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Relational Theory for Computer Professionals C.J. Date 2013-05-21 All of today's mainstream database products support the SQL language, and relational theory is what SQL is supposed to be based on. But are those products truly relational? Sadly, the answer is no. This book shows you what a real relational product would be like, and how and why it would be so much better than what's currently available. With this unique book, you will: Learn how to see database systems as programming systems Get a careful, precise, and detailed definition of the relational model Explore a detailed analysis of SQL from a relational point of view There are literally hundreds of books on relational theory or the SQL language or both. But this one is different. First, nobody is more qualified than Chris Date to write such a book. He and Ted Codd, inventor of the relational model, were colleagues for many years, and Chris's involvement with the technology goes back to the time of Codd's first papers in 1969 and 1970. Second, most books try to use SQL as a vehicle for teaching relational theory, but this book deliberately takes the opposite approach. Its primary aim is to teach relational theory as such. Then it uses that theory as a vehicle for teaching SQL, showing in particular how that theory can help with the practical problem of using SQL correctly and productively. Any computer professional who wants to understand what relational systems are all about can benefit from this book. No prior knowledge of databases is assumed.

RDF Database Systems Olivier Curé 2014-11-24 RDF Database Systems is a cutting-edge guide that distills everything you need to know to effectively use or design an RDF database. This book starts with the basics of linked open data and covers the most recent research, practice, and technologies to help you leverage semantic technology. With an approach that combines technical detail with theoretical background, this book shows how to design and develop semantic web applications, data models, indexing and query processing solutions. Understand the Semantic Web, RDF, RDFS, SPARQL, and OWL within the context of relational database management and NoSQL systems Learn about the prevailing RDF triples solutions for both relational and non-relational databases, including column family, document, graph, and NoSQL Implement systems using RDF data with helpful guidelines and various storage solutions for RDF Process SPARQL queries with detailed explanations of query optimization, query plans, caching, and more Evaluate which approaches and systems to use when developing Semantic Web applications with a helpful description of commercial and open-source systems

Database Systems for Advanced Applications Sang-goo Lee 2012-03-27 This two volume set LNCS 7238 and LNCS 7239 constitutes the refereed proceedings of the 17th International Conference on Database Systems for Advanced Applications, DASFAA 2012, held in Busan, South Korea, in April 2012. The 44 revised full papers and 8 short papers presented together with 2 invited keynote papers, 8 industrial papers, 8 demo presentations, 4 tutorials and 1 panel paper were carefully reviewed and selected from a total of 159 submissions. The topics covered are query processing and optimization, data semantics, XML and semi-structured data, data mining and knowledge discovery, privacy and anonymity, data management in the Web, graphs and data mining applications, temporal and spatial data, top-k and skyline query processing, information retrieval and recommendation, indexing and search systems, cloud computing and scalability, memory-based query processing, semantic and decision support systems, social data, data mining.

Advanced Information Systems Engineering Workshops John Krogstie 2016-06-06 This book constitutes the thoroughly refereed proceedings of five international workshops held in Ljubljana, Slovenia, in conjunction with the 28th International Conference on Advanced Information Systems Engineering, CAiSE 2016, in June 2016. The 16 full and 9 short papers were carefully selected from 51 submissions. The associated workshops were the Third International Workshop on Advances in Services DEsign based on the Notion of CApabiliy (ASDENCA) co-arranged with the First International Workshop on Business Model Dynamics and Information Systems Engineering (BumDISE), the Fourth International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), the First International Workshop on Energy-awareness and Big Data Management in Information Systems (EnBIS), the Second International Workshop on Enterprise Modeling (EM), and the Sixth International Workshop on Information Systems Security Engineering (WISSE).

Practical Design of Ships and Other Floating Structures Tetsuo Okada 2020-10-03 This book gathers the peer-reviewed proceedings of the 14th International Symposium, PRADS 2019, held in Yokohama, Japan, in September 2019. It brings together naval architects, engineers, academic researchers and professionals who are involved in ships and other floating structures to share the latest research advances in the field. The contents cover a broad range of topics, including design synthesis for ships and floating systems, production, hydrodynamics, and structures and materials. Reflecting the latest advances, the book will be of interest to researchers and practitioners alike.

Research and Advanced Technology for Digital Libraries Panos Constantopoulos 2003-06-30 Digital libraries (DLs) are major advances in information technology that frequently fall short of expectations [7, 28]. Covi & Kling [7] argue that understanding the wider context of technology use is essential to understanding digital library use and its - plementation in different social worlds. Recent health informatics research also - gues that social and organisational factors can determine the success or failure of healthcare IT developments [8, 11, 12]. Heathfield [11] suggests that this is due to the complex, autonomous nature of the medical discipline and the specialized (clinician or software engineer) approach to system development. Negative reactions to these systems is often due to inappropriate system design and poor implementation. H- ever, there may be other less obvious social and political repercussions of information system design and deployment. Symon et al [26] have identified, within a hospital scenario, how social structures and work practices can be disrupted by technology implementation. Although these systems often deal with sensitive, personal infor- tion, other system design research has found that apparently innocuous data can be perceived as a threat to social and political stability [1,2,3]. To understand the impact of DLs within the medical profession, an in-depth evaluation is required of the int- duction and later development of these applications within their specific social and organisational settings. However, as Covi & Kling [7] have highlighted, there are few high-level theories that aid designers in understanding the implication of these issues for DL design and implementation.

Advanced Computational Methods for Knowledge Engineering Thanh Binh Nguyen 2016-05-01 This proceedings consists of 20 papers which have been selected and invited from the submissions to the 4th International Conference on Computer Science, Applied Mathematics and Applications (ICCSAMA 2016) held on 2-3 May, 2016 in Laxenburg, Austria. The conference is organized into 5 sessions: Advanced Optimization Methods and Their Applications, Models for ICT applications, Topics on discrete mathematics, Data Analytic Methods and Applications and Feature Extractio, respectively. All chapters in the book discuss theoretical and practical issues connected with computational methods and optimization methods for knowledge engineering. The editors hope that this volume can be useful for graduate and Ph.D. students and researchers in Applied Sciences, Computer Science and Applied Mathematics.

Managing Information in Organizations Sharon A. Cox 2017-09-16 New core text for Managing Information modules examining the issue of information management from both a business and an IT perspective. Grounded in the theory, it takes a practical, problem-solving approach that provides students with tools and insights to understand how to formulate and implement information management strategies.

Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment N. Janardhana Raju 2015-11-30 These proceedings of the IAMG 2014 conference in New Delhi explore the current state of the art and inform readers about the latest geostatistical and space-based technologies for assessment and management in the contexts of natural resource exploration, environmental pollution, hazards and natural disaster research. The proceedings cover 3D visualization, time-series analysis, environmental geochemistry, numerical solutions in hydrology and hydrogeology, geotechnical engineering, multivariate geostatistics, disaster management, fractal modeling, petroleum exploration, geoinformatics, sedimentary basin analysis, spatiotemporal modeling, digital rock geophysics, advanced mining assessment and glacial studies, and range from the laboratory to integrated field studies. Mathematics plays a key part in the crust, mantle, oceans and atmosphere, creating climates that cause natural disasters, and influencing fundamental aspects of life-supporting systems and many other geological processes affecting Planet Earth. As such, it is essential to understand the synergy between the classical geosciences and mathematics, which can provide the methodological tools needed to tackle complex problems in modern geosciences. The development of science and technology, transforming from a descriptive stage to a more quantitative stage, involves qualitative interpretations such as conceptual models that are complemented by quantification, e.g. numerical models, fast dynamic geologic models, deterministic and stochastic models. Due to the increasing complexity of the problems faced by today's geoscientists, joint efforts to establish new conceptual and numerical models and develop new paradigms are called for.

Fundamentals of Database System Ramez 2010 Pearson introduces the seventh edition of its best seller on database systems by Elmasri and Navathe. This edition is thoroughly revised to provide an in-depth and up-to-date presentation of the most important aspects of database systems and applications,

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.

Database Modeling and Design Toby J. Teorey 2011-02-10 Database Modeling and Design, Fifth Edition, focuses on techniques for database design in relational database systems. This extensively revised fifth edition features clear explanations, lots of terrific examples and an illustrative case, and practical advice, with design rules that are applicable to any SQL-based system. The common examples are based on real-life experiences and have been thoroughly class-tested. This book is immediately useful to anyone tasked with the creation of data models for the integration of large-scale enterprise data. It is ideal for a stand-alone data management course focused on logical database design, or a supplement to an introductory text for introductory database management. In-depth detail and plenty of real-world, practical examples throughout Loaded with design rules and illustrative case studies that are applicable to any SQL, UML, or XML-based system Immediately useful to anyone tasked with the creation of data models for the integration of large-scale enterprise data.

Database Systems Elvis Foster 2014-12-24 Database Systems: A Pragmatic Approach is a classroom textbook for use by students who are learning about relational databases, and the professors who teach them. It discusses the database as an essential component of a software system, as well as a valuable, mission critical corporate resource. The book is based on lecture notes that have been tested and proven over several years, with outstanding results. It also exemplifies mastery of the technique of combining and balancing theory with practice, to give students their best chance at success. Upholding his aim for brevity, comprehensive coverage, and relevance, author Elvis C. Foster's practical and methodical discussion style gets straight to the salient issues, and avoids unnecessary fluff as well as an overkill of theoretical calculations. The book discusses concepts, principles, design, implementation, and management issues of databases. Each chapter is organized systematically into brief, reader-friendly sections, with itemization of the important points to be remembered. It adopts a methodical and pragmatic approach to solving database problems. Diagrams and illustrations also sum up the salient points to enhance learning. Additionally, the book includes a number of Foster's original methodologies that add clarity and creativity to the database modeling and design experience while making a novel contribution to the discipline. Everything combines to make Database Systems: A Pragmatic Approach an excellent textbook for students, and an excellent resource on theory for the practitioner.

Intelligent Information Processing and Web Mining Mieczyslaw A. Klopotek 2013-06-05 A collection of articles accepted for presentation during The Intelligent Information Processing and Web Mining Conference IIS:IIPWM ?03 held in Zakopane, Poland, on June 2-5, 2003. A lot of attention is devoted to the newest developments in the area of Artificial Intelligence with special calls for contributions on artificial immune systems and search engines. This book will be a valuable source for further research in the fields of data mining, intelligent information processing, immunogenetics, machine learning, or language processing for search engines.

In-Memory Data Management Hasso Plattner 2011-03-08 In the last 50 years the world has been completely transformed through the use of IT. We have now reached a new inflection point. Here we present, for the first time, how in-memory computing is changing the way businesses are run. Today, enterprise data is split into separate databases for performance reasons. Analytical data resides in warehouses, synchronized periodically with transactional systems. This separation makes flexible, real-time reporting on current data impossible. Multi-core CPUs, large main memories, cloud computing and powerful mobile devices are serving as the foundation for the transition of enterprises away from this restrictive model. We describe techniques that allow analytical and transactional processing at the speed of thought and enable new ways of doing business. The book is intended for university students, IT-professionals and IT-managers, but also for senior management who wish to create new business processes by leveraging in-memory computing.

Conceptual Structures: Fulfilling Peirce's Dream Wash International Conference on Conceptual Structures 1997 Seattle 1997-07-16 This book constitutes the refereed proceedings of the Fifth International Conference on Conceptual Structures, ICCS '97, held in Seattle, Washington, USA, in August 1997. The 39 full papers presented were carefully selected and revised for inclusion in the volume. Also included are 9 abstracts of conceptual graphs tools. The papers are organized in sections on knowledge representation, knowledge modeling, formal concept analysis, formal reasoning, applications of conceptual graphs, and conceptual graphs tools. This book competently documents the progress achieved in the area since the predecessor conference ICCS '96, the proceedings of which have been published as LNAI 1115.

Advances in Intelligent Data Analysis. Reasoning about Data Xiaohui Liu 2006-06-08 This book constitutes the refereed proceedings of the Second International Symposium on Intelligent Data Analysis, IDA-97, held in London, UK, in August 1997. The volume presents 50 revised full papers selected from a total of 107 submissions. Also included is a keynote, Intelligent Data Analysis: Issues and Opportunities, by David J. Hand. The papers are organized in sections on exploratory data analysis, preprocessing and tools; classification and feature selection; medical applications; soft computing; knowledge discovery and data mining; estimation and clustering; data quality; qualitative models.

Multilevel Security for Relational Databases Osama S. Faragallah 2014-12-04 Since databases are the primary repositories of information for today's organizations and governments, database security has become critically important. Introducing the concept of multilevel security in relational databases, this book provides a comparative study of the various models that support multilevel security policies in the relational database—illustrating the strengths and weaknesses of each model. Multilevel Security for Relational Databases covers multilevel database security concepts along with many other multilevel database security models and techniques. It presents a prototype that readers can implement as a tool for conducting performance evaluations to compare multilevel secure database models. The book supplies a complete view of an encryption-based multilevel security database model that integrates multilevel security for the relational database with a system that encrypts each record with an encryption key according to its security class level. This model will help you utilize an encryption system as a second security layer over the multilevel security layer for the database, reduce the multilevel database size, and improve the response time of data retrieval from the multilevel database. Considering instance-based multilevel database security, the book covers relational database access controls and examines concurrency control in multilevel database security systems. It includes database encryption algorithms, simulation programs, and Visual studio and Microsoft SQL Server code.

Advances in Databases and Information Systems Johann Eder 2005-08-29 This book constitutes the refereed proceedings of the 9th East European Conference on Advances in Databases and Information Systems, ADBIS 2005, held in Tallinn, Estonia, in September 2005. The 27 revised full papers presented together with an invited paper were carefully reviewed and selected from 144 submissions. The papers are organized in topical sections on database theory, database modelling and physical database design, query processing, heterogeneous databases and interoperability, XML and databases, data mining and knowledge discovery, information systems and software engineering, and information systems development.

Database Management System (University of Mumbai) Bhavesh Pandya, Safa Hamdare & A.K. Sen Written Strictly as per Mumbai University syllabus, this book provides a complete guide to the theoretical as well as the practical implementation of DBMS concepts including E-R Model, Relational Algebra, SQL queries, Integrity, Security, Database design, Transaction management ,Query processing and Procedural SQL language. This book assumes no prior knowledge of the reader on the subject. KEY FEATURES ● Large number of application oriented problem statements and review exercises along with their solutions are provided for hands on practice. ● Includes 12 University Question

paper for IT department (Dec '08 - May '14) with solutions to provide an overview of University Question pattern. ● Lab manual along with desired output for queries is provided as per recommendations by Mumbai University. ● All the SQL queries mentioned in the book are performed and applicable for Oracle DBMS tool.

Multi-Agent Systems and Agreement Technologies Michael Rovatsos 2016-04-16 This book constitutes the revised selected papers from the 13 European Conference on Multi-Agent Systems, EUMAS 2015, and the Third International Conference on Agreement Technologies, AT 2015, held in Athens, Greece, in December 2015. The 36 papers presented in this volume were carefully reviewed and selected from 65 submissions. They are organized in topical sections named: coordination and planning; learning and optimization, argumentation and negotiation; norms, trust, and reputation; agent-based simulation and agent programming.

Conceptual Modeling - ER 2001 Hideko S. Kunii 2003-06-30 This book constitutes the refereed proceedings of the 20th International Conference on Conceptual Modeling, ER 2001, held in Tokohama, Japan, in November 2001. The 45 revised full papers presented together with three keynote presentations were carefully reviewed and selected from a total of 197 submissions. The papers are organized in topical sections on spatial databases, spatio-temporal databases, XML, information modeling, database design, data integration, data warehouse, UML, conceptual models, systems design, method reengineering and video databases, workflows, web information systems, applications, and software engineering.

Stream Data Processing: A Quality of Service Perspective Sharma Chakravarthy 2009-04-09 The systems used to process data streams and provide for the needs of stream-based applications are Data Stream Management Systems (DSMSs). This book presents a new paradigm to meet the needs of these applications, including a detailed discussion of the techniques proposed. Ii includes important aspects of a QoS-driven DSMS (Data Stream Management System) and introduces applications where a DSMS can be used and discusses needs beyond the stream processing model. It also discusses in detail the design and implementation of MavStream. This volume is primarily intended as a reference book for researchers and advanced-level students in computer science. It is also appropriate for practitioners in industry who are interested in developing applications.

Database Systems Elvis C. Foster 2016-11-07 Learn the concepts, principles, design, implementation, and management issues of databases. You will adopt a methodical and pragmatic approach to solving database systems problems. Database Systems: A Pragmatic Approach provides a comprehensive, yet concise introduction to database systems, with special emphasis on the relational database model. This book discusses the database as an essential component of a software system, as well as a valuable, mission-critical corporate resource. New in this second edition is updated SQL content covering the latest release of the Oracle Database Management System along with a reorganized sequence of the topics which is more useful for learning. Also included are revised and additional illustrations, as well as a new chapter on using relational databases to anchor large, complex management support systems. There is also added reference content in the appendices. This book is based on lecture notes that have been tested and proven over several years, with outstanding results. It combines a balance of theory with practice, to give you your best chance at success. Each chapter is organized systematically into brief sections, with itemization of the important points to be remembered. Additionally, the book includes a number of author Elvis Foster's original methodologies that add clarity and creativity to the database modeling and design experience. What You'll Learn Understand the relational model and the advantages it brings to software systems Design database schemas with integrity rules that ensure correctness of corporate data Query data using SQL in order to generate reports, charts, graphs, and other business results Understand what it means to be a database administrator, and why the profession is highly paid Build and manage web-accessible databases in support of applications delivered via a browser Become familiar with the common database brands, their similarities and differences Explore special topics such as tree-based data, hashing for fast access, distributed and object databases, and more Who This Book Is For Students who are studying database technology, who aspire to a career as a database administrator or designer, and practicing database administrators and developers desiring to strengthen their knowledge of database theory

Fuzzy Database Modeling Adnan Yazici 2013-06-05 Some recent fuzzy database modeling advances for the non-traditional applications are introduced in this book. The focus is on database models for modeling complex information and uncertainty at the conceptual, logical, physical design levels and from integrity constraints defined on the fuzzy relations. The database models addressed here are; the conceptual data models, including the ExIFO and ExIFO2 data models, the logical database models, including the extended NF2 database model, fuzzy object-oriented database model, and the fuzzy object-oriented database model. Integrity constraints are defined on the fuzzy relations are also addressed. A continuing reason for the limited adoption of fuzzy database systems has been performance. There have been few efforts at defining physical structures that accomodate fuzzy information. A new access structure and data organization for fuzzy information is introduced in this book.

Conceptual Modeling - ER '97 David W. Embley 1997-10-22 This book constitutes the refereed proceedings of the 16th International Conference on Conceptual Modeling, ER '97, held in Los Angeles, California, USA, in November 1997. The 32 revised full papers presented in the book were carefully selected from a total of 93 submissions. Also included are two full invited papers.The volume is divided in topical sections on automated design, temporal modeling, languages, activity modeling, applied modeling, object-oriented modeling, theoretical issues in modeling, experience and applications, distributed systems, integration, and tools.

The Emergence of Digital Libraries -- Research and Practices Kulthida Tuamsuk 2014-10-09 This book constitutes the refereed proceedings of the 16th International Conference on Asia-Pacific Digital Libraries, ICADL 2014, held in Chiang Mai, Thailand, in November 2014. The 20 full papers, 19 short papers and 9 poster papers presented were carefully reviewed and selected from 141 submissions. The papers are organized in topical sections on digital preservation and archiving; digital repositories and tools; scholarly documents repositories; metadata and ontologies; linked data and knowledge sharing; digital books and e-books; digital libraries usage and applications; data management and classification; information retrieval and search methods; user skills and experiences.

Advances in Bioinformatics and Computational Biology Osmar Norberto de Souza 2011-07-21 This book constitutes the proceedings of the 6th Brazilian Symposium on Bioinformatics, BSB 2011, held in Brasília, Brazil, in August 2011. The 8 full papers and 4 extended abstracts presented were carefully peer-reviewed and selected for inclusion in this book. The BSB topics of interest cover many areas of bioinformatics that range from theoretical aspects of problems in bioinformatics to applications in molecular biology, biochemistry, genetics, and associated subjects.

An Introduction to Databases with Web Applications Martyn Prigmore 2007-11 Connecting databases to the world wide web is an increasingly important skill for computer scientists and MIS/BIS as the WWW breaks down the traditional barriers of information sharing across organisations, allowing this vital process to be done cheaply and efficiently. Traditional database books present database design with any material on web-applications being a tackled later, almost as an afterthought. Similarly, web-development books may gloss over databases in a single chapter on SQL. This book discusses database development but always in the context of the web. Thus it gives a genuine understanding of how to implement web databases rather than presenting one field and simply trying to 'bolt-on' the other afterwards. That said, it covers the core concepts of a traditional database design course and so offers the flexibility of learning database design separate from the web applications if desired. Scripting is covered first so that, should the reader want to get the web context from the start, they understand how their application will be implemented before trying to design it.

Spatial Database Systems Albert K.W. Yeung 2007-05-23 This book places spatial data within the broader domain of information technology (IT) while providing a comprehensive and coherent explanation of the guiding principles, methods, implementation and operational management of spatial databases within the workplace. The text explains the key concepts, issues and processes of spatial data implementation and provides a holistic management perspective.

Human Computer Interaction, Tourism and Cultural Heritage Francisco Cipolla Ficarra 2011-01-10 This book constitutes the refereed proceedings of the First International Workshop on Human-Computer Interaction, Tourism and Cultural Heritage, HCITOCH 2010, held in Brescello, Italy, in September 2010. The 17 revised papers presented were carefully reviewed and selected from numerous submissions. Providing strategies for a creative future with computer science, quality design and communicability, the papers discuss the latest advances in the areas of augmented realities, computer art, computer graphics, e-commerce, eco-design, emerging technologies, dynamic and static media (2D & 3D), HCI, interactive systems, mixed reality, networking, simulation languages, tourism, usability, video games, virtual classroom and virtual museum.

Perspectives for Digital Social Innovation to Reshape the European Welfare Systems F. Davide 2021-03-15 Social welfare is riddled with ingrained problems that have already defeated all standard approaches, and reform calls for counterintuitive action. Digital Social Innovation (DSI) is primarily about promoting grassroots initiatives to address localized societal problems, and is not normally talked about in relation to welfare reform, but perhaps social innovation initiatives, with their localized and case-based approach, could help to solve the enormous structural problems faced by our welfare democracies today. This book addresses the potential and implications of DSI for the reform of the European welfare state. The 14 papers collected here focus on key issues, such as the nature of social innovation and its effects; scaling up to address structural problems and make systemic change; new social risks and challenges; the role of digital thinking and emerging technologies; public governance approaches; tolerance of institutions; integrating innovation in the welfare system; and the empowerment of marginalized citizens. These topics are examined from an integrated and multi-disciplinary perspective, taking into consideration not only current EU debate on policy trends for social protection, but also the nature of digital transformation and its effects on social change. The book also highlights barriers to adoption, as well as the potential limitations and failures of this emerging approach. Digital social innovation is an emerging discipline that deserves more attention from policy makers and more resources from government. Drawing on welfare studies, political science, sociology, psychology, law and computer science, this book will be of interest to researchers, practitioners and policy makers alike.

Enterprise Business Modeling, Optimization Techniques, and Flexible Information Systems Papajorgji, Petraq 2013-04-30 Many factors can impact large-scale enterprise management systems, and maintaining these systems can be a complicated and challenging process. Therefore, businesses can benefit from an assortment of models and management styles to track and collect data for processes. Enterprise Business Modeling, Optimization Techniques, and Flexible Information Systems supplies a wide array of research on the intersections of business modeling, information systems, and optimization techniques. These various business models and structuring methods are proposed to provide ideas, methods, and points of view for managers, practitioners, entrepreneurs, and researchers on how to improve business processes.

Computing Handbook, Third Edition Heikki Topi 2014-05-14 Computing Handbook, Third Edition: Information Systems and Information Technology demonstrates the richness and breadth of the IS and IT disciplines. The second volume of this popular handbook explores their close links to the practice of using, managing, and developing IT-based solutions to advance the goals of modern organizational environments. Established leading experts and influential young researchers present innovations to the current status and future directions of research and give in-depth perspectives on the contributions of academic research to the practice of IS and IT development, use, and management Like the first volume, this second volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

Proceedings of the 6th Asia-Pacific Bioinformatics Conference Alvis Brazma 2008 High-throughput sequencing and functional genomics technologies have given us the human genome sequence as well as those of other experimentally, medically, and agriculturally important species, thus enabling large-scale genotyping and gene expression profiling of human populations. Databases containing large numbers of sequences, polymorphisms, structures, metabolic pathways, and gene expression profiles of normal and diseased tissues are rapidly being generated for human and model organisms. Bioinformatics is therefore gaining importance in the annotation of genomic sequences; the understanding of the interplay among and between genes and proteins; the analysis of the genetic variability of species; the identification of pharmacological targets; and the inference of evolutionary origins, mechanisms, and relationships. This proceedings volume contains an up-to-date exchange of knowledge, ideas, and solutions to conceptual and practical issues of bioinformatics by researchers, professionals, and industry practitioners at the 6th Asia-Pacific Bioinformatics Conference held in Kyoto, Japan, in January 2008. Sample Chapter(s). Chapter 1: Recent Progress in Phylogenetic Combinatorics (185 KB). Contents: Recent Progress in Phylogenetic Combinatorics (A Dress); Predicting Nucleolar Proteins Using Support-Vector Machines (M Bod(r)n); Structure-Approximating Design of Stable Proteins in 2D HP Model Fortified by Cysteine Monomers (A H Khodabakhshi et al.); Seed Optimization Is No Easier than Optimal Golomb Ruler Design (B Ma & H Yao); Analysis of Structural Strand Asymmetry in Non-coding RNAs (J Wen et al.); Genome Halving with Double Cut and Join (R Warren & D Sankoff); Symbolic Approaches for Finding Control Strategies in Boolean Networks (C J Langmead & S K Jha); Optimal Algorithm for Finding DNA Motifs with Nucleotide Adjacent Dependency (F Y L Chin et al.); and other papers. Readership: Academics, researchers, and graduate students in bioinformatics and computer science.

Advances in Databases and Information Systems Yannis Manolopoulos 2003-08-02 This book constitutes the refereed proceedings of the 6th East European Conference on Advances in Databases and Information Systems ADBIS 2002, held in Bratislava, Slovakia in September 2002. The 25 revised full papers and 4 short papers presented together with 3 invited papers were carefully reviewed and selected from 115 submissions. The papers are organized in topical sections on data mining and knowledge discovery, mobile databases, spatiotemporal and spatial databases, multidimensional databases and information systems, object-oriented and deductive databases, data modeling and workflows, Web databases and semistructured data, and advanced systems and applications.

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.

Interoperating Geographic Information Systems International Workshop on Interoperating Geographic Information Systems Staff 1999-03-04 This book constitutes the refereed proceedings of the Second International Conference on Interoperating Geographic Information Systems, INTEROP'99, held in Zurich, Switzerland in March 1999. The volume presents 22 revised full papers carefully reviewed and selected for inclusion in the book. Also included are three invited full papers. The book addresses various topics of database interoperability and spatial data processing in particular identification, infrastructure, implementation, vectors and graphics, semantics, heterogeneous databases and representation.

Database Systems for Advanced Applications Jayant R. Haritsa 2008-02-29 This book constitutes the refereed proceedings of the 13th International Conference on Database Systems for Advanced Applications, DASFAA 2008, held in New Delhi, India, in March 2008. The 30 revised full papers and 27 revised short papers presented together with the abstracts of 3 invited talks as well as 8 demonstration papers and a panel discussion motivation were carefully reviewed and selected from 173 submissions. The papers are organized in topical sections on XML schemas, data mining, spatial data, indexes and cubes, data streams, P2P and transactions, XML processing, complex pattern processing, IR techniques, queries and transactions, data mining, XML databases, data warehouses and industrial applications, as well as mobile and distributed data.

Business Process Management: Blockchain and Central and Eastern Europe Forum Claudio Di Ciccio 2019-08-26 This book constitutes the contributions presented at the Blockchain Forum and the Central and Eastern Europe Forum (CEE Forum) held at the 17th International Conference on Business Process Management, BPM 2019, which took place in Vienna, Austria, in September 2019. The Blockchain Forum deals with the use of blockchain for collaborative information systems. Conceptual, technical and application-oriented contributions are pursued within the scope of this theme. The Blockchain Forum received a total of 31 submissions; 10 full and 1 short paper were accepted for publication in this book. The objective of the CEE Forum is to foster discussion for BPM academics from Central and Eastern Europe to disseminate their research, compare results and share experiences. For the CEE Forum 16 submissions were received and 6 full and 2 short papers were accepted for publication. The book also contains one invited talk in full-paper length and 6 poster papers from the CEE Forum.