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# **Improving Database Usability and Responsiveness**

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**Edited by  
Peter Scheuermann**

# Improving Database Usability And Responsiveness

**Laurens R.A. Kessener, Frans J.  
Peters, Marloes L.P. van Lierop**



## **Improving Database Usability And Responsiveness:**

Improving Database Usability and Responsiveness Peter Scheuermann, 1982 The theme of usability and responsiveness has been enlarged to include new meanings of these words as they are reflected in a number of recent areas of database research Distributed database systems allow for decentralized control and location of data and they facilitate its usability by ensuring upward growth more reliability and faster access Semantic modeling has been accepted as an important tool in logical database design and in communication between users and designers In physical database design developments have occurred such as database machines which offload a substantial part of the work from the central processor to achieve more reliability and better performance The papers selected reflect these new interests and the continuing efforts to improve usability and responsiveness in query languages integrity concurrency consistency data translation and identification

**Databases, Improving Usability and Responsiveness** Ben Shneiderman, 1978 Query languages Simplifying design and implementation Data quality integrity and security Improving performance Distributed systems IMPROVING DATABASE USABILITY AND RESPONSIVENESS : PROCEEDINGS OF THE 2. INTERNAT. CONFERENCE ON DATABASES - IMPROVING USABILITY AND RESPONSIVENESS, JUNE 22 - 24, 1982, THE HEBREW UNIV. OF JERUSALEM, ISRAEL ,1982

**Data Base Management: Theory and Applications** Clyde Holsapple, A.B. Winston, 2012-12-06 This volume is based on lectures presented at the N A T O Advanced Studies Institute on Data Base Management Theory and Applications The meeting took place in Estoril Portugal for a two week period in June 1981 The lecturers represented distinguished research centers in industry government and academia Lectures presented basic material in data base management as well as sharing recent developments in the field The participants were drawn from data processing groups in government industry and academia located in N A T O countries All participants had a common goal of learning about the exciting new developments in the field of data base management with the potential for application to their fields of interest In addition to formal lectures and the informal discussions among participants which are characteristic of N A T O AS gatherings participants had the opportunity for hands on experience in building application systems with a data base management system Participants were organized into groups that designed and implemented application systems using data base technology on micro computers The collection of papers is organized into four major sections The first section deals with various aspects of data modeling from the conceptual and logical perspectives These issues are crucial in the initial design of application systems **GIS:**

**Technology And Applications: Proceedings Of The Far East Workshop On Geographic Information Systems** Beng Chin Ooi, Hongjun Lu, 1993-06-14 During the past decade we have witnessed the sharp increase in the use of Geographic Information Systems GIS for spatial data analysis particularly in the Far East This proceedings is a compilation of papers that range from advanced applications of GIS to the development of GIS The papers present new research problems and results experience and strategies in developing GIS projects **Query Processing in Database Systems** W. Kim, D.S. Reiner, Don

Batory,2012-12-06 This book is an anthology of the results of research and development in database query processing during the past decade The relational model of data provided tremendous impetus for research into query processing Since a relational query does not specify access paths to the stored data the database management system DBMS must provide an intelligent query processing subsystem which will evaluate a number of potentially efficient strategies for processing the query and select the one that optimizes a given performance measure The degree of sophistication of this subsystem often called the optimizer critically affects the performance of the DBMS Research into query processing thus started has taken off in several directions during the past decade The emergence of research into distributed databases has enormously complicated the tasks of the optimizer In a distributed environment the database may be partitioned into horizontal or vertical fragments of relations Replicas of the fragments may be stored in different sites of a network and even migrate to other sites The measure of performance of a query in a distributed system must include the communication cost between sites To minimize communication costs for queries involving multiple relations across multiple sites optimizers may also have to consider semi join techniques

ICDT '90 Serge Abiteboul,1990-12-03 The emergence of new paradigms for data management raises a variety of exciting challenges An important goal of database theory is to answer these challenges by providing sound foundations for the development of the field This volume contains the papers selected for the third International Conference on Database Theory ICDT 90 The conferences in this series are held biannually in beautiful European cities Rome in 1986 and Bruges in 1988 with proceedings published as volumes 234 and 326 in the same series ICDT 90 was organized in Paris by the Institut National de Recherche en Informatique et Automatique The conference features 2 invited presentations and 31 papers selected from 129 submissions The papers describe original ideas and new results on the foundations of databases knowledge bases object oriented databases relational theory transaction management data structures and deductive databases The volume offers a good overview of the state of the art and the current trends in database theory It should be a valuable source of information for researchers interested in the field

SQL & NoSQL Databases Andreas Meier,Michael Kaufmann,2019-07-05 This book offers a comprehensive introduction to relational SQL and non relational NoSQL databases The authors thoroughly review the current state of database tools and techniques and examine coming innovations The book opens with a broad look at data management including an overview of information systems and databases and an explanation of contemporary database types SQL and NoSQL databases and their respective management systems The nature and uses of Big Data A high level view of the organization of data management Data Modeling and Consistency Chapter length treatment is afforded Data Modeling in both relational and graph databases including enterprise wide data architecture and formulas for database design Coverage of languages extends from an overview of operators to SQL and and QBE Query by Example to integrity constraints and more A full chapter probes the challenges of Ensuring Data Consistency covering Multi User Operation Troubleshooting Consistency in Massive Distributed

Data Comparison of the ACID and BASE consistency models and more System Architecture also gets from its own chapter which explores Processing of Homogeneous and Heterogeneous Data Storage and Access Structures Multi dimensional Data Structures and Parallel Processing with MapReduce among other topics Post Relational and NoSQL Databases The chapter on post relational databases discusses the limits of SQL and what lies beyond including Multi Dimensional Databases Knowledge Bases and and Fuzzy Databases A final chapter covers NoSQL Databases along with Development of Non Relational Technologies Key Value Column Family and Document Stores XML Databases and Graphic Databases and more The book includes more than 100 tables examples and illustrations and each chapter offers a list of resources for further reading SQL NoSQL Databases conveys the strengths and weaknesses of relational and non relational approaches and shows how to undertake development for big data applications The book benefits readers including students and practitioners working across the broad field of applied information technology This textbook has been recommended and developed for university courses in Germany Austria and Switzerland

**Relational Databases** D A Bell, 2014-05-23 Relational Databases explores the major advances in relational databases and provides a balanced analysis of the state of the art in relational databases Topics covered include capture and analysis of data placement requirements distributed relational database systems data dependency manipulation in database schemata and relational database support for computer graphics and computer aided design This book is divided into three sections and begins with an overview of the theory and practice of distributed systems using the example of INGRES from Relational Technology as illustration The following chapters focus on whether relational and relational like systems actually meet business needs IBM s Structured Query Language Data System SQL DS tools for database design and programming and Secondary Access Methods and the problem of secondary index selection A number of quantitative models for assessing the performance of physical databases are also described This text concludes by assessing some of the most conspicuous trends in relational database research and development This monograph will be of interest to database designers

SQL and NoSQL Databases Michael Kaufmann, Andreas Meier, 2023-06-29 This textbook offers a comprehensive introduction to relational SQL and non relational NoSQL databases The authors thoroughly review the current state of database tools and techniques and examine upcoming innovations In the first five chapters the authors analyze in detail the management modeling languages security and architecture of relational databases graph databases and document databases Moreover an overview of other SQL and NoSQL based database approaches is provided In addition to classic concepts such as the entity and relationship model and its mapping in SQL database schemas query languages or transaction management other aspects for NoSQL databases such as non relational data models document and graph query languages MQL Cypher the Map Reduce procedure distribution options sharding replication or the CAP theorem Consistency Availability Partition Tolerance are explained This 2nd English edition offers a new in depth introduction to document databases with a method for modeling document structures an overview of the

document oriented MongoDB query language MQL as well as security and architecture aspects The topic of database security is newly introduced as a separate chapter and analyzed in detail with regard to data protection integrity and transactions Texts on data management database programming and data warehousing and data lakes have been updated In addition the book now explains the concepts of JSON JSON schema BSON index free neighborhood cloud databases search engines and time series databases The book includes more than 100 tables examples and illustrations and each chapter offers a list of resources for further reading It conveys an in depth comparison of relational and non relational approaches and shows how to undertake development for big data applications This way it benefits students and practitioners working across the broad field of data science and applied information technology

**Database Machines** H.-O. Leilich, M. Missikoff, 2012-12-06 The International Workshop on Database Machines in Munich is the third of its kind preceeded by the meetings in Florence Sept 81 and San Diego Sept 82 The workshop is aimed at providing an interchange of ideas and experience on computer systems designed to perform database operations more efficiently than general purpose computers with a software database management system Many proposals have been published during the past 10 years but now several systems have been built and practically implemented and some are even commercially available so that confrontation with the real world is starting to occur The kinds of question which arise during this phase of coming to maturity are those involved with evaluation and measurement The emphasis of the workshop is therefore on performance evaluation and the respective modelling techniques and methodology Data flow and other new topics including algorithms are also treated with respect to performance and efficiency We are glad to be able to include some papers on existing commercial products from both the designer and the user viewpoints We hope to encourage critical comments in this field and have arranged a session with the title Where Database Machines Are Going to be followed by a panel dis ussion

Foundations of Data Organization Sakti P. Ghosh, Yahiko Kambayashi, Katsume Tanaka, 2012-12-06 Foundations of data organization is a relatively new field of research in comparison to other branches of science It is close to twenty years old In this short life span of this branch of computer science it has spread to all corners of the world which is reflected in this book This book covers new database application areas databases for advanced applications and CAD VLSI databases computational geometry file allocation distributed databases database models including non traditional database models database machines query processing physical structures for relational databases besides traditional file organization hashing index file organization mathematical file organization and consecutive retrieval property in order to identify new trends of database research The papers in this book originally represent talks given at the International Conference on Foundations of Data Organization which was held on May 21 24 1985 in Kyoto Japan This conference was held at Kyoto University and sponsored by the organizing committee of the International Conference on Foundations of Data Organization and the Japan Society for the Promotion of Science The conference was in cooperation with ACM SIGMOD IEEE Computer Society Information Processing Society of Japan IBM

Research Kyushu University Kobe University IBM Japan Kyoto Sangyo University and Polish Academy of Sciences This Conference was the follow up of the first conference which was hosted by the Polish Academy of Sciences and held at Warsaw in 1981 The Warsaw conference focused mainly on consecutive retrieval property and its applications

**Design of Office Information Systems** Clarence A. Ellis, Najah Naffah, 2012-12-06 The goal of this book is to present a framework within which the myriad of office technologies and office systems design techniques can be better understood There are a number of office books which deal with the social organizational aspects of office automation or with office equipment introduction strategies This book differs from those in that it is written by technical computer people for technical computer people As such it assumes a general computer literacy and contains a technical emphasis with a social fiber woven in Besides the framework we also present the current state of office primitives office tools and office technology We cover relevant work on going by international standards bodies and we discuss the concepts that are emerging or which we feel will be emerging from universities and industrial research laboratories Office technologies and techniques are classified as personal environment aids versus communal environment aids We now fully realize how difficult it is to write a coherent book within this fuzzy interdisciplinary rapidly changing field Concepts have been stressed wherever possible there are some sub areas where the generalizing concepts have not yet emerged We also realize the potential danger of obsolescence We have tried to combat this somewhat by the presentation of concepts generic tool design and emphasizing our framework This book is not a substitute for reading of the current periodical literature that is where the most timely information lies

*Index of Conference Proceedings* British Library. Document Supply Centre, 1990

*Databases - Role and Structure* P. M. Stocker, Peter M. D. Gray, P. M. D. Gray, M. P. Atkinson, 1984-07-26

*Domain Knowledge for Interactive System Design* Alistair G. Sutcliffe, Frans van Assche, David Benyon, 2016-01-09 This book describes how domain knowledge can be used in the design of interactive systems It includes discussion of the theories and models of domain generic domain architectures and construction of system components for specific domains It draws on research experience from the Information Systems Software Engineering and Human Computer Interaction communities

*Advanced Topics in Intelligent Information and Database Systems* Dariusz Król, Ngoc Thanh Nguyen, Kiyooki Shirai, 2017-03-25 This book presents recent research in intelligent information and database systems The carefully selected contributions were initially accepted for presentation as posters at the 9th Asian Conference on Intelligent Information and Database Systems ACIIDS 2017 held from to 5 April 2017 in Kanazawa Japan While the contributions are of an advanced scientific level several are accessible for non expert readers The book brings together 47 chapters divided into six main parts Part I From Machine Learning to Data Mining Part II Big Data and Collaborative Decision Support Systems Part III Computer Vision Analysis Detection Tracking and Recognition Part IV Data Intensive Text Processing Part V Innovations in Web and Internet Technologies and Part VI New Methods and Applications in Information and Software Engineering The book is an excellent resource for researchers and those working in

algorithmics artificial and computational intelligence collaborative systems decision management and support systems  
 natural language processing image and text processing Internet technologies and information and software engineering as  
 well as for students interested in such research areas      Fundamentals of Computer Security Josef Pieprzyk, Thomas  
 Hardjono, Jennifer Seberry, 2013-03-09 This reference work looks at modern concepts of computer security It introduces the  
 basic mathematical background necessary to follow computer security concepts before moving on to modern developments in  
 cryptography The concepts are presented clearly and illustrated by numerous examples Subjects covered include private key  
 and public key encryption hashing digital signatures authentication secret sharing group oriented cryptography and many  
 others The section on intrusion detection and access control provide examples of security systems implemented as a part of  
 operating system Database and network security is also discussed The final chapters introduce modern e business systems  
 based on digital cash      **Analysis, Design & Evaluation of Man-Machine Systems** G. Mancini, L. Martensson, G.  
 Johannsen, 2014-06-28 Provides a valuable overview of human machine interaction in technological systems with particular  
 emphasis on recent advances in theory experimental and analytical research and applications related to man machine  
 systems Topics covered include Automation and Operator task analysis decision support task allocation management decision  
 support supervisory control artificial intelligence training and teaching expert knowledge System Concept and Design  
 software ergonomics fault diagnosis safety design concepts Man machine Interface interface design graphics and vision user  
 adaptive interfaces Systems Operation process industry electric power aircraft surface transport prostheses and manual  
 control Contains 53 papers and three discussion sessions      *Data Structures for Raster Graphics* Laurens R.A.  
 Kessener, Frans J. Peters, Marloes L.P. van Lierop, 2012-12-06 Raster graphics differs from the more traditional vector or line  
 graphics in the sense that images are not made up from line segments but from discrete elements orderly arranged in a two  
 dimensional rectangular region There are two reasons for the growing popularity of raster graphics or bit mapped displays I  
 the possibilities they offer to show extremely realistic pictures 2 the dropping prices of those displays and associated  
 processors and memories With the rise of raster graphics all kinds of new techniques methods algorithms and data  
 representations are associated such as ray tracing raster operations and quadrees bringing with them a lot of fruitful  
 research As stated above raster graphics allows to create extremely realistic synthesized pictures There are important  
 applications in such diverse areas as industrial deSign flight Simulation education image processing and animation  
 Unfortunately many applications are hampered by the fact that with the present state of the art they require an excessive  
 amount of computing resources Hence it is worthwhile to investigate methods and techniques which may be of help in  
 reducing computer costs associated with raster graphics applications Since the choice of data structures influences the  
 efficiency of algorithms in a crucial way a workshop was set up in order to bring together a limited number of experienced  
 researchers to discuss this topic The workshop was held from 24 to 28 June 1985 at Steensel a tiny village in the



neighbourhood of Eindhoven the Netherlands

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