

Shixia Liu · Weikai Yang · Junpeng Wang ·
Jun Yuan

Visualization for Artificial Intelligence

And High Performance Visualization Synthesis Lectures

Lingsheng Yao



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Visualization for Artificial Intelligence Shixia Liu, Weikai Yang, Junpeng Wang, Jun Yuan, 2024-12-21 This book explores how visualization provides an effective way of improving not only the interpretability but also the generalization capabilities of machine learning models. It shows how visualization can bridge the gap between complex models or algorithms and human understanding while also facilitating data curation and model refinement. Therefore, visualization for artificial intelligence VIS4AI has become an emerging area that combines interactive visualization with machine learning techniques to maximize their values. VIS4AI techniques focus on every phase of the machine learning life cycle from data preprocessing to model development and deployment. These techniques are closely aligned with the well-established data and model pipelines in machine learning. In the data pipeline, they contribute to improving data quality and feature quality including training data cleaning and feature engineering. In the model pipeline, they support 1 model development by focusing on model understanding, diagnosis, and steering, and 2 model deployment by enabling decision explanation, model performance monitoring, and model maintenance. This book provides a framework of VIS4AI and introduces the associated techniques in the two pipelines. It emphasizes the importance of interactive visualization in AI and presents various visualization techniques for different purposes. It also discusses the challenges and opportunities of VIS4AI and proposes several promising research topics for future work, such as improving training data using complementary modalities, online training, diagnosis, fitting the dynamic nature of AI systems, and interactively pre-training and adapting foundation models. Overall, this book aims to serve as a resource for researchers and practitioners interested in both visualization and artificial intelligence. High Performance Visualization Kelly Gaither, 2009-04-15 *Innovative Research and Applications in Next-Generation High Performance Computing* Hassan, Qusay F., 2016-07-05 High performance computing (HPC) describes the use of connected computing units to perform complex tasks. It relies on parallelization techniques and algorithms to synchronize these disparate units in order to perform faster than a single processor could alone. Used in industries from medicine and research to military and higher education, this method of computing allows for users to complete complex data-intensive tasks. This field has undergone many changes over the past decade and will continue to grow in popularity in the coming years. *Innovative Research Applications in Next Generation High Performance Computing* aims to address the future challenges, advances, and applications of HPC and related technologies. As the need for such processors increases, so does the importance of developing new ways to optimize the performance of these supercomputers. This timely publication provides comprehensive information for researchers, students in ICT programs, developers, military and government organizations, and business professionals. **Principles of 3D Image Analysis and Synthesis** Bernd Girod, Günther Greiner, Heinrich Niemann, 2000-05-31 Traditionally, say 15 years ago, three-dimensional image analysis aka computer vision and three-dimensional image synthesis aka computer graphics were separate fields. Rarely were expert The Synthesis of Three

Dimensional Haptic Textures: Geometry, Control, and Psychophysics Gianni Campion, 2011-05-16 The sense of touch is fundamental during the interaction between humans and their environment in virtual reality objects are created by computer simulations and they can be experienced through haptic devices In this context haptic textures are fundamental for a realistic haptic perception of virtual objects This book formalizes the specific artefacts corrupting the rendering of virtual haptic textures and offers a set of simple conditions to guide haptic researchers towards artefact free textures The conditions identified are also extremely valuable when designing psychophysical experiments and when analyzing the significance of the data collected The Synthesis of Three Dimensional Haptic Textures Geometry Control and Psychophysics examines the problem of rendering virtual haptic textures with force feedback devices The author provides an introduction to the topic of haptic textures that covers the basics of the physiology of the skin the psychophysics of roughness perception and the engineering challenges behind haptic textures rendering The book continues with the presentation of a novel mathematical framework that characterizes haptic devices texturing algorithms and their ability to generate realistic haptic textures Finally two psychophysical experiments link the perception of roughness with the parameters of the haptic rendering algorithms This book formalizes the specific artefacts corrupting the rendering of virtual haptic textures and offers a set of simple conditions to guide haptic researchers towards artefact free textures The conditions identified are also extremely valuable when designing psychophysical experiments and when analyzing the significance of the data collected

Handbook of Digital Image Synthesis Vincent Pegoraro, 2016-12-12 The Handbook of Digital Image Synthesis is the most up to date reference guide in the rapidly developing field of computer graphics A wide range of topics such as applied mathematics data structures and optical perception and imaging help to provide a well rounded view of the necessary formulas for computer rendering In addition to this diverse approach the presentation of the material is substantiated by numerous figures and computer generated images From basic principles to advanced theories this book provides the reader with a strong foundation of computer formulas and rendering through a step by step process Key Features Provides unified coverage of the broad range of fundamental topics in rendering Gives in depth treatment of the basic and advanced concepts in each topic Presents a step by step derivation of the theoretical results needed for implementation Illustrates the concepts with numerous figures and computer generated images Illustrates the core algorithms using platform independent pseudo code

Eye Tracking and Visual Analytics Michael Burch, 2022-09-01 Visualization and visual analytics are powerful concepts for exploring data from various application domains The endless number of possible parameters and the many ways to combine visual variables as well as algorithms and interaction techniques create lots of possibilities for building such techniques and tools The major goal of those tools is to include the human users with their tasks at hand their hypotheses and research questions to provide ways to find solutions to their problems or at least to hint them in a certain direction to come closer to a problem solution However due to the sheer number of design variations it is unclear which technique is

suitable for those tasks at hand requiring some kind of user evaluation to figure out how the human users perform while solving their tasks The technology of eye tracking has existed for a long time however it has only recently been applied to visualization and visual analytics as a means to provide insights to the users visual attention behavior This generates another kind of dataset that has a spatio temporal nature and hence demands for advanced data science and visual analytics concepts to find insights into the recorded eye movement data either as a post process or even in real time This book describes aspects from the interdisciplinary field of visual analytics but also discusses more general approaches from the field of visualization as well as algorithms and data handling A major part of the book covers research on those aspects under the light and perspective of eye tracking building synergy effects between both fields eye tracking and visual analytics in both directions i.e. eye tracking applied to visual analytics and visual analytics applied to eye tracking data Technical topics discussed in the book include Visualization Visual Analytics User Evaluation Eye Tracking Eye Tracking Data Analytics Eye Tracking and Visual Analytics includes more than 500 references from the fields of visualization visual analytics user evaluation eye tracking and data science all fields which have their roots in computer science Eye Tracking and Visual Analytics is written for researchers in both academia and industry particularly newcomers starting their PhD but also for PostDocs and professionals with a longer research history in one or more of the covered research fields Moreover it can be used to get an overview about one or more of the involved fields and to understand the interface and synergy effects between all of those fields The book might even be used for teaching lectures in the fields of information visualization visual analytics and or eye tracking

Exploiting the Power of Group Differences Guozhu Dong, 2022-05-31 This book presents pattern based problem solving methods for a variety of machine learning and data analysis problems The methods are all based on techniques that exploit the power of group differences They make use of group differences represented using emerging patterns aka contrast patterns which are patterns that match significantly different numbers of instances in different data groups A large number of applications outside of the computing discipline are also included Emerging patterns EPs are useful in many ways EPs can be used as features as simple classifiers as subpopulation signatures characterizations and as triggering conditions for alerts EPs can be used in gene ranking for complex diseases since they capture multi factor interactions The length of EPs can be used to detect anomalies outliers and novelties Emerging contrast pattern based methods for clustering analysis and outlier detection do not need distance metrics avoiding pitfalls of the latter in exploratory analysis of high dimensional data EP based classifiers can achieve good accuracy even when the training datasets are tiny making them useful for exploratory compound selection in drug design EPs can serve as opportunities in opportunity focused boosting and are useful for constructing powerful conditional ensembles EP based methods often produce interpretable models and results In general EPs are useful for classification clustering outlier detection gene ranking for complex diseases prediction model analysis and improvement and so on EPs are useful for many tasks because they represent group

differences which have extraordinary power Moreover EPs represent multi factor interactions whose effective handling is of vital importance and is a major challenge in many disciplines Based on the results presented in this book one can clearly say that patterns are useful especially when they are linked to issues of interest We believe that many effective ways to exploit group differences power still remain to be discovered Hopefully this book will inspire readers to discover such new ways besides showing them existing ways to solve various challenging problems **Graph Mining** Deepayan

Chakrabarti,Christos Faloutsos,2022-05-31 What does the Web look like How can we find patterns communities outliers in a social network Which are the most central nodes in a network These are the questions that motivate this work Networks and graphs appear in many diverse settings for example in social networks computer communication networks intrusion detection traffic management protein protein interaction networks in biology document text bipartite graphs in text retrieval person account graphs in financial fraud detection and others In this work first we list several surprising patterns that real graphs tend to follow Then we give a detailed list of generators that try to mirror these patterns Generators are important because they can help with what if scenarios extrapolations and anonymization Then we provide a list of powerful tools for graph analysis and specifically spectral methods Singular Value Decomposition SVD tensors and case studies like the famous pageRank algorithm and the HITS algorithm for ranking web search results Finally we conclude with a survey of tools and observations from related fields like sociology which provide complementary viewpoints Table of Contents Introduction Patterns in Static Graphs Patterns in Evolving Graphs Patterns in Weighted Graphs Discussion The Structure of Specific Graphs Discussion Power Laws and Deviations Summary of Patterns Graph Generators Preferential Attachment and Variants Incorporating Geographical Information The RMat Graph Generation by Kronecker Multiplication Summary and Practitioner s Guide SVD Random Walks and Tensors Tensors Community Detection Influence Virus Propagation and Immunization Case Studies Social Networks Other Related Work Conclusions Mining Latent Entity Structures Chi Wang,Jiawei

Han,2022-05-31 The big data era is characterized by an explosion of information in the form of digital data collections ranging from scientific knowledge to social media news and everyone s daily life Examples of such collections include scientific publications enterprise logs news articles social media and general web pages Valuable knowledge about multi typed entities is often hidden in the unstructured or loosely structured interconnected data Mining latent structures around entities uncovers hidden knowledge such as implicit topics phrases entity roles and relationships In this monograph we investigate the principles and methodologies of mining latent entity structures from massive unstructured and interconnected data We propose a text rich information network model for modeling data in many different domains This leads to a series of new principles and powerful methodologies for mining latent structures including 1 latent topical hierarchy 2 quality topical phrases 3 entity roles in hierarchical topical communities and 4 entity relations This book also introduces applications enabled by the mined structures and points out some promising research directions

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Table of Contents And High Performance Visualization Synthesis Lectures

1. Understanding the eBook And High Performance Visualization Synthesis Lectures
 - The Rise of Digital Reading And High Performance Visualization Synthesis Lectures
 - Advantages of eBooks Over Traditional Books
2. Identifying And High Performance Visualization Synthesis Lectures
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an And High Performance Visualization Synthesis Lectures
 - User-Friendly Interface
4. Exploring eBook Recommendations from And High Performance Visualization Synthesis Lectures
 - Personalized Recommendations
 - And High Performance Visualization Synthesis Lectures User Reviews and Ratings
 - And High Performance Visualization Synthesis Lectures and Bestseller Lists
5. Accessing And High Performance Visualization Synthesis Lectures Free and Paid eBooks
 - And High Performance Visualization Synthesis Lectures Public Domain eBooks
 - And High Performance Visualization Synthesis Lectures eBook Subscription Services
 - And High Performance Visualization Synthesis Lectures Budget-Friendly Options
6. Navigating And High Performance Visualization Synthesis Lectures eBook Formats

- ePub, PDF, MOBI, and More
- And High Performance Visualization Synthesis Lectures Compatibility with Devices
- And High Performance Visualization Synthesis Lectures Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of And High Performance Visualization Synthesis Lectures
 - Highlighting and Note-Taking And High Performance Visualization Synthesis Lectures
 - Interactive Elements And High Performance Visualization Synthesis Lectures
- 8. Staying Engaged with And High Performance Visualization Synthesis Lectures
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers And High Performance Visualization Synthesis Lectures
- 9. Balancing eBooks and Physical Books And High Performance Visualization Synthesis Lectures
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection And High Performance Visualization Synthesis Lectures
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine And High Performance Visualization Synthesis Lectures
 - Setting Reading Goals And High Performance Visualization Synthesis Lectures
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of And High Performance Visualization Synthesis Lectures
 - Fact-Checking eBook Content of And High Performance Visualization Synthesis Lectures
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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