

Dmbok

As data management and integration continue to evolve rapidly, storing all your data in one place, such as a data warehouse, is no longer scalable. In the very near future, data will need to be distributed and available for several technological solutions. With this practical book, you'll learn how to migrate your enterprise from a complex and tightly coupled data landscape to a more flexible architecture ready for the modern world of data consumption. Executives, data architects, analytics teams, and compliance and governance staff will learn how to build a modern scalable data landscape using the Scaled Architecture, which you can introduce incrementally without a large upfront investment. Author Pietheine Strengholt provides blueprints, principles, observations, best practices, and patterns to get you up to speed. Examine data management trends, including technological developments, regulatory requirements, and privacy concerns Go deep into the Scaled Architecture and learn how the pieces fit together Explore data governance and data security, master data management, self-service data marketplaces, and the importance of metadata

This book reports on innovative research and developments in automation. Spanning a wide range of disciplines, including communication engineering, power engineering, control engineering, instrumentation, signal processing and cybersecurity, it focuses on methods and findings aimed at improving the control and monitoring of industrial and manufacturing processes as well as safety. Based on the International Russian Automation Conference, held on September 6–12, 2020, in Sochi, Russia, the book provides academics and professionals with a timely overview of and extensive information on the state of the art in the field of automation and control systems, and fosters new ideas and collaborations between groups in different countries.

This edited book first consolidates the results of the EU-funded EDISON project (Education for Data Intensive Science to Open New science frontiers), which developed training material and information to assist educators, trainers, employers, and research infrastructure managers in identifying, recruiting and inspiring the data science professionals of the future. It then deepens the presentation of the information and knowledge gained to allow for easier assimilation by the reader. The contributed chapters are presented in sequence, each chapter picking up from the end point of the previous one. After the initial book and project overview, the chapters present the relevant data science competencies and body of knowledge, the model curriculum required to teach the required foundations, profiles of professionals in this domain, and use cases and applications. The text is supported with appendices on related process models. The book can be used to develop new courses in data science, evaluate existing modules and courses, draft job descriptions, and plan and design efficient data-intensive research teams across scientific disciplines.

Master erwin DM to deliver robust and precise designs for both operational and analytical projects. Steve and Jeff start from the basics, explaining data modeling concepts and how to get up and running with erwin DM (erwin DM). Through a hands-on approach, business analysts, data professionals, and project managers will learn step-by-step how to build effective conceptual, logical, and physical data models. Complete the stages in identifying essential business requirements, designing the logical data model, transposing those logical modeling objects into physical tables and columns, and even generating the implementation database scripts. This book contains seven parts. Part I provides a foundation in data modeling and Part II a foundation in erwin DM. Part III covers the design layer technique and its application using erwin DM, distinguishing conceptual, logical, physical, and operational data models. Part IV covers entities, domains, attributes, key groups, validation rules, default rules, and subject areas, along with how to implement them using erwin DM. Part V explains the physical data model and how to convert a logical data model to a physical data model in erwin DM. Become confident creating tables, columns, indexes, and views. Part VI reveals advanced features available within erwin DM, including user defined properties, naming standards, forward engineering, reverse engineering, complete compare, report designer, and the bulk editor. Part VII explains several important tools to use in combination with erwin DM, including erwin DM NoSQL, erwin Data Catalog, and erwin Data Literacy.

When the future knocks on the door, it never walks away. Market and Competitive Intelligence (MCI) is the process of enhancing marketplace competitiveness through a greater understanding of a firm's competitive environment as well as leveraging the capabilities of preparedness for the future. What if you could: Spend more time creating forward-looking actionable intelligence, thanks to smarter tools? Collaborate better and develop hypotheses that can be tested and validated by data analysis? Become more in line with future market expectations as predictions are more accurate? Use human analysis to put information into context, ask relevant questions, and create the best algorithms for machines? This book digs deep into the challenges and opportunities of how to succeed with technology platforms for market and competitive intelligence. The authors draw on their extensive experience and real-life cases to present their Garden of Intelligence framework. These insights will make your organization healthier and more fit to reap the benefits of opportunities and handle disruptions in the future. With this book, we aim to bring intelligence into the future and the future into intelligence.

DAMA-DMBOK Data Management Body of Knowledge

Escrito por más de 120 profesionistas en la gestión de datos, la guía DAMA de los fundamentos para la gestión de datos (DAMA-DMBOK) es la recopilación más impresionante jamás realizada de principios y mejores prácticas en la gestión de datos. Este libro proporciona a profesionales de IT, ejecutivos, trabajadores del conocimiento, educadores e investigadores de gestión de datos un método de manejo de datos para desarrollar su arquitectura de información. En comparación con los libros PMBOK o el BABOK, el libro DAMA-DMBOK proporciona información sobre: · Gobierno de datos · Gestión de Arquitectura de Datos · Desarrollo de datos · Gestión de Operaciones de base de datos · Gestión de la seguridad de datos · Gestión de datos maestros y de referencia · Gestión de almacenamiento de datos e inteligencia de negocios · Gestión de documentación y contenidos · Gestión de metadatos · Gestión de calidad de datos · Desarrollo profesional Como introducción oficial a la gestión de datos, los objetivos de la guía DAMA-DMBOK son: · Construir consensos para una visión general aplicable a las funciones de gestión de datos. · Proporcionar definiciones estandarizadas para funciones comúnmente utilizadas en la gestión de datos, resultados, roles y otras terminologías. · Documentar principios guiados para la gestión de datos. · Presentar una visión neutral de buenas prácticas comúnmente aceptadas, técnicas y métodos ampliamente adoptados, y alcances alternativos significantes. · Clarificar los alcances y límites de la gestión de datos. · Desempeñarse como guía de referencia para una mayor comprensión para el lector Editores: Mark Mosley, Editor de desarrollo, Michel Brackett, Editor de producción, Susan Early, Asistente de editor, y Deborah Henderson, Patrocinador del proyecto. Prologo por John Zachman, Prefacio por John Schley (presidente internacional de DAMA) y Deborah Henderson (Presidenta de fundación DAMA, Vicepresidenta internacional de educación e investigación DAMA) y Epilogo por Michel Brackett. (Galardonado al Premio a la Trayectoria de DAMA Internacional). El DMBOK fue traducido al español por: Derly Almanza, Cinthia Carolina Sanchez Osorio, Karen Dawson, Ramón Vasquez, Juan Azcurra, Juan Diego Lorenzo, Fernando Giliberto, Sergio Tornati y Pablo Cigliuti. Prólogo por John Zachman: El libro es una recopilación exhaustiva de todos los temas y casos posibles que merecen consideración para iniciar y ejecutar u responsabilidades de gestión de datos en una empresa moderna. Es impresionante en su integralidad. No sólo identifica las metas y los objetivos de todos los temas de gestión de datos y las responsabilidades sino también sugiere de manera natural los participantes en la organización y los resultados finales que se deben esperar. La publicación comenzó como una recopilación trascendente muy necesaria de artículos y hechos sustantivos acerca del poco entendimiento del tema de la gestión de datos organizada por algunas personas de la sección Chicago de DAMA. Este material fue único en su momento por la carencia de información relacionada a este tema. Ha progresado hasta convertirse en un manual facultativo que merece un lugar en cualquier anaquel de gestión de datos. Hay una gran cantidad de información para el principiante de datos, pero también es de gran valor para el experto utilizándolo como una lista de

comprobación y validación de sus conocimientos y responsabilidades para asegurar que nada se le ha olvidado. Es impresionante su amplitud y exhaustividad. La guía DAMA-DMBOK merece un lugar en cada estantería de libros de profesionistas de gestión de datos y para un gerente general servirá como guía para establecer expectativas y para asignar responsabilidades para la gestión y la práctica de lo que se ha convertido en el recurso más crítico de la empresa que ha progresado en la era de la información: DATOS!

Como uma introdução oficial para o gerenciamento de dados, os objetivos do guia DMBOK® são: Construir um consenso para uma aplicação, geralmente visível das funções do gerenciamento de dados; Fornecer definições padrões para os usos comuns das funções do gerenciamento de dados, entregas, papéis e outras terminologias; Documentar os princípios voltados para o gerenciamento de dados; Apresentar uma visão geral neutra em relação a vendedores de soluções e produtos visando praticar boas práticas comuns, métodos e técnicas sabiamente adotados, e abordagens alternativas significativas; Esclarecer o escopo e os limites do gerenciamento de dados; Agir como uma referência que guia os leitores para recursos adicionais e para maiores entendimentos. Os editores são Mark Mosley, Editor de desenvolvimento, Michael Brackett, Editor de produção, Susan Early, Editor assistente, e Deborah Henderson (Presidente da fundação DAMA, e vice-presidente da Pesquisa e Educação da DAMA Internacional), e o pós-fácio por Michael Brackett. Prefácio por John Zachman: A publicação começou como não trivial, e necessária compilação de artigos e fatos de assuntos pouco entendidos do gerenciamento de dados orquestrados por algumas pessoas do capítulo da DAMA de Chicago. Como havia pouco material de referência de fundo sobre o assunto, foi o único na época. Cresceu para se tornar um manual pragmático dos praticantes e que certamente merece um lugar em toda prateleira dos profissionais que de alguma maneira estão envolvidos com o gerenciamento de dados. SOBRE O AUTOR: A DAMA Internacional é uma associação sem fins lucrativos, independente de vendedores de soluções e produtos, composta por profissionais técnicos e de negócios que se dedicam ao avanço dos conceitos e práticas para o recurso de gerenciamento de dados e a informação das organizações. O principal propósito da DAMA Internacional é promover o entendimento, o desenvolvimento, e a prática de gerenciamento de dados e informações a fim de apoiar estratégias de negócios. A DAMA Internacional tem capítulos em todo o mundo. Os membros da rede DAMA e outros profissionais compartilham ideias, tendências, problemas, e soluções. Acesse o site dama.org para maiores informações.

Making Enterprise Information Management (EIM) Work for Business: A Guide to Understanding Information as an Asset provides a comprehensive discussion of EIM. It endeavors to explain information asset management and place it into a pragmatic, focused, and relevant light. The book is organized into two parts. Part 1 provides the material required to sell, understand, and validate the EIM program. It explains concepts such as treating Information, Data, and Content as true assets; information management maturity; and how EIM affects organizations. It also reviews the basic process that builds and maintains an EIM program, including two case studies that provide a birds-eye view of the products of the EIM program. Part 2 deals with the methods and artifacts necessary to maintain EIM and have the business manage information. Along with overviews of Information Asset concepts and the EIM process, it discusses how to initiate an EIM program and the necessary building blocks to manage the changes to managed data and content. Organizes information modularly, so you can delve directly into the topics that you need to understand Based in reality with practical case studies and a focus on getting the job done, even when confronted with tight budgets, resistant stakeholders, and security and compliance issues Includes applicatory templates, examples, and advice for executing every step of an EIM program

Managing data continues to grow as a necessity for modern organizations. There are seemingly infinite opportunities for organic growth, reduction of costs, and creation of new products and services. It has become apparent that none of these opportunities can happen smoothly without data governance. The cost of exponential data growth and privacy / security concerns are becoming burdensome. Organizations will encounter unexpected consequences in new sources of risk. The solution to these challenges is also data governance; ensuring balance between risk and opportunity. Data Governance, Second Edition, is for any executive, manager or data professional who needs to understand or implement a data governance program. It is required to ensure consistent, accurate and reliable data across their organization. This book offers an overview of why data governance is needed, how to design, initiate, and execute a program and how to keep the program sustainable. This valuable resource provides comprehensive guidance to beginning professionals, managers or analysts looking to improve their processes, and advanced students in Data Management and related courses. With the provided framework and case studies all professionals in the data governance field will gain key insights into launching successful and money-saving data governance program. Incorporates industry changes, lessons learned and new approaches Explores various ways in which data analysts and managers can ensure consistent, accurate and reliable data across their organizations Includes new case studies which detail real-world situations Explores all of the capabilities an organization must adopt to become data driven Provides guidance on various approaches to data governance, to determine whether an organization should be low profile, central controlled, agile, or traditional Provides guidance on using technology and separating vendor hype from sincere delivery of necessary capabilities Offers readers insights into how their organizations can improve the value of their data, through data quality, data strategy and data literacy Provides up to 75% brand-new content compared to the first edition

"Over the past 15 years there has been a move away from the concept of 'corporate' data management to a model based on 'project' data management. Project data management has usually meant doing only what was necessary to get a project over-the-line without a lot of consideration of the longer-term needs of the enterprise. This model is driven by project cost, resources, and deliverable time frames. The result of this change has been a loss of standardized processes to ensure that data is managed as a corporate asset. We may now have situations where projects have done their own thing and there is no centralized data dictionary explaining our data and perhaps little knowledge of where our data actually is. We may also have data with an unknown level of quality even though this drives customer interactions and

business insight. Recreating corporate data management and governance processes is a daunting task. We also have to work in a new world where there is little desire for expensive documentation and bureaucratic processes. "--Resource description page.

Data stewards in business and IT are the backbone of a successful data governance implementation because they do the work to make a company's data trusted, dependable, and high quality. Data Stewardship explains everything you need to know to successfully implement the stewardship portion of data governance, including how to organize, train, and work with data stewards, get high-quality business definitions and other metadata, and perform the day-to-day tasks using a minimum of the steward's time and effort. David Plotkin has loaded this book with practical advice on stewardship so you can get right to work, have early successes, and measure and communicate those successes, gaining more support for this critical effort. Provides clear and concise practical advice on implementing and running data stewardship, including guidelines on how to organize based on company structure, business functions, and data ownership Shows how to gain support for your stewardship effort, maintain that support over the long-term, and measure the success of the data stewardship effort and report back to management Includes detailed lists of responsibilities for each type of data steward and strategies to help the Data Governance Program Office work effectively with the data stewards

Defining a set of guiding principles for data management and describing how these principles can be applied within data management functional areas; Providing a functional framework for the implementation of enterprise data management practices; including widely adopted practices, methods and techniques, functions, roles, deliverables and metrics; Establishing a common vocabulary for data management concepts and serving as the basis for best practices for data management professionals. DAMA-DMBOK2 provides data management and IT professionals, executives, knowledge workers, educators, and researchers with a framework to manage their data and mature their information infrastructure, based on these principles: Data is an asset with unique properties; The value of data can be and should be expressed in economic terms; Managing data means managing the quality of data; It takes metadata to manage data; It takes planning to manage data; Data management is cross-functional and requires a range of skills and expertise; Data management requires an enterprise perspective; Data management must account for a range of perspectives; Data management is data lifecycle management; Different types of data have different lifecycle requirements; Managing data includes managing risks associated with data; Data management requirements must drive information technology decisions; Effective data management requires leadership commitment.

A lot of companies realize that data is an invaluable asset and has to be managed accordingly. They would also like to get value from data. Everyone wants to be 'data-driven' these days. What lies beneath this idea, is the wish to make the decision-making process easier and more effective. It means delivering the required data of acceptable quality to the relevant decision makers when and where they need it. In short: a lot of companies have the necessity to manage their data properly. The main question is: how do you put this in practice? Knowing the potential of your data, and managing it correctly is the key to an effective and successful business. As a result of well-implemented data management, you will be able to reduce risks and costs, increase efficiency, ensure business continuity and successful growth. In this book, we invite you for a five-course dinner. During each course we will explain the steps of our 5-step programme which guarantees successful implementation of data management.

Let the masters guide you on your Chief Data Officer (CDO) journey! The CDO is a new business role, and just starting to appear in state, local, and federal governments. Like many new roles, the CDO's responsibilities are continuously evolving and changing. Most institutions are not consistent with assigning CDO responsibilities, and this lack of standardization is of great concern. Also, some say public and private sector CDOs are dramatically different. We don't believe that. We think CDOs are more similar than dissimilar. More importantly, though, we think private and public CDOs can learn from each other. We've created this book to help all CDOs, public and private. This book is about ideas and recommendations which have broad application—on the shop floor, in a conference room, or even in legislative chambers. Apply our advice to smooth your ride during the CDO journey. Use our ideas and suggestions in ways that work for you, because every organization and data journey is different. These ideas are here to help you avoid some of our frustrations. We hope this can reach executives, managers, legislators, and others leading organizations to help bridge explanations of new vocabulary, ideas, and processes. Ultimately, we think this book will help you create data-centric value for your organization.

This is the single best book ever written on data quality. Clear, concise, and actionable. We all want to leverage our data resources to drive growth, but we too often ignore the fundamentals of data quality, which almost always inhibits our success. Tom lays out a clear path for each organization to holistically improve not only its data quality, but more importantly the performance of its business as a whole. —Jeffrey G. McMillan, Chief Analytics and Data Officer, Morgan Stanley This book lays out the roles everyone, up and down the organization chart, can and must play to ensure that data is up to the demands of its use, in day-in, day-out work, decision-making, planning, and analytics. By now, everyone knows that bad data extorts an enormous toll, adding huge (though often hidden) costs, and making it more difficult to make good decisions and leverage advanced analyses. While the problems are pervasive and insidious, they are also solvable! As Tom Redman, "the Data Doc," explains in *Getting in Front on Data*, the secret lies in getting the right people in the right roles to "get in front" of the management and social issues that lead to bad data in the first place. Everyone should see himself or herself in this book. We are all both data customers and data creators—after all, we use data created by others and create data used by others. And all of us must step up to these roles. As data customers, we must clarify our most important needs and communicate them to data creators. As data creators, we must strive to meet those needs by finding and eliminating the root causes of error. *Getting in Front on Data* proposes new roles for data professionals as: embedded data managers, in helping data customers and creators complete their work, DQ team leads, in connecting customers and creators, pulling the entire program together, and training people on their new roles, data maestros, in providing deep expertise on the really tough problems, chief data architects, in establishing common data definitions, and technologists, in increasing scale and decreasing unit cost. *Getting in Front on Data* introduces a new role, the data provocateur, the motive force in attacking data quality properly! This book urges everyone to unleash their inner provocateur. Finally, it crystallizes what senior leaders must do if their entire organizations are to enjoy the benefits of high-quality data! Data quality has always been important. But now, in the growing digital economy where business transactions and customer experiences are automated and tailored, data quality is critical. This book comes just in time. —Maria C. Villar, Global Vice President, SAP America, Inc. Winning, and more importantly thriving, in the digital age requires more than stating "Data is a strategic corporate asset."

Leaders and organizations need a plan of action to make the new vision a reality. Tom's latest book is a how-to for those seeking that reality. —Bob Palermo, Vice President, Performance Excellence, Shell Unconventionals Many, if not most, companies still struggle with their data. With his latest offering, Tom Redman sets out a path they can follow to Get in Front on Data. Based on his decades of experience working with many companies and individuals, this is the most practical guide around. A must read for data professionals, and especially data “provocateurs”. —Ken Self, President IAIDQ This book offers a unique perspective on how to think about data and address Data Quality – offering practical guidance and useful instruction from the perspective of each stakeholder. The process – and processes – to go from business need to having the right quality data to address that need is no small task. —John Nicodemo, Global Leader, Data Quality, Dun & Bradstreet Getting in Front on Data is a clearly written survival handbook for the new data-driven economy. It is a “must read” for the employees of any organization expecting to remain relevant and competitive. The “Data Doc” has an extraordinary talent for explaining key concepts with simple examples and understandable analogies making it accessible to everyone in their organization regardless of their role. —John R. Talburt, Director of the Information Quality Graduate Program University of Arkansas at Little Rock

Text in Spanish.

Information and how we manage, process and govern it is becoming increasingly important as organizations ride the wave of the big data revolution. Ethical Data and Information Management offers a practical guide for people in organizations who are tasked with implementing information management projects. It sets out, in a clear and structured way, the fundamentals of ethics, and provides practical and pragmatic methods for organizations to embed ethical principles and practices into their management and governance of information. Written by global experts in the field, Ethical Data and Information Management is an important book addressing a topic high on the information management agenda. Key coverage includes how to build ethical checks and balances into data governance decision making; using quality management methods to assess and evaluate the ethical nature of processing during design; change methods to communicate ethical values; how to avoid common problems that affect ethical action; and how to make the business case for ethical behaviours.

Data governance looks simple on paper, but in reality it is a complex issue facing organizations. In this practical guide, data experts Uma Gupta and San Cannon look to demystify data governance through pragmatic advice based on real-world experience and cutting-edge academic research.

"The DMBOK2 articulates a set of 13 principles for data management. These recognize data's unique properties, its value, and the work involved in ensuring its quality. The principles apply to data management generally, but they also inform the work of each data management knowledge area. This presentation will explore the thinking behind the principles and will focus on their application to the data modeling process. The session will be interactive, with participants invited to share their insights about the ways in which a comprehensive vision of data management can support the work of individual practitioners."--Resource description page.

The overall objective of this book is to show that data management is an exciting and valuable capability that is worth time and effort. More specifically it aims to achieve the following goals: 1. To give a “gentle” introduction to the field of DM by explaining and illustrating its core concepts, based on a mix of theory, practical frameworks such as TOGAF, ArchiMate, and DMBOK, as well as results from real-world assignments. 2. To offer guidance on how to build an effective DM capability in an organization. This is illustrated by various use cases, linked to the previously mentioned theoretical exploration as well as the stories of practitioners in the field. The primary target groups are: busy professionals who “are actively involved with managing data”. The book is also aimed at (Bachelor’s/ Master’s) students with an interest in data management. The book is industry-agnostic and should be applicable in different industries such as government, finance, telecommunications etc. Typical roles for which this book is intended: data governance office/ council, data owners, data stewards, people involved with data governance (data governance board), enterprise architects, data architects, process managers, business analysts and IT analysts. The book is divided into three main parts: theory, practice, and closing remarks. Furthermore, the chapters are as short and to the point as possible and also make a clear distinction between the main text and the examples. If the reader is already familiar with the topic of a chapter, he/she can easily skip it and move on to the next.

Data-governance programs focus on authority and accountability for the management of data as a valued organizational asset. Data Governance should not be about command-and-control, yet at times could become invasive or threatening to the work, people and culture of an organization. Non-Invasive Data Governance™ focuses on formalizing existing accountability for the management of data and improving formal communications, protection, and quality efforts through effective stewarding of data resources. Non-Invasive Data Governance will provide you with a complete set of tools to help you deliver a successful data governance program. Learn how:

- Steward responsibilities can be identified and recognized, formalized, and engaged according to their existing responsibility rather than being assigned or handed to people as more work.
- Governance of information can be applied to existing policies, standard operating procedures, practices, and methodologies, rather than being introduced or emphasized as new processes or methods.
- Governance of information can support all data integration, risk management, business intelligence and master data management activities rather than imposing inconsistent rigor to these initiatives.
- A practical and non-threatening approach can be applied to governing information and promoting stewardship of data as a cross-organization asset.
- Best practices and key concepts of this non-threatening approach can be communicated effectively to leverage strengths and address opportunities to improve.

La Guía del Conocimiento para la Gestión de Datos (DAMA-DMBOK2) presenta una visión exhaustiva de los desafíos, complejidades y valor de la gestión eficaz de los datos. Las organizaciones de hoy en día reconocen que la gestión de los datos es fundamental para su éxito. Reconocen que los datos tienen valor y quieren aprovechar ese valor. A medida que nuestra capacidad y deseo de crear y explotar datos ha aumentado, también lo ha hecho la necesidad de prácticas de gestión de datos confiables. La segunda edición de la Guía del Conocimiento para la Gestión de Datos de DAMA International actualiza y aumenta el exitoso DMBOK1. DMBOK2, un libro de referencia accesible y autorizado, escrito por los principales pensadores en el campo y ampliamente revisado por los miembros de DAMA, reúne materiales que describen exhaustivamente los desafíos de la gestión de datos y cómo cumplirlos mediante:

- Definir un conjunto de principios rectores para la gestión de datos y describir cómo se pueden aplicar estos principios dentro de las áreas funcionales de gestión de datos.
- Proporcionar un marco de referencia funcional para la implementación de prácticas de gestión de datos empresariales, incluyendo prácticas, métodos y técnicas ampliamente adoptadas, funciones, roles, entregables y métricas.
- Establecer un vocabulario común para los conceptos de gestión de datos y servir de base para las mejores prácticas para los profesionales de la gestión de datos.

DAMA-DMBOK2 proporciona a los profesionales de la gestión de datos y de TI, a ejecutivos, trabajadores del conocimiento, educadores e investigadores un marco para gestionar sus datos y madurar su infraestructura de información, basado en estos principios:

- Los datos son un activo con propiedades únicas
- El valor de los datos puede y debe expresarse en términos económicos
- Gestionar los datos significa gestionar la calidad de los datos
- Se necesitan metadatos para gestionar los datos
- Se necesita planificación para gestionar los datos
- La gestión de datos es multifuncional y requiere una amplia gama de habilidades y experiencia
- La gestión de datos requiere una perspectiva empresarial
- La gestión de datos debe tener en cuenta una serie de perspectivas
- La

gestión de datos es la gestión del ciclo de vida de los datos · Los diferentes tipos de datos tienen diferentes requerimientos de ciclo de vida · La gestión de datos incluye la gestión de los riesgos asociados a los datos · Los requerimientos de gestión de datos deben impulsar las decisiones sobre tecnología de la información · Una gestión eficaz de los datos requiere un compromiso de liderazgo Los capítulos incluyen: · Gestión de Datos · Manejo Ético de los Datos · Gobierno de Datos · Arquitectura de Datos · Modelado y Diseño de Datos · Almacenamiento de Datos y Operaciones · Seguridad de Datos · Integración de Datos e Interoperabilidad · Gestión de Documentos y Contenidos · Datos Maestros y de Referencia · Data Warehousing e Inteligencia de Negocios · Gestión de Metadatos · Calidad de Datos · Big Data y Ciencia de Datos · Evaluación de la Madurez de la Gestión de Datos · Organización de la Gestión de Datos y Expectativas de Roles · Gestión de Datos y Gestión del Cambio Organizacional La estandarización de las disciplinas de gestión de datos ayudará a los profesionales de la gestión de datos a desempeñarse de forma más eficaz y consistente. También permitirá a los líderes de la organización reconocer el valor y las contribuciones de las actividades de gestión de datos.

This book constitutes the refereed proceedings of five workshops symposia, held at the 38th International Conference on Conceptual Modeling, ER 2019, in Salvador, Brazil, in November 2019. The 34 papers promote and disseminate research on theories of concepts underlying conceptual modeling, methods and tools for developing and communicating conceptual models, techniques for transforming conceptual models into effective implementations, and the impact of conceptual modeling techniques on databases, business strategies and information systems. The following workshops are included in this volume: Workshop on Conceptual Modeling, Ontologies and Metadata Management for FAIR Data (FAIR), 6th Workshop on Conceptual Modeling in Requirements Engineering and Business Analysis (MREBA), 2nd International Workshop on Empirical Methods in Conceptual Modeling (EmpER), 8th International Workshop on Modeling and Management of Big Data (MoBiD19), and 7th International Workshop on Ontologies and Conceptual Modelling (OntoCom).

Written by over 120 data management practitioners, this is the most impressive compilation of data management principals and best practices, ever assembled. It provides data management and IT professionals, executives, knowledge workers, educators, and researchers with a framework to manage their data and mature their information infrastructure. The equivalent of the PMBOK or the BABOK, the DAMA-DMBOK provides information on: Data Governance; Data Architecture Management; Data Development; Database Operations Management; Data Security Management; Reference & Master Data Management; Data Warehousing & Business Intelligence Management; Document & Content Management; Meta Data Management; Data Quality Management; Professional Development. As an authoritative introduction to data management, the goals of the DAMA-DMBOK Guide are: To build consensus for a generally applicable view of data management functions; To provide standard definitions for commonly used data management functions, deliverables, roles, and other terminology; To document guiding principles for data management; To present a vendor-neutral overview to commonly accepted good practices, widely adopted methods and techniques, and significant alternative approaches; To clarify the scope and boundaries of data management; To act as a reference which guides readers to additional resources for further understanding.

This comprehensive textbook teaches the fundamentals of database design, modeling, systems, data storage, and the evolving world of data warehousing, governance and more. Written by experienced educators and experts in big data, analytics, data quality, and data integration, it provides an up-to-date approach to database management. This full-color, illustrated text has a balanced theory-practice focus, covering essential topics, from established database technologies to recent trends, like Big Data, NoSQL, and more. Fundamental concepts are supported by real-world examples, query and code walkthroughs, and figures, making it perfect for introductory courses for advanced undergraduates and graduate students in information systems or computer science. These examples are further supported by an online playground with multiple learning environments, including MySQL; MongoDB; Neo4j Cypher; and tree structure visualization. This combined learning approach connects key concepts throughout the text to the important, practical tools to get started in database management.

«DAMA-DMBOK: guida alla gestione dei dati» è un libro di riferimento accessibile e autorevole scritto da pensatori leader del settore e ampiamente recensito dai membri DAMA, il DMBOK2 riunisce materiali che descrivono in modo esaustivo le sfide del data management e come affrontarle: Definendo una serie di principi guida per il data management e descrivendo come questi principi possono essere applicati all'interno delle aree funzionali del data management. Fornendo un framework funzionale per l'implementazione dell'enterprise data management, includendo pratiche ampiamente adottate, metodi e tecniche, funzioni, ruoli deliverable e metriche. Stabilendo un vocabolario

This book contains practical steps business users can take to implement data management in a number of ways, including data governance, data architecture, master data management, business intelligence, and others. It defines data strategy, and covers chapters that illustrate how to align a data strategy with the business strategy, a discussion on valuing data as an asset, the evolution of data management, and who should oversee a data strategy. This provides the user with a good understanding of what a data strategy is and its limits. Critical to a data strategy is the incorporation of one or more data management domains. Chapters on key data management domains—data governance, data architecture, master data management and analytics, offer the user a practical approach to data management execution within a data strategy. The intent is to enable the user to identify how execution on one or more data management domains can help solve business issues. This book is intended for business users who work with data, who need to manage one or more aspects of the organization's data, and who want to foster an integrated approach for how enterprise data is managed. This book is also an excellent reference for students studying computer science and business management or simply for someone who has been tasked with starting or improving existing data management.

Il Data Management Body of Knowledge (DAMA-DMBOK2) presenta una vista complessiva delle sfide, complessità e valore di un'efficace gestione dei dati. Le organizzazioni odierne riconoscono che la gestione dei dati è fondamentale per il loro successo. Riconoscono il valore dei loro dati e cercano di sfruttare tale valore. Con l'aumento della nostra capacità di creare e sfruttare i dati, aumenta anche la necessità di pratiche affidabili di gestione dei dati. La seconda edizione della Guida di DAMA International al Data Management Body of Knowledge (DAMA-DMBOK2) aggiorna e accresce il DMBOK1, che ha avuto grande successo. Libro di riferimento accessibile e autorevole scritto da pensatori leader del settore e ampiamente recensito dai membri DAMA, il DMBOK2 riunisce materiali che descrivono in modo esaustivo le sfide del data management e come affrontarle: Definendo una serie di principi guida per il data management e descrivendo come questi principi possono essere applicati all'interno delle aree funzionali del data management. Fornendo un framework funzionale per l'implementazione dell'enterprise data management, includendo pratiche ampiamente adottate, metodi e tecniche, funzioni, ruoli deliverable e metriche. Stabilendo un vocabolario

