

Chapter 8

Detecting Abrupt Changes and Emerging Trends

Distinguishing wiggles from genuine turning points is a serious and difficult problem.

Arthur M. Okun (1960)

Various changes can be broadly categorized as gradual changes or abrupt changes. A gradual change may take millions of years in examples such as human evolution and the expansion of the universe. An abrupt change can occur within days, hours, or seconds in examples such as avalanches, volcano eruptions, a stock market crash, or the spread of epidemic diseases. Whether a change is gradual or abrupt is determined within the contextual scale of specific subject domains. For example, on the scale of history, the industrial revolution and scientific revolutions are regarded as abrupt changes. On the other hand, the Chicago Fire and Hurricane Isabel were certainly abrupt change on a much smaller time-scale. It may take months to recognize a recession formally, but investors on the stock market may have to deal with the abrupt changes in stock prices. In general, abrupt changes are harder to deal with than gradual changes.

The question whether it is possible to predict changes is as old as our civilization. To be able to predict the future is part of our dream. In many situations, we wish we could get hold of a crystal ball to see the future. Among various characteristics of changes, we are particularly interested in the beginning and the end of a change – turning points.

This chapter addresses three major examples that illustrate the detection and visualization mechanisms underlying the detection of changes, namely how economists detect turning points that lead in and lead out of a recession in the economy, how text retrieval researchers detect emerging thematic patterns in text documents, and how knowledge domain analysts may use progressive visualization techniques to identify intellectual turning points that trigger scientific revolutions.

8.1 The Complexity of Abrupt Changes

Abrupt climate changes, natural disasters, and diseases are among the major forces that brought down several ancient civilizations. The complexity of the dynamics behind profound changes is illustrated in the following examples. The Anasazi civilization's collapse and the Lost Colony mystery shed some light on understanding important characteristics, especially for detecting abrupt changes and emerging trends.

Las Vegas, Nevada, is the fastest-growing metropolis in the USA. Its population has increased sharply in recent decades; for example, its population of 273,000 in 1972 was almost tripled in 1986 to 608,000. The growth of Las Vegas can be seen in Landsat images (Figure 8.1).

Information Visualization Beyond The Horizon

Ursyn, Anna



Information Visualization Beyond The Horizon:

Information Visualization Chaomei Chen, 2009-10-12 Information visualization is not only about creating graphical displays of complex and latent information structures. It also 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. It 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.

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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.

Information Retrieval Meets Information Visualization Maristella Agosti, Nicola Ferro, Pamela Forner, Henning Müller, Giuseppe Santucci, 2013-01-24 The research domains information retrieval and information visualization have always been independent from each other.

However they have the potential to be mutually beneficial With this in mind a writer school was organized in Zinal Switzerland in January 2012 within the context of the EU funded research project PROMISE Participative Research Laboratory for Multimedia and Multilingual Information Systems Evaluation PROMISE aims at advancing the experimental evaluation of complex multimedia and multilingual information systems in order to support individuals commercial entities and communities who design develop employ and improve such complex systems The overall goal of PROMISE is to deliver a unified environment collecting data knowledge tools and methodologies and to help the user community involved in experimental evaluation This book constitutes the outcome of the PROMISE Winter School 2012 and contains 11 invited lectures from the research domains information retrieval and information visualization A large variety of subjects are covered including hot topics such as crowdsourcing and social media

Information Visualization Techniques in the Social Sciences and Humanities Osinska, Veslava, Osinski, Grzegorz, 2018-03-23 The representation of abstract data and ideas can be a difficult and tedious task to handle when learning new concepts however the advances in emerging technology have allowed for new methods of representing such conceptual data Information Visualization Techniques in the Social Sciences and Humanities is a critical scholarly resource that examines the application of information visualization in the social sciences and humanities Featuring coverage on a broad range of topics such as social network analysis complex systems and visualization aesthetics this book is geared towards professionals students and researchers seeking current research on information visualization

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi, 2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher

Population Health Informatics Joshi, Lorna Thorpe, Levi Waldron, 2017-09-26 Population Health Informatics addresses the growing opportunity to utilize technology to put into practice evidence based solutions to improve population health outcomes across diverse settings The book focuses on how to operationalize population informatics solutions to address important public health challenges impacting individuals families communities and the environment in which they live The book uniquely uses a practical step by step approach to implement evidence based data driven population informatics solutions

Approaches in Integrative Bioinformatics Ming Chen, Ralf Hofestädt, 2014-01-18 Approaches in Integrative Bioinformatics provides a basic introduction to biological information systems as well as guidance for the computational analysis of systems biology This book also covers a range of issues and methods that reveal the multitude of omics data integration types and the relevance that integrative bioinformatics has today Topics include biological data integration and manipulation modeling and simulation of metabolic networks transcriptomics and phenomics and virtual cell approaches as well as a number of applications of network biology It helps to illustrate the value of integrative bioinformatics approaches to

the life sciences This book is intended for researchers and graduate students in the field of Bioinformatics Professor Ming Chen is the Director of the Bioinformatics Laboratory at the College of Life Sciences Zhejiang University Hangzhou China Professor Ralf Hofest dt is the Chair of the Department of Bioinformatics and Medical Informatics Bielefeld University Germany E-Science and Information Management Serap Kurbanoglu,Umut Al,Phyllis Lapon Erdogan,Nazan Ucak,2012-08-30 This book constitutes the refereed proceedings of the Third International Symposium on Information Management in a Changing World IMCW 2012 held in Ankara Turkey in September 2012 The 16 revised full papers presented together with three keynotes were carefully reviewed and selected from more than 30 submissions The papers are organized in topical sections on e science and information management scholarly communication and institutional repositories information literacy and academic libraries different perspectives on information management *VizSEC 2007* John R. Goodall,Gregory Conti,Kwan-Liu Ma,2008-05-27 Networked computers are ubiquitous and are subject to attack misuse and abuse One method to counteracting this cyber threat is to provide security analysts with better tools to discover patterns detect anomalies identify correlations and communicate their findings Visualization for computer security VizSec researchers and developers are doing just that VizSec is about putting robust information visualization tools into the hands of human analysts to take advantage of the power of the human perceptual and cognitive processes in solving computer security problems This volume collects the papers presented at the 4th International Workshop on Computer Security VizSec 2007 **EHealth Beyond the Horizon** European Federation for Medical Informatics. International Congress,Stig Kjær Andersen,2008 The first part of the MIE 2008 conference theme eHealth Beyond the Horizon highlights the expectations for the future of ehealth and raises the question What sort of developments in ehealth services can we imagine emerging above the horizon in the years to come EHealth Beyond the Horizon contains a good number of high quality papers giving different perspectives of this future some of them already available today in picot scale some of them outlined in visions The second part of the theme Get IT There has triggered a large number of papers describing how to create evaluate adjust and deliver products and deploy services in healthcare organizations for the necessary information technology as a basis for the ehealth applications that are essential in order to respond to the challenges of the health systems The papers in the proceedings are grouped by themes according to the submission categories and the supplied keywords As the last theme three doctoral students from different areas of medical informatics were selected to present and discuss their research under the guidance of a panel of distinguished research faculties New Trends in Qualitative and Quantitative Methods in Libraries Anthi Katsirikou,Christos H. Skiadas,2012 An Autodesk Official Press guide to the powerful mechanical design software Autodesk Inventor has been used to design everything from cars and airplanes to appliances and furniture This comprehensive guide to Inventor and Inventor LT features real world workflows and work environments and is packed with practical tutorials that focus on teaching Inventor tips tricks and techniques Additionally you can download datasets to jump in and practice on any

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Graphical Thinking for Science and Technology Through Knowledge Visualization Ursyn, Anna,2019-11-22 With the advancement of technology in the modern world the constant influx of data information and computing can become droning and one dimensional Re examining these methods through a different approach helps highlight broader perspectives and further understanding Applying abstract and holistic methods such as nature and visualization to computing technologies is a developing area of study but has yet to be empirically researched Graphical Thinking for Science and Technology Through

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Handbook of Research on Maximizing Cognitive Learning through Knowledge Visualization Ursyn, Anna, 2015-02-28. The representation of abstract data and ideas can be a difficult and tedious task to handle when learning new concepts; however, the advances of emerging technology have allowed for new methods of representing such conceptual data. The Handbook of Research on Maximizing Cognitive Learning through Knowledge Visualization focuses on the use of visualization technologies to assist in the process of better comprehending scientific concepts, data, and applications. Highlighting the utilization of visual power and the roles of sensory perceptions, computer graphics, animation, and digital storytelling, this book is an essential reference source for instructors, engineers, programmers, and software developers interested in the exchange of information through the visual depiction of data.

Digitally Supported Innovation Leonardo Caporarello, Fabrizio Cesaroni, Raphael Giesecke, Michele Missikoff, 2016-07-27. This book provides a broad overview of Information and Communication Technology (ICT) supported innovation both on an evidence-based level, a theoretical level, and a methodological level. It presents multi-disciplinary perspectives on organizational innovation in enterprises and the public sector, and on the ubiquitous social media-based user innovations. The book especially highlights innovation in knowledge work and human-computer interaction, innovation of and in socio-technical systems, and user-based innovation in public services. It draws upon evidence from various areas of application, including innovative mobility and the factories of the future. The studies presented here will be helpful both for innovation scholars and practitioners in industry, as well as innovators at large in their current and future studies and undertakings.

Digital Libraries: Social Media and Community Networks Shalini R. Urs, Jin-Cheon Na, George Buchanan, 2013-12-04. This book constitutes the refereed proceedings of the 15th International Conference on Asia Pacific Digital Libraries (ICADL 2013) held in Bangalore, India, in December 2013. The 15 revised full papers, 6 revised short papers, and 10 poster papers were carefully reviewed and selected from 87 submissions. The papers are organized in topical sections on information retrieval, social architecture for digital libraries, and information policy, digital library applications and systems, data mining for digital libraries, collaboration and communities, analysing social media and social networks, mobile devices and services, and metadata and information extraction.

Virtual Reality in Education: Breakthroughs in Research and Practice Management Association, Information Resources, 2019-04-01. Modern technology has infiltrated many facets of society, including educational environments. Through the use of virtual learning, educational systems can become more efficient at teaching the student population and break down cost and distance.

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