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Essentials of Business Analytics - Bhimasankaram Pochiraju
2019-07-10

This comprehensive edited volume is the first of its kind, designed to serve as a textbook for long-duration business analytics programs. It can also be used as a guide to the field by practitioners. The book has contributions from experts in top universities and industry. The editors have taken extreme care to ensure continuity across the chapters. The material is organized into three parts: A) Tools, B) Models and C) Applications. In Part A, the tools used by business analysts are described in detail. In Part B, these tools are applied to construct models used to solve business problems. Part C contains detailed applications in various functional areas of business and several case studies. Supporting material can be found in the appendices that develop the pre-requisites for the main text. Every chapter has a business orientation. Typically, each chapter begins with the description of business problems that are

transformed into data questions; and methodology is developed to solve these questions. Data analysis is conducted using widely used software, the output and results are clearly explained at each stage of development. These are finally transformed into a business solution. The companion website provides examples, data sets and sample code for each chapter.

[Intelligent Multimedia Databases and Information Retrieval: Advancing Applications and Technologies](#) - Yan, Li 2011-09-30

As consumer costs for multimedia devices such as digital cameras and Web phones have decreased and diversity in the market has skyrocketed, the amount of digital information has grown considerably. Intelligent Multimedia Databases and Information Retrieval: Advancing Applications and Technologies details the latest information retrieval technologies and applications, the research surrounding the field, and the methodologies and design related to multimedia databases. Together

with academic researchers and developers from both information retrieval and artificial intelligence fields, this book details issues and semantics of data retrieval with contributions from around the globe. As the information and data from multimedia databases continues to expand, the research and documentation surrounding it should keep pace as best as possible, and this book provides an excellent resource for the latest developments.

Advanced Topics in Database Research - Keng Siau 2004-01-01

This book presents the latest research ideas and topics on how to enhance current database systems, improve information storage, refine existing database models, and develop advanced applications. It provides insights into important developments in the field of database and database management. With emphasis on theoretical issues regarding databases and database management, the book describes the capabilities and features of new technologies and methodologies, and addresses the needs of database researchers and practitioners. *Note: This book is part of a new series entitled Advanced Topics in Database Research ." This book is Volume Three within this series (Vol. III, 2004).

Database Integrity: Challenges and Solutions - Doorn, Jorge Horacio 2001-07-01

Geared toward designers and professionals interested in the conceptual aspects of integrity problems in different paradigms, Database Integrity: Challenges and Solutions successfully addresses these and a variety of other issues.

Principles of Database Management - Wilfried Lemahieu 2018-07-12

Introductory, theory-practice balanced text teaching the fundamentals of databases to advanced undergraduates or graduate students in information systems or computer science.

The Impact of the 4th Industrial Revolution on Engineering Education - Michael E. Auer 2020-03-17

This book gathers papers presented at the 22nd International Conference on Interactive Collaborative Learning (ICL2019), which was held in Bangkok, Thailand, from 25 to 27 September 2019. Covering various fields of e-learning and distance learning, course and curriculum

development, knowledge management and learning, real-world learning experiences, evaluation and outcomes assessment, computer-aided language learning, vocational education development and technical teacher training, the contributions focus on innovative ways in which higher education can respond to the real-world challenges related to the current transformation in the development of education. Since it was established, in 1998, the ICL conference has been devoted to new approaches in learning with a focus on collaborative learning. Today, it is a forum for sharing trends and research findings as well as presenting practical experiences in learning and engineering pedagogy. The book appeals to policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, and other professionals in the learning industry, and further and continuing education.

Essentials of Database Management - Jeffrey A. Hoffer 2013-06-17
Readers who want an up-to-date overview of database development and management. Focusing on the topics that leading database practitioners say are most important, Essentials of Database Management presents a concise overview designed to ensure practical success for database professionals. Built upon the strong foundation of Modern Database Management, currently in its eleventh edition, the new Essentials of Database Management is ideal for a less-detailed approach. Like its comprehensive counterpart, it guides readers into the future by presenting research that could reveal the "next big thing" in database management. And it features up-to-date coverage in the areas undergoing rapid change due to improved managerial practices, database design tools and methodologies, and database technology.

Database Support for Workflow Management - Paul Grefen 2012-12-06

Database Support for Workflow Management: The WIDE Project presents the results of the ESPRIT WIDE project on advanced database support for workflow management. The book discusses the state of the art in combining database management and workflow management technology, especially in the areas of transaction and exception management. This technology is complemented by a high-level

conceptual workflow model and associated workflow application design methodology. In WIDE, advanced base technology is applied, like a distributed computing model based on the corba standard. The usability of the WIDE approach is documented in this book by a discussion of two real-world applications from the insurance and health care domains. Database Support for Workflow Management: The WIDE Project serves as an excellent reference, and may be used for advanced courses on database and workflow management systems.

Effective Databases for Text & Document Management - Shirley A. Becker 2003-01-01

"Focused on the latest research on text and document management, this guide addresses the information management needs of organizations by providing the most recent findings. How the need for effective databases to house information is impacting organizations worldwide and how some organizations that possess a vast amount of data are not able to use the data in an economic and efficient manner is demonstrated. A taxonomy for object-oriented databases, metrics for controlling database complexity, and a guide to accommodating hierarchies in relational databases are provided. Also covered is how to apply Java-triggers for X-Link management and how to build signatures."

Fundamentals of Database Systems - Ramez Elmasri 2004

This is a revision of the market leading book for providing the fundamental concepts of database management systems. - Clear explanation of theory and design topics- Broad coverage of models and real systems- Excellent examples with up-to-date introduction to modern technologies- Revised to include more SQL, more UML, and XML and the Internet

Database and Expert Systems Applications - A Min Tjoa 2012-12-06

Use and development of database and expert systems can be found in all fields of computer science. The aim of this book is to present a large spectrum of already implemented or just being developed database and expert systems. Contributions cover new requirements, concepts for implementations (e.g. languages, models, storage structures), management of meta data, system architectures, and experiences gained

by using traditional databases in as many areas of applications as possible (at least in the fields listed). The aim of the book is to inspire a fruitful dialogue between development in practice, users of database and expert systems, and scientists working in the field.

Software Systems Architecture - Nick Rozanski 2005-04-20

Software Systems Architecture is a practitioner-oriented guide to designing and implementing effective architectures for information systems. It is both a readily accessible introduction to software architecture and an invaluable handbook of well-established best practices. It shows why the role of the architect is central to any successful information-systems development project, and, by presenting a set of architectural viewpoints and perspectives, provides specific direction for improving your own and your organization's approach to software systems architecture. With this book you will learn how to Design an architecture that reflects and balances the different needs of its stakeholders Communicate the architecture to stakeholders and demonstrate that it has met their requirements Focus on architecturally significant aspects of design, including frequently overlooked areas such as performance, resilience, and location Use scenarios and patterns to drive the creation and validation of your architecture Document your architecture as a set of related views Use perspectives to ensure that your architecture exhibits important qualities such as performance, scalability, and security The architectural viewpoints and perspectives presented in the book also provide a valuable long-term reference source for new and experienced architects alike. Whether you are an aspiring or practicing software architect, you will find yourself referring repeatedly to the practical advice in this book throughout the lifecycle of your projects. A supporting Web site containing further information can be found at www.viewpoints-and-perspectives.info

Database and Expert Systems Applications - Fernando Galindo 2004-08-19

DEXA 2004, the 15th International Conference on Database and Expert Systems Applications, was held August 30 ? September 3, 2004, at the University of Zaragoza, Spain. The quickly growing spectrum of database

applications has led to the establishment of more specialized discussion platforms (DaWaK Conference, EC-Web Conference, EGOVConference, Trustbus Conference and DEXA Workshop: Every DEXA event has its own conference proceedings), which were held in parallel with the DEXA Conference also in Zaragoza. In your hands are the results of much effort. The work begins with the preparation of the submitted papers, which then go through the reviewing process. The accepted papers are revised to final versions by their authors and are then arranged within the conference program. All culminates in the conference itself. For this conference 304 papers were submitted, and I want to thank to all who contributed to it; they are the real base of the conference. The program committee and the supporting reviewers produced altogether 942 referee reports, in average 3,1 reports per paper, and selected 92 papers for presentation. At this point we would like to say many thanks to all the institutions that actively supported this conference and made it possible. These were: • University of Zaragoza • FAW • DEXA Association • Austrian Computer Society

A First Course in Database Systems - Jeffrey D. Ullman 2002

Provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer, leaving implementation for later courses. It covers the latest database standards: SQL: 1999, SQL/PSM, SQL/CLI, JDBC, ODL, and XML.

Location-Based Services Handbook - Syed A. Ahson 2018-09-03

Location-Based Services Handbook: Applications, Technologies, and Security is a comprehensive reference containing all aspects of essential technical information on location-based services (LBS) technology. With broad coverage ranging from basic concepts to research-grade material, it presents a much-needed overview of technologies for positioning and localizing, including range- and proximity-based localization methods, and environment-based location estimation methods. Featuring valuable contributions from field experts around the world, this book addresses existing and future directions of LBS technology, exploring how it can be used to optimize resource allocation and improve cooperation in wireless networks. It is a self-contained, comprehensive resource that presents: A

detailed description of the wireless location positioning technology used in LBS Coverage of the privacy and protection procedure for cellular networks—and its shortcomings An assessment of threats presented when location information is divulged to unauthorized parties Important IP Multimedia Subsystem and IMS-based presence service proposals The demand for navigation services is predicted to rise by a combined annual growth rate of more than 104 percent between 2008 and 2012, and many of these applications require efficient and highly scalable system architecture and system services to support dissemination of location-dependent resources and information to a large and growing number of mobile users. This book offers tools to aid in determining the optimal distance measurement system for a given situation by assessing factors including complexity, accuracy, and environment. It provides an extensive survey of existing literature and proposes a novel, widely applicable, and highly scalable architecture solution. Organized into three major sections—applications, technologies, and security—this material fully covers various location-based applications and the impact they will have on the future.

Database Management System - RP Mahapatra

Easy-to-read writing style. Comprehensive coverage of all database topics. Bullet lists and tables. More detailed examples of database implementations. More SQL, including significant information on planned revisions to the language. Simple and easy explanation to complex topics like relational algebra, relational calculus, query processing and optimization. Covers topics on implementation issues like security, integrity, transaction management, concurrency control, backup and recovery etc. Latest advances in database technology.

DATABASE MANAGEMENT SYSTEM - MALAY K. PAKHIRA 2012-10-30

This compact text on Database Management System is a perfect blend of theoretical and practical aspects. From basics to applications, it provides a thorough and up-to-date treatment of the subject. The book, in the beginning, builds a strong foundation of relational database management system and then deals with query language, data manipulation, transaction processing, data warehouse, data mining, and application

programming. The text is supported by clear illustrations, sufficient figures and tables, and necessary theoretical details to understand the topics with clarity. Besides, numerous solved examples and chapter-end exercises will help students reinforce their problem-solving skills. The book adopts a methodological approach to problem solving. Primarily intended for both degree and diploma students of Computer Science and Engineering, the book will also be of benefit to the students of computer applications and management.

Knowledge-Based Intelligent Information and Engineering Systems - Mircea Gh. Negoita 2004-10-14

We were very pleased to once again extend to the delegates and, we are pleased to say, our friends the warmest of welcomes to the 8 International Conference on Knowledge-Based Intelligent Information and Engineering Systems at Wellington - Institute of Technology in Wellington, New Zealand. The KES conferences attract a wide range of interest. The broad focus of the conference series is the theory and applications of computational intelligence and emergent technologies. Once purely a research field, intelligent systems have advanced to the point where their abilities have been incorporated into many conventional application areas. The quest to encapsulate human knowledge and capabilities in domains such as reasoning, problem solving, sensory analysis, and other complex areas has been avidly pursued. This is because it has been demonstrated that these abilities have definite practical applications. The techniques long ago reached the point where they are being exploited to provide commercial advantages for companies and real beneficial effects on profits. KES 2004 provided a valuable mechanism for delegates to obtain a profound view of the latest intelligent systems research into a range of algorithms, tools and techniques. KES 2004 also gave delegates the chance to come into contact with those applying intelligent systems in diverse commercial areas. The combination of theory and practice represents a uniquely valuable opportunity for appreciating the full spectrum of intelligent systems activity and the "state of the art".

Fundamental of Database Management System - Dr. Mukesh Negi

2019-09-18

Designed to provide an insight into the database concepts DESCRIPTION Book teaches the essentials of DBMS to anyone who wants to become an effective and independent DBMS Master. It covers all the DBMS fundamentals without forgetting few vital advanced topics such as from installation, configuration and monitoring, up to the backup and migration of database covering few database client tools. KEY FEATURES Book contains real-time executed commands along with screenshot Parallel execution and explanation of Oracle and MySQL Database commands A Single comprehensive guide for Students, Teachers and Professionals Practical oriented book WHAT WILL YOU LEARN Relational Database, Keys Normalization of database SQL, SQL Queries, SQL joins Aggregate Functions, Oracle and Mysql tools WHO THIS BOOK IS FOR Students of Polytechnic Diploma Classes- Computer Science/ Information Technology Graduate Students- Computer Science/ CSE / IT/ Computer Applications Master Class Students—Msc (CS/IT)/ MCA/ M.Phil, M.Tech, M.S. Industry Professionals- Preparing for Certifications Table of Contents 1. Fundamentals of data and Database management system 2. Database Architecture and Models 3. Relational Database and normalization 4. Open source technology & SQL 5. Database queries 6. SQL operators 7. Introduction to database joins 8. Aggregate functions, subqueries and users 9. Backup & Recovery 10. Database installation 11. Oracle and MYSQL tools 12. Exercise

Multimedia Database Management Systems - B. Prabhakaran 2012-12-06

Multimedia Database Management Systems presents the issues and the techniques used in building multimedia database management systems. Chapter 1 provides an overview of multimedia databases and underlines the new requirements for these applications. Chapter 2 discusses the techniques used for storing and retrieving multimedia objects. Chapter 3 presents the techniques used for generating metadata for various media objects. Chapter 4 examines the mechanisms used for storing the index information needed for accessing different media objects. Chapter 5 analyzes the approaches for modeling media objects, both their temporal

and spatial characteristics. Object-oriented approach, with some additional features, has been widely used to model multimedia information. The book discusses two systems that use object-oriented models: OVID (Object Video Information Database) and Jasmine. The models for representing temporal and spatial requirements of media objects are then studied. The book also describes authoring techniques used for specifying temporal and spatial characteristics of multimedia databases. Chapter 6 explains different types of multimedia queries, the methodologies for processing them and the language features for describing them. The features offered by query languages such as SQL/MM (Structured Query Language for Multimedia), PICQUERY+, and Video SQL are also studied. Chapter 7 deals with the communication requirements for multimedia databases. A client accessing multimedia data over computer networks needs to identify a schedule for retrieving various media objects composing the database. The book identifies possible ways for generating a retrieval schedule. Chapter 8 ties together the techniques discussed in the previous chapters by providing a simple architecture of a distributed multimedia database management system. Multimedia Database Management Systems can be used as a text for graduate students and researchers working in the area of multimedia databases. In addition, the book serves as essential reading material for computer professionals who are in (or moving to) the area of multimedia databases.

Fundamentals of Database Systems - Ramez Elmasri 2007

This edition combines clear explanations of database theory and design with up-to-date coverage of models and real systems. It features excellent examples and access to Addison Wesley's database Web site that includes further teaching, tutorials and many useful student resources.

Handbook of Research on Innovations in Database Technologies and Applications - Viviana E. Ferragine 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.

Fundamentals of Database Systems - Ramez Elmasri 2011

Clear explanations of theory and design, broad coverage of models and real systems, and an up-to-date introduction to modern database technologies result in a leading introduction to database systems. Intended for computer science majors, *Fundamentals of Database Systems*, 6/e emphasizes math models, design issues, relational algebra, and relational calculus. A lab manual and problems give students opportunities to practice the fundamentals of design and implementation. Real-world examples serve as engaging, practical illustrations of database concepts. The Sixth Edition maintains its coverage of the most popular database topics, including SQL, security, and data mining, and features increased emphasis on XML and semi-structured data.

Transactions on Large-Scale Data- and Knowledge-Centered Systems XXXIV - Abdelkader Hameurlain 2017-10-06

This volume, the 34th issue of *Transactions on Large-Scale Data- and Knowledge-Centered Systems*, constitutes a special issue consisting of seven papers on the subject of Consistency and Inconsistency in Data-Centric Applications. The volume opens with an invited article on basic postulates for inconsistency measures. Three of the remaining six papers are revised, extended versions of papers presented at the First International Workshop on Consistency and Inconsistency, COIN 2016, held in conjunction with DEXA 2016 in Porto, Portugal, in September 2016. The other three papers were selected from submissions to a call for contributions to this edition. Each of the papers highlights a particular subtopic. However, all are concerned with logical inconsistencies that are either to be systematically avoided, or reasoned with consistently, i.e., without running the danger of an explosion of inferences.

Database Systems - Elvis C. Foster 2022-09-26

This book provides a concise but comprehensive guide to the disciplines of database design, construction, implementation, and management. Based on the authors' professional experience in the software engineering and IT industries before making a career switch to academia, the text stresses sound database design as a necessary

precursor to successful development and administration of database systems. The discipline of database systems design and management is discussed within the context of the bigger picture of software engineering. Students are led to understand from the outset of the text that a database is a critical component of a software infrastructure, and that proper database design and management is integral to the success of a software system. Additionally, students are led to appreciate the huge value of a properly designed database to the success of a business enterprise. The text was written for three target audiences. It is suited for undergraduate students of computer science and related disciplines who are pursuing a course in database systems, graduate students who are pursuing an introductory course to database, and practicing software engineers and information technology (IT) professionals who need a quick reference on database design. Database Systems: A Pragmatic Approach, 3rd Edition discusses concepts, principles, design, implementation, and management issues related to database systems. Each chapter is organized into brief, reader-friendly, conversational sections with itemization of salient points to be remembered. This pragmatic approach includes adequate treatment of database theory and practice based on strategies that have been tested, proven, and refined over several years. Features of the third edition include: Short paragraphs that express the salient aspects of each subject Bullet points itemizing important points for easy memorization Fully revised and updated diagrams and figures to illustrate concepts to enhance the student's understanding Real-world examples Original methodologies applicable to database design Step-by-step, student-friendly guidelines for solving generic database systems problems Opening chapter overviews and concluding chapter summaries Discussion of DBMS alternatives such as the Entity-Attributes-Value model, NoSQL databases, database-supporting frameworks, and other burgeoning database technologies A chapter with sample assignment questions and case studies This textbook may be used as a one-semester or two-semester course in database systems, augmented by a DBMS (preferably Oracle). After its usage, students will come away with a firm grasp of the

design, development, implementation, and management of a database system.

Database Management Systems - Raghuram Ramakrishnan 2000

Database Management Systems provides comprehensive and up-to-date coverage of the fundamentals of database systems. Coherent explanations and practical examples have made this one of the leading texts in the field. The third edition continues in this tradition, enhancing it with more practical material. The new edition has been reorganized to allow more flexibility in the way the course is taught. Now, instructors can easily choose whether they would like to teach a course which emphasizes database application development or a course that emphasizes database systems issues. New overview chapters at the beginning of parts make it possible to skip other chapters in the part if you don't want the detail. More applications and examples have been added throughout the book, including SQL and Oracle examples. The applied flavor is further enhanced by the two new database applications chapters.

Database and Data Communication Network Systems, Three-Volume Set - Cornelius T. Leondes 2002-07-02

Database and Data Communication Network Systems examines the utilization of the Internet and Local Area/Wide Area Networks in all areas of human endeavor. This three-volume set covers, among other topics, database systems, data compression, database architecture, data acquisition, asynchronous transfer mode (ATM) and the practical application of these technologies. The international collection of contributors was culled from exhaustive research of over 100,000 related archival and technical journals. This reference will be indispensable to engineering and computer science libraries, research libraries, and telecommunications, networking, and computer companies. It covers a diverse array of topics, including: * Techniques in emerging database system architectures * Techniques and applications in data mining * Object-oriented database systems * Data acquisition on the WWW during heavy client/server traffic periods * Information exploration on the WWW * Education and training in multimedia database systems * Data

structure techniques in rapid prototyping and manufacturing * Wireless ATM in data networks for mobile systems * Applications in corporate finance * Scientific data visualization * Data compression and information retrieval * Techniques in medical systems, intensive care units

Physical Database Design - Sam S. Lightstone 2010-07-26

The rapidly increasing volume of information contained in relational databases places a strain on databases, performance, and maintainability: DBAs are under greater pressure than ever to optimize database structure for system performance and administration. Physical Database Design discusses the concept of how physical structures of databases affect performance, including specific examples, guidelines, and best and worst practices for a variety of DBMSs and configurations. Something as simple as improving the table index design has a profound impact on performance. Every form of relational database, such as Online Transaction Processing (OLTP), Enterprise Resource Management (ERP), Data Mining (DM), or Management Resource Planning (MRP), can be improved using the methods provided in the book. The first complete treatment on physical database design, written by the authors of the seminal, Database Modeling and Design: Logical Design, Fourth Edition Includes an introduction to the major concepts of physical database design as well as detailed examples, using methodologies and tools most popular for relational databases today: Oracle, DB2 (IBM), and SQL Server (Microsoft) Focuses on physical database design for exploiting B+tree indexing, clustered indexes, multidimensional clustering (MDC), range partitioning, shared nothing partitioning, shared disk data placement, materialized views, bitmap indexes, automated design tools, and more!

Handbook on Ontologies - Steffen Staab 2013-04-17

An ontology is a description (like a formal specification of a program) of concepts and relationships that can exist for an agent or a community of agents. The concept is important for the purpose of enabling knowledge sharing and reuse. The Handbook on Ontologies provides a comprehensive overview of the current status and future prospectives of

the field of ontologies. The handbook demonstrates standards that have been created recently, it surveys methods that have been developed and it shows how to bring both into practice of ontology infrastructures and applications that are the best of their kind.

Database Design Using Entity-Relationship Diagrams - Sikha Bagui 2003-06-27

Entity-relationship (E-R) diagrams are time-tested models for database development well-known for their usefulness in mapping out clear database designs. Also commonly known is how difficult it is to master them. With this comprehensive guide, database designers and developers can quickly learn all the ins and outs of E-R diagramming to become experts. *Valuepack* - Thomas Connolly 2005-08-01

An Introduction to Database Systems - C. J. Date 2000

For over 25 years, C. J. Date's *An Introduction to Database Systems* has been the authoritative resource for readers interested in gaining insight into and understanding of the principles of database systems. This exciting revision continues to provide a solid grounding in the foundations of database technology and to provide some ideas as to how the field is likely to develop in the future. The material is organized into six major parts. Part I provides a broad introduction to the concepts of database systems in general and relational systems in particular. Part II consists of a careful description of the relational model, which is the theoretical foundation for the database field as a whole. Part III discusses the general theory of database design. Part IV is concerned with transaction management. Part V shows how relational concepts are relevant to a variety of further aspects of database technology—security, distributed databases, temporal data, decision support, and so on. Finally, Part VI describes the impact of object technology on database systems. This Seventh Edition of *An Introduction to Database Systems* features widely rewritten material to improve and amplify treatment of *Conceptual Modeling - ER 2005* - Christian Kop 2005-11-15
Conceptual modeling is fundamental to any domain where one must cope with complex real-world situations and systems because it fosters

communication - tween technology experts and those who would benefit from the application of those technologies. Conceptual modeling is the key mechanism for understanding and representing the domains of information system and database engineering but also increasingly for other domains including the new "virtual" e-environments and the information system that support them. The importance of conceptual modeling in software engineering is evidenced by recent interest in "model-driven architecture" and "extreme non-programming". Conceptual modeling also plays a prominent role in various technical disciplines and in the social sciences. The Annual International Conference on Conceptual Modeling (referred to as the ER Conference) provides a central forum for presenting and discussing current research and applications in which conceptual modeling is the major emphasis. In keeping with this tradition, ER 2005, the 24th ER Conference, spanned the spectrum of conceptual modeling including research and practice in areas such as theories of concepts and ontologies underlying conceptual modeling, methods and tools for developing and communicating conceptual models, and techniques for transforming conceptual models into effective (information) system implementations. Moreover, new areas of conceptual modeling including Semantic Web services and the interdependencies of conceptual modeling with knowledge-based, logical and linguistic theories and approaches were also addressed.

Multidimensional Databases and Data Warehousing - Christian Jensen 2022-05-31

The present book's subject is multidimensional data models and data modeling concepts as they are applied in real data warehouses. The book aims to present the most important concepts within this subject in a precise and understandable manner. The book's coverage of fundamental concepts includes data cubes and their elements, such as dimensions, facts, and measures and their representation in a relational setting; it includes architecture-related concepts; and it includes the querying of multidimensional databases. The book also covers advanced multidimensional concepts that are considered to be particularly important. This coverage includes advanced dimension-related concepts

such as slowly changing dimensions, degenerate and junk dimensions, outriggers, parent-child hierarchies, and unbalanced, non-covering, and non-strict hierarchies. The book offers a principled overview of key implementation techniques that are particularly important to multidimensional databases, including materialized views, bitmap indices, join indices, and star join processing. The book ends with a chapter that presents the literature on which the book is based and offers further readings for those readers who wish to engage in more in-depth study of specific aspects of the book's subject. Table of Contents: Introduction / Fundamental Concepts / Advanced Concepts / Implementation Issues / Further Readings

Artificial Intelligence in Education - V. Dimitrova 2009-06-25

This publication covers papers presented at AIED2009, part of an ongoing series of biennial international conferences for top quality research in intelligent systems and cognitive science for educational computing applications. The conference provides opportunities for the cross-fertilization of techniques from many fields that make up this interdisciplinary research area, including: artificial intelligence, computer science, cognitive and learning sciences, education, educational technology, psychology, philosophy, sociology, anthropology, linguistics, and the many domain-specific areas for which AIED systems have been designed and evaluated. AIED2009 focuses on the theme "Building learning systems that care: from knowledge representation to affective modelling". The key research question is how to tackle the complex issues related to building learning systems that care, ranging from representing knowledge and context to modelling social, cognitive, metacognitive, and affective dimensions. This requires multidisciplinary research that links theory and technology from artificial intelligence, cognitive science, and computer science with theory and practice from education and the social sciences.

Database Systems: The Complete Book - Hector Garcia-Molina 2008

Database System Concepts - Henry F. Korth 2019-02-19

Database System Concepts by Silberschatz, Korth and Sudarshan is now

in its 6th edition and is one of the cornerstone texts of database education. It presents the fundamental concepts of database management in an intuitive manner geared toward allowing students to begin working with databases as quickly as possible. The text is designed for a first course in databases at the junior/senior undergraduate level or the first year graduate level. It also contains additional material that can be used as supplements or as introductory material for an advanced course. Because the authors present concepts as intuitive descriptions, a familiarity with basic data structures, computer organization, and a high-level programming language are the only prerequisites. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are used to suggest why a result is true.

Operating Systems - Ramez Elmasri 2010

Elmasri, Levine, and Carrick's "spiral approach" to teaching operating systems develops student understanding of various OS components early on and helps students approach the more difficult aspects of operating systems with confidence. While operating systems have changed dramatically over the years, most OS books use a linear approach that covers each individual OS component in depth, which is difficult for students to follow and requires instructors to constantly put materials in context. Elmasri, Levine, and Carrick do things differently by following

an integrative or "spiral" approach to explaining operating systems. The spiral approach alleviates the need for an instructor to "jump ahead" when explaining processes by helping students "completely" understand a simple, working, functional system as a whole in the very beginning. This is more effective pedagogically, and it inspires students to continue exploring more advanced concepts with confidence.

Transactional Information Systems - Gerhard Weikum 2002

This book describes the theory, algorithms, and practical implementation techniques behind transaction processing in information technology systems.

Computer Aided Systems Theory - EUROCAST '97 - International Workshop on Computer Aided Systems Theory 1997 Las Palm 1997-11-05

This book constitutes a refereed post-workshop selection of papers presented at the 6th International Workshop on Computer-Aided Systems Theory, EUROCAST'97, held in Las Palmas de Gran Canaria, Spain, in February 1997. The 50 revised full papers presented were carefully selected for inclusion in the volume. The book is divided into sections on design environments and tools, theory and methods, engineering systems, intelligent systems, signal processing, and specific methods and applications.