Distributed Databases Principles And Systems Mcgraw Hill Computer Science Series

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Concurrency Control in Distributed Database Systems - W. Cellary 2014-06-28
Distributed Database Systems (DDBS) may be defined as integrated database systems composed of autonomous local databases, geographically distributed and interconnected by a computer network. The purpose of this monograph is to present DDBS concurrency control algorithms and their related performance issues. The most recent results have been taken into consideration. A detailed analysis and selection of these results has been made so as to include those which will promote applications and progress in the field. The application of the methods and algorithms presented is not limited to DDBSs but also relates to centralized database systems and to database machines which can often be considered as particular examples of DDBSs. The first part of the book is devoted to basic definitions and models: the distributed database model, the transaction model and the syntactic and semantic concurrency control models. The second discusses concurrency control methods in monoversion DDBSs: the locking method, the timestamp ordering method, the validation method and hybrid methods. For each method the concept, the basic algorithms, a hierarchical version of the basic algorithms, and methods for avoiding performance failures are given. The third section covers concurrency control methods in multiversion DDBSs and the fourth, methods for the semantic concurrency model. The last part concerns performance issues of DDBSs. The book is intended primarily for DDBMS designers, but is also of use to those who are engaged in the design and management of databases in general, as well as in problems of distributed system management such as distributed operating systems and computer networks.
Advances in Databases - Brian Lings 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 p- ticularly 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 - quirements 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, hete- geneous information sources. In the ?rst paper presented here, Gio Wiederhold re?ects 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 a?ect future research directions. Sharma Chakravarthy adds another dimension to the requirement on inf- mation, namely timeliness. He shares a vision of just-in-time information de- vered by a push technology based on reactive capabilities. He maintains that this requires a paradigm shift to a user-centric view of information.

Distributed Databases - Stefano Ceri 2017

Proceedings of the International Congress on Information and Communication Technology - Suresh Chandra Satapathy 2016-06-08

This volume contains 69 papers presented at ICICT 2015: International Congress on Information and Communication Technology. The conference was held during 9th and 10th October, 2015, Udaipur, India and organized by CSI Udaipur Chapter, Division IV, SIG-WNS, SIG-e-Agriculture in association with ACM Udaipur Professional Chapter, The Institution of Engineers (India), Udaipur Local Centre and Mining Engineers Association of India, Rajasthan Udaipur Chapter. This volume contains papers mainly focused on ICT for Managerial Applications, E-governance, IOT and e-Mining.

Entity-Relationship Approach - ER '92 - Günther Pernul 1992-10-05

This volume comprises the proceedings of the Eleventh International Conference on the Entity-Relationship Approach held in Karlsruhe, Germany, October 7-9, 1992. It contains the full versions of all the 22 accepted papers selected from in total 64 submissions; in addition, the two invited talks by Scheer and by Tsichritzis and others are represented asfull papers and the two other invited speakers contribute extended abstracts. All the contributions describe original research related to theoretical or practical aspects of the Entity-Relationship Approach,reflecting the trend of recent years in a wide range of database research activities. In particular, the topics database design aspects, object-orientation, integrity constraints, query languages, knowledge-based techniques, and development of new applications are addressed.

High Performance Computing and Communications - Jack Dongarra 2005-09-12

This book constitutes the refereed proceedings of the First International Conference on High-Performance Computing and Communications, HPCC 2005, held in Sorrento, Italy in September 2005. The 76 revised full papers and 44 revised short papers presented were carefully reviewed and selected from 273 submissions. The papers are organized in topical sections on network protocols, routing, and algorithms; languages and compilers for HPC; parallel and distributed system architectures; embedded systems; parallel and distributed algorithms, wireless and mobile computing, Web services and Internet computing; peer-to-peer computing, grid and cluster computing, reliability, fault-tolerance, and security; performance evaluation and measurement; tools and environments for

software development; distributed systems and applications; high performance scientific and engineering computing; database applications and data mining; HPSRF; pervasive computing and communications; and LMS.

Advances in Wireless Networks and Information Systems - Qi Luo 2010-09-30

The purpose of WNIS 2009, the 2009 International Conference on Wireless N- works and Information Systems, is to bring together researchers, engineers and practitioners interested on information systems and applications in the context of wireless networks and mobile technologies. Information systems and information technology are pervasive in the whole communications field, which is quite vast, encompassing a large number of research topics and applications: from practical issues to the more abstract th- retical aspects of communication; from low level protocols to high-level netwo- ing and applications; from wireless networking technologies to mobile infor- tion systems; many other topics are included in the scope of WNIS 2009. The WNIS 2009 will be held in Shanghai, China, in December 2009. We cordially invite you to attend the 2009 International Conference on Wireless N- works and Information Systems. We are soliciting papers that present recent results, as well as more speculative presentations that discuss research challenges, define new applications, and propose methodologies for evaluating and the road map for achieving the vision of wireless networks and mobile technologies. The WNIS 2009 is co-sponsored by the Institute of Electrical and Electronics Engineers, the IEEE Shanghai Section, the Intelligent Information Technology Application Research Association, Hong Kong and Wuhan Institute of Techn- ogy, China. The purpose of the WNIS 2009 is to bring together researchers and practitioners from academia, industry, and government to exchange their research ideas and results and to discuss the state of the art in the areas of the symposium.

Database and Expert Systems Applications - Gerald Quirchmayr 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, transcation, advanced applications, temporal aspects, oriented systems, partitioning and fragmentation, database queries, data, data warehouses, knowledge discovery and data mining, knowledge extraction, and knowledge base reduction for comprehension and reuse.

Advanced Database Systems - Carlo Zaniolo 1997-05

The database field has experienced a rapid and incessant growth since the development of relational databases. The progress in database systems and applications has produced a diverse landscape of specialized technology areas that have often become the exclusive domain of research specialists. Examples include active databases, temporal databases, object-oriented databases, deductive databases, imprecise reasoning and queries, and multimedia information systems. This book provides a systematic introduction to and an in-depth treatment of these advanced database areas. It supplies practitioners and researchers with authoritative coverage of recent technological advances that are shaping the future of commercial database systems and intelligent information systems. Advanced Database Systems was written by a team of six leading specialists who have made significant contributions to the development of the technology areas covered in the book. Benefiting from the

authors' long experience teaching graduate and professional courses, this book is designed to provide a gradual introduction to advanced research topics and includes many examples and exercises to support its use for individual study, desk reference, and graduate classroom teaching.

Advances in Database Technology - EDBT '90 - Francois Bancilhon 1990-02-21

Database technology is currently being pushed by the needs of new applications and pulled by the oppor- tunities of novel developments in hardware and systems architecture. The invited paper, two panel sessions and 27 papers in this volume report on how the technology is currently extending. One broad area covered is extended database semantics, including data models and data types, databases and logic, complex objects, and expert system approaches to databases. The other area covered is raw architectures and increased database systems support, including novel transaction models, data distribution and replication, database administration, and access efficiency.

Parallel Database Systems - PRISMA Workshop 1991-06-26

This volume presents the proceedings of a workshop on parallel database systems organized by the PRISMA (Parallel Inference and Storage Machine) project. The invited contributions by internationally recognized experts give a thorough survey of several aspects of parallel database systems. The second part of the volume gives an in-depth overview of the PRISMA system. This system is based on a parallel machine, where the individual processors each have their own local memory and communicate with each other over a packet-switched network. On this machine a parallel object-oriented programming language, POOL-X, has been implemented, which provides dedicated support for database systems as well as general facilities for parallel programming. The POOL-X system then serves as a platform for a complete relational main-memory database management system, which uses the parallelism of the machine to speed up significantly the execution of database queries. The presentation of the PRISMA system, together with the invited papers, gives a broad overview of the state of the art in parallel database systems.

Distributed Database Management Systems - Saeed K. Rahimi 2015-02-13

This book addresses issues related to managing data across a distributed database system. It is unique because it covers traditional database theory and current research, explaining the difficulties in providing a unified user interface and global data dictionary. The book gives implementers guidance on hiding discrepancies across systems and creating the illusion of a single repository for users. It also includes three sample frameworks—implemented using J2SE with JMS, J2EE, and Microsoft .Net—that readers can use to learn how to implement a distributed database management system. IT and development groups and computer sciences/software engineering graduates will find this guide invaluable.

Information Computing and Applications - Baoxiang Liu 2011-12-08

This book constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications, ICICA 2010, held in Qinhuangdao, China, in October 2011. The 97 papers presented were carefully reviewed and selected from numerous submissions. They are organized in topical sections on computational economics and finance, computational statistics, mobile computing and applications, social networking and computing, intelligent computing and applications, internet and Web computing, paralelle and distributed computing, and system simulation and computing.

Future Databases '92 - Q-M Chen 1992-04-15

This volume represents a valuable collective contribution to the research and development of database systems. It contains papers in a variety of topics such as data models, distributed databases, multimedia databases, concurrency control,

hypermedia and document processing, user interface, query processing and database applications. Contents: Introduction to SQL/X (W Kim)An Object-Oriented Approach to Security Policies and their Access Controls for Database Management (D K Hsiao)The ESSE Project: An Overview (R Zicari et al.)The Remote-Exchange Approach to Semantic Heterogeneity in Federated Database Systems (D McLeod)A Linear Model of Distributed Query Execution Strategies (M E Orlowska & Y-C Zhang)Multimedia Data Handling in a Knowledge Representation System (E Bertino et al.)Implementation and Evaluation of a New Approach to Storage Management for Persistent Data — Towards Virtual-Memory Databases (G-Y Bai & A Makinouchi)Hyperbase System: A Structured Architecture (R Sacks-Davis et al.)A Hypermedia Document System Based on Relational Database (S Futamura et al.)Cooperative Query Answering in CoBase (Q-M Chen & W Chu)The ADKMS Knowledge Acquisition System (E Bertino et al.)Constraints for Query Optimization in Deductive Databases (J Harland & K Ramamohanarao)The Object-Oriented Database Management — A Tutorial on its Fundamentals (D K Hsiao)and other papers Readership: Computer scientists.

Research Advances in Database and Information Systems Security - Vijay Atluri 2013-03-14

Computer technology evolves at a rate that challenges companies to maintain appropriate security for their enterprises. With the rapid growth in Internet and www facilities, database and information systems security remains a key topic in businesses and in the public sector, with implications for the whole of society. Research Advances in Database and Information Systems Security covers issues related to security and privacy of information in a wide range of applications, including: Critical Infrastructure Protection; Electronic Commerce; Information Assurance; Intrusion Detection; Workflow; Policy Modeling; Multilevel Security; Role-Based Access Control; Data Mining; Data Warehouses; Temporal Authorization Models; Object-Oriented Databases. This book contains papers and panel discussions from the Thirteenth Annual Working Conference on Database Security, organized by the International Federation for Information Processing (IFIP) and held July 25-28, 1999, in Seattle, Washington, USA. Research Advances in Database and Information Systems Security provides invaluable reading for faculty and advanced students as well as for industrial researchers and practitioners engaged in database security research and development.

Principles of Distributed Database Systems - M. Tamer Özsu 2011-02-24

This third edition of a classic textbook can be used to teach at the senior undergraduate and graduate levels. The material concentrates on fundamental theories as well as techniques and algorithms. The advent of the Internet and the World Wide Web, and, more recently, the emergence of cloud computing and streaming data applications, has forced a renewal of interest in distributed and parallel data management, while, at the same time, requiring a rethinking of some of the traditional techniques. This book covers the breadth and depth of this re-emerging field. The coverage consists of two parts. The first part discusses the fundamental principles of distributed data management and includes distribution design, data integration, distributed query processing and optimization, distributed transaction management, and replication. The second part focuses on more advanced topics and includes discussion of parallel database systems, distributed object management, peer-to-peer data management, web data management, data stream systems, and cloud computing. New in this Edition: • New chapters, covering database replication, database integration, multidatabase query processing, peer-to-peer data management, and web data management. • Coverage of emerging topics such as data streams and cloud computing • Extensive revisions and

updates based on years of class testing and feedback Ancillary teaching materials are available.

Information Systems Security - Patrick McDaniel 2007-11-29

This book constitutes the refereed proceedings of the Third International Conference on Information Systems Security, ICISS 2007, held in Delhi, India, in December 2007. The 18 revised full papers and 5 short papers presented together with 4 keynote papers were carefully reviewed and selected from 78 submissions. The submitted topics in cryptography, intrusion detection, network security, information flow systems, Web security, and many others offer a detailed view of the state of the art in information security. The papers are organized in topical sections on network security, cryptography, architectures and systems, cryptanalysis, protocols, detection and recognition, as well as short papers.

Database and Expert Systems Applications - Dimitris Karagiannis 2013-11-11

The Database and Expert Systems Applications - DEXA - conferences are dedi cated to providing an international forum for the presentation of applications in the database and expert systems field, for the exchange of ideas and experiences, and for defining requirements for the future systems in these fields. After the very promising DEXA 90 in Vienna, Austria, we hope to have successfully established wjth this year's DEXA 91 a stage where scientists from diverse fields interested in application-oriented research can present and discuss their work. This year there was a total of more than 250 submitted papers from 28 different countries, in all continents. Only 98 of the papers could be accepted. The collection of papers in these proceedings offers a cross-section of the issues facing the area of databases and expert systems, i.e., topics of basic research interest on one hand and questions occurring when developing applications on the other. Major credit for the success of the conference goes to all of our colleagues who submitted papers for consideration and to those who have organized and chaired the panel sessions. Many persons contributed numerous hours to organize this conference. The names of most of them will appear on the following pages. In particular we wish to thank the Organization Committee Chairmen Johann Gordesch, A Min Tjoa, and Roland Wag ner, who also helped establishing the program. Special thanks also go to Gabriella Wagner and Anke Ruckert. Dimitris Karagiannis General Conference Chairman Contents Conference Committee.

Handbook of Research on Innovations in Database Technologies and Applications - Viviana E. Ferraggine 2009-01-01

"This book provides a wide compendium of references to topics in the field of the databases systems and applications"--Provided by publisher.

Advances in Database Technology - EDBT '94 - Matthias Jarke 1994-03-09

The fourth international conference on Extending Data Base Technology was held in Cambridge, UK, in March 1994. The biannual EDBT has established itself as the premier European database conference. It provides an international forum for the presentation of new extensions to database technology through research, development, and application. This volume contains the scientific papers of the conference. Following invited papers by C.M. Stone and A. Herbert, it contains 31 papers grouped into sections on object views, intelligent user interface, distributed information servers, transaction management, information systems design and evolution, semantics of extended data models,accessing new media, join algorithms, query optimization, and multimedia databases.

Readings in Artificial Intelligence and Databases - John Mylopoulos 2014-06-28

The interaction of database and AI technologies is crucial to such applications as data mining, active databases, and knowledge-based expert systems. This volume collects the primary readings on the interactions, actual and potential, between these two fields. The editors have chosen

articles to balance significant early research and the best and most comprehensive articles from the 1980s. An in-depth introduction discusses basic research motivations, giving a survey of the history, concepts, and terminology of the interaction. Major themes, approaches and results, open issues and future directions are all discussed, including the results of a major survey conducted by the editors of current work in industry and research labs. Thirteen sections follow, each with a short introduction. Topics examined include semantic data models with emphasis on conceptual modeling techniques for databases and information systems and the integration of data model concepts in high-level data languages, definition and maintenance of integrity constraints in databases and knowledge bases, natural language front ends, object-oriented database management systems, implementation issues such as concurrency control and error recovery, and representation of time and knowledge incompleteness from the viewpoints of databases, logic programming, and AI.

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.

Encyclopedia of Microcomputers - Allen Kent 2001-06-20

Achieving Synergy Between Computer Power and Human Resources to Temporal and Modal Logic Programming Languages.

Medical Image Databases - Stephen T.C. Wong 2012-12-06

Medical Image Databases covers the new technologies of biomedical imaging databases and their applications in clinical services, education, and research. Authors were selected because they are doing cutting-edge basic or technology work in relevant areas. This was done to infuse each chapter with ideas from people actively investigating and developing medical image databases rather than simply review the existing literature. The authors have analyzed the literature and have expanded on their own research. They have also addressed several common threads within their generic topics. These include system architecture, standards, information retrieval, data modeling, image visualizations, query languages, telematics, data mining, and decision supports. The new ideas and results reported in this volume suggest new and better ways to develop imaging databases and possibly lead us to the next information infrastructure in biomedicine. Medical Image Databases is suitable as a textbook for a graduate-level course on biomedical imaging or medical image databases, and as a reference for researchers and practitioners in industry.

Database and Expert Systems Applications - Trevor Bench-Capon 2003-07-31

The Database and Expert Systems Applications (DEXA) conferences bring together researchers and practitioners from all over the world to exchange ideas, experiences and opinions in a friendly and

stimulating environment. The papers are at once a record of what has been achieved and the first steps towards shaping the future of information systems. DEXA covers a broad field, and all aspects of database, knowledge base and related technologies and their applications are represented. Once again there were a good number of submissions: 241 papers were submitted and of these the programme committee selected 103 to be presented. DEXA'99 took place in Florence and was the tenth conference in the series, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse and Vienna. The decade has seen many developments in the areas covered by DEXA, developments in which DEXA has played its part. I would like to express thanks to all the institutions which have actively supported and made possible this conference, namely: • University of Florence, Italy • IDG CNR, Italy • FAW – University of Linz, Austria • Austrian Computer Society • DEXA Association In addition, we must thank all the people who have contributed their time and effort to make the conference possible. Special thanks go to Maria Schweikert (Technical University of Vienna), M. Neubauer and G. Wagner (FAW, University of Linz). We must also thank all the members of the programme committee, whose careful reviews are important to the quality of the conference.

Database Systems - S. K. Singh 2011

The second edition of this bestselling title is a perfect blend of theoretical knowledge and practical application. It progresses gradually from basic to advance concepts in database management systems, with numerous solved exercises to make learning easier and interesting. New to this edition are discussions on more commercial database management systems.

Database and Applications Security - Bhavani Thuraisingham 2005-05-26

This is the first book to provide an in-depth coverage of all the developments, issues and challenges in secure databases and applications. It provides directions for data and application security, including securing emerging applications such as bioinformatics, stream information processing and peer-to-peer computing. Divided into eight sections,

Proceedings 1988 VLDB Conference - VLDB 1988-12

Fundamentals of Relational Database Management Systems - S. Sumathi 2007-02-13

This book provides comprehensive coverage of fundamentals of database management system. It contains a detailed description on Relational Database Management System Concepts. There are a variety of solved examples and review questions with solutions. This book is for those who require a better understanding of relational data modeling, its purpose, its nature, and the standards used in creating relational data model.

Computer and Information Sciences III - Erol Gelenbe 2012-10-29

A collection of papers from ISCIS 27th Annual Symposium. Based on a rigorous selection of worldwide submissions of advanced research papers, this volume includes some of the most recent ideas and technical results in computer systems, computer science, and computer-communication networks. This book provides the reader with a timely access to the work of vibrant research groups in many different areas of the world where the new frontiers of computing and communications are being created.

Advances in Computers - 1991-07-15

Advances in Computers

Distributed Database Systems - Chhanda Ray 2009

Distributed Database Systems discusses the recent and emerging technologies in the field of distributed database technology. The material is up-to-date, highly readable, and illustrated with numerous practical examples. The mainstream areas of distributed database technology, such as distributed database design, distributed DBMS architectures, distributed transaction management, distributed concurrency control, deadlock handling in

distributed systems, distributed recovery management, distributed query processing and optimization, data security and catalog management, have been covered in detail. The popular distributed database systems, SDD-1 and R*, have also been included.

Computational Intelligence in Sensor Networks - Bijan Bihari Mishra 2018-05-22

This book discusses applications of computational intelligence in sensor networks. Consisting of twenty chapters, it addresses topics ranging from small-scale data processing to big data processing realized through sensor nodes with the help of computational approaches. Advances in sensor technology and computer networks have enabled sensor networks to evolve from small systems of large sensors to large nets of miniature sensors, from wired communications to wireless communications, and from static to dynamic network topology. In spite of these technological advances, sensor networks still face the challenges of communicating and processing large amounts of imprecise and partial data in resource-constrained environments. Further, optimal deployment of sensors in an environment is also seen as an intractable problem. On the other hand, computational intelligence techniques like neural networks, evolutionary computation, swarm intelligence, and fuzzy systems are gaining popularity in solving intractable problems in various disciplines including sensor networks. The contributions combine the best attributes of these two distinct fields, offering readers a comprehensive overview of the emerging research areas and presenting first-hand experience of a variety of computational intelligence approaches in sensor networks.

Databases Illuminated - Catherine M. Ricardo 2004

Databases Illuminated Integrates Database Theory With A Practical Approach To Database Design And Implementation. The Text Is Specifically Designed For The Modern Database Student, Who Will Be Expected To Know Both Theory And Applied Design And Implementation As Professionals In The Field. The Author Presents A Sample Database Project Throughout The Text, Using This Unique Pedagogical Tool To Take Students Step-By-Step Through All The Key Concepts Of Database Theory, Design, And Management. These Major Concepts Are Rehearsed In Independent Student Projects That Follow Each Chapter. This Integrated, Modern Approach To Databases, Combined With Strong Pedagogical Features, Accessible Writing, And A Full Package Of Student And Instructor'S Resources, Makes Databases Illuminated The Perfect Textbook For Courses In This Exciting Field.

E-Business and Distributed Systems Handbook - Amjad Umar 2003

This module of the handbook concentrates on solution architectures through components. Topics include the role of component-based web application architectures, architecture patterns, enterprise data architectures, implementation examples using XML Web Services, Sun's J2EE, and Microsoft's .NET.

Distributed Databases in Real-Time Control - M.G. Rodd 2014-07-04

The problems surrounding the subject of distributed databases in real-time control were addressed at the workshop. The difficulties included finding new, high-level conceptual models as conventional solutions are rendered useless in distributed databases. The other problems covered include the difficulties faced due to huge transaction fluxes and time constraints. The papers cover these theoretical issues plus an applications section which provides case studies of efficient applied systems which will be important for the development of this essential field.

Research And Practical Issues In Databases - Proceedings Of The 3rd Australian Database Conference - B Srinivasan 1992-01-08

This volume of proceedings contains original papers of good technical quality which present recent developments in databases and knowledge based systems and their applications to practical

problems. Topics covered include databases and temporal databases, object-oriented modelling and object-oriented databases, deductive databases, distributed database and information systems, database design issues and intelligent databases. The papers reflect the importance of databases and the work being done on them.

Advances In Database Research - Proceedings Of The 4th Australian Database Conference - Papazoglou M 1993-01-19

Introduction to Database and Knowledge-base Systems - S. Krishna 1992

This book provides a comprehensive yet concise coverage of the concepts and technology of database systems and their evolution into knowledge-bases. The traditional material on database systems at senior undergraduate level is covered. An understanding of concepts is emphasized avoiding extremes in formalism or detail.Rather than be restricted to a single example used over an entire book, a variety of examples are used. These enable the reader to understand the basic abstractions which underlie description of many practical situations.A major portion of the book concerns database system technology with focus on the relational model. Various topics are discussed in detail, preparing the ground for more advanced work.

Distributed Databases - Stefano Ceri 1984