Visual Data

Lindy Ryan

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.

Visual Data Storytelling with Tableau Lindy Ryan,2018-04-20 Tell Insightful, Actionable Business Stories with Tableau, the World's Leading Data Visualization Tool! Visual Data Storytelling with Tableau brings together knowledge, context, and hands-on skills for telling powerful, actionable data stories with Tableau. This full-color guide shows how to organize data and structure analysis with storytelling in mind, embrace exploration and visual discovery, and articulate findings with rich data, carefully curated visualizations, and skillfully crafted narrative. You don't need any visualization experience. Each chapter illuminates key aspects of design practice and data visualization, and guides you step-by-step through applying them in Tableau. Through realistic examples and classroom-tested exercises, Professor Lindy Ryan helps you use Tableau to analyze data, visualize it, and help people connect more intuitively and emotionally with it. Whether you're an analyst, executive, student, instructor, or journalist, you won't just master the tools: you'll learn to craft data stories that make an immediate impact--and inspire action. Learn how to: • Craft more powerful stories by blending data science, genre, and visual design • Ask the right questions upfront to plan data collection and analysis • Build storyboards and choose charts based on your message and audience • Direct audience attention to the points that matter most • Showcase your data stories in high-impact presentations • Integrate Tableau storytelling throughout your business communication • Explore case studies that show what to do--and what not to do • Discover visualization best practices, tricks, and hacks you can use with any tool • Includes coverage up through Tableau 10

Visual Data Mining Russell K. Anderson,2012-10-17 A visual approach to data mining. Data mining has been defined as the search for useful and previously unknown patterns in large datasets, yet when faced with the task of mining a large dataset, it is not always

obvious where to start and how to proceed. This book introduces a visual methodology for data mining demonstrating the application of methodology along with a sequence of exercises using VisMiner. VisMiner has been developed by the author and provides a powerful visual data mining tool enabling the reader to see the data that they are working on and to visually evaluate the models created from the data. Key features: Presents visual support for all phases of data mining including dataset preparation. Provides a comprehensive set of non-trivial datasets and problems with accompanying software. Features 3-D visualizations of multi-dimensional datasets. Gives support for spatial data analysis with GIS like features. Describes data mining algorithms with guidance on when and how to use. Accompanied by VisMiner, a visual software tool for data mining, developed specifically to bridge the gap between theory and practice. Visual Data Mining: The VisMiner Approach is designed as a hands-on work book to introduce the methodologies to students in data mining, advanced statistics, and business intelligence courses. This book provides a set of tutorials, exercises, and case studies that support students in learning data mining processes. In praise of the VisMiner approach: What we discovered among students was that the visualization concepts and tools brought the analysis alive in a way that was broadly understood and could be used to make sound decisions with greater certainty about the outcomes —Dr. James V. Hansen, J. Owen Cherrington Professor, Marriott School, Brigham Young University, USA Students learn best when they are able to visualize relationships between data and results during the data mining process. VisMiner is easy to learn and yet offers great visualization capabilities throughout the data mining process. My students liked it very much and so did I. —Dr. Douglas Dean, Assoc. Professor of Information Systems, Marriott School, Brigham Young University, USA

  Making Data Visual Danyel Fisher,Miriah Meyer,2017-12-20 You have a mound of data sitting in front of you and a suite of computation tools at your disposal. And yet, you're stumped as to how to turn that data into insight. Which part of that data actually matters, and where is this insight hidden? If you're a data scientist who struggles to navigate the murky space between data and insight, this book will help you think about and reshape data for visual data exploration. It's ideal for relatively new data scientists, who may be computer-knowledgeable and data-knowledgeable, but do not yet know how to create effective, explorable representations of data. With this book, you'll learn: Task analysis, driven by a series of leading questions that draw out the important aspects of the data to be explored; Visualization patterns, each of which take a different perspective on data and answer different questions; A taxonomy of visualizations for common data types; Techniques for gathering design requirements; When and where to make use of statistical methods.--

  Visual Data Mining Simeon Simoff,Michael H. Böhlen,Arturas Mazeika,2008-07-23 Visual Data Mining—Opening the Black Box Knowledge discovery holds the promise of insight into large, otherwise opaque datasets. Thenatureofwhatmakesaruleinterestingtoauserhasbeendiscussed 1 widely but most agree that it is a subjective quality based on the practical u- fulness of the information. Being subjective, the user needs to provide feedback to the system and, as is the case for all systems, the sooner the feedback is given the quicker it can in?uence the behavior of the system. There have been some impressive research activities over the past few years but the question to be asked is why is visual data mining only now being - vestigated commercially? Certainly, there have been arguments for visual data 2 mining for a number of years – Ankerst and others argued in 2002 that current (autonomous and opaque) analysis techniques are ine?cient, as they fail to - rectly embed the user in dataset exploration and that a better solution involves the user and algorithm being more tightly coupled. Grinstein stated that the "current state of the art data mining tools are

automated, but the perfect data mining tool is interactive and highly participatory," while Han has suggested that the "data selection and viewing of mining results should be fully inter- tive, the mining process should be more interactive than the current state of the 2 art and embedded applications should be fairly automated . " A good survey on 3 techniques until 2003 was published by de Oliveira and Levkowitz .

The Visual Display of Quantitative Information Edward R. Tufte,2001-01-01 Graphical practice. Theory of data graphics.

Visual Data and Their Use in Science Education Jon Pedersen,Kevin D. Finson,2013-04-01 Visual Data in Science Education builds upon previous work done by the editors to bring some definition to the meaning of visual data as it relates to education, and highlighted the breadth of types and uses of visual data across the major academic disciplines. In this book, the editors have brought this focus specifically to science education through the contributions of colleagues in the field who actively research about and engage in teaching with visual data. The book begins by examining how the brain functions with respect to processing visual data, then explores models of conceptual frameworks, which then leads into how related ideas are actuated in education settings ranging from elementary science classrooms to college environments. As a whole, this book fosters a more coherent image of the multifaceted process of science teaching and learning that is informed by current understandings of science knowledge construction, the scientific enterprise, and the millennium student as they relate to visual data.

Visual Data Mining Tom Soukup,Ian Davidson,2002-09-18 Marketing analysts use data mining techniques to gain a reliable understanding of customer buying habits and then use that information to develop new marketing campaigns and products. Visual mining tools introduce a world of possibilities to a much broader and non-technical audience to help them solve common business problems. Explains how to select the appropriate data sets for analysis, transform the data sets into usable formats, and verify that the sets are error-free Reviews how to choose the right model for the specific type of analysis project, how to analyze the model, and present the results for decision making Shows how to solve numerous business problems by applying various tools and techniques Companion Web site offers links to data visualization and visual data mining tools, and real-world success stories using visual data mining

Big Visual Data Analysis Chen Chen,Yuzhuo Ren,C.-C. Jay Kuo,2016-02-24 This book offers an overview of traditional big visual data analysis approaches and provides state-of-the-art solutions for several scene comprehension problems, indoor/outdoor classification, outdoor scene classification, and outdoor scene layout estimation. It is illustrated with numerous natural and synthetic color images, and extensive statistical analysis is provided to help readers visualize big visual data distribution and the associated problems. Although there has been some research on big visual data analysis, little work has been published on big image data distribution analysis using the modern statistical approach described in this book. By presenting a complete methodology on big visual data analysis with three illustrative scene comprehension problems, it provides a generic framework that can be applied to other big visual data analysis tasks.

The Visual Imperative Lindy Ryan,2016-03-14 Data is powerful. It separates leaders from laggards and it drives business disruption, transformation, and reinvention. Today's most progressive companies are using the power of data to propel their industries into new areas of innovation, specialization, and optimization. The horsepower of new tools and technologies have provided more opportunities than ever to harness, integrate, and interact with massive amounts of disparate data for business insights and value – something that will only continue in the era of the Internet of Things. And, as a new breed of tech-savvy and digitally native knowledge workers rise to the ranks of data scientist and visual analyst, the needs and demands of the people working with data are changing, too.

The world of data is changing fast. And, it's becoming more visual. Visual insights are becoming increasingly dominant in information management, and with the reinvigorated role of data visualization, this imperative is a driving force to creating a visual culture of data discovery. The traditional standards of data visualizations are making way for richer, more robust and more advanced visualizations and new ways of seeing and interacting with data. However, while data visualization is a critical tool to exploring and understanding bigger and more diverse and dynamic data, by understanding and embracing our human hardwiring for visual communication and storytelling and properly incorporating key design principles and evolving best practices, we take the next step forward to transform data visualizations from tools into unique visual information assets. Discusses several years of in-depth industry research and presents vendor tools, approaches, and methodologies in discovery, visualization, and visual analytics Provides practicable and use case-based experience from advisory work with Fortune 100 and 500 companies across multiple verticals Presents the next-generation of visual discovery, data storytelling, and the Five Steps to Data Storytelling with Visualization Explains the Convergence of Visual Analytics and Visual discovery, including how to use tools such as R in statistical and analytic modeling Covers emerging technologies such as streaming visualization in the IOT (Internet of Things) and streaming animation

Analyzing Visual Data Michael S. Ball,Gregory W. H. Smith,1992-05 This volume provides a basic framework for using visual data - namely still photographs - as a tool for social analysis. The authors determine the importance of theoretical assumptions in analyzing these data and provide advice on how to use photographs in cognitive, symbolist and structuralist research. The book is richly illustrated with examples ranging from Native American masks to perfume advertisements.

Application of Visual Data in K-16 Science Classrooms Kevin D. Finson,Jon Pedersen,2015-03-01 This book examines visual data use with students (PK-16) as well as in pre-service in- service science teacher preparation. Each chapter includes discussion about the current state of the art with respect to science classroom application and utilization of the particular visual data targeted by the author(s), discussion and explanation about the targeted visual data as applied by the author in his/her classroom, use of visual data as a diagnostic tool, its use as an assessment tool, and discussion of implications for science teaching and/or science teacher preparation. Although the body of research and practice in this field is growing, there remains a gap in the literature about clearly explicating the use of visual data in the science classroom. A growing body of literature discusses what visual data are (although this topic is still viewed as being at the beginning of its development in educators' thinking), and there are some scattered examples of studies exploring the use of visual data in science classrooms, although those studies have not necessarily clearly identified their foci as visual data, per se. As interest and attention has become more focused on visual data, a logical progression of questioning has been how visual data are actually applied in the science classroom, whether it be early elementary, college, or somewhere in between. Visual data applications of interest to the science education community include how it is identified, how it can be used with students and how students can generate it themselves, how it can be employed as a diagnostic tool in concept development, and how it can be utilized as an assessment tool. This book explores that, as well as a variety of pragmatic ways to help science educators more effectively utilize visual data and representations in their instruction.

Exploration of Visual Data Sean Xiang Zhou,Yong Rui,Thomas S. Huang,2012-12-06 Exploration of Visual Data presents latest research efforts in the area of content-based exploration of image and video data. The main objective is to bridge the semantic gap between high-level concepts in the human mind and low-level features extractable by the

machines. The two key issues emphasized are content-awareness and user-in-the-loop. The authors provide a comprehensive review on algorithms for visual feature extraction based on color, texture, shape, and structure, and techniques for incorporating such information to aid browsing, exploration, search, and streaming of image and video data. They also discuss issues related to the mixed use of textual and low-level visual features to facilitate more effective access of multimedia data. Exploration of Visual Data provides state-of-the-art materials on the topics of content-based description of visual data, content-based low-bitrate video streaming, and latest asymmetric and nonlinear relevance feedback algorithms, which to date are unpublished.

Advances in Spatio-Temporal Segmentation of Visual Data Vladimir Mashtalir,Igor Ruban,Vitaly Levashenko,2019-12-16 This book proposes a number of promising models and methods for adaptive segmentation, swarm partition, permissible segmentation, and transform properties, as well as techniques for spatio-temporal video segmentation and interpretation, online fuzzy clustering of data streams, and fuzzy systems for information retrieval. The main focus is on the spatio-temporal segmentation of visual information. Sets of meaningful and manageable image or video parts, defined by visual interest or attention to higher-level semantic issues, are often vital to the efficient and effective processing and interpretation of viewable information. Developing robust methods for spatial and temporal partition represents a key challenge in computer vision and computational intelligence as a whole. This book is intended for students and researchers in the fields of machine learning and artificial intelligence, especially those whose work involves image processing and recognition, video parsing, and content-based image/video retrieval.

Data Visualization Made Simple Kristen Sosulski,2018-09-27 Data Visualization Made Simple is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today's information-rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners in almost every field a coherent way to share findings from original research, big data, learning analytics, and more. In nine appealing chapters, the book: examines the role of data graphics in decision-making, sharing information, sparking discussions, and inspiring future research; scrutinizes data graphics, deliberates on the messages they convey, and looks at options for design visualization; and includes cases and interviews to provide a contemporary view of how data graphics are used by professionals across industries Both novices and seasoned designers in education, business, and other areas can use this book's effective, linear process to develop data visualization literacy and promote exploratory, inquiry-based approaches to visualization problems.

Describing Nature Through Visual Data Ursyn, Anna,2020-07-03 People have described nature since the beginning of human history. They do it for various purposes, including to communicate about economic, social, governmental, meteorological, sustainability-related, strategic, military, and survival issues as well as artistic expression. As a part of the whole world of living beings, we use various types of senses, known and unknown, labeled and not identified, to both communicate and create. Describing Nature Through Visual Data is a collection of impactful research that discusses issues related to the visualization of scientific concepts, picturing processes, and products, as well as the role of computing in advancing visual literacy skills. Organized into four sections, the book contains descriptions, theories, and examples of visual and music-based solutions concerning the selected natural or technological events that are shaping present-day reality. The chapters pertain to selected scientific fields, digital art, computer graphics, and new media and confer the possible ways that visuals, visualization, simulation, and interactive knowledge presentation can help us to understand and share the content of

scientific thought, research, artistic works, and practice. Featuring coverage on topics that include mathematical thinking, music theory, and visual communication, this reference is ideal for instructors, professionals, researchers, and students keen on comprehending and enhancing the role of knowledge visualization in computing, sciences, design, media communication, film, advertising, and marketing.

Visual Insights Katy Borner,David E. Polley,2014-01-24 A guide to the basics of information visualization that teaches nonprogrammers how to use advanced data mining and visualization techniques to design insightful visualizations. In the age of Big Data, the tools of information visualization offer us a macroscope to help us make sense of the avalanche of data available on every subject. This book offers a gentle introduction to the design of insightful information visualizations. It is the only book on the subject that teaches nonprogrammers how to use open code and open data to design insightful visualizations. Readers will learn to apply advanced data mining and visualization techniques to make sense of temporal, geospatial, topical, and network data. The book, developed for use in an information visualization MOOC, covers data analysis algorithms that enable extraction of patterns and trends in data, with chapters devoted to "when" (temporal data), "where" (geospatial data), "what" (topical data), and "with whom" (networks and trees); and to systems that drive research and development. Examples of projects undertaken for clients include an interactive visualization of the success of game player activity in World of Warcraft; a visualization of 311 number adoption that shows the diffusion of non-emergency calls in the United States; a return on investment study for two decades of HIV/AIDS research funding by NIAID; and a map showing the impact of the HiveNYC Learning Network. Visual Insights will be an essential resource on basic information visualization techniques for scholars in many fields, students, designers, or anyone who works with data.

Sparse representation of visual data for compression and compressed sensing Ehsan Miandji,2018-11-23 The ongoing advances in computational photography have introduced a range of new imaging techniques for capturing multidimensional visual data such as light fields, BRDFs, BTFs, and more. A key challenge inherent to such imaging techniques is the large amount of high dimensional visual data that is produced, often requiring GBs, or even TBs, of storage. Moreover, the utilization of these datasets in real time applications poses many difficulties due to the large memory footprint. Furthermore, the acquisition of large-scale visual data is very challenging and expensive in most cases. This thesis makes several contributions with regards to acquisition, compression, and real time rendering of high dimensional visual data in computer graphics and imaging applications. Contributions of this thesis reside on the strong foundation of sparse representations. Numerous applications are presented that utilize sparse representations for compression and compressed sensing of visual data. Specifically, we present a single sensor light field camera design, a compressive rendering method, a real time precomputed photorealistic rendering technique, light field (video) compression and real time rendering, compressive BRDF capture, and more. Another key contribution of this thesis is a general framework for compression and compressed sensing of visual data, regardless of the dimensionality. As a result, any type of discrete visual data with arbitrary dimensionality can be captured, compressed, and rendered in real time. This thesis makes two theoretical contributions. In particular, uniqueness conditions for recovering a sparse signal under an ensemble of multidimensional dictionaries is presented. The theoretical results discussed here are useful for designing efficient capturing devices for multidimensional visual data. Moreover, we derive the probability of successful recovery of a noisy sparse signal using OMP, one of the most widely used algorithms for solving compressed sensing problems.

Visual Data Mining Simeon Simoff,Michael H. Böhlen,Arturas Mazeika,2008-07-18 The

importance of visual data mining, as a strong sub-discipline of data mining, had already been recognized in the beginning of the decade. In 2005 a panel of renowned individuals met to address the shortcomings and drawbacks of the current state of visual information processing. The need for a systematic and methodological development of visual analytics was detected. This book aims at addressing this need. Through a collection of 21 contributions selected from more than 46 submissions, it offers a systematic presentation of the state of the art in the field. The volume is structured in three parts on theory and methodologies, techniques, and tools and applications.

Using Visual Data in Qualitative Research Marcus Banks,2008-03-05 Examining the wide range of uses of visual images in qualitative research, Using Visual Data in Qualitative Research incorporates discussion of visual data produced by the researcher, and that produced by those under study. It provides a comprehensive introduction to the practice of visually-orientated research.

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