Data Governance: How To Design, Deploy And Sustain An Effective Data Governance Program (The Morgan Kaufmann Series On Business Intelligence)

Meeting the Challenges of Data Quality Management outlines the foundational concepts of data quality management its challenges. The book enables data management professionals to help their organizations get more value from dat addressing the five challenges of data quality management: the meaning challenge (recognizing how data represents reality), the process/quality challenge (creating high-quality data by design), the people challenge (building data liter the technical challenge (enabling organizational data to be accessed and used, as well as protected), and the accountability challenge (ensuring organizational leadership treats data as an asset). Organizations that fail to meet these challenges get less value from their data than organizations that address them directly. The book describes co data quality management capabilities and introduces new and experienced DQ practitioners to practical techniques f getting value from activities such as data profiling, DQ monitoring and DQ reporting. It extends these ideas to the management of data quality within big data environments. This book will appeal to data quality and data managemen professionals, especially those involved with data governance, across a wide range of industries, as well as academi and government organizations. Readership extends to people higher up the organizational ladder (chief data officers, data strategists, analytics leaders) and in different parts of the organization (finance professionals, operations mana IT leaders) who want to leverage their data and their organizational capabilities (people, processes, technology) to d value and gain competitive advantage. This will be a key reference for graduate students in computer science progra which normally have a limited focus on the data itself and where data quality management is an often-overlooked as of data management courses. Describes the importance of high-quality data to organizations wanting to leverage th data and, more generally, to people living in today's digitally interconnected world Explores the five challenges in rela to organizational data, including "Big Data," and proposes approaches to meeting them Clarifies how to apply the co capabilities required for an effective data quality management program (data standards definition, data quality assessment, monitoring and reporting, issue management, and improvement) as both stand-alone processes and as integral components of projects and operations Provides Data Quality practitioners with ways to communicate consistently with stakeholders

Platform Ecosystems is a hands-on guide that offers a complete roadmap for designing and orchestrating vibrant software platform ecosystems. Unlike software products that are managed, the evolution of ecosystems and their r participants must be orchestrated through a thoughtful alignment of architecture and governance. Whether you are professional or a general manager, you will benefit from this book because platform strategy here lies at the interse of software architecture and business strategy. It offers actionable tools to develop your own platform strategy, ba original research, tangible metrics, rich data, and cases. You will learn how architectural choices create organically-evolvable, vibrant ecosystems. You will also learn to apply state-of-the-art research in software engineering, strateg and evolutionary biology to leverage ecosystem dynamics unique to platforms. Read this book to learn how to: Evolv software products and services into vibrant platform ecosystems Orchestrate platform architecture and governance sustain competitive advantage Govern platform evolution using a powerful 3-dimensional framework If you're ready transform platform strategy from newspaper gossip and business school theory to real-world competitive advantag right here! Understand how architecture and strategy are inseparably intertwined in platform ecosystems Architect proof platforms and apps and amplify these choices through governance Evolve platforms, apps, and entire ecosyste into vibrant successes and spot platform opportunities in almost any—not just IT—industry

This volume constitutes the refereed post-conference proceedings of the Fourth International Conference on Machi Learning and Intelligent Communications, MLICOM 2019, held in Nanjing, China, in August 2019. The 65 revised full papers were carefully selected from 114 submissions. The papers are organized thematically in machine learning, intelligent positioning and navigation, intelligent multimedia processing and security, wireless mobile network and security, cognitive radio and intelligent networking, IoT, intelligent satellite communications and networking, green communication and intelligent networking, ad-hoc and sensor networks, resource allocation in wireless and cloud networks, signal processing in wireless and optical communications, and intelligent cooperative communications and networking.

Data is fundamentally changing the nature of businesses and organisations, and the mechanisms for delivering produ and services. This book is a practical guide to developing strategy and policy for data governance, in line with the developing ISO 38505 governance of data standards. It will assist an organisation wanting to become more of a dat driven business by explaining how to assess the value, risks and constraints associated with collecting, using and distributing data.

A practical handbook to help business professionals develop, implement and propagate data governance and data quality practices at their organizations.

What is data governance? And what are the principles and techniques you can leverage as a business or IT professional to make data governance successful within your organization? Data Governance will answer these questions and provide you with insights and approaches to improve the "data fitness" of your organization. Gain control of your data and assign responsible parties to ensure the data remains well-understood and protected, by applying the content within this book's six chapters: · Chapter 1, Understanding Data Governance, looks at the broad definitions of data governance along with issues within data governance. · Chapter 2, Owning Data Governance, looks at Ownership, Wider Perspectives, and Roles, and explores how transparent data governance can simplify the complexities of data ownership. · Chapter 3, Data Confidence, explores using tools (e.g., standards, strategies, and policies) to clearly align business objectives with realistic IT deliverables and produce meaningful outcomes. · Chapter 4, Getting Data Fit, covers the basic elements required to make data governance work for your specific organization. There are five steps required to achieve a basic level of data fitness and effective governance. · Chapter 5, Approach and Stakeholders, covers various ways to implement data governance to ensure there are clear milestones and trigger points for key stakeholders to approve each phase. A data scorecard is introduced as a tool to help guide an organization through the data governance process. · Chapter 6, A Case Study, concerns a fictitious company, D474, used to illustrate the various examples and scenarios for implementing data governance.

Multi-Domain Master Data Management delivers practical guidance and specific instruction to help guide planners and practitioners through the challenges of a multi-domain master data management (MDM) implementation. Authors Mark Allen and Dalton Cervo bring their expertise to you in the only reference you need to help your organization take master data management to the next level by incorporating it across multiple domains. Written in a business friendly style with sufficient program planning guidance, this book covers a comprehensive set of topics and advanced strategies centered on the key MDM disciplines of Data Governance, Data Stewardship, Data Quality Management, Metadata Management, and Data Integration. Provides a logical order toward planning, implementation, and ongoing management of multi-domain MDM from a program manager and data steward perspective. Provides detailed guidance, examples and illustrations for MDM practitioners to apply these insights to their strategies, plans, and processes. Covers advanced MDM strategy and instruction aimed at improving data quality management, lowering data maintenance costs, and reducing corporate risks by applying consistent enterprise-wide practices for the management and control of master data.

As you move data to the cloud, you need to consider a comprehensive approach to data governance, along with well-defined and agreed-upon policies to ensure your organization meets compliance requirements. Data governance incorporates the ways people, processes, and technology work together to ensure data is trustworthy and can be used effectively. This practical guide shows you how to effectively implement and scale data governance throughout your organization. Chief information, data, and security officers and their teams will learn strategy and tooling to support democratizing data and unlocking its value while enforcing security, privacy, and other governance standards. Through good data governance, you can inspire customer trust, enable your organization to identify business efficiencies, generate more competitive offerings, and improve customer experience. This book shows you how. You'll learn: Data governance strategies addressing people, processes, and tools Benefits and challenges of a cloud-based data governance approach How data governance is conducted from ingest to preparation and use How to handle the ongoing improvement of data quality Challenges and techniques in governing streaming data Data protection for authentication, security, backup, and monitoring How to build a data culture in your organization

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.

This IBM RedguideTM publication looks back on the key decisions that made the data lake successful and looks forward to the future. It proposes that the metadata management and governance approaches developed for the data lake can be adopted more broadly to increase the value that an organization gets from its data. Delivering this broader vision, however, requires a new generation of data catalogs and governance tools built on open standards that are adopted by a multi-vendor ecosystem of data platforms and tools. Work is already underway to define and deliver this capability, and there are multiple ways to engage. This guide covers the reasons why this new capability is critical for modern businesses and how you can get value from it.

Information and Communication Technologies for Development

Data Stewardship

19th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2020, Skukuza, South Africa, April 6–8, 2020, Proceedings, Part I

Creating and Measuring Trusted Data for Businesses

Data Governance: The Definitive Guide

From Zen to Reality

Getting in Front on Data

This book is for any manager or team leader that has the green light to implement a data governance program What you will find in this book is an overview of why data governance is needed, how to design, initiate, and execute a program and how to keep the program sustainable.

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

The key to a successful MDM initiative isn't technology or methods, it's people: the stakeholders in the organization and their complex ownership of the data that the initiative will affect. Master Data Management equips you with a deeply practical, business-focused way of thinking about MDM—an understanding that will greatly enhance your ability to communicate with stakeholders and win their support. Moreover, it will help you deserve their support: you'll master all the details involved in planning and executing an MDM project that leads to measurable improvements in business productivity and effectiveness. * Presents a comprehensive

roadmap that you can adapt to any MDM project. * Emphasizes the critical goal of maintaining and improving data quality. * Provides guidelines for determining which data to "master. * Examines special issues relating to master data metadata. * Considers a range of MDM architectural styles. * Covers the synchronization of master data across the application infrastructure.

Managing information within the enterprise has always been a vital and important task to support the day-to-day business operations and to enable analysis of that data for decision making to better manage and grow the business for improved profitability. To do all that, clearly the data must be accurate and organized so it is accessible and understandable to all who need it. That task has grown in importance as the volume of enterprise data has been growing significantly (analyst estimates of 40 - 50% growth per year are not uncommon) over the years. However, most of that data has been what we call "structured" data, which is the type that can fit neatly into rows and columns and be more easily analyzed. Now we are in the era of "big data." This significantly increases the volume of data available, but it is in a form called "unstructured" data. That is, data from sources that are not as easily organized, such as data from emails, spreadsheets, sensors, video, audio, and social media sites. There is valuable information in all that data but it calls for new processes to enable it to be analyzed. All this has brought with it a renewed and critical need to manage and organize that data with clarity of meaning, understandability, and interoperability. That is, you must be able to integrate this data when it is from within an enterprise but also importantly when it is from many different external sources. What is described here has been and is being done to varying extents. It is called "information governance." Governing this information however has proven to be challenging. But without governance, much of the data can be less useful and perhaps even used incorrectly, significantly impacting enterprise decision making. So we must also respect the needs for information security, consistency, and validity or else suffer the potential economic and legal consequences. Implementing sound governance practices needs to be an integral part of the information control in our organizations. This IBM® Redbooks® publication focuses on the building blocks of a solid governance program. It examines some familiar governance initiative scenarios, identifying how they underpin key governance initiatives, such as Master Data Management, Quality Management, Security and Privacy, and Information Lifecycle Management. IBM Information Management and Governance solutions provide a comprehensive suite to help organizations better understand and build their governance solutions. The book also identifies new and innovative approaches that are developed by IBM practice leaders that can help as you implement the foundation capabilities in your organizations.

Data Architecture: From Zen to Reality explains the principles underlying data architecture, how data evolves with organizations, and the challenges organizations face in structuring and managing their data. Using a holistic approach to the field of data architecture, the book describes proven methods and technologies to solve the complex issues dealing with data. It covers the various applied areas of data, including data modelling and data model management, data quality, data governance, enterprise information management, database design, data warehousing, and warehouse design. This text is a core resource for anyone customizing or aligning data management systems, taking the Zen-like idea of data architecture to an attainable reality. The book presents fundamental concepts of enterprise architecture with definitions and real-world applications and scenarios. It teaches data managers and planners about the challenges of building a data architecture roadmap, structuring the right team, and building a long term set of solutions. It includes the detail needed to illustrate how the fundamental principles are used in current business practice. The book is divided into five sections, one of which addresses the software-application development process, defining tools, techniques, and methods that ensure repeatable results. Data Architecture is intended for people in business management involved with corporate data issues and information technology decisions, ranging from data architects to IT consultants, IT auditors, and data administrators. It is also an ideal reference tool for those in a higher-level education process involved in data or information technology management. Presents fundamental concepts of enterprise architecture with definitions and real-world applications and scenarios Teaches data managers and planners about the challenges of building a data architecture roadmap, structuring the right team, and building a long term set of solutions Includes the detail needed to illustrate how the fundamental principles are used in current business practice

How to Design, Deploy, and Sustain an Effective Data Governance Program
14th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries, ICT4D 2017, Yogyakarta, Indonesia, May 22-24, 2017, Proceedings
How to Design, Deploy and Sustain an Effective Data Governance Program
The Design of Alliance Governance Systems
Principles of Database Management
Who Does What
Responsible Design, Implementation and Use of Information and Communication Technology

The Practitioner's Guide to Data Quality Improvement offers a comprehensive look at data quality for business and IT, encompassing people, process, and technology. It shares the fundamentals for understanding the impacts of poor data quality, and guides practitioners and managers alike in socializing, gaining sponsorship for, planning, and establishing a data quality program. It demonstrates how to institute and run a data quality program, from first thoughts and justifications to maintenance and ongoing metrics. It includes an in-depth look at the use of data quality tools, including business case templates, and tools for analysis, reporting, and strategic planning. This book is recommended for data management practitioners, including database analysts, information analysts, data administrators, data architects, enterprise architects, data warehouse engineers, and systems analysts, and their managers. Offers a comprehensive look at data quality for business and IT, encompassing people, process, and technology. Shows how to institute and run a data quality program, from first thoughts and justifications to maintenance and ongoing metrics. Includes an in-depth look at the use of data quality tools, including business case templates, and tools for analysis, reporting, and strategic planning.

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.

Data governance is broken. It's time we fix it. Why is data governance so ineffective? The truth is data governance programs aren't designed for the way we run our data teams, they aren't even designed for a modern organization at all. They were designed when reports still came through inter-office mail. The flow of data into, within, and out of today's organizations is a tsunami breaking through rigid data governance methods. Yet our programs still rely on that command and control approach. Have you ever tried to control a tsunami? Every organization that uses data knows that they need a data governance program. Data literacy efforts and legislation like GDPR have become the bellwethers for our governance functions. But we still sit in data governance meetings without enough people and too many questions to move things forward. There's no agility to the program because we imply a degree of frailty to the data that doesn't exist. We continue to insist on archaic methods that bring no value to our organizations. Achieving deep insights from data can't happen without good governance practices. All indicators point to the need to create a resilient and responsive data governance function. Where we go from here, and how we achieve success in data governance requires a radically different way. The hard truth: it's time to challenge everything we know about data governance. Laura Madsen shows you how to redefine governance for the modern age. With a casual, witty style Madsen taps on her decades of experience, shares interviews with other best-in-field experts and grounds her perspective in research. Witness where it all fell apart, challenge long-held beliefs, and commit to a fundamental shift—that governance is not about stopping or preventing usage but about supporting the usage of data. Be able to bring back trust and value to our data governance functions, and learn the: · People-driven approach to governance · Processes that support the tsunami of data · Cutting edge technology that's enabling data governance

In this book, authors Dalton Cervo and Mark Allen show you how to implement Master Data Management (MDM) within your business model to create a more quality controlled approach. Focusing on techniques that can improve data quality management, lower data maintenance costs, reduce corporate and compliance risks, and drive increased efficiency in customer data management practices, the book will guide you in successfully managing and maintaining your customer master data. You'll find the expert guidance you need, complete with tables, graphs, and charts, in planning, implementing, and managing MDM.

A practical guide for today's chief data officers to define and manage data governance programs The relatively new role of chief data officer (CDO) has been created to address the issue of managing a company's data as a strategic asset, but the problem is that there is no universally accepted "playbook" for this role. Magnifying the challenge is the rapidly increasing volume and complexity of data, as well as regulatory compliance as it relates to data. In this book, Sunil Soares provides a practical guide for today's chief data officers to manage data as an asset while delivering the trusted data required to power business initiatives, from the tactical to the transformative. The guide describes the relationship between the CDO and the data governance team, whose task is the formulation of policy to optimize, secure, and leverage information as an enterprise asset by aligning the objectives of multiple functions. Soares provides unique insight into the role of the CDO and presents a blueprint for implementing data governance successfully within the context of the position. With practical advice CDOs need, this book helps establish new data governance practices or mature existing practices.

Get Governed

The Practitioner's Guide to Data Quality Improvement

Data Governance

Measuring, Monitoring, and Managing Your Business

Big Data Governance

An Emerging Imperative

Fitness for Use

Strategic alliances have emerged as an important element of firms' strategies. Following suit, research on alliances has blossomed, concentrating on the various forms alliances take, the reasons of their existence, and increasingly embracing questions of alliance management and governance tasks. However, most contributions which address the alliance governance problem are yet rather vague and selective in their conception of alliance governance structures as well as the factors which influence their suitability. The aim of this book is to further advance our understanding of alliance governance and to provide recommendations on the problem of alliance governance design. Following the configurational approach, Sascha Albers develops a comprehensive model of alliance governance systems. He identifies relevant structural and instrumental design parameters and analyzes major contingency factors, including member firms' cultures and alliance experience, number of alliance partners, and trust, which impact the design parameters' suitability. He finally deducts five configurations, or ideal types, of alliance governance systems which can be regarded as blueprints for the practitioner and as platform for further research for the alliance scholar. Potential readership includes scholars of strategic management and organization theory, interested students in these areas as well as practitioners involved in formulating and implementing alliance strategies.

Tips, techniques, and trends on how to use dashboard technology tooptimize business performance Business

performance management is a hot new management disciplinethat delivers tremendous value when supported by informationtechnology. Through case studies and industry research, this bookshows how leading companies are using performance dashboards toexecute strategy, optimize business processes, and improveperformance. Wayne W. Eckerson (Hingham, MA) is the Director of Research for TheData Warehousing Institute (TDWI), the leading association ofbusiness intelligence and data warehousing professionals worldwidethat provide high-quality, in-depth education, training, andresearch. He is a columnist for SearchCIO.com, DM Review,Application Development Trends, the Business Intelligence Journal,and TDWI Case Studies & Solution.

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 learnhow 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 Piethein 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

Data analytics is core to business and decision making. The rapid increase in data volume, velocity and variety offers both opportunities and challenges. While open source solutions to store big data, like Hadoop, offer platforms for exploring value and insight from big data, they were not originally developed with data security and governance in mind. Big Data Management discusses numerous policies, strategies and recipes for managing big data. It addresses data security, privacy, controls and life cycle management offering modern principles and open source architectures for successful governance of big data. The author has collected best practices from the world's leading organizations that have successfully implemented big data platforms. The topics discussed cover the entire data management life cycle, data quality, data stewardship, regulatory considerations, data council, architectural and operational models are presented for successful management of big data. The book is a must-read for data scientists, data engineers and corporate leaders who are implementing big data platforms in their organizations.

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 Governance Simplified
Delivering a Data Strategy
An Executive Guide to Data Management
An Actionable Guide to Effective Data Management and Data Governance
Data Management at Scale

Master Data Management

"Get Governed" is the textbook for data governance professionals. Templar delivers complex information in an approachable style while offering the most accurate and easy to comprehend path toward proper and complete Data Governance for businesses of all sizes and types. Templar quickly conveys why governance matters and how it benefits your organization. No other book on Data Governance provides such a clear roadmap to success while keeping you awake and entertained with stories of how Data Governance has made a difference in the lives of customers and employees. With millions of data points changing every day, there is no time to waste. It is time to Get Governed! ADVANCED PRAISE: "Because data has quietly and quickly reached a critical mass of volume and complexity, the immense opportunities we seek with it can only be achieved when matched with a process of refining it to the few elements among the many that deserve the title 'asset.' "Morgan is sharing how data presents endless opportunities once the right structure, leadership, conversations and cultural shift begin to take place. Whether you picked up this book for curiosity or because you are now responsible for delivering Data Governance to an organization, "Get Governed" is a well-composed guide that will change the way you think about the problem. Morgan thoughtfully lays out the reasons for Data Governance, the setup, the buy-in, the proof-points and the successes and failures to learn from. Morgan takes you on this journey in such an approachable manner that average people and experienced data management professionals alike can all reap the benefits of her experience and knowledge. Data Governance can be broken down into driving value for three core objectives: Analytics and Insights, Operational Excellence and Compliance & Reporting. Use cases related to each define a reason for why data must be trusted and the means for how it must be governed to deliver trust. "This next era of business is only going to be successful by embracing data governance

and the importance of the trusted insight you will gain." - Marie Klok Crump, COO, Datum "Healthcare organizations are just starting to realize the potential value of the data they are sitting on, and 'Get Governed' explains both the "why" and the "how" to help organizations find the hidden value of those data assets. Whether you're just getting started, or have been in information management for years, "Get Governed" provides a practical, down-to-earth guide to get your organization on the right path to effective data governance." - Glen Schuster, Founder and Principal, Skrymir Data Strategies; Former CTO of Centene Corporation. "This book provides a unique perspective on the missing link in many organizations' data strategies - Governance. Governance is not just about control and decision making; it's how you enable the effective use of Data and Information to drive value and align it to the stakeholders which companies serve. As data consumption continues to grow exponentially, putting in place the right governance processes is critical. 'Get Governed' helps put some context and structure around these efforts." - Bill Fandrich, SVP and CIO Blue Cross Blue Shield of Michigan.

Organizations across industries are embracing data management and governance practices, primarily driven by regulation and service excellence. While it is equally important to set up a data office, it is also crucial to ensure sustainability of the function. Also, data governance is a pervasive enabler that supports a firm's corporate governance principles. The book highlights how an Enterprise can: -Overcome challenges in data offices today -Analyze existing data management strategy and capabilities to traverse maturity -Set up metadata and data quality management as services and successfully operationalize them -Formalize governance as a function through an operating model, based on its enabling culture -Define a benefits realization model to assess and monitor the value of managing and governing data

Data GovernanceHow to Design, Deploy, and Sustain an Effective Data Governance ProgramAcademic Press

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.

What is Information Governance? Information governance is using the business strategy to apply objectivity, economies, and efficiencies of scale to the processes necessary for the management of information in the achievement of business success. The point of Information or Data Governance is to create TRUSTED data for the business. But how is that actually done? This book is for the individual who is looking for a starting place for establishing a path to better information for their business through a data governance program. The book focuses on describing deliverables and techniques necessary to quantify and measure the Trust of information, including creating dashboards to monitor the success of the Information Management and Governance (IMG) Program as well as an overall Trust Dashboard for the enterprise. If you are trying to answer any of the following questions, then this book can help you out: How do we decrease the number of data silos? How much management and governance is needed for the data? Who owns the data? How do we get the business to trust the data? What measurements can I use to prove the data is good? What do I show executives to illustrate the progress of a data governance program? How can trust of business data be quantified? How is the relevance of data to the business determined? What is the appropriate level of management and governance necessary for the data? This book will help you answer these questions and start improving (and measuring the improvement) of data for your business. The book includes chapters that give a high level overview of data governance but focuses most of the attention on the deliverables and methods necessary to quantify and measure the Trust of data, thereby establishing clear measurements for success.

Governance of Data
Simple and Effective Approaches
Disrupting Data Governance
Performance Dashboards
Data Management Body of Knowledge
A Practitioner's Guide to Data Governance
The Data Governance Guidebook and Playbook

This book constitutes the refereed proceedings of the 14th IFIP WG 9.4 International Conference on Social Implications of Computers in Developing Countries, ICT4D 2017, held in Yogyakarta, Indonesia, in May 2017. The 60 revised full papers and 8 short papers presented together with 3 keynotes were carefully reviewed and selected from 118 submissions. The papers are organized in the following topical sections: large scale and complex information systems for development; women empowerment and gender justice; social mechanisms of ICT-enabled development; the data revolution and sustainable development goals; critical perspectives on ICT and open innovation for development; the contribution of practice theories to ICT for development; agile development; indigenous local community grounded ICT developments; global sourcing and development; sustainability in ICT4D; and information systems development and implementation in Southeast Asia. Also included are a graduate student track, current issues and notes. The chapter 'An Analysis of Accountability Concepts for Open Development' is open access under a CC BY 4.0 license via link.springer.com.

An Executive Guide to Data Management

Implement and perform data governance on any scale using the book's flexible and proven data governance framework. This book is a culmination of decades of experience and trial and error implementations of data governance. There are many different ways to "do" data governance, so this is a consolidated framework that has been researched, developed, honed, piloted, and implemented at many different sizes of enterprises across many industries. Mold the book's flexible framework to jumpstart your data governance program. This book is a reference guide for Data Owners, Data Stewards,

Data Custodians, Data Analysts, Application Developers, Database Administrators, Data Producers, and Data Consumers. Use it as a resource when you need to answer questions about data governance. It will guide you to successfully manage the creation, transformation, and usage of data owned by or in the care of your enterprise.

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

Written by a leading expert in the field, this account focuses on the convergence of two major trends in information management—big data and information governance—by taking a strategic approach oriented around business cases and industry imperatives. With the advent of new technologies, enterprises are expanding and handling very large volumes of data; this book, nontechnical in nature and geared toward business audiences, encourages the practice of establishing appropriate governance over big data initiatives and addresses how to manage and govern big data, highlighting the relevant processes, procedures, and policies. It teaches readers to understand how big data fits within an overall information governance program; quantify the business value of big data; apply information governance concepts such as stewardship, metadata, and organization structures to big data; appreciate the wide-ranging business benefits for various industries and job functions; sell the value of big data governance to businesses; and establish step-by-step processes to implement big data governance.

Data Architecture
Building World Class Data Governance Programs
Master Data Management in Practice
Data Management and Governance Services
DAMA-DMBOK
MASTER DATA MANAGEMENT AND DATA GOVERNANCE, 2/E
The Journey Continues: From Data Lake to Data-Driven Organization

This two-volume set constitutes the proceedings of the 19th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2020, held in Skukuza, South Africa, in April 2020.* The total of 80 full and 7 short papers presented in these volumes were carefully reviewed and selected from 191 submissions. The papers are organized in the following topical sections: Part I: block chain; fourth industrial revolution; eBusiness; business processes; big data and machine learning; and ICT and education Part II: eGovernment; eHealth; security; social media; knowledge and knowledge management; ICT and gender equality and development; information systems for governance; and user experience and usability *Due to the global COVID-19 pandemic and the consequential worldwide imposed travel restrictions and lockdown, the I3E 2020 conference event scheduled to take place in Skukuza, South Africa, was unfortunately cancelled.

As organizations deploy business intelligence and analytic systems to harness business value from their data assets, data governance programs are quickly gaining prominence. And, although data management issues have traditionally been addressed by IT departments, organizational issues critical to successful data management require the implementation of enterprise-wide accountabilities and responsibilities. Data Governance: Creating Value from Information Assets examines the processes of using data governance to manage data effectively. Addressing the complete life cycle of effective data governance—from metadata management to privacy and compliance—it provides business managers, IT professionals, and students with an integrated approach to designing, developing, and sustaining an effective data governance strategy. Explains how to align data governance with business goals Describes how to build successful data stewardship with a governance

framework Outlines strategies for integrating IT and data governance frameworks Supplies business-driven and technical perspectives on data quality management, metadata management, data access and security, and data lifecycle The book summarizes the experiences of global experts in the field and addresses critical areas of interest to the information systems and management community. Case studies from healthcare and financial sectors, two industries that have successfully leveraged the potential of data-driven strategies, provide further insights into real-time practice. Facilitating a comprehensive understanding of data governance, the book addresses the burning issue of aligning data assets to both IT assets and organizational strategic goals. With a focus on the organizational, operational, and strategic aspects of data governance, the text provides you with the understanding required to leverage, derive, and sustain maximum value from the informational assets housed in your IT infrastructure.

This book is for any manager or team leader that has the green light to implement a data governance program. The problem of managing data continues to grow with issues surrounding cost of storage, exponential growth, as well as administrative, management and security concerns – the solution to being able to scale all of these issues up is data governance which provides better services to users and saves money. What you will find in this book is an overview of why data governance is needed, how to design, initiate, and execute a program and how to keep the program sustainable. With the provided framework and case studies you will be enabled and educated in launching your very own successful and money saving data governance program. Provides a complete overview of the data governance lifecycle, that can help you discern technology and staff needs Specifically aimed at managers who need to implement a data governance program at their company Includes case studies to detail 'do's' and 'don'ts' in real-world situations

An expert on computer privacy and security shows how we can build privacy into the design of systems from the start. We are tethered to our devices all day, every day, leaving data trails of our searches, posts, clicks, and communications. Meanwhile, governments and businesses collect our data and use it to monitor us without our knowledge. So we have resigned ourselves to the belief that privacy is hard--choosing to believe that websites do not share our information, for example, and declaring that we have nothing to hide anyway. In this informative and illuminating book, a computer privacy and security expert argues that privacy is not that hard if we build it into the design of systems from the start. Along the way, Jaap-Henk Hoepman debunks eight persistent myths surrounding computer privacy. The website that claims it doesn't collect personal data, for example; Hoepman explains that most data is personal, capturing location, preferences, and other information. You don't have anything to hide? There's nothing wrong with wanting to keep personal information--even if it's not incriminating or embarrassing--private. Hoepman shows that just as technology can be used to invade our privacy, it can be used to protect it, when we apply privacy by design. Hoepman suggests technical fixes, discussing pseudonyms, leaky design, encryption, metadata, and the benefits of keeping your data local (on your own device only), and outlines privacy design strategies that system designers can apply now.

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

Meeting the Challenges of Data Quality Management
Privacy Is Hard and Seven Other Myths
Achieving Privacy through Careful Design
Platform Ecosystems
Aligning Architecture, Governance, and Strategy
Multi-Domain Master Data Management
Big Data Management

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

Perspectives and Practices
Creating Value from Information Assets
Non-Invasive Data Governance
The Practical Guide to Storing, Managing and Analyzing Big and Small Data
Machine Learning and Intelligent Communications
4th International Conference, MLICOM 2019, Nanjing, China, August 24–25, 2019, Proceedings
Advanced MDM and Data Governance in Practice