

# **Interactive Information Visualization to Explore and Query Electronic Health Records**

**Alexander Rind, Taowei David Wang, Wolfgang Aigner,  
Silvia Miksch, Krist Wongsuphasawat,  
Catherine Plaisant and Ben Shneiderman**

# Interactive Information Visualization To Explore And Query Electronic Health Records Foundations And Trends In Human Computer Interaction

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## **Interactive Information Visualization To Explore And Query Electronic Health Records Foundations And Trends In Human Computer Interaction:**

**Interactive Information Visualization to Explore and Query Electronic Health Records** Alexander Rind, Taowei David Wang, Wolfgang Aigner, Silvia Miksch, Krist Wongsuphasawat, Catherine Plaisant, Ben Shneiderman, Now Publishers, 2013 This work surveys the state of the art of information visualization systems for exploring and querying Electronic Health Record systems EHRs It examines how systems differ in their features and highlights how these differences are related to their design and the medical scenarios that they tackle Exploring Complexity in Health: An Interdisciplinary Systems Approach A. Hoerbst, W.O. Hackl, N. de Keizer, 2016-09-22 The field of health is an increasingly complex and technical one and an area in which a more multidisciplinary approach would undoubtedly be beneficial in many ways This book presents papers from the conference Health Exploring Complexity An Interdisciplinary Systems Approach held in Munich Germany from August 28th to September 2nd 2016 This joint conference unites the conferences of the German Association for Medical Informatics Biometry and Epidemiology GMDS the German Society for Epidemiology DGEpi the International Epidemiological Association European Region and the European Federation for Medical Informatics EFMI These societies already have long standing experience of integrating the disciplines of medical informatics biometry epidemiology and health data management The book contains over 160 papers and is divided into 14 sections covering subject areas such as health and clinical information systems eHealth and telemedicine big data and advanced analytics and evidence based health informatics evaluation and education among many others The book will be of value to all those working in the field of health and interested in finding new ways to enable the collaboration of different scientific disciplines and the establishment of comprehensive methodological approaches **Visualization of Time-Oriented Data** Wolfgang Aigner, Silvia Miksch, Heidrun Schumann, Christian Tominski, 2023-12-21 This is an open access book Time is an exceptional dimension with high relevance in medicine engineering business science biography history planning or project management Understanding time oriented data via visual representations enables us to learn from the past in order to predict plan and build the future This second edition builds upon the great success of the first edition It maintains a brief introduction to visualization and a review of historical time oriented visual representations At its core the book develops a systematic view of the visualization of time oriented data Separate chapters discuss interaction techniques and computational methods for supporting the visual data analysis Many examples and figures illustrate the introduced concepts and techniques So what is new for the second edition First of all the second edition is now published as an open access book so that anyone interested in the visualization of time and time oriented data can read it Second the entire content has been revised and expanded to represent state of the art knowledge The chapter on interaction support now includes advanced methods for interacting with visual representations of time oriented data The second edition also covers the topics of data quality as well as segmentation

and labeling The comprehensive survey of classic and contemporary visualization techniques now provides more than 150 self contained descriptions accompanied by illustrations and corresponding references A completely new chapter describes how the structured survey can be used for the guided selection of suitable visualization techniques For the second edition our TimeViz Browser the digital pendant to the survey of visualization techniques received a major upgrade It includes the same set of techniques as the book but comes with additional filter and search facilities allowing scientists and practitioners to find exactly the solutions they are interested in

*Introduction to Computational Health Informatics* Arvind Kumar Bansal,Javed Iqbal Khan,S. Kaisar Alam,2020-01-08 This class tested textbook is designed for a semester long graduate or senior undergraduate course on Computational Health Informatics The focus of the book is on computational techniques that are widely used in health data analysis and health informatics and it integrates computer science and clinical perspectives This book prepares computer science students for careers in computational health informatics and medical data analysis Features Integrates computer science and clinical perspectives Describes various statistical and artificial intelligence techniques including machine learning techniques such as clustering of temporal data regression analysis neural networks HMM decision trees SVM and data mining all of which are techniques used widely used in health data analysis Describes computational techniques such as multidimensional and multimedia data representation and retrieval ontology patient data deidentification temporal data analysis heterogeneous databases medical image analysis and transmission biosignal analysis pervasive healthcare automated text analysis health vocabulary knowledgebases and medical information exchange Includes bioinformatics and pharmacokinetics techniques and their applications to vaccine and drug development

**Visualization**  
**Psychology** Danielle Albers Szafir,Rita Borgo,Min Chen,Darren J. Edwards,Brian Fisher,Lace Padilla,2023-11-06 This book designates Visualization Psychology as an interdisciplinary subject The book contains literature reviews and experimental works that exemplify a range of open questions at this critical intersection It also includes discourses that envision how the subject may be developed in the coming years and decades The field of visualization is a rich playground for discovering new knowledge in both visualization and psychology As visualization techniques augment human cognition these techniques must be developed and improved by building on theoretical empirical and methodological knowledge from psychology At the same time visualization processes surface numerous phenomena about interactions between the human mind and digital entities such as data visual imagery algorithms and computer generated predictions and recommendations Visualization psychology is a new type of science in the making

MEDINFO 2017: Precision Healthcare through Informatics Marie-Christine Jaulent,Dongsheng Zhao,2018-01-15 Medical informatics is a field which continues to evolve with developments and improvements in foundational methods applications and technology constantly offering opportunities for supporting the customization of healthcare to individual patients This book presents the proceedings of the 16th World Congress of Medical and Health Informatics MedInfo2017 held in Hangzhou China in August 2017 which also marked the 50th anniversary of the

International Medical Informatics Association IMIA The central theme of MedInfo2017 was Precision Healthcare through Informatics and the scientific program was divided into five tracks connected and digital health human data science human organizational and social aspects knowledge management and quality and safety and patient outcomes The 249 accepted papers and 168 posters included here span the breadth and depth of sub disciplines in biomedical and health informatics such as clinical informatics nursing informatics consumer health informatics public health informatics human factors in healthcare bioinformatics translational informatics quality and safety research at the intersection of biomedical and health informatics and precision medicine The book will be of interest to all those who wish to keep pace with advances in the science education and practice of biomedical and health informatics worldwide

*Next-Generation Mobile and Pervasive Healthcare Solutions* Machado, Jose,Abelha, António,Santos, Manuel Filipe,Portela, Filipe,2017-08-10 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

**Information Quality in e-Health** Andreas Holzinger,Klaus-Martin Simoncic,2011-11-18 This book constitutes the refereed proceedings of the 7th Conference of the Workgroup Human Computer Interaction and Usability Engineering of the Austrian Computer Society USAB 2011 in Graz Austria in November 2011 The 18 revised full papers together with 29 revised short papers and 2 posters presented were carefully reviewed and selected from 103 submissions The papers are organized in topical sections on cognitive approaches to clinical data management for decision support human computer interaction and knowledge discovery in databases hci kdd information usability and clinical workflows education and patient empowerment patient empowerment and health services information visualization knowledge analytics information usability and accessibility governmental health services clinical routine information retrieval and knowledge discovery decision making support technology acceptance information retrieval privacy clinical routine usability and accessibility methodologies information usability and knowledge discovery human centred computing and biomedical informatics in health professional education

**Information Visualization** Andreas Kerren,John Stasko,Jean-Daniel Fekete,Chris North,2008-07-19 This book is the outcome of the Dagstuhl Seminar on Information Visualization Human Centered Issues in Visual Representation Interaction and Evaluation held at Dagstuhl Castle Germany from May 28 to June 1 2007 Information Visualization InfoVis is a relatively new research area which focuses on the use of visualization techniques to help people understand and analyze data This book documents and extends the findings and discussions of the various

sessions in detail The seven contributions cover the most important topics There are general reflections on the value of information visualization evaluating information visualizations theoretical foundations of information visualization teaching information visualization And specific aspects on creation and collaboration engaging new audiences for information visualization process and pitfalls in writing information visualization research papers and visual analytics definition process and challenges

**Visualization of Time-Oriented Data** Wolfgang Aigner, Silvia Miksch, Heidrun Schumann, Christian Tominski, 2011-05-30 Time is an exceptional dimension that is common to many application domains such as medicine engineering business or science Due to the distinct characteristics of time appropriate visual and analytical methods are required to explore and analyze them This book starts with an introduction to visualization and historical examples of visual representations At its core the book presents and discusses a systematic view of the visualization of time oriented data along three key questions what is being visualized data why something is visualized user tasks and how it is presented visual representation To support visual exploration interaction techniques and analytical methods are required that are discussed in separate chapters A large part of this book is devoted to a structured survey of 101 different visualization techniques as a reference for scientists conducting related research as well as for practitioners seeking information on how their time oriented data can best be visualized

**Data through Movement** Francesco Cafaro, Jessica Roberts, 2022-06-01 When you picture human data interactions HDI what comes to mind The datafication of modern life along with open data initiatives advocating for transparency and access to current and historical datasets has fundamentally transformed when where and how people encounter data People now rely on data to make decisions understand current events and interpret the world We frequently employ graphs maps and other spatialized forms to aid data interpretation yet the familiarity of these displays causes us to forget that even basic representations are complex challenging inscriptions and are not neutral they are based on representational choices that impact how and what they communicate This book draws on frameworks from the learning sciences visualization and human computer interaction to explore embodied HDI This exciting sub field of interaction design is based on the premise that every day we produce and have access to quintillions of bytes of data the exploration and analysis of which are no longer confined within the walls of research laboratories This volume examines how humans interact with these data in informal not work or school environments particularly in museums The first half of the book provides an overview of the multi disciplinary theoretical foundations of HDI in particular embodied cognition conceptual metaphor theory embodied interaction and embodied learning and reviews socio technical theories relevant for designing HDI installations to support informal learning The second half of the book describes strategies for engaging museum visitors with interactive data visualizations presents methodologies that can inform the design of hand gestures and body movements for embodied installations and discusses how HDI can facilitate people s sensemaking about data This cross disciplinary book is intended as a resource for students and early career researchers in human computer interaction and the learning sciences as

well as for more senior researchers and museum practitioners who want to quickly familiarize themselves with HDI

**Interactive Data Visualization** Matthew O. Ward, Georges Grinstein, Daniel Keim, 2015-06-11 An Updated Guide to the Visualization of Data for Designers Users and Researchers Interactive Data Visualization Foundations Techniques and Applications Second Edition provides all the theory details and tools necessary to build visualizations and systems involving the visualization of data In color throughout it explains basic terminology **Information Discovery on Electronic**

**Health Records** Vagelis Hristidis, 2009-12-10 Exploiting the rich information found in electronic health records EHRs can facilitate better medical research and improve the quality of medical practice Until now a trivial amount of research has been published on the challenges of leveraging this information Addressing these challenges Information Discovery on Electronic Health Records explores the technology to unleash the data stored in EHRs Assembling a truly interdisciplinary team of experts the book tackles medical privacy concerns the lack of standardization for the representation of EHRs missing or incorrect values and the availability of multiple rich health ontologies It looks at how to search the EHR collection given a user query and return relevant fragments from the EHRs It also explains how to mine the EHR collection to extract interesting patterns group entities to various classes or decide whether an EHR satisfies a given property Most of the book focuses on textual or numeric data of EHRs where more searching and mining progress has occurred A chapter on the processing of medical images is also included Maintaining a uniform style across chapters and minimizing technical jargon this book presents the various ways to extract useful knowledge from EHRs It skillfully discusses how EHR data can be effectively searched and mined Information Visualization Robert Spence, 2007 Offering an interactive visual opportunity

to learn how to clarify and interpret data this text features real world examples and applications **Data Visualization Strategies for the Electronic Health Record** Blake J. Lesselroth, David S. Pieczkiewicz, 2011 *Information Visualization* Chaomei Chen, 2006-10-23 Information visualization is not only about creating graphical displays of complex and latent information structures it contributes to a broader range of cognitive social and collaborative activities This is the first book to examine information visualization from this perspective This 2nd edition continues the unique and ambitious quest for setting information visualization and virtual environments in a unifying framework Information Visualization Beyond the Horizon pays special attention to the advances made over the last 5 years and potentially fruitful directions to pursue It is particularly updated to meet the need for practitioners The book is a valuable source for researchers and graduate students This new edition is forwarded by Ben Shneiderman University of Maryland **The Craft of Information Visualization** Benjamin B.

Bederson, Ben Shneiderman, 2003-05-22 Since the beginning of the computer age researchers from many disciplines have sought to facilitate people's use of computers and to provide ways for scientists to make sense of the immense quantities of data coming out of them One gainful result of these efforts has been the field of information visualization whose technology is increasingly applied in scientific research digital libraries data mining financial data analysis market studies manufacturing

production control and data discovery This book collects 38 of the key papers on information visualization from a leading and prominent research lab the University of Maryland s Human Computer Interaction Lab HCIL Celebrating HCIL s 20th anniversary this book presents a coherent body of work from a respected community that has had many success stories with its research and commercial spin offs Each chapter contains an introduction specifically written for this volume by two leading HCI researchers to describe the connections among those papers and reveal HCIL s individual approach to developing innovations Presents key ideas novel interfaces and major applications of information visualization tools embedded in inspirational prototypes Techniques can be widely applied in scientific research digital libraries data mining financial data analysis business market studies manufacturing production control drug discovery and genomic studies Provides an insider view to the scientific process and evolution of innovation as told by the researchers themselves This work comes from the prominent and high profile University of Maryland s Human Computer Interaction Lab [Introduction to Information Visualization](#) Gerald Benoit,2019-02-08 Introduction to Information Visualization Transforming Data into Meaningful Information is for anyone interested in the art and science of communicating data to others It shows readers how to transform data into something meaningful information Applying information visualization in research service teaching and professional life requires a solid understanding of graphic design and the aesthetic along with hands on skills and knowledge of data principles and software This book is applicable to students in all domains to researchers who need to understand how to create graphics that explain their data and to professionals and administrators for professional development training Website Designers and Human Computer Interaction researchers will appreciate the backstory of designing interactive visualizations for the web Drawing on the author s years of practice and teaching it bridges the two worlds in ways everyone can participate in the future of information and to appreciate the beautiful in information Step by step directions in the fundamentals of HTML5 CSS and d3 jsDesign challenges with fully explained answersWeb site support for code samples JavaScript d3 js python live examples and a place to build a community of other IV prosUseful for teaching design to scientists data to the humanitiesGuidance for using the text depending on the class makeupReview of third party visualization software big data trends and script librariesGuidance on how to continue in the IV world after graduation This full color book features graphics and a companion Web site The online companion site hosts living examples updates and errata You re invited to participate on the site too sharing your questions solutions and ideas For most readings there is a partner design lab At the conclusion of the course there is a complete interactive information visualization service documentation for libraries **Introduction to Information Visualization** Riccardo Mazza,2009-02-28 Information Visualization is a relatively young field that is acquiring more and more consensus in both academic and industrial environments Information Visualization explores the use of computer supported interactive graphical representations to explain data and amplify cognition It provides a means to communicate ideas or facts about the data to validate hypotheses and



facilitates the discovery of new facts via exploration This book introduces the concepts and methods of Information Visualization in an easy to understand way illustrating how to pictorially represent structured and unstructured data making it easier to comprehend and interpret Riccardo Mazza focuses on the human aspects of the process of visualization rather than the algorithmic or graphic design aspects

**Interactive Visual Data Analysis** Christian Tominski, Heidrun Schumann, 2020-04-01 In the age of big data being able to make sense of data is an important key to success Interactive Visual Data Analysis advocates the synthesis of visualization interaction and automatic computation to facilitate insight generation and knowledge crystallization from large and complex data The book provides a systematic and comprehensive overview of visual interactive and analytical methods It introduces criteria for designing interactive visual data analysis solutions discusses factors influencing the design and examines the involved processes The reader is made familiar with the basics of visual encoding and gets to know numerous visualization techniques for multivariate data temporal data geo spatial data and graph data A dedicated chapter introduces general concepts for interacting with visualizations and illustrates how modern interaction technology can facilitate the visual data analysis in many ways Addressing today's large and complex data the book covers relevant automatic analytical computations to support the visual data analysis The book also sheds light on advanced concepts for visualization in multi display environments user guidance during the data analysis and progressive visual data analysis The authors present a top down perspective on interactive visual data analysis with a focus on concise and clean terminology Many real world examples and rich illustrations make the book accessible to a broad interdisciplinary audience from students to experts in the field to practitioners in data intensive application domains Features Dedicated to the synthesis of visual interactive and analysis methods Systematic top down view on visualization interaction and automatic analysis Broad coverage of fundamental and advanced visualization techniques Comprehensive chapter on interacting with visual representations Extensive integration of automatic computational methods Accessible portrayal of cutting edge visual analytics technology Foreword by Jack van Wijk For more information you can also visit the author website where the book's figures are made available under the CC BY Open Access license

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