

internal view and develop an understanding of information and knowledge to be transferred.

- Visual is a crystallization of information.

## Visual Represent the Data of Application

In this study, visual ability is adapted to the environment of science of hadith. The focus is on the narrators of Hadith who present material (content of Hadith) and the sanad or chain of transmission or link between the narrators of Hadith (Atikullah, 2005; Nawer, 2003; Subhi Salih, 1993).

At present, knowledge of hadith related information may be obtained in writing or electronically. But technology use in hadith sciences is still relatively limited. Material is relatively easily available in electronic form. Source of data on the narrator is still limited. Information can be obtained on a variety of narrators in the dictionary of narrators. While the relationship with the Hadith is something to be achieved through the Hadith books such as Sahih Muslim and Sahih al-Bukhari, information and chain of transmission (sanad) occurs through many narrators and their relationship is quite complex. The complex process of data acquisition took a long time. But in this study, the use of visual presentation of information is designed to reflect the knowledge of Hadith transmission.

Borner et al. (2003) states that the traditional method makes it difficult for members of that knowledge to sort data based on the literature. Traditional methods involve time and increase errors and data duplication. Small (2000) also stated that the intersection of disciplines shows sensitivity to the wider review of the creative imagination and manipulation of external information or information in other fields to solve an existing problem. The effort in the acquisition of knowledge of hadith is seen as an effort to preserve the well-protected sanad based on love for the traditions of the Prophet (blessings and peace be upon him).

This study suggests that each image of the object is seen with its own set of visual features. Differences in feature set of objects have great impact on the identification of an object. Objects that have different features to help the identification are processed much faster. The researcher believes that in line with the view of Healey (2007), development of information visualization application need to take into account the interests of Theory of Visual Perception that show a high contribution in influencing the process of identifying visual images seen.

This study suggests that appropriate visual design can assist in the identification and perception of visual information via the visualization application. Visual design can affect components of the human visual system capable of low level visual identification on a regular and accurate rate of visual basic characteristics such as color, shape and line.

## Methodology

The usability testing of heuristic (Hui, 2002) are the methodology of this study. According to Hui (2002), usability is a part of system acceptability however usability is more focused on the interface of system. Meanwhile, heuristic is one of the methods of system evaluation bases on expert evaluation that focus on the system design with the usability principles. This study uses the adaptation of usability testing and heuristic as suggested by Hui that mentioned adaptation of evaluation method is needed to evaluate the application.

There are 8 metrics of heuristic evaluation which are system

interaction, conciseness, retention, coherence, consistency, comprehensibility, fit for audience and fit for purpose. For this study, the evaluation basis on the visual design is stated in the 5 metrics of heuristic which are conciseness, retention, coherence, consistency, comprehensibility as shown in Table 1.

There are two types of instruments which are survey towards the visual design of the application after using the application and observation form towards the reflection on their learning process using the application. This study involves 241 students as respondents to respond on the metric of heuristic. Meanwhile 20 of them are selected by randomly as respondents to respond on the effect of visual design toward learning science of hadith knowledge.

## Application Design of Visual Perception Theory

The application design images be used to help people compare the target image with the image environment. Humans also make comparisons based on the characteristics belonging to a visible image. There are visual interpretation processes that can be done more quickly and effectively based on the design of image development. This study suggests that appropriate design be developed to suit the type of data in the field of Hadith. The application uses a different image and in line with the objective of development of the application it can help identify and make reference in the interpretation of the narrator and the chain of transmission sanad as example shows in Figure 1.

## Findings

This paper discusses two types of finding. The first finding discusses on the usability of the Hadith visualization application basis on the 5 metrics of heuristic which are conciseness, retention, coherence, consistency, comprehensibility. The second finding discusses on the effect of learning science of hadith knowledge using the Hadith visualization application.

**Table 1.**  
Metrics of heuristic for usability evaluations.

No	Metrics of Heuristic	Description
1.	Conciseness	The chain of the narrators stated precisely although narrator have overlap sanad and hadith. Information displayed naturally according to hadith narrated.
2.	Retention	Information displayed use a simple representation for example showing relationship between narrators use initial name, arrow mark and colour to facilitate data mapping in mind.
3.	Coherence	Different window have the continuity of information. This continuity facilitates data achievement, understandable, clear and easy to get overall idea from the display.
4.	Consistency	Icon usage and the same features of data representation facilitate user understand application without any confusion.
5.	Comprehensibility	Interface of application is readily understandable. Visual design support comprehension process and chain pattern of the sanad in hadith domain.

# Information Visualization Iv 2003 Proceedings

**Ernesto Damiani, George  
Spanoudakis, Leszek A. Maciaszek**



## **Information Visualization Iv 2003 Proceedings:**

**Information Visualization** Chaomei Chen, 2006-05-23 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.

**Information Visualisation** Ebad Banissi, Camilla Forsell, Francis T. Marchese, 2014-10-21 Information visualisation is the field of study that is concerned with the development of methods for transforming abstract complex data into visual representations in order to make that data more easily communicable and understandable. This volume reviews recent developments in information visualisation techniques, their application and methods for their evaluation. It offers a wide range of examples of applied information visualisation from across disciplines such as history, art, the hum

**Graph Drawing and Network Visualization** Emilio Di Giacomo, Anna Lubiw, 2015-12-16 This book constitutes the proceedings of the 23rd International Symposium on Graph Drawing and Network Visualization GD 2015 held in Los Angeles, CA, USA, in September 2015. The 35 full papers presented together with 7 short papers and 8 posters in this volume were carefully reviewed and selected from 77 submissions. Graph Drawing is concerned with the geometric representation of graphs and constitutes the algorithmic core of Network Visualization. Graph Drawing and Network Visualization are motivated by applications where it is crucial to visually analyze and interact with relational datasets. Examples of such application areas include social sciences, Internet and Web computing, information systems, computational biology, networking, VLSI circuit design and software engineering. This year the Steering Committee of GD decided to extend the name of the conference from the International Symposium on Graph Drawing to the International Symposium on Graph Drawing and Network Visualization in order to better emphasize the dual focus of the conference on combinatorial and algorithmic aspects as well as the design of network visualization systems and interfaces.

**GeoComputation** Robert J. Abraham, Linda M. See, 2014-06-23 A revision of Openshaw and Abraham's seminal work *GeoComputation*. Second Edition retains influences of its originators while also providing updated state of the art information on changes in the computational environment. In keeping with the field's development, this new edition takes a broader view and provides comprehensive coverage across the

**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

**Proceedings of IAC in Vienna 2017** collective of authors, 2017-11-20 International Academic Conference on Global Education Teaching and Learning and International Academic Conference on Management Economics Business and Marketing and International Academic Conference on Transport Logistics Tourism and Sport Science Vienna Austria 2017 IAC GETL IAC MEBM 2017 IAC TLTS 2017 November 24 25 2017

**Successes and New Directions in Data Mining** Florent Masseglia, Pascal Poncelet, Maguelonne Teisseire, 2008-01-01 This book addresses existing solutions for data mining with particular emphasis on potential real world applications It captures defining research on topics such as fuzzy set theory clustering algorithms semi supervised clustering modeling and managing data mining patterns and sequence motif mining Provided by publisher

*Trends in Interactive Visualization* Elena Zudilova-Seinstra, Tony Adriaansen, Robert van Liere, 2008-12-17 II Challenges in Data Mapping Part II deals with one of the most challenging tasks in Interactive Visualization mapping and teasing out information from large complex datasets and generating visual representations This section consists of four chapters Binh Pham Alex Streit and Ross Brown provide a comprehensive requirement analysis of information uncertainty visualizations They examine the sources of uncertainty review aspects of its complexity introduce typical models of uncertainty and analyze major issues in visualization of uncertainty from various user and task perspectives Alfred Inselberg examines challenges in the multivariate data analysis He explains how relations among multiple variables can be mapped uniquely into space subsets having geometrical properties and introduces Parallel Coordinates methodology for the unambiguous visualization and exploration of a multidimensional geometry and multivariate relations Christiaan Gribble describes two alternative approaches to interactive particle visualization one targeting desktop systems equipped with programmable graphics hardware and the other targeting moderately sized multicore systems using pack based ray tracing Finally Christof Rezk Salama reviews state of the art strategies for the assignment of visual parameters in scientific visualization systems He explains the process of mapping abstract data values into visual based on transfer functions clarifies the terms of pre and postclassification and introduces the state of the art user interfaces for the design of transfer functions

*Advances in Internet, Data and Web Technologies* Leonard Barolli, Yoshihiro Okada, Flora Amato, 2020-01-30 This book presents original contributions on the theories and practices of emerging Internet data and web technologies and their applicability in businesses engineering and academia The Internet has become the most proliferative platform for emerging large scale computing paradigms Among them data and web technologies are two most prominent paradigms and manifest in a variety of forms such as data centers cloud computing

mobile cloud mobile web services and so on Together these technologies form a digital ecosystem based on the data cycle from capturing to processing analysis and visualization The investigation of various research and development issues in this digital ecosystem is made all the more important by the ever increasing needs of real life applications which involve storing and processing large amounts of data As a key feature the book addresses advances in the life cycle exploitation of data generated from the digital ecosystem and data technologies that create value for businesses moving toward a collective intelligence approach Given its scope the book offers a valuable reference guide for researchers software developers practitioners and students interested in the field of data and web technologies

Evaluation of Novel Approaches to Software Engineering Ernesto Damiani, George Spanoudakis, Leszek A. Maciaszek, 2020-02-08 This book constitutes selected revised and extended papers of the 14th International Conference on Evaluation of Novel Approaches to Software Engineering ENASE 2019 held in Heraklion Crete Greece in May 2019 The 19 revised full papers presented were carefully reviewed and selected from 102 submissions The papers included in this book contribute to the understanding of relevant trends of current research on novel approaches to software engineering for the development and maintenance of systems and applications specically with relation to model driven software engineering requirements engineering empirical software engineering service oriented software engineering business process management and engineering knowledge management and engineering reverse software engineering software process improvement software change and configuration management software metrics software patterns and refactoring application integration software architecture cloud computing and formal methods

**Handbook of Visual Languages for Instructional Design: Theories and Practices** Botturi, Luca, Stubbs, Todd, 2007-12-31 Presents languages and notation systems of ID and the integration of these technologies in education

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 The nature of what makes a rule interesting to a user has been discussed 1 widely but most agree that it is a subjective quality based on the practical usefulness 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 influence 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 investigated 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 inefficient as they fail to directly 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 interactive 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

**Distributed, Ambient, and Pervasive Interactions** Norbert Streitz, Constantine Stephanidis, 2013-07-02 This book constitutes the refereed proceedings of the 5th International Conference on Distributed Ambient and Pervasive Interactions DAPI 2013 held as part of the 15th International Conference on Human Computer Interaction HCII 2013 held in Las Vegas USA in July 2013 jointly with 12 other thematically similar conferences The total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 54 contributions was carefully reviewed and selected for inclusion in the DAPI proceedings The papers are organized in the following topical sections natural interaction context awareness in smart and intelligent environments design and evaluation of smart and intelligent environments smart cities multi user group and collaborative interaction smart everyday living and working environments

**Mathematical Foundations of Scientific Visualization, Computer Graphics, and Massive Data Exploration** Torsten Möller, Bernd Hamann, Robert D. Russell, 2009-06-12 The goal of visualization is the accurate interactive and intuitive presentation of data Complex numerical simulations high resolution imaging devices and increasingly common environment embedded sensors are the primary generators of massive data sets Being able to derive scientific insight from data increasingly depends on having mathematical and perceptual models to provide the necessary foundation for effective data analysis and comprehension The peer reviewed state of the art research papers included in this book focus on continuous data models such as is common in medical imaging or computational modeling From the viewpoint of a visualization scientist we typically collaborate with an application scientist or engineer who needs to visually explore or study an object which is given by a set of sample points which originally may or may not have been connected by a mesh At some point one generally employs low order piecewise polynomial approximations of an object using one or several dependent functions In order to have an understanding of a higher dimensional geometrical object or function efficient algorithms supporting real time analysis and manipulation zooming are needed Often the data represents 3D or even time varying 3D phenomena such as medical data and the access to different layers slices and structures the underlying topology comprising such data is needed

*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

Perceptions of Knowledge Visualization: Explaining Concepts through Meaningful Images Ursyn, Anna, 2013-10-31

Multisensory perception is emerging as an important factor in shaping current lifestyles Therefore computer scientists engineers and technology experts are acknowledging the comparative power existing beyond visual explanations Perceptions of Knowledge Visualization Explaining Concepts through Meaningful Images discusses issues related to visualization of scientific concepts picturing processes and products as well as the role of computing in the advancement of visual literacy skills By connecting theory with practice this book gives researchers computer scientists and academics an active experience which enhances the perception and the role of computer graphics

#### **Schema Matching and Mapping** Zohra

Bellahsene, Angela Bonifati, Erhard Rahm, 2011-02-14 Requiring heterogeneous information systems to cooperate and communicate has now become crucial especially in application areas like e business Web based mash ups and the life sciences Such cooperating systems have to automatically and efficiently match exchange transform and integrate large data sets from different sources and of different structure in order to enable seamless data exchange and transformation The book edited by Bellahsene Bonifati and Rahm provides an overview of the ways in which the schema and ontology matching and mapping tools have addressed the above requirements and points to the open technical challenges The contributions from leading experts are structured into three parts large scale and knowledge driven schema matching quality driven schema mapping and evolution and evaluation and tuning of matching tasks The authors describe the state of the art by discussing the latest achievements such as more effective methods for matching data mapping transformation verification adaptation to the context and size of the matching and mapping tasks mapping driven schema evolution and merging and mapping evaluation and tuning The overall result is a coherent comprehensive picture of the field With this book the editors introduce

graduate students and advanced professionals to this exciting field For researchers they provide an up to date source of reference about schema and ontology matching schema and ontology evolution and schema merging

**Interactive Search Processes in Complex Work Situations - A Retrieval Framework** Raiko Eckstein,2011

**Interactive 3D Multimedia Content** Wojciech Cellary,Krzysztof Walczak,2012-01-07 The book describes recent research results in the areas of modelling creation management and presentation of interactive 3D multimedia content The book describes the current state of the art in the field and identifies the most important research and design issues Consecutive chapters address these issues These are database modelling of 3D content security in 3D environments describing interactivity of content searching content visualization of search results modelling mixed reality content and efficient creation of interactive 3D content Each chapter is illustrated with example applications based on the proposed approach The final chapter discusses some important ethical issues related to the widespread use of virtual environments in everyday life The book provides ready to use solutions for many important problems related to the creation of interactive 3D multimedia applications and will be a primary reading for researchers and developers working in this domain

**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

Information Visualization Iv 2003 Proceedings: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Information Visualization Iv 2003 Proceedings : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Information Visualization Iv 2003 Proceedings : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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