment Furthermore the dissertation work leading up to an evaluation plan is often so time consuming and arduous that attempting the perfect evaluation is frequently seen as impractical or as diverting students from central programming or implementation issues that are their primary areas of interest They often ask what compromises are possible so they can provide persuasive data in support of their claims without adding another two to three years to their graduate student life Our students clearly needed help in dealing more effectively with such dilemmas and it was therefore fortuitous when in the autumn of 1991 we welcomed two superb visiting professors to our laboratories

**Evaluation Methods in Medical Informatics** Charles P. Friedman,1997-01-01 Evaluation Methods in Medical Informatics addresses both the underlying science and day to day practice of evaluating information systems in clinical and educational settings Written as a textbook and general reference for a broad range of health and information professionals at varying levels of experience this

volume will appeal to those training for careers in informatics those actively conducting evaluation studies and those responsible for medical center information systems The authors view successful evaluations as studies that prove useful to the specific audiences for which they are undertaken As such this work has a practical orientation appropriate to the increasingly central role of information technology in health care *Handbook of Evaluation Methods for Health Informatics* Jytte Brender McNair,2006-01-17 The Handbook of Evaluation Methods for Health Informatics provides a complete compendium of methods for evaluation of IT based systems and solutions within healthcare Emphasis is entirely on assessment of the IT system within its organizational environment The author provides a coherent and complete assessment of methods addressing interactions with and effects of technology at the organizational psychological and social levels It offers an explanation of the terminology and theoretical foundations underlying the methodological analysis presented here The author carefully guides the reader through the process of identifying relevant methods corresponding to specific information needs and conditions for carrying out the evaluation study The Handbook takes a critical view by focusing on assumptions for application tacit built in perspectives of the methods as well as their perils and pitfalls Collects a number of evaluation methods of medical informatics Addresses metrics and measures Includes an extensive list of annotated references case studies and a list of useful Web sites Evidence-Based Health Informatics Elske Ammenwerth,2016-05-15 Health IT is a major field of investment in support of healthcare delivery but patients and professionals tend to have systems imposed upon them by organizational policy or as a result of even higher policy decision And while many health IT systems are efficient and welcomed by their users and are essential to modern healthcare this is not the case for all Unfortunately some systems cause user frustration and result in inefficiency in use and a few are known to have inconvenienced patients or even caused harm including the occasional death This book seeks to answer the need for better understanding of the importance of robust evidence to support health IT and to optimize investment in it to give insight into health IT evidence and evaluation as its primary source and to promote health informatics as an underpinning science demonstrating the same ethical rigour and proof of net benefit as is expected of other applied health technologies The book is divided into three parts the context and importance of evidence based health informatics methodological considerations of health IT evaluation as the source of evidence and ensuring the relevance and application of evidence A number of cross cutting themes emerge in each of these sections This book seeks to inform the reader on the wide range of knowledge available and the appropriateness of its use according to the circumstances It is aimed at a wide readership and will be of interest to health policymakers clinicians health informaticians the academic health informatics community members of patient and policy organisations and members of the vendor industry *Applied Interdisciplinary Theory in Health Informatics* Nicolette de Keizer,Andrew Georgiou,2019-08-15 The American Medical Informatics Association AMIA defines the term biomedical informatics BMI as The interdisciplinary field that studies and pursues the effective uses of biomedical data information and knowledge for

scientific inquiry problem solving and decision making motivated by efforts to improve human health This book *Applied Interdisciplinary Theory in Health Informatics A Knowledge Base for Practitioners* explores the theories that have been applied in health informatics and the differences they have made The editors all proponents of evidence based health informatics came together within the European Federation of Medical Informatics EFMI Working Group on Health IT Evaluation and the International Medical Informatics Association IMIA Working Group on Technology Assessment and Quality Development The purpose of the book which has a foreword by Charles Friedman is to move forward the agenda of evidence based health informatics by emphasizing theory informed work aimed at enriching the understanding of this uniquely complex field The book takes the AMIA definition as particularly helpful in its articulation of the three foundational domains of health informatics health science information science and social science and their various overlaps and this model has been used to structure the content of the book around the major subject areas The book discusses some of the most important and commonly used theories relevant to health informatics and constitutes a first iteration of a consolidated knowledge base that will advance the science of the field *Biomedical Informatics* Edward H. Shortliffe, James J.

Cimino, 2006-12-02 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

**Human, Social, and Organizational Aspects of Health Information Systems** Kushniruk, Andre W., Borycki, Elizabeth M., 2008-04-30 *Human Social and Organizational Aspects of Health Information Systems* offers an evidence based management approach to issues associated with the human and social aspects of designing developing implementing and maintaining health information systems across a healthcare organization specific to an individual team organizational system and international perspective Integrating knowledge from multiple levels this book will benefit scholars and practitioners from the medical information health service management information technology arenas **Information Technology in Health Care 2007** Johanna Westbrook, Johanna I. Westbrook, 2007 This volume presents the papers from the 3rd International Conference on Technology in Health Care Socio technical Approaches held in Sydney Australia in 2007

*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

**Health Information Systems: Concepts, Methodologies, Tools, and Applications** Rodrigues, Joel J.P.C.,2009-12-31 This reference set provides a complete understanding of the development of applications and concepts in clinical patient and hospital information systems Provided by publisher

**Evaluating the Organizational Impact of Health Care Information Systems** James G. Anderson,Carolyn Aydin,2005-10-07 Innovative 2nd edition heavily updated and revised from the 1st edition Introduction to various survey and evaluation methods involving IT systems in the healthcare setting Critical overview of current research in health and social sciences Emphasizes multi method approach to system evaluation Includes instruments suitable for research and evaluation Discusses computer programs for data analysis and evaluation resources Essential reference for anyone involved in planning developing implementing utilizing evaluating or studying computer based health care systems

Informatics Education in Healthcare Eta S. Berner,2020-10-19 This heavily revised second edition defines the current state of the art for informatics education in medicine and healthcare This field has continued to undergo considerable changes as the field of informatics continues to evolve The book features extensively revised chapters addressing the latest developments in areas including relevant informatics concepts for those who work in health information technology and those teaching informatics courses in clinical settings techniques for teaching informatics with limited resources and the use of online modalities in bioinformatics research education New topics covered include how to get appropriate accreditation for an informatics program data science and bioinformatics education and undergraduate health informatics education Informatics Education in Healthcare Lessons Learned addresses the broad range of informatics education programs and available techniques for teaching informatics It therefore provides a valuable reference for all involved in informatics

education      **Patient-Centered E-Health** Wilson, E. Vance, 2008-09-30 Presents the perspective of a distinct form of e health that is patient focused patient aware patient empowered and patient active Addresses the special characteristics of the e health domain through a user centered design providing foundational topics in areas such as patient centered design methods psychological aspects of online health communication and e health marketing      **Unifying the Applications and Foundations of Biomedical and Health Informatics** Arie Hasman, Aikaterini Kolokathi, Mowafa S. Househ, 2016-07-15 Informatics and technology have become an intrinsic part of healthcare management in recent years it is almost impossible to imagine a modern healthcare system without them This book presents the proceedings of the 14th annual International Conference on Informatics Management and Technology in Healthcare ICIMTH held in Athens Greece in July 2016 The conference treats the field of biomedical informatics in a very broad framework and the 68 full papers included here examine the research and applications outcomes of informatics from cell to population including a number of technologies such as imaging sensors mobile communications biomedical equipment and management as well as legal and societal issues related to the application of health informatics The book is divided into sections Biomedical Technology Clinical Informatics E learning and Education Formalisation of Knowledge Ontologies Clinical Guidelines and Standards of Healthcare Health Informatics Healthcare Management and Public Health mHealth and Telemedicine and Social Media and Health Also included are two keynote speeches Covering a wide spectrum of applications the book will be of interest to all those working in the design management and delivery of healthcare services whose work involves the development or use of biomedical informatics      *Development and Evaluation of Leveraging Biomedical Informatics Techniques to Enhance Public Health Surveillance* Kailah T. Davis, 2014      *Biomedical Informatics* Andreas Holzinger, 2012 Medical Informatics is defined as an interdisciplinary field studying the effective use of biomedical data information and knowledge for scientific inquiry problem solving and decision making motivated by efforts to improve human health To emphasize the broad character it is called Biomedical Informatics The course LV 444 152 consists of the following 12 lectures 1 Introduction Computer Science meets Life Sciences challenges and future directions 2 Back to the future Fundamentals of Data Information and Knowledge 3 Structured Data Coding Classification ICD SNOMED MeSH UMLS 4 Biomedical Databases Acquisition Storage Information Retrieval and Use 5 Semi structured and weakly structured data 6 Multimedia Data Mining and Knowledge Discovery 7 Knowledge and Decision Cognitive Science and Human Computer Interaction 8 Biomedical Decision Making Reasoning and Decision Support 9 Intelligent Information Visualization and Visual Analytics 10 Biomedical Information Systems and Medical Knowledge Management 11 Biomedical Data Privacy Safety and Security 12 Methodology for Information Systems System Design Usability and Evaluation      **dHealth 2020 - Biomedical Informatics for Health and Care** Günter Schreier, Dieter Hayn, 2020-06-15 Successful digital healthcare depends on the effective flow of a complete chain of information from the sensor via multiple steps of processing to the actuator which can be anything from a human healthcare professional to a

robot Along this pathway methods for automating the processing of information like signal processing machine learning predictive analytics and decision support play an increasing role in providing actionable information and supporting personalized and preventive healthcare concepts in both biomedical and digital healthcare systems and applications ICT systems in healthcare and biomedical systems and devices are very closely related and in the future they will become increasingly intertwined Indeed it is already often difficult to delineate where the one ends and the other begins This book presents the intended proceedings of the dHealth 2020 annual conference on the general topic of health Informatics and digital health which was due to be held in Vienna Austria on 19 and 20 May 2020 but which was cancelled due to the COVID 19 pandemic The decision was nevertheless taken to publish these proceedings which include the 40 papers which would have been delivered at the conference The special topic for the 2020 edition of the conference was Biomedical Informatics for Health and Care The book provides an overview of current developments in health informatics and digital health and will be of interest to researchers and healthcare practitioners alike

Cognitive Informatics for Biomedicine Vimla L. Patel, Thomas G. Kannampallil, David R. Kaufman, 2015-08-10 The book reports on the current state on HCI in biomedicine and health care focusing on the role of human factors patient safety well as methodological underpinnings of HCI theories and its application for biomedical informatics Theories models and frameworks for human computer interaction HCI have been recognized as key contributors for the design development and use of computer based systems In the clinical domain key themes that litter the research landscape of health information technology HIT are usability decision support and clinical workflow all of which are affected directly or indirectly by the nature of HCI While the implications of HCI principles for the design of HIT are acknowledged the adoption of the tools and techniques among clinicians informatics researchers and developers of HIT are limited There is a general consensus that HIT has not realized its potential as a tool to facilitate clinical decision making the coordination of care and improves patient safety Embracing sound principles of iterative design can yield significant dividends It can also enhance practitioner s abilities to meet meaningful use requirements The purpose of the book is two fold to address key gaps on the applicability of theories models and evaluation frameworks of HCI and human factors for research in biomedical informatics It highlights the state of the art drawing from the current research in HCI Second it also serves as a graduate level textbook highlighting key topics in HCI relevant for biomedical informatics computer science and social science students working in the healthcare domain For instructional purposes the book provides additional information and a set of questions for interactive class discussion for each section The purpose of these questions is to encourage students to apply the learned concepts to real world healthcare problems



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