

Informatica Data Quality Configuration Guide

Metadata and Semantic Research

This book constitutes the refereed post proceedings of the 16th Research Conference on Metadata and Semantic Research, MTSR 2022, held in London, UK, during November 7-11, 2022. The 21 full papers and 4 short papers included in this book were carefully reviewed and selected from 79 submissions. They were organized in topical sections as follows: metadata, linked data, semantics and ontologies - general session, and track on Knowledge IT Artifacts (KITA), Track on digital humanities and digital curation, and track on cultural collections and applications, track on digital libraries, information retrieval, big, linked, social & open data, and metadata, linked data, semantics and ontologies - general session, track on agriculture, food & environment, and metadata, linked Data, semantics and ontologies - general, track on open repositories, research information systems & data infrastructures, and metadata, linked data, semantics and ontologies - general, metadata, linked data, semantics and ontologies - general session, and track on european and national projects.

Learn Informatica in 24 Hours

This is a practical step by step hand-on guide to learn and master Informatica. Informatica is widely used ETL tool and provided end to end data integration and management solution. This book introduces Informatica in detail. It provides a detailed step by step installation tutorial of Informatica. It teaches various activities like data cleansing, data profiling, transforming and scheduling the workflows from source to target in simple steps, etc. Here is what you will learn – Chapter 1: Introduction to Informatica Chapter 2: Informatica Architecture Tutorial Chapter 3: How to Download & Install Informatica PowerCenter Chapter 4: How to Configure Client and Repository in Informatica Chapter 5: Source Analyzer and Target Designer in Informatica Chapter 6: Mappings in Informatica: Create, Components, Parameter, Variable Chapter 7: Workflow in Informatica: Create, Task, Parameter, Reusable, Manager Chapter 8: Workflow Monitor in Informatica: Task & Gantt Chart

View Examples Chapter 9: Debugger in Informatica: Session, Breakpoint, Verbose Data & Mapping Chapter 10: Session Properties in Informatica Chapter 11: Introduction to Transformations in Informatica and Filter Transformation Chapter 12: Source Qualifier Transformation in Informatica with EXAMPLE Chapter 13: Aggregator Transformation in Informatica with Example Chapter 14: Router Transformation in Informatica with EXAMPLE Chapter 15: Joiner Transformation in Informatica with EXAMPLE Chapter 16: Rank Transformation in Informatica with EXAMPLE Chapter 17: Sequence Transformation in Informatica with EXAMPLE Chapter 18: Transaction Control Transformation in Informatica with EXAMPLE Chapter 19: Lookup Transformation in Informatica & Re-usable Transformation Example Chapter 20: Normalizer Transformation in Informatica with EXAMPLE Chapter 21: Performance Tuning in Informatica [Download Today ~ Free to Read for Kindle Unlimited Subscribers!](#)

The Definitive Guide to Data Integration

Learn the essentials of data integration with this comprehensive guide, covering everything from sources to solutions, and discover the key to making the most of your data stack Key Features Learn how to leverage modern data stack tools and technologies for effective data integration Design and implement data integration solutions with practical advice and best practices Focus on modern technologies such as cloud-based architectures, real-time data processing, and open-source tools and technologies Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe Definitive Guide to Data Integration is an indispensable resource for navigating the complexities of modern data integration. Focusing on the latest tools, techniques, and best practices, this guide helps you master data integration and unleash the full potential of your data. This comprehensive guide begins by examining the challenges and key concepts of data integration, such as managing huge volumes of data and dealing with the different data types. You'll gain a deep understanding of the modern data stack and its architecture, as well as the pivotal role of open-source technologies in shaping the data landscape. Delving into the layers of the modern data stack, you'll cover data sources, types, storage, integration techniques, transformation, and processing. The book also offers insights into data exposition and APIs, ingestion and storage strategies, data preparation and analysis, workflow management, monitoring, data quality, and governance. Packed with practical use cases, real-world examples, and a glimpse into the future of data integration, The Definitive Guide to Data Integration is an essential resource for data eclectics. By the end of this book, you'll have gained the knowledge and skills needed to optimize your data usage and excel in the ever-evolving world of data. What you will learn Discover the evolving architecture and technologies shaping data integration

Process large data volumes efficiently with data warehousing Tackle the complexities of integrating large datasets from diverse sources Harness the power of data warehousing for efficient data storage and processing Design and optimize effective data integration solutions Explore data governance principles and compliance requirements Who this book is for This book is perfect for data engineers, data architects, data analysts, and IT professionals looking to gain a comprehensive understanding of data integration in the modern era. Whether you're a beginner or an experienced professional enhancing your knowledge of the modern data stack, this definitive guide will help you navigate the data integration landscape.

Design, User Experience, and Usability. Theory, Methods, Tools and Practice

The two-volume set LNCS 6769 + LNCS 6770 constitutes the proceedings of the First International Conference on Design, User Experience, and Usability, DUXU 2011, held in Orlando, FL, USA in July 2011 in the framework of the 14th International Conference on Human-Computer Interaction, HCII 2011, incorporating 12 thematically similar conferences. A total of 4039 contributions was submitted to HCII 2011, of which 1318 papers were accepted for publication. The total of 154 contributions included in the DUXU proceedings were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on DUXU theory, methods and tools; DUXU guidelines and standards; novel DUXU: devices and their user interfaces; DUXU in industry; DUXU in the mobile and vehicle context; DXU in Web environment; DUXU and ubiquitous interaction/appearance; DUXU in the development and usage lifecycle; DUXU evaluation; and DUXU beyond usability: culture, branding, and emotions.

Cloud Data Architectures Demystified

Learn using Cloud data technologies for improving data analytics and decision-making capabilities for your organization KEY FEATURES ● Get familiar with the fundamentals of data architecture and Cloud computing. ● Design and deploy enterprise data architectures on the Cloud. ● Learn how to leverage AI/ML to gain insights from data. DESCRIPTION Cloud data architectures are a valuable tool for organizations that want to use data to make better decisions. By understanding the different components of Cloud data architectures and the benefits they offer, organizations can select the right architecture for their needs. This book is a holistic guide for using Cloud data technologies to ingest, transform, and analyze data. It covers

the entire data lifecycle, from collecting data to transforming it into actionable insights. The readers will get a comprehensive overview of Cloud data technologies and AI/ML algorithms. The readers will learn how to use these technologies and algorithms to improve decision-making, optimize operations, and identify new opportunities. By the end of the book, you will have a comprehensive understanding of cloud data architectures and the confidence to implement effective solutions that drive business success.

WHAT YOU WILL LEARN

- Learn the fundamental principles of data architecture.
- Understand the working of different cloud ecosystems such as AWS, Azure & GCP.
- Explore different Snowflake data services.
- Learn how to implement data governance policies and procedures.
- Use artificial intelligence (AI) and machine learning (ML) to gain insights from data.

WHO THIS BOOK IS FOR This book is for executives, IT professionals, and data enthusiasts who want to learn more about Cloud data architectures. It does not require any prior experience, but a basic understanding of data concepts and technology landscapes will be helpful.

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1. Data Architectures and Patterns
2. Enterprise Data Architectures
3. Cloud Fundamentals
4. Azure Data Eco-system
5. AWS Data Services
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7. Snowflake Data Eco-system
8. Data Governance
9. Data Intelligence: AI-ML Modeling and Services

Building Cloud Data Platforms Solutions

"Building Cloud Data Platforms Solutions: An End-to-End Guide for Designing, Implementing, and Managing Robust Data Solutions in the Cloud" comprehensively covers a wide range of topics related to building data platforms in the cloud. This book provides a deep exploration of the essential concepts, strategies, and best practices involved in designing, implementing, and managing end-to-end data solutions. The book begins by introducing the fundamental principles and benefits of cloud computing, with a specific focus on its impact on data management and analytics. It covers various cloud services and architectures, enabling readers to understand the foundation upon which cloud data platforms are built. Next, the book dives into key considerations for building cloud data solutions, aligning business needs with cloud data strategies, and ensuring scalability, security, and compliance. It explores the process of data ingestion, discussing various techniques for acquiring and ingesting data from different sources into the cloud platform. The book then delves into data storage and management in the cloud. It covers different storage options, such as data lakes and data warehouses, and discusses strategies for organizing and optimizing data storage to facilitate efficient data processing and analytics. It also addresses data governance, data quality, and data integration techniques to ensure data integrity and consistency across the platform. A significant portion of the book is dedicated to data processing and analytics in the cloud. It explores modern data processing frameworks and technologies,

such as Apache Spark and serverless computing, and provides practical guidance on implementing scalable and efficient data processing pipelines. The book also covers advanced analytics techniques, including machine learning and AI, and demonstrates how these can be integrated into the data platform to unlock valuable insights. Furthermore, the book addresses an aspects of data platform monitoring, security, and performance optimization. It explores techniques for monitoring data pipelines, ensuring data security, and optimizing performance to meet the demands of real-time data processing and analytics. Throughout the book, real-world examples, case studies, and best practices are provided to illustrate the concepts discussed. This helps readers apply the knowledge gained to their own data platform projects.

Google Certification Guide - Google Professional Data Engineer

Google Certification Guide - Google Professional Data Engineer Navigate the Data Landscape with Google Cloud Expertise Embark on a journey to become a Google Professional Data Engineer with this comprehensive guide. Tailored for data professionals seeking to leverage Google Cloud's powerful data solutions, this book provides a deep dive into the core concepts, practices, and tools necessary to excel in the field of data engineering. Inside, You'll Explore: Fundamentals to Advanced Data Concepts: Understand the full spectrum of Google Cloud data services, from BigQuery and Dataflow to AI and machine learning integrations. Practical Data Engineering Scenarios: Learn through hands-on examples and real-life case studies that demonstrate how to effectively implement data solutions on Google Cloud. Focused Exam Strategy: Prepare for the certification exam with detailed insights into the exam format, including key topics, study strategies, and practice questions. Current Trends and Best Practices: Stay abreast of the latest advancements in Google Cloud data technologies, ensuring your skills are up-to-date and industry-relevant. Authored by a Data Engineering Expert Written by an experienced data engineer, this guide bridges practical application with theoretical knowledge, offering a comprehensive and practical learning experience. Your Comprehensive Guide to Data Engineering Certification Whether you're an aspiring data engineer or an experienced professional looking to validate your Google Cloud skills, this book is an invaluable resource, guiding you through the nuances of data engineering on Google Cloud and preparing you for the Professional Data Engineer exam. Elevate Your Data Engineering Skills This guide is more than a certification prep book; it's a deep dive into the art of data engineering in the Google Cloud ecosystem, designed to equip you with advanced skills and knowledge for a successful career in data engineering. Begin Your Data Engineering Journey Step into the world of Google Cloud data engineering with confidence. This guide is your first step towards mastering the concepts and practices of data engineering and achieving certification as a

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Data Quality

This is not the kind of book that you'll read one time and be done with. So scan it quickly the first time through to get an idea of its breadth. Then dig in on one topic of special importance to your work. Finally, use it as a reference to guide your next steps, learn details, and broaden your perspective.

from the foreword by Thomas C. Redman, Ph.D.,

the Data Doc

Good data is a source of myriad opportunities, while bad data is a tremendous burden. Companies that manage their data effectively are able to achieve a competitive advantage in the marketplace, while bad data, like cancer, can weaken and kill an organization. In this comprehensive book, Rupa Mahanti provides guidance on the different aspects of data quality with the aim to be able to improve data quality. Specifically, the book addresses:

- Causes of bad data quality, bad data quality impacts, and importance of data quality to justify the case for data quality
- Butterfly effect of data quality
- A detailed description of data quality dimensions and their measurement
- Data quality strategy approach
- Six Sigma - DMAIC approach to data quality
- Data quality management techniques
- Data quality in relation to data initiatives like data migration, MDM, data governance, etc.
- Data quality myths, challenges, and critical success factors

Students, academicians, professionals, and researchers can all use the content in this book to further their knowledge and get guidance on their own specific projects. It balances technical details (for example, SQL statements, relational database components, data quality dimensions measurements) and higher-level qualitative discussions (cost of data quality, data quality strategy, data quality maturity, the case made for data quality, and so on) with case studies, illustrations, and real-world examples throughout.

Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications

In recent years, the science of managing and analyzing large datasets has emerged as a critical area of research. In the race to answer vital questions and make knowledgeable decisions, impressive amounts of data are now being generated at a rapid pace, increasing the opportunities and challenges associated with the ability to effectively analyze this data.

New Trends in Data Warehousing and Data Analysis

Most of modern enterprises, institutions, and organizations rely on knowledge-based management systems. In these systems, knowledge is gained from data analysis. Today, knowledge-based management systems include data warehouses as their core components. Data integrated in a data warehouse are analyzed by the so-called On-Line Analytical Processing (OLAP) applications designed to discover trends, patterns of behavior, and anomalies as well as finding dependencies between data. Massive amounts of integrated data and the complexity of integrated data coming from many different sources make data integration and processing challenging. New Trends in Data Warehousing and Data Analysis brings together the most recent research and practical achievements in the DW and OLAP technologies. It provides an up-to-date bibliography of published works and the resource of research achievements. Finally, the book assists in the dissemination of knowledge in the field of advanced DW and OLAP.

Informatica e diritto

LNCS 5943

Knowledge Representation for Health-Care. Data, Processes and Guidelines

This book constitutes the proceedings of the 18th International Conference on Design Science Research in Information Systems and Technology, DESRIST 2023, which was held in Pretoria, South Africa, from May 31–June 2, 2023. The 29 full papers presented in this volume were carefully reviewed and selected from 81 submissions. The papers are organized in the following topical sections: Design-oriented Research for Society 5.0 (Theme Track); Design of Systems Using Emerging Technologies; Human-Centered Artificial Intelligence (HCAI); Healthcare Systems and Quality of Life; Innovation and Entrepreneurship; Emerging DSR Methods and Processes; Education and DRS; Human Safety and Cybersecurity; Co-Design and Collective Creativity for Addressing Grand Challenges; and Sustainability and Responsible Design.

Design Science Research for a New Society: Society 5.0

Learn how to process and analysis data using Python

KEY FEATURES

- The book has theories explained elaborately along with Python code and corresponding output to support the theoretical explanations. The Python codes are provided with step-by-step comments to explain each instruction of the code.
- The book is not just dealing with the background mathematics alone or only the programs but beautifully correlates the background mathematics to the theory and then finally translating it into the programs.
- A rich set of chapter-end exercises are provided, consisting of both short-answer questions and long-answer questions.

DESCRIPTION This book introduces the fundamental concepts of Data Science, which has proved to be a major game-changer in business solving problems.

Topics covered in the book include fundamentals of Data Science, data preprocessing, data plotting and visualization, statistical data analysis, machine learning for data analysis, time-series analysis, deep learning for Data Science, social media analytics, business analytics, and Big Data analytics. The content of the book describes the fundamentals of each of the Data Science related topics together with illustrative examples as to how various data analysis techniques can be implemented using different tools and libraries of Python programming language. Each chapter contains numerous examples and illustrative output to explain the important basic concepts. An appropriate number of questions is presented at the end of each chapter for self-assessing the conceptual understanding. The references presented at the end of every chapter will help the readers to explore more on a given topic.

WHAT WILL YOU LEARN

- Perform processing on data for making it ready for visual plot and understand the pattern in data over time.
- Understand what machine learning is and how learning can be incorporated into a program.
- Know how tools can be used to perform analysis on big data using python and other standard tools.
- Perform social media analytics, business analytics, and data analytics on any data of a company or organization.

WHO THIS BOOK IS FOR The book is for readers with basic programming and mathematical skills. The book is for any engineering graduates that wish to apply data science in their projects or wish to build a career in this direction. The book can be read by anyone who has an interest in data analysis and would like to explore more out of interest or to apply it to certain real-life problems.

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1. Fundamentals of Data Science
2. Data Preprocessing
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5. Machine Learning for Data Science
6. Time-Series Analysis
7. Deep Learning for Data Science
8. Social Media Analytics
9. Business Analytics
10. Big Data Analytics

Data Science Fundamentals and Practical Approaches

This volume contains the papers of 3 workshops and the doctoral consortium, which are organized in the framework of the 18th East-European Conference on Advances in Databases and Information Systems (ADBIS'2014). The 3rd International Workshop on GPUs in Databases (GID'2014) is devoted to subjects related to utilization of Graphics Processing Units in database environments. The use of GPUs in databases has not yet received enough attention from the database community. The intention of the GID workshop is to provide a discussion on popularizing the GPUs and providing a forum for discussion with respect to the GID's research ideas and their potential to achieve high speedups in many database applications. The 3rd International Workshop on Ontologies Meet Advanced Information Systems (OAIS'2014) has a twofold objective to present: new and challenging issues in the contribution of ontologies for designing high quality information systems, and new research and technological developments which use ontologies all over the life cycle of information systems. The 1st International Workshop on Technologies for Quality Management in Challenging Applications (TQMCA'2014) focuses on quality management and its importance in new fields such as big data, crowd-sourcing, and stream databases. The Workshop has addressed the need to develop novel approaches and technologies, and to entirely integrate quality management into information system management.

New Trends in Database and Information Systems II

Architect, Build, and Optimize Your Data Warehouse Are you ready to revolutionize the way your organization stores and accesses data? "Mastering Data Warehousing" is your definitive guide to architecting, building, and optimizing data warehouses that facilitate efficient data storage and retrieval. Whether you're a data architect designing robust warehouse structures or a business leader aiming to glean insights from your data, this book equips you with the knowledge and strategies to master the art of data warehousing. Key Features: 1. Architecting Data Warehouses: Immerse yourself in the world of data warehousing, understanding its significance, challenges, and opportunities. Build a strong foundation that empowers you to design data warehouses that cater to your organization's needs. 2. Data Warehouse Models: Master various data warehouse models. Learn about star schema, snowflake schema, and other dimensional modeling techniques for organizing data for efficient querying and analysis. 3. Data ETL (Extract, Transform, Load): Uncover the power of ETL processes in data warehousing. Explore techniques for extracting data from diverse sources, transforming it for analysis, and

loading it into your warehouse. 4. Data Quality and Governance: Delve into data quality and governance within data warehousing. Learn how to ensure data accuracy, consistency, and compliance within your warehouse. 5. Optimizing Query Performance: Master techniques for optimizing query performance. Learn about indexing, partitioning, and materialized views to enhance query speed and responsiveness. 6. Scalability and High Availability: Explore strategies for scaling and ensuring high availability of your data warehouse. Learn how to handle growing data volumes and ensure uninterrupted access to critical information. 7. Cloud Data Warehousing: Discover the world of cloud data warehousing. Learn about designing and migrating data warehouses to cloud platforms, enabling scalability and cost-efficiency. 8. Data Warehousing Tools and Platforms: Uncover a range of tools and platforms for data warehousing. Explore traditional solutions as well as modern technologies like columnar databases and data lakes. 9. Real-Time Data Warehousing: Dive into real-time data warehousing techniques. Learn how to capture and process streaming data for instant insights and decision-making. 10. Real-World Applications: Gain insights into real-world use cases of data warehousing across industries. From business intelligence to customer analytics, discover how organizations leverage data warehouses for strategic advantage. Who This Book Is For: \"Mastering Data Warehousing\" is an essential resource for data architects, analysts, and business professionals aiming to excel in designing and managing data warehouses. Whether you're enhancing your technical skills or transforming data into actionable insights, this book will guide you through the intricacies and empower you to harness the full potential of data warehousing. © 2023 Cybellium Ltd. All rights reserved. www.cybellium.com

Mastering Data Warehousing

Packed with practical examples, case studies, and proven recommendations, this handbook helps you manage enterprise-grade Salesforce programs

Key Features

- Explore the end-to-end Salesforce implementation lifecycle with templates and practical examples
- Discover common issues and strategies for mitigation and prevention
- Work with checklists to assess the state of your Salesforce implementation in each phase

Purchase of the print or Kindle book includes a free PDF eBook

Book Description

With ever-growing digital transformation programs involving Salesforce, there is a greater need for a comprehensive overview of the phases and activities specific to Salesforce implementations. This book will act as a detailed guide for your Salesforce implementation journey, including common issues and pitfalls to mitigate and prevent errors. The Salesforce End-to-End Implementation Handbook starts with the pre-development phase. Here you'll understand how to define the vision and nature of your project, determine your change management strategy and delivery methodology, learn to build a business case for your

project, get insights on engaging with Salesforce and implementation partners, and learn to establish a governance framework. As you progress, you'll gain insights on the necessary activities, milestones, and common issues faced in salesforce implementation, along with strategies to mitigate them. At the end of each section, you'll find evaluation checklists to assess the state of your Salesforce implementation. By the end of this book, you'll be well-equipped to set up Salesforce projects and programs effectively and deliver maximum ROI. What you will learn Discover the critical activities in Salesforce implementation Address common issues faced in implementing Salesforce Explore appropriate delivery methodology Understand the importance of a change management strategy Govern Salesforce implementation through all its phases Gain insights on key activities in the continuous improvement phase Leverage customer 360 for analytics, AI and automation Who this book is for This book is for salesforce consultants, architects, project/program managers, delivery leaders for salesforce implementation, or product owners- planning to implement Salesforce or already implementing Salesforce for their organizations. If you are switching to a role in salesforce development, this book will act as a guide on what to expect on the job and how to ace it. Familiarity with basic business, CRM, and project management concepts is required.

Salesforce End-to-End Implementation Handbook

This handbook is a concise yet complete guide to fundamental engineering requirements and quality characteristics that users, developers, and marketers of mobile applications should be aware of. It provides detailed definitions and descriptions of eight key software application features that are integral to the overall design and user experience goals, and which may often overlap with certain functionalities. The book explains the essential aspects of these features clearly to novice developers. Readers will also learn about how to optimize the listed features to tailor their applications to the needs of their users. Key Features: - Presents detailed information about eight different features which guide mobile application development: capability, reliability, usability, charisma, security, performance, mobility and compatibility - Reader-friendly, structured layout of each chapter including relevant illustrations and clear language, designed for quick learning - Focus on both software function and user perception of applications on mobile devices - Includes a handy appendix with information about mobile learning projects and related work packages Handbook of Mobile Application Development A Guide to Selecting the Right Engineering and Quality Features is the ideal learning tool for novice software developers, computer science students, IT enthusiasts and marketers who want to design or develop mobile apps for an optimal user experience.

INTERACT 2015 Adjunct Proceedings

“The 90 Day Sprint is a game-changer in the world of data strategy. Jit Papneja has distilled complex concepts into a concise, actionable guide that empowers businesses to unlock the true value of their data. This book is an indispensable companion for anyone navigating the challenges of the data landscape, providing invaluable insights that are both practical and transformative. A must primer for all organizations that want to use their data to drive growth.” - Dr. Jyo Jain, Ph.D., Head of Strategic Insights & Analytics, J&J MedTech Asia-Pacific “Jit Papneja has articulated a disciplined and comprehensive approach and framework for data strategy, governance, and management. This book is a great guide for those seeking to plan and execute a successful sprint for an effective data analytics transformation.” - Jatinder “Ronny” Bindra, Leader, Digital Products, Constellation Brands “Most transformation fails, not because of the plan, but because of the ability to execute the plan! The 90 Day Sprint, structured around the D.E.C.I.D.E.R model, is sure to strengthen any organization’s Data Driven transformation journey, through a creative step by step approach, based on real insights and learnings.” - Pete West, Sr. VP Marketing Transformation at Reynolds American Inc. Are you struggling to harness the power of data, AI, and Gen AI in your business? Are you feeling overwhelmed by the sheer volume of data at your disposal? Are you unsure how to implement and scale data-driven transformation? In today’s digital age, data, AI, and Gen AI are increasingly becoming the driving forces behind business growth, innovation, and competitive advantage. Organizations that harness data-driven insights are 23 times more likely to acquire customers, 6 times as likely to retain them, and 19 times more likely to achieve profitability. Organizations that apply personalization can realize \$20 return on every \$1 invested. However, this data-driven transformation is not a small feat and takes substantial resources, time, and careful planning. Think of this as a marathon with multiple sprints within, and the 90-day (13 weeks) sprint I have included in this book should serve as the essential kickstart for your journey and help you develop a robust plan for the transformation. This book will guide you through a comprehensive D.E.C.I.D.E.R. framework: setting up an agile cross-functional squad, formulating a robust data strategy, exploring, and prioritizing high-value use cases enriched with real-world success stories, launching empowered and governed self-service, and much more. With my practical advice and proven techniques, honed over 25 years of experience, you will unlock the full potential of data, and attain the data-driven success you’ve always aspired to achieve. So, why wait? Are you ready to be data-driven? Let’s get started!

Handbook of Mobile Application Development: A Guide to Selecting the Right Engineering and Quality Features

The \"SGML Buyer's Guide\" helps experts and beginners to analyze the publishing process and to evaluate and choose the best tools and services for their needs. It also presents a new methodology, developed by the authors, that simplifies and optimizes publishing systems. The CD-ROM contains a professionally chosen selection of SGML and XML freeware, a graphics package, and demos of many commercial SGML software packages.

The 90-day Sprint to Accelerate Data-Driven Transformation

Build scalable and reliable data ecosystems using Data Mesh, Databricks Spark, and Kafka Key Features Develop modern data skills used in emerging technologies Learn pragmatic design methodologies such as Data Mesh and data lakehouses Gain a deeper understanding of data governance Purchase of the print or Kindle book includes a free PDF eBook Book Description Modern Data Architectures with Python will teach you how to seamlessly incorporate your machine learning and data science work streams into your open data platforms. You'll learn how to take your data and create open lakehouses that work with any technology using tried-and-true techniques, including the medallion architecture and Delta Lake. Starting with the fundamentals, this book will help you build pipelines on Databricks, an open data platform, using SQL and Python. You'll gain an understanding of notebooks and applications written in Python using standard software engineering tools such as git, pre-commit, Jenkins, and Github. Next, you'll delve into streaming and batch-based data processing using Apache Spark and Confluent Kafka. As you advance, you'll learn how to deploy your resources using infrastructure as code and how to automate your workflows and code development. Since any data platform's ability to handle and work with AI and ML is a vital component, you'll also explore the basics of ML and how to work with modern MLOps tooling. Finally, you'll get hands-on experience with Apache Spark, one of the key data technologies in today's market. By the end of this book, you'll have amassed a wealth of practical and theoretical knowledge to build, manage, orchestrate, and architect your data ecosystems. What you will learn Understand data patterns including delta architecture Discover how to increase performance with Spark internals Find out how to design critical data diagrams Explore MLOps with tools such as AutoML and MLflow Get to grips with building data products in a data mesh Discover data governance and build confidence in your data Introduce data visualizations and dashboards into your data practice Who this book is for This book is for developers, analytics engineers, and

managers looking to further develop a data ecosystem within their organization. While they're not prerequisites, basic knowledge of Python and prior experience with data will help you to read and follow along with the examples.

SGML Buyer's Guide

"This collection offers tools, designs, and outcomes of the utilization of data mining and warehousing technologies, such as algorithms, concept lattices, multidimensional data, and online analytical processing. With more than 300 chapters contributed by over 575 experts from around the globe, this authoritative collection will provide libraries with the essential reference on data mining and warehousing"--Provided by publisher.

Modern Data Architectures with Python

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Data Warehousing and Mining

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Computerworld

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Network World

This book introduces different interconnection networks applied to different systems. Interconnection networks are used to communicate processing units in a multi-processor system, routers in communication networks, and servers in data centers. Queuing techniques are applied to interconnection networks to support a higher utilization of resources. There are different queuing strategies, and these determine not only the performance of the interconnection network, but also the set of requirements to make them work effectively and their cost. Routing algorithms are used to find routes to destinations and directions in what information travels. Additional properties, such as avoiding deadlocks and congestion, are sought. Effective routing algorithms need to be paired up with these networks. The book will introduce the most relevant interconnection networks, queuing strategies, and routing algorithm. It discusses their properties and how these leverage the performance of the whole interconnection system. In addition, the book covers additional topics for memory management and congestion avoidance, used to extract higher performance from the interconnection network.

InfoWorld

A fundamental challenge for medical informatics is to develop and apply better ways of understanding how information technologies and methods can help support the best care for every patient every day given available medical knowledge and resources. In order to provide the most effective healthcare possible, the activities of teams of health professionals have to be coordinated through well-designed processes centered on the needs of patients. For information systems to be accepted and used in such an environment, they must balance standardization based on shared medical knowledge with the flexibility required for customization to the individual patient. Developing innovative approaches to design and build evidence-based careflow management systems is essential for providing the knowledge management infrastructure of health care

organizations that seeks to increase performance in delivering high quality care services by efficiently exploiting available resources. Parallel challenges arise in the organization of research at the biological and clinical levels, where the focus on systematically organizing and supporting processes of scientific inquiry by novel informatics methods and databases are in their very early stages. These Proceedings of Medinfo 2004 demonstrate the base of knowledge medical informatics professionals will collectively draw upon in the years ahead to meet these challenges and realize opportunities.

Interconnections for Computer Communications and Packet Networks

Enterprise resource planning (ERP) is a class of integrated software that uses software technologies to implement real-time management of business processes in an organization. ERPs normally cut across organizations, making them large and complex. Software researchers have for many years established that complexity affects software quality negatively and must therefore be controlled with novel metrics and models of evaluation that can determine when the software is at acceptable levels of quality and when not. Metrics and Models for Evaluating the Quality and Effectiveness of ERP Software is a critical scholarly publication that examines ERP development, performance, and challenges in business settings to help improve decision making in organizations that have embraced ERPs, improve the efficiency and effectiveness of their activities, and improve their return on investments (ROI). Highlighting a wide range of topics such as data mining, higher education, and security, this book is essential for professionals, software developers, researchers, academicians, and security professionals.

Medinfo

Because of the increased access to high-speed Internet and smart phones, many patients have started to use mobile applications to manage various health needs. These devices and mobile apps are now increasingly used and integrated with telemedicine and telehealth via the medical Internet of Things (IoT). Big Data Management and the Internet of Things for Improved Health Systems is a critical scholarly resource that examines the digital transformation of healthcare. Featuring coverage on a broad range of topics, such as brain computer interface, data reduction techniques, and risk factors, this book is geared towards academicians, practitioners, researchers, and students seeking research on health and well-being data.

Metrics and Models for Evaluating the Quality and Effectiveness of ERP Software

This handbook covers a wide range of topics related to the collection, processing, analysis, and use of geospatial data in their various forms. This handbook provides an overview of how spatial computing technologies for big data can be organized and implemented to solve real-world problems. Diverse subdomains ranging from indoor mapping and navigation over trajectory computing to earth observation from space, are also present in this handbook. It combines fundamental contributions focusing on spatio-textual analysis, uncertain databases, and spatial statistics with application examples such as road network detection or colocation detection using GPUs. In summary, this handbook gives an essential introduction and overview of the rich field of spatial information science and big geospatial data. It introduces three different perspectives, which together define the field of big geospatial data: a societal, governmental, and governance perspective. It discusses questions of how the acquisition, distribution and exploitation of big geospatial data must be organized both on the scale of companies and countries. A second perspective is a theory-oriented set of contributions on arbitrary spatial data with contributions introducing into the exciting field of spatial statistics or into uncertain databases. A third perspective is taking a very practical perspective to big geospatial data, ranging from chapters that describe how big geospatial data infrastructures can be implemented and how specific applications can be implemented on top of big geospatial data. This would include for example, research in historic map data, road network extraction, damage estimation from remote sensing imagery, or the analysis of spatio-textual collections and social media. This multi-disciplinary approach makes the book unique. This handbook can be used as a reference for undergraduate students, graduate students and researchers focused on big geospatial data. Professionals can use this book, as well as practitioners facing big collections of geospatial data.

Scientific and Technical Aerospace Reports

Information Modeling and Relational Databases provides an introduction to ORM (Object Role Modeling)-and much more. In fact, it's the only book to go beyond introductory coverage and provide all of the in-depth instruction you need to transform knowledge from domain experts into a sound database design. Inside, ORM authority Terry Halpin blends conceptual information with practical instruction that will let you begin using ORM effectively as soon as possible. Supported by examples, exercises, and useful background information, his step-by-step approach teaches you to develop a natural-language-based ORM model and then, where needed, abstract ER and UML models from it. This book will quickly make you proficient in

the modeling technique that is proving vital to the development of accurate and efficient databases that best meet real business objectives. * The most in-depth coverage of Object Role Modeling available anywhere-written by a pioneer in the development of ORM. * Provides additional coverage of Entity Relationship (ER) modeling and the Unified Modeling Language-all from an ORM perspective. * Intended for anyone with a stake in the accuracy and efficacy of databases: systems analysts, information modelers, database designers and administrators, instructors, managers, and programmers. * Explains and illustrates required concepts from mathematics and set theory. * Via a companion Web site, provides answers to exercises, appendices covering the history of computer generations, subtype matrices, and advanced SQL queries, and links to downloadable ORM tools.

Big Data Management and the Internet of Things for Improved Health Systems

This book is a remarkable collection of chapters covering a wide domain of topics related to artificial intelligence and its applications to the real world. The conference attracted a total of 494 submissions from many academic pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer-reviewed process. Of the total submissions, 176 submissions have been selected to be included in these proceedings. It is difficult to imagine how artificial intelligence has become an inseparable part of our life. From mobile phones, smart watches, washing machines to smart homes, smart cars, and smart industries, artificial intelligence has helped to revolutionize the whole globe. As we witness exponential growth of computational intelligence in several directions and use of intelligent systems in everyday applications, this book is an ideal resource for reporting latest innovations and future of AI. Distinguished researchers have made valuable studies to understand the various bottlenecks existing in different arenas and how they can be overcome with the use of intelligent systems. This book also provides new directions and dimensions of future research work. We hope that readers find the volume interesting and valuable.

Handbook of Big Geospatial Data

This book constitutes the refereed post-proceedings of the 10th International Conference and 11th International Conference on Data Management Technologies and Applications, DATA 2021 and DATA 2022, was held virtually due to the COVID-19

crisis on July 6-8, 2021 and in Lisbon, Portugal on July 11-13, 2022. The 11 full papers included in this book were carefully reviewed and selected from 148 submissions. They were organized in topical sections as follows: engineers and practitioners interested on databases, big data, data mining, data management, data security and other aspects of information systems and technology involving advanced applications of data.

Information Modeling and Relational Databases

The papers presented are refereed and from all over the world. They reflect the breadth and depth of the field of biomedical and health informatics, covering topics such as; health information systems, knowledge and data management, education, standards, consumer health and human factors, emerging technologies, sustainability, organizational and economic issues, genomics, and image and signal processing. As this volume carries such a wide collection, it will be of great interest to anyone engaged in biomedical and health informatics research and application.

Intelligent Systems and Applications

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Data Management Technologies and Applications

This book constitutes selected papers from the 14th European, Mediterranean, and Middle Eastern Conference, EMCIS 2017, held in Coimbra, Portugal, in September 2017. EMCIS is focusing on approaches that facilitate the identification of innovative research of significant relevance to the IS discipline following sound research methodologies that lead to results of measurable

impact. The 37 full and 16 short papers presented in this volume were carefully reviewed and selected from a total of 106 submissions. They are organized in sections on big data and Semantic Web; digital services, social media and digital collaboration; e-government; healthcare information systems; information systems security and information privacy protection; IT governance; and management and organizational issues in information systems.

Medinfo 2007

Any data analytics solution requires data population and preparation. With the rise of data analytics solutions these years, the need for this data preparation becomes even more essential. Power BI is a helpful data analytics tool that is used worldwide by many users. As a Power BI (or Microsoft BI) developer, it is essential to learn how to prepare the data in the right shape and format needed. You need to learn how to clean the data and build it in the structure that can be modeled easily and used high performant for visualization. Data preparation and transformation is the backend work. If you consider building a BI system as going to a restaurant and ordering food. The visualization is the food you see on the table nicely presented. The quality, the taste, and everything else comes from the hard work in the kitchen. The part that you don't see or the backend in the world of Power BI is Power Query. You may be already familiar with some other data preparation and data transformation technologies, such as T-SQL, SSIS, Azure Data Factory, Informatica, etc. Power Query is a data transformation engine capable of preparing the data in the format you need. The good news is that to learn Power Query; you don't need to know programming. Power Query is for citizen data engineers. However, this doesn't mean that Power Query is not capable of performing advanced transformation. Unfortunately, because Power Query and data preparation is the kitchen work of the BI system, many Power BI users skip the learning of it and become aware of it somewhere along their BI project. Once they get familiar with it, they realize there are tons of things they could have implemented easier, faster, and in a much more maintainable way using Power Query. In other words, they learn mastering Power Query is the key skill toward mastering Power BI. We have been working with Power Query since the very early release of that in 2013, named Data Explorer, and wrote blog articles and published videos about it. The number of articles we published under this subject easily exceeds hundreds. Through those articles, some of the fundamentals and key learnings of Power Query are explained. We thought it is good to compile some of them in a book. A good analytics solution combines a good data model, good data preparation, and good analytics and calculations. Reza has written another book about the Basics of modeling in Power BI and a book on Power BI DAX Simplified. This book is covering the data preparation and transformations aspects of it. This book is for you if you are building a Power BI solution. Even if you

are just visualizing the data, preparation and transformations are an essential part of analytics. You do need to have the cleaned and prepared data ready before visualizing it. This book is compiled into a series of two books, which will be followed by a third book later; Getting started with Power Query in Power BI and Excel (this book) Mastering Power Query in Power BI and Excel (already available to be purchased separately) Power Query dataflows (will be published later) Although this book is written for Power BI and all the examples are presented using the Power BI. However, the examples can be easily applied to Excel, Dataflows, and other tools and services using Power Query.

Network World

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Information Systems

Getting started with Power Query in Power BI and Excel

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