

Proceedings of the 1997

International Database Engineering & Applications Symposium



Editors:
Bipin C. Desai
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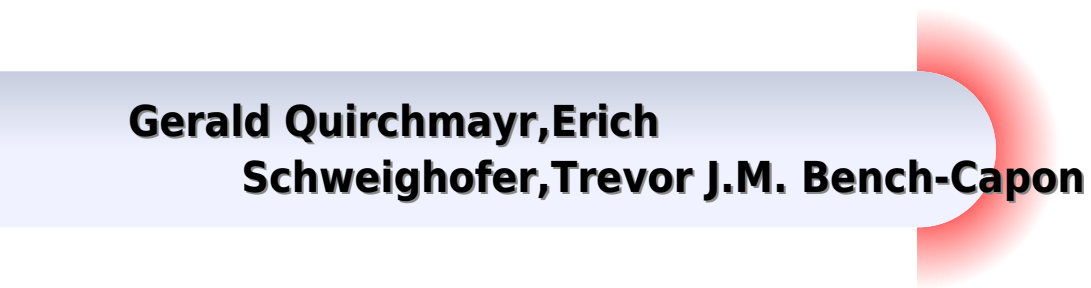
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**Gerald Quirchmayr, Erich
Schweighofer, Trevor J.M. Bench-Capon**



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IDEAS '98, International Database Engineering and Applications Symposium Barry Eaglestone, Bipin C. Desai, Jianhua Shao, 1998 This volume covers topics including database engineering data management distribution and interoperability OODMS and RDMS data warehouses and scientific databases electronic commerce and the web CSCW and distance learning spatial data and handwriting and query optimization

Proceedings of the 1997 International Database Engineering & Applications Symposium Bipin C. Desai, Barry Eaglestone, 1997 Written for researchers professors practitioners students and other computing professionals this book covers the 1997 International Database Engineering and Applications Symposium

Research and Advanced Technology for Digital Libraries Carol Peters, 1997-08-22 This book constitutes the refereed proceedings of the First European Conference on Research and Advanced Technology for Digital Libraries held in Pisa Italy in September 1997 The volume presents 23 revised full papers selected from 77 submissions Also included are two invited contributions The papers are organized in topical sections on supporting user interfaces metadata information retrieval DL architectures multilingual information retrieval structured documents and case studies

Advances in Databases Brian Lings, Keith Jeffery, 2003-06-26 After a decade of major technical and theoretical advancements in the area the scope for exploitation of database technology has never been greater Neither has the challenge This volume contains the proceedings of the 17th British National Conference on Databases BNCOD 2000 held at the University of Exeter in July 2000 In selecting the quality papers presented here the programme committee was particularly interested in the demands being made on the technology by emerging application areas including web applications push technology multimedia data and data warehousing The concern remains the same satisfaction of user requirements on quality and performance However with increasing demand for timely access to heterogeneous data distributed on an unregulated Internet new challenges are presented Our three invited speakers develop the theme for the conference considering new dimensions concerning user requirements in accessing distributed heterogeneous information sources In the first paper presented here Gio Wiederhold reflects on the tension between requirements for on the one hand precision and relevance and on the other completeness and recall in relating data from heterogeneous resources In resolving this tension in favour of the former he maintains that this will fundamentally affect future research directions Sharma Chakravarthy adds another dimension to the requirement on information namely timeliness He shares a vision of just in time information delivered by a push technology based on reactive capabilities He maintains that this requires a paradigm shift to a user centric view of information

Nontraditional Database Systems Yahiko Kambayashi, Katsumi Tanaka, Masaru Kitsuregawa, Akifumi Makinouchi, Shunsuke Uemura, Yoshifumi Masunaga, 2003-09-02 Nontraditional Database Systems is the fifth volume in the Advanced Information Processing Technology series It brings together the results of research carried out by the Japanese database research community in the field of nontraditional database systems The book examines nontraditional types of applications data types

systems and environments together with high performance architecture to support nontraditional applications such as web mining data engineering and object processing

Advances in Visual Information Systems Robert Laurini, 2003-07-31

Presently in our world visual information dominates The turn of the millenium marks the age of visual information systems Enabled by picture sensors of all kinds turning digital visual information will not only enhance the value of existing information it will also open up a new horizon of previously untapped information sources There is a huge demand for visual information access from the consumer As well the handling of visual information is boosted by the rapid increase of hardware and Internet capabilities Advanced technology for visual information systems is more urgently needed than ever before not only new computational methods to retrieve index compress and uncover pictorial information but also new metaphors to organize user interfaces Also new ideas and algorithms are needed which allow access to very large databases of digital pictures and videos Finally we should not forget new systems with visual interfaces integrating the above components into new types of image video or multimedia databases and hyperdocuments All of these technologies will enable the construction of systems that are radically different from conventional information systems Many novel issues will need to be addressed query formulation for pictorial information consistency management thereof indexing and assessing the quality of these systems Historically the expression Visual Information Systems can be understood either as a system for image information or as visual system for any kind information

Data Warehousing and Knowledge Discovery Yahiko Kambayashi, Mukesh Mohania, A Min Tjoa, 2003-05-15 The Second International Conference on Data Warehousing and Knowledge Discovery DaWaK 2000 was held in Greenwich UK 4-6 September DaWaK 2000 was a forum where researchers from data warehousing and knowledge discovery disciplines could exchange ideas on improving next generation decision support and data mining systems The conference focused on the logical and physical design of data warehousing and knowledge discovery systems The scope of the papers covered the most recent and relevant topics in the areas of data warehousing multidimensional databases OLAP knowledge discovery and mining complex databases These proceedings contain the technical papers selected for presentation at the conference We received more than 90 papers from over 20 countries and the program committee finally selected 31 long papers and 11 short papers The conference program included three invited talks namely A Foolish Consistency Technical Challenges in Consistency Management by Professor Anthony Finkelstein University College London UK European Plan for Research in Data Warehousing and Knowledge Discovery by Dr Harald Sonnberger Head of Unit A4 Eurostat European Commission and Security in Data Warehousing by Professor Bharat Bhargava Purdue University USA

Research and Trends in Data Mining Technologies and Applications Taniar, David, 2006-10-31 Activities in data warehousing and mining are constantly emerging Data mining methods algorithms online analytical processes data mart and practical issues consistently evolve providing a challenge for professionals in the field Research and Trends in Data Mining Technologies and Applications focuses on the integration between the fields of data

warehousing and data mining with emphasis on the applicability to real world problems This book provides an international perspective highlighting solutions to some of researchers toughest challenges Developments in the knowledge discovery process data models structures and design serve as answers and solutions to these emerging challenges The Unified Modeling Language Martin Schader,Axel Korthaus,2012-12-06 Most of the articles in this volume are revised versions of papers presented during the 1st GROOM Workshop on the Unified Modeling Language UML GROOM Grundlagen objektorientierter Modellierung is a working group of the Gesellschaft fur Informatik GI the German Society of Computer Science The workshop took place at the University of Mannheim Germany in October 1997 the local organizers were Martin Schader and Axel Korthaus Department of Information Systems The scientific program of the workshop included 21 talks presented in German language on Friday Oct 10th and Saturday Oct 11th 1997 Researchers and practitioners interested in object oriented software development analysis and design of software systems standardization efforts in the field of object technology and particularly in the main topic of the workshop Applications State of the Art and Evaluation of the Unified Modeling Language had the opportunity to discuss recent developments and to establish cooperation in these fields The workshop owed much to its sponsors and supporters University of Mannheim Faculty of Business Administration University of Mannheim Sun Microsystems GmbH Apcon Professional Concepts GmbH Their generous support is gratefully acknowledged In the present proceedings volume papers are presented in three chapters as follows **Data through Movement** Francesco Cafaro,Jessica Roberts,2022-06-01 When you picture human data interactions HDI what comes to mind The datafication of modern life along with open data initiatives advocating for transparency and access to current and historical datasets has fundamentally transformed when where and how people encounter data People now rely on data to make decisions understand current events and interpret the world We frequently employ graphs maps and other spatialized forms to aid data interpretation yet the familiarity of these displays causes us to forget that even basic representations are complex challenging inscriptions and are not neutral they are based on representational choices that impact how and what they communicate This book draws on frameworks from the learning sciences visualization and human computer interaction to explore embodied HDI This exciting sub field of interaction design is based on the premise that every day we produce and have access to quintillions of bytes of data the exploration and analysis of which are no longer confined within the walls of research laboratories This volume examines how humans interact with these data in informal not work or school environments particularly in museums The first half of the book provides an overview of the multi disciplinary theoretical foundations of HDI in particular embodied cognition conceptual metaphor theory embodied interaction and embodied learning and reviews socio technical theories relevant for designing HDI installations to support informal learning The second half of the book describes strategies for engaging museum visitors with interactive data visualizations presents methodologies that can inform the design of hand gestures and body movements for embodied installations and discusses

how HDI can facilitate people's sensemaking about data This cross disciplinary book is intended as a resource for students and early career researchers in human computer interaction and the learning sciences as well as for more senior researchers and museum practitioners who want to quickly familiarize themselves with HDI **NODE 2004** Mathias Weske, Peter Liggesmeyer, 2004-09-23 This book constitutes the refereed proceedings of the 5th Annual International Conference on Object Oriented and Internet Based Technologies Concepts and Applications for a Networked World Net Object Days 2004 held in Erfurt Germany in September 2004 The 15 revised full papers presented together with an invited paper were carefully reviewed and selected for inclusion in the book The papers are organised in topical sections on languages and models agents and the semantic Web supporting software processes software product lines and case studies and visions

Temporal Databases: Research and Practice Opher Etzion, 1998-05-13 This is an introductory text to the science of neurobiology describing animal nervous systems what they consist of how they work and how they are studied Unlike many other neurobiology texts considerable discussion is given to both human and non human nervous systems Written in an easy to read style it will be useful for both biology and medical students It provides the opportunity for self testing at the end of each chapter with objectives and questions A CD ROM entitled The Human Brain ISBN 3 540 14666 0 has been produced to accompany this text and can be purchased either separately or together with the book ISBN 3 540 63778 8 **Advances in**

Spatial Data Handling Dianne Richardson, Peter van Oosterom, 2013-04-17 This book entitled Advances in Spatial Data Handling is a compendium of papers resulting from the International Symposium on Spatial Data Handling SDH held in Ottawa Canada July 9 12 2002 The SDH conference series has been organised as one of the main activities of the International Geographical Union IGU since it was first started in Zurich in 1984 In the late 1990 s the IGU Commission of Geographic Information Systems was discontinued and a study group was formed to succeed it in 1997 Much like the IGU Commission the objectives of the Study Group are to create a network of people and research centres addressing geographical information science and to facilitate exchange of information The International Symposium on Spatial Data Handling which is the most important activity of the IGU Study Group has throughout its 18 year history been highly regarded as one of the most important GIS conferences in the world **Data Warehousing and Knowledge Discovery**

Mukesh K. Mohania, A Min Tjoa, 2010-09-02 Data warehousing and knowledge discovery has been widely accepted as a key technology for enterprises and organizations to improve their abilities in data analysis decision support and the automatic extraction of knowledge from data With the exponentially growing amount of information to be included in the decision making process the data to be considered become more and more complex in both structure and semantics New developments such as cloud computing add to the challenges with massive scaling a new computing infrastructure and new types of data Consequently the process of retrieval and knowledge discovery from this huge amount of heterogeneous complex data forms the litmus test for research in the area In the last decade the International Conference on Data

Warehousing and Knowledge Discovery DaWaK has become one of the most important international scientific events bringing together researchers, developers and practitioners to discuss the latest research issues and experiences in developing and deploying data warehousing and knowledge discovery systems applications and solutions. This year's conference, the 12th International Conference on Data Warehousing and Knowledge Discovery DaWaK 2010, continued the tradition by discussing and disseminating innovative principles, methods, algorithms and solutions to challenging problems faced in the development of data warehousing, knowledge discovery, the emerging area of cloud intelligence and applications within these areas. In order to better reflect novel trends and the diversity of topics, the conference was organized in four tracks: Cloud Intelligence, Data Warehousing, Knowledge Discovery and Industry and Applications. *Transactions and Database Dynamics* Gunter Saake, Kerstin Schwarz, Can Türker, 2003-06-26. These proceedings contain the revised versions of the accepted papers of the international workshop Transactions and Database Dynamics, which was the eighth workshop in a series focusing on foundations of models and languages for data and objects FoMLaDO. Seven long papers and three short papers were accepted for inclusion in the proceedings. The papers address various issues of transactions and database dynamics: criteria and protocols for global snapshot isolation in federated transaction management, unified theory of concurrency control and replication control, specification of evolving information systems, inheritance mechanisms for deductive object databases with updates, specification of active rules for maintaining database consistency, integrity checking in subtransactions, open nested transactions for multi-tier architectures, declarative specification of transactions with static and dynamic integrity constraints, logic-based specification of update queries as open nested transactions and execution guarantees and transactional processes in electronic commerce payments. In addition to the regular papers, there are papers resulting from two working groups. The first working group paper discusses the basis for transactional computation. In particular, it addresses the specification of transactional software. The second working group paper focuses on transactions in electronic commerce applications. Among others, Internet transactions, payment protocols and concurrency control and persistence mechanisms are discussed. Moreover, there is an invited paper by Jari Veijalainen which discusses transactional aspects in mobile electronic commerce.

Database and Expert Systems Applications Gerald Quirchmayr, Erich Schweighofer, Trevor J.M.

Bench-Capon, 1998-08-14. This book constitutes the refereed proceedings of the 9th International Conference on Database and Expert Systems Applications DEXA 98 held in Vienna, Austria, in August 1998. The 81 revised full papers presented were carefully selected from a total of more than 200 submissions. The papers are organized in sections on: active databases, object-oriented systems, data engineering, information retrieval, workflow and cooperative systems, spatial and temporal aspects, document management, spatial databases, adaptation and view updates, genetic algorithms, cooperative and distributed environments, interaction and communication, transaction advanced applications, temporal aspects, oriented systems, partitioning and fragmentation, database queries, data warehouses, knowledge discovery and data mining, knowledge

extraction and knowledge base reduction for comprehension and reuse **The Adaptive Web** Peter Brusilovsky, Alfred Kobsa, Wolfgang Nejdl, 2007-05-16 This state of the art survey provides a systematic overview of the ideas and techniques of the adaptive Web and serves as a central source of information for researchers practitioners and students The volume constitutes a comprehensive and carefully planned collection of chapters that map out the most important areas of the adaptive Web each solicited from the experts and leaders in the field **Time-Integrative Geographic Information Systems** Thomas Ott, Frank Swiaczny, 2012-12-06 The book deals with the integration of temporal information in Geographic Information Systems The main purpose of an historical or time integrative GIS is to reproduce spatio temporal processes or sequents of events in the real world in the form of a model The model thus making them accessible for spatial query analysis and visualization This volume reflects both theoretical thoughts on the interrelations of space and time as well as practical examples taken from various fields of application e g business data warehousing demographics history and spatial analysis

Extraction and Exploitation of Intensional Knowledge from Heterogeneous Information Sources Domenico Ursino, 2003-07-31 The problem of integrating multiple information sources into a uni ed data store is currently one of the most important challenges in data management Within the eld of source integration the problem of automatically gen ating an integrated description of the data sources is surely one of the most relevant The signi cance of the issue can be best understood if one c siders the huge number of information sources that an organization has to integrate Indeed it is even impossible to try to do all the work by hand Like other important issues in data management the problem of integrating multiple data sources into a unique global system has several facets each of which represents per se an interesting research problem and comprises for instance that of recognizing at the intensional level similarities and dissimilarities among scheme objects that of resolving representation m matches among schemes and that of deciding how to obtain an integrated data store out of a set of input sources and of a semantic description of their contents The research and application relevance of such issues has attracted wide interest in the database community in recent years And as a con quence several techniques have been presented in the literature attacking one side or another of this complex and multifarious problem **Applied Parallel Computing: Advanced Scientific Computing** Juha Fagerholm, Juha Haataja, Jari Järvinen, Mikko Lyly, Peter Raback, Ville Savolainen, 2003-08-03 This book constitutes the refereed proceedings of the 6th International Conference on Applied Parallel Computing PARA 2002 held in Espoo Finland in June 2002 The 50 revised full papers presented together with nine keynote lectures were carefully reviewed and selected for inclusion in the proceedings The papers are organized in topical sections on data mining and knowledge discovery parallel program development practical experience in parallel computing computer science numerical algorithms with hierarchical memory optimization numerical methods and algorithms cluster computing grid and network technologies and physics and applications

Enjoying the Song of Appearance: An Psychological Symphony within **1997 International Database Engineering And Applications Symposium Ideas 97**

In a global used by screens and the ceaseless chatter of instant transmission, the melodic splendor and emotional symphony created by the written word frequently disappear into the backdrop, eclipsed by the constant sound and distractions that permeate our lives. Nevertheless, nestled within the pages of **1997 International Database Engineering And Applications Symposium Ideas 97** an enchanting literary treasure filled with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that fascinating masterpiece conducts visitors on a psychological journey, well unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths with this moving assessment, we will examine the book is central harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Table of Contents 1997 International Database Engineering And Applications Symposium Ideas 97

1. Understanding the eBook 1997 International Database Engineering And Applications Symposium Ideas 97
 - The Rise of Digital Reading 1997 International Database Engineering And Applications Symposium Ideas 97
 - Advantages of eBooks Over Traditional Books
2. Identifying 1997 International Database Engineering And Applications Symposium Ideas 97
 - 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 1997 International Database Engineering And Applications Symposium Ideas 97
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1997 International Database Engineering And Applications Symposium Ideas

97

- Personalized Recommendations
- 1997 International Database Engineering And Applications Symposium Ideas 97 User Reviews and Ratings
- 1997 International Database Engineering And Applications Symposium Ideas 97 and Bestseller Lists
- 5. Accessing 1997 International Database Engineering And Applications Symposium Ideas 97 Free and Paid eBooks
 - 1997 International Database Engineering And Applications Symposium Ideas 97 Public Domain eBooks
 - 1997 International Database Engineering And Applications Symposium Ideas 97 eBook Subscription Services
 - 1997 International Database Engineering And Applications Symposium Ideas 97 Budget-Friendly Options
- 6. Navigating 1997 International Database Engineering And Applications Symposium Ideas 97 eBook Formats
 - ePub, PDF, MOBI, and More
 - 1997 International Database Engineering And Applications Symposium Ideas 97 Compatibility with Devices
 - 1997 International Database Engineering And Applications Symposium Ideas 97 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1997 International Database Engineering And Applications Symposium Ideas 97
 - Highlighting and Note-Taking 1997 International Database Engineering And Applications Symposium Ideas 97
 - Interactive Elements 1997 International Database Engineering And Applications Symposium Ideas 97
- 8. Staying Engaged with 1997 International Database Engineering And Applications Symposium Ideas 97
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1997 International Database Engineering And Applications Symposium Ideas 97
- 9. Balancing eBooks and Physical Books 1997 International Database Engineering And Applications Symposium Ideas 97
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1997 International Database Engineering And Applications Symposium Ideas 97
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time

11. Cultivating a Reading Routine 1997 International Database Engineering And Applications Symposium Ideas 97
 - Setting Reading Goals 1997 International Database Engineering And Applications Symposium Ideas 97
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 1997 International Database Engineering And Applications Symposium Ideas 97
 - Fact-Checking eBook Content of 1997 International Database Engineering And Applications Symposium Ideas 97
 - 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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