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Data-Centric Business and Applications

Advancements in Information and
Knowledge Management, Volume 3

Book Data Information Quality Data Centric Applications

Alex Berson, Larry Dubov



Book Data Information Quality Data Centric Applications:

Data and Information Quality Carlo Batini, Monica Scannapieco, 2016-03-23 This book provides a systematic and comparative description of the vast number of research issues related to the quality of data and information. It does so by delivering a sound integrated and comprehensive overview of the state of the art and future development of data and information quality in databases and information systems. To this end it presents an extensive description of the techniques that constitute the core of data and information quality research including record linkage also called object identification, data integration, error localization and correction and examines the related techniques in a comprehensive and original methodological framework. Quality dimension definitions and adopted models are also analyzed in detail and differences between the proposed solutions are highlighted and discussed. Furthermore while systematically describing data and information quality as an autonomous research area, paradigms and influences deriving from other areas such as probability theory, statistical data analysis, data mining, knowledge representation and machine learning are also included. Last not least the book also highlights very practical solutions such as methodologies, benchmarks for the most effective techniques, case studies and examples. The book has been written primarily for researchers in the fields of databases and information management or in natural sciences who are interested in investigating properties of data and information that have an impact on the quality of experiments, processes and on real life. The material presented is also sufficiently self contained for masters or PhD level courses and it covers all the fundamentals and topics without the need for other textbooks. Data and information system administrators and practitioners who deal with systems exposed to data quality issues and as a result need a systematization of the field and practical methods in the area will also benefit from the combination of concrete practical approaches with sound theoretical formalisms.

Data Quality Carlo Batini, Monica Scannapieco, 2006-09-27 Poor data quality can seriously hinder or damage the efficiency and effectiveness of organizations and businesses. The growing awareness of such repercussions has led to major public initiatives like the Data Quality Act in the USA and the European 2003/98 directive of the European Parliament. Batini and Scannapieco present a comprehensive and systematic introduction to the wide set of issues related to data quality. They start with a detailed description of different data quality dimensions like accuracy, completeness and consistency and their importance in different types of data like federated data, web data or time dependent data and in different data categories classified according to frequency of change like stable, long term and frequently changing data. The book's extensive description of techniques and methodologies from core data quality research as well as from related fields like data mining, probability theory, statistical data analysis and machine learning gives an excellent overview of the current state of the art. The presentation is completed by a short description and critical comparison of tools and practical methodologies which will help readers to resolve their own quality problems. This book is an ideal combination of the soundness of theoretical foundations and the applicability of practical approaches. It is ideally suited for

everyone researchers students or professionals interested in a comprehensive overview of data quality issues In addition it will serve as the basis for an introductory course or for self study on this topic *Empowering IoT with Big Data Analytics* Mohamed Adel Serhani,Yang Xu,Zakaria Maamar,2024-11-16 Empowering IoT with Big Data Analytics provides comprehensive coverage of major topics tools and techniques related to empowering IoT with big data technologies and big data analytics solutions thus allowing for better processing analysis protection distribution and visualization of data for the benefit of IoT applications and second a better deployment of IoT applications on the ground This book covers big data in the IoT era its application domains current state of the art in big data and IoT technologies standards platforms and solutions This book provides a holistic view of the big data value chain for IoT including storage processing protection distribution analytics and visualization Big data is a multi disciplinary topic involving handling intensive continuous and heterogeneous data retrieved from different sources including sensors social media and embedded systems The emergence of Internet of Things IoT and its application to many domains has led to the generation of huge amounts of both structured and unstructured data often referred to as big data Introduces fundamental concepts of big data analytics and their applications to IoT Helps readers learn to leverage big data storage processing and analysis tools and techniques to promote IoT applications for better decision making Explores federated learning in big data to ensure data privacy and handle data heterogeneity **Building Data-Driven Applications with LlamaIndex** Andrei Gheorghiu,2024-05-10 Solve real world problems easily with artificial intelligence AI using the LlamaIndex data framework to enhance your LLM based Python applications Key Features Examine text chunking effects on RAG workflows and understand security in RAG app development Discover chatbots and agents and learn how to build complex conversation engines Build as you learn by applying the knowledge you gain to a hands on project Book DescriptionDiscover the immense potential of Generative AI and Large Language Models LLMs with this comprehensive guide Learn to overcome LLM limitations such as contextual memory constraints prompt size issues real time data gaps and occasional hallucinations Follow practical examples to personalize and launch your LlamaIndex projects mastering skills in ingesting indexing querying and connecting dynamic knowledge bases From fundamental LLM concepts to LlamaIndex deployment and customization this book provides a holistic grasp of LlamaIndex s capabilities and applications By the end you ll be able to resolve LLM challenges and build interactive AI driven applications using best practices in prompt engineering and troubleshooting Generative AI projects What you will learn Understand the LlamaIndex ecosystem and common use cases Master techniques to ingest and parse data from various sources into LlamaIndex Discover how to create optimized indexes tailored to your use cases Understand how to query LlamaIndex effectively and interpret responses Build an end to end interactive web application with LlamaIndex Python and Streamlit Customize a LlamaIndex configuration based on your project needs Predict costs and deal with potential privacy issues Deploy LlamaIndex applications that others can use Who this book is for This book is for Python developers with basic

knowledge of natural language processing NLP and LLMs looking to build interactive LLM applications Experienced developers and conversational AI developers will also benefit from the advanced techniques covered in the book to fully unleash the capabilities of the framework

The Philosophy of Information Quality Luciano Floridi,Phyllis Illari,2014-08-01 This work fulfills the need for a conceptual and technical framework to improve understanding of Information Quality IQ and Information Quality standards The meaning and practical implementation of IQ are addressed as it is relevant to any field where there is a need to handle data and issues such as accessibility accuracy completeness currency integrity reliability timeliness usability the role of metrics and so forth are all a part of Information Quality In order to support the cross fertilization of theory and practice the latest research is presented in this book The perspectives of experts from beyond the origins of IQ in computer science are included library and information science practitioners and academics philosophers of information of engineering and technology and of science are all contributors to this volume The chapters in this volume are based on the work of a collaborative research project involving the Arts and Humanities Research Council and Google and led by Professor Luciano Floridi University of Oxford This work will be of interest to anyone handling data including those from commercial public governmental and academic organizations The expert editors contributions introduce issues of interest to scientists database curators and philosophers even though the issues may be disguised in the language and examples common to a different discipline

MASTER DATA MANAGEMENT AND DATA GOVERNANCE, 2/E Alex Berson,Larry Dubov,2010-12-06 The latest techniques for building a customer focused enterprise environment The authors have appreciated that MDM is a complex multidimensional area and have set out to cover each of these dimensions in sufficient detail to provide adequate practical guidance to anyone implementing MDM While this necessarily makes the book rather long it means that the authors achieve a comprehensive treatment of MDM that is lacking in previous works Malcolm Chisholm Ph D President AskGet com Consulting Inc Regain control of your master data and maintain a master entity centric enterprise data framework using the detailed information in this authoritative guide Master Data Management and Data Governance Second Edition provides up to date coverage of the most current architecture and technology views and system development and management methods Discover how to construct an MDM business case and roadmap build accurate models deploy data hubs and implement layered security policies Legacy system integration cross industry challenges and regulatory compliance are also covered in this comprehensive volume Plan and implement enterprise scale MDM and Data Governance solutions Develop master data model Identify match and link master records for various domains through entity resolution Improve efficiency and maximize integration using SOA and Web services Ensure compliance with local state federal and international regulations Handle security using authentication authorization roles entitlements and encryption Defend against identity theft data compromise spyware attack and worm infection Synchronize components and test data quality and system performance

Data Modeling, A Beginner's Guide Andy Oppel,2009-11-23 Essential Skills

Made Easy Learn how to create data models that allow complex data to be analyzed manipulated extracted and reported upon accurately Data Modeling A Beginner s Guide teaches you techniques for gathering business requirements and using them to produce conceptual logical and physical database designs You ll get details on Unified Modeling Language UML normalization incorporating business rules handling temporal data and analytical database design The methods presented in this fast paced tutorial are applicable to any database management system regardless of vendor Designed for Easy Learning Key Skills Concepts Chapter opening lists of specific skills covered in the chapter Ask the expert Q A sections filled with bonus information and helpful tips Try This Hands on exercises that show you how to apply your skills Notes Extra information related to the topic being covered Self Tests Chapter ending quizzes to test your knowledge Andy Oppel has taught database technology for the University of California Extension for more than 25 years He is the author of Databases Demystified SQL Demystified and Databases A Beginner s Guide and the co author of SQL A Beginner s Guide Third Edition and SQL The Complete Reference Third Edition

Enterprise AI Shazia Sadiq,2025 This book provides perspectives and deliberations on the barriers and opportunities for Enterprise AI as well as a range of state of the art approaches that can facilitate AI adoption more widely

Data Modeling Essentials Graeme Simsion,Graham Witt,2004-12-03 Data Modeling Essentials Third Edition covers the basics of data modeling while focusing on developing a facility in techniques rather than a simple familiarization with the rules In order to enable students to apply the basics of data modeling to real models the book addresses the realities of developing systems in real world situations by assessing the merits of a variety of possible solutions as well as using language and diagramming methods that represent industry practice This revised edition has been given significantly expanded coverage and reorganized for greater reader comprehension even as it retains its distinctive hallmarks of readability and usefulness Beginning with the basics the book provides a thorough grounding in theory before guiding the reader through the various stages of applied data modeling and database design Later chapters address advanced subjects including business rules data warehousing enterprise wide modeling and data management It includes an entirely new section discussing the development of logical and physical modeling along with new material describing a powerful technique for model verification It also provides an excellent resource for additional lectures and exercises This text is the ideal reference for data modelers data architects database designers DBAs and systems analysts as well as undergraduate and graduate level students looking for a real world perspective Thorough coverage of the fundamentals and relevant theory Recognition and support for the creative side of the process Expanded coverage of applied data modeling includes new chapters on logical and physical database design New material describing a powerful technique for model verification Unique coverage of the practical and human aspects of modeling such as working with business specialists managing change and resolving conflict

Data-Centric Applications with Vaadin 8 Alejandro Duarte,2018-04-30 Vaadin is an open source Java framework used to build modern user interfaces Vaadin 8 simplifies application development

and improves user experience The book starts with an overview of the architecture of Vaadin applications You will also learn advanced concepts like internationalization authentication authorization and database connectivity *Data-Centric Business and Applications* Dmytro Ageyev,Tamara Radivilova,Natalia Kryvinska,2020-01-03 Building on the authors previous work this book addresses key processes and procedures used in information data processing and management Modern methods of business information processing which draw on artificial intelligence big data and cloud based storage and processing are opening exciting new opportunities for doing business on the basis of information technologies Thus in this third book the authors continue to explore various aspects technological as well as business and social of the information industries Further they analyze the challenges and opportunities entailed by these kinds of business **Designing Database Applications with Objects and Rules** Stefano Ceri,Piero Fraternali,1997 This text provides the Intelligent Database Environment for Advanced Applications IDEA methodology for the development maintenance and application of modern database systems It seeks to enable the reader to take advantage of current advances in software engineering techniques The book is split into three parts covering an introduction to the models and languages used in the methodology the process of analysis design prototyping and implementation and how to put the methodology to work **New Perspectives on Data Driven Web Sites with Microsoft Access 2000** Lisa L. Friedrichsen,2001 Leading the way with new technology the New Perspectives Series puts readers in the driver s seat with real life cases that promote critical thinking and problem solving All books in this series feature extensive hands on exercises that have helped thousands of readers learn and remember computer skills

DATA CENTRIC.NET, Jacob Hammer Pederson,Fabio Claudio Ferracchiati,Kent Tegels,2001-12-23 The development of the .NET Framework with the associated release of the C# programming language is set to stimulate a new wave of application development This book aims to provide the information needed to develop powerful data centric applications using C# To do this it covers the new features of ADO.NET that deliver efficient data access and manipulation and the XML handling capabilities of the .NET Framework Accepting that data centric applications will utilize a variety of sources and inputs it also looks at additional topics such as using ADO.NET with C# Messaging Services and utilizing the Registry and Active Directory This information is put into context within a number of case studies including one showing how to migrate an application from Visual Basic 6 to C# [Beginning ASP.NET 1.1 Databases](#) Dan Maharry,Damien Foggon,2004-08-03 This title built from the Expert s Voice principles of Apress and will have a single author voice and speak directly to the reader from a known expert rather than the cacophony of the Wiley title This title will be positioned within a larger ASP.NET book tree and publishing program from Apress the reader will be able to progress through this program from Apress and understand which books are suitable for them at any point in their career Apress targets the skill sets that programmers specifically need in their ASP.NET programming career offering the right skills that the reader requires in their work and growth towards becoming an expert 2 months ASPToday.com subscription FREE for customers ASP.NET v2 PREVIEW FREE with this book **Phillips**

Document Management Source Book ,1997

Data Modeling Essentials Graeme C. Simsion,Graham C. Witt,2001

This essential guide focuses on data quality and why the data model is so important plus includes essential material on developing a real model and covers organization of the modeling task and managing compromises

AI Strategies for Social Entrepreneurship and Sustainable Economic Development Yu, Poshan,Wong, Steve K.M.,Prabhakar, Akhilesh

Chandra,2024-12-26 While the 20th century saw massive successes in terms of industrialization much of the world s population was excluded from the spoils of these endeavors and often directly exploited in their achievement Simultaneously the environmental impact of these practices has done irreparable harm to our world Now nearly a quarter through the 21st century we must ensure that the same mistakes are not repeated and that we use recent technological developments such as artificial intelligence to more evenly distribute earnings and resources while also ensuring that our environment is protected AI Strategies for Social Entrepreneurship and Sustainable Economic Development explores the intersection of inclusive innovation artificial intelligence AI strategies social entrepreneurship and sustainable economic development The book delves into how AI technologies can be leveraged to promote social inclusion drive entrepreneurship and foster sustainable economic growth in diverse contexts This book contribute to the existing literature by providing insights into the potential of AI in advancing inclusive innovation and sustainable development Offering practical strategies case studies and best practices this book is an excellent resource for policymakers researchers practitioners and students interested in the intersection of AI social entrepreneurship and economic development

Conceptual Database Design Carlo Batini,Stefano Ceri,Shamkant B. Navathe,1992 This database design book provides the reader with a unique methodology for the conceptual and logical design of databases A step by step method is given for developing a conceptual structure for large databases with multiple users Additionally the authors provide an up to date survey and analysis of existing database design tools

Assessment and Control of Software Risks Capers Jones,1994 This handbook summarizes more than 50 of the major problems of building and maintaining software projects and outlines the prevention control therapies available

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