

Pentaho 3 2 Data Integration Beginner S Guide

Eventually, you will agreed discover a supplementary experience and exploit by spending more cash. still when? pull off you endure that you require to get those every needs gone having significantly cash? Why dont you attempt to acquire something basic in the beginning? Thats something that will guide you to comprehend even more as regards the globe, experience, some places, as soon as history, amusement, and a lot more?

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Pentaho Data Integration

Beginner's Guide - María

Carina Roldán 2013-10-24

This book focuses on teaching you by example. The book walks you through every aspect of Pentaho Data Integration, giving systematic instructions in a friendly style, allowing you to learn in front of your computer, playing with the tool. The extensive use of drawings and screenshots make the process of learning Pentaho Data Integration easy.

Throughout the book, numerous tips and helpful hints are provided that you will not find anywhere else. This book is a must-have for software developers, database administrators, IT students, and everyone involved or interested in developing ETL solutions, or, more generally, doing any kind of data manipulation. Those who have never used Pentaho Data Integration will benefit most from the book, but those who

have, they will also find it useful. This book is also a good starting point for database administrators, data warehouse designers, architects, or anyone who is responsible for data warehouse projects and needs to load data into them.

Pentaho 8 Reporting for Java Developers - Francesco Corti
2017-09-15

Create reports and solve common report problems with minimal fuss. About This Book Use this unique book to master the basics and advanced features of Pentaho 8 Reporting. A book showing developers and analysts with IT skills how to create and use the best possible reports using the Pentaho platform. Written with a very practical approach: full of tutorials and practical examples (source code included). Who This Book Is For This book is written for two types of professionals and students: Information Technologists with a basic knowledge of Databases and Java Developers with medium seniority. Developers will be interested to discover how to

embed reports in a third-party Java application. What You Will Learn The basics of Pentaho Reporting (Designer and SDK) and its initial setup. Develop the most attractive reports on top of a wide range of data sources. Perform detailed customization of layout, parameterization, internationalization, behaviors, and more for your custom reports developed with Pentaho Reporting. Integrate Pentaho reports into third-party Java application with full control over interactions, layout, and behavior in general. Use Pentaho reports in the other components of the Pentaho Suite (BA Platform and PDI). In Detail This hands-on tutorial, filled with exercises and examples, introduces the reader to a variety of concepts within Pentaho Reporting. With screenshots that show you how reports look at design time as well as how they should look when rendered as PDF, Excel, HTML, Text, Rich-Text-File, XML, and CSV, this book also contains complete example source code that you can copy

and paste into your environment to get up-and-running quickly. Updated to cover the features of Pentaho 8, this book will teach you everything you need to know to build fast, efficient reports using Pentaho. If your interest lies in the technical details of creating reports and you want to see how to solve common reporting problems with a minimum of fuss, this is the book for you. Style and approach A step-by-step guide covering technical topics relating to environments, best practices, and source code, to enable the reader to assemble the best reports and use them in existing Java applications.

MEDINFO 2007 - K.A. Kuhn
2007-08-02

The theme of Medinfo2007 is "Building Sustainable Health Systems". Particular foci are health challenges for the developing and developed world, the social and political context of healthcare, safe and effective healthcare, and the difficult task of building and maintaining complex health information systems.

Sustainable health information systems are those that can meet today's needs without compromising the needs of future generations. To build a global knowledge society, there needs to be an increased cooperation between science and technology and access to high-quality knowledge and information. 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.

Big Data Integration - Xin
Luna Dong 2022-05-31

The big data era is upon us: data are being generated, analyzed, and used at an unprecedented scale, and data-driven decision making is sweeping through all aspects of society. Since the value of data explodes when it can be linked and fused with other data, addressing the big data integration (BDI) challenge is critical to realizing the promise of big data. BDI differs from traditional data integration along the dimensions of volume, velocity, variety, and veracity. First, not only can data sources contain a huge volume of data, but also the number of data sources is now in the millions. Second, because of the rate at which newly collected data are made available, many of the data sources are very dynamic, and the number of data sources is also rapidly exploding. Third, data sources are extremely heterogeneous in their structure and content, exhibiting considerable variety even for substantially similar entities. Fourth, the data sources are of widely differing

qualities, with significant differences in the coverage, accuracy and timeliness of data provided. This book explores the progress that has been made by the data integration community on the topics of schema alignment, record linkage and data fusion in addressing these novel challenges faced by big data integration. Each of these topics is covered in a systematic way: first starting with a quick tour of the topic in the context of traditional data integration, followed by a detailed, example-driven exposition of recent innovative techniques that have been proposed to address the BDI challenges of volume, velocity, variety, and veracity. Finally, it presents merging topics and opportunities that are specific to BDI, identifying promising directions for the data integration community.

Data Science and Analytics (with Python, R and SPSS Programming) - V.K. Jain

The Book has been written completely as per AICTE recommended syllabus on

"Data Sciences". SALIENT FEATURES OF THE BOOK: Explains how data is collected, managed and stored for data science. With complete courseware for understand the key concepts in data science including their real-world applications and the toolkit used by data scientists. Implement data collection and management. Provided with state of the arts subjectwise. With all required tutorials on R, Python and Bokeh, Anaconda, IBM SPSS-21 and Matplotlib.

Building a Data Integration Team - Jarrett Goldfedder
2020-02-27

Find the right people with the right skills. This book clarifies best practices for creating high-functioning data integration teams, enabling you to understand the skills and requirements, documents, and solutions for planning, designing, and monitoring both one-time migration and daily integration systems. The growth of data is exploding. With multiple sources of information constantly arriving

across enterprise systems, combining these systems into a single, cohesive, and documentable unit has become more important than ever. But the approach toward integration is much different than in other software disciplines, requiring the ability to code, collaborate, and disentangle complex business rules into a scalable model. Data migrations and integrations can be complicated. In many cases, project teams save the actual migration for the last weekend of the project, and any issues can lead to missed deadlines or, at worst, corrupted data that needs to be reconciled post-deployment. This book details how to plan strategically to avoid these last-minute risks as well as how to build the right solutions for future integration projects. What You Will Learn Understand the "language" of integrations and how they relate in terms of priority and ownership Create valuable documents that lead your team from discovery to

deploymentResearch the most important integration tools in the market todayMonitor your error logs and see how the output increases the cycle of continuous improvementMarket across the enterprise to provide valuable integration solutions Who This Book Is For The executive and integration team leaders who are building the corresponding practice. It is also for integration architects, developers, and business analysts who need additional familiarity with ETL tools, integration processes, and associated project deliverables.

Learning Pentaho CTools - Miguel Gaspar 2016-05-31 Acquire finesse with CTools features and build rich and custom analytics solutions using Pentaho About This Book Learn everything you need to know to make the most of CTools Create interactive and remarkable dashboards using the CTools Understand how to use and create data visualizations that can make the difference The author of our book works for Pentaho as

a Senior Consultant Acts as a follow-up to Packt's previously published products on Pentaho such as Pentaho Business Analytics Cookbook, Pentaho Analytics for MongoDB, Pentaho Data Integration Cookbook - Second Edition, and Pentaho Reporting [Video] Our book is based on the latest version of Pentaho, that is, 6.0 Who This Book Is For If you are a CTools developer and would like to expand your knowledge and create attractive dashboards and frameworks, this book is the go-to-guide for you. A basic knowledge of JavaScript and Cascading Style Sheets (CSS) is highly recommended. What You Will Learn Install Community Tools on Pentaho; and understand the necessary concepts and considerations when creating an exciting dashboard design Get data from many different Pentaho datasources and deliver it in different formats (CSV, XLS, XML, or JSON) Use the Community Data Access (CDA) as the data abstraction layer and understand the concepts in the Community

Dashboard Framework (CDF)
Create a Community
Dashboard Editor (CDE)
dashboard and make the most
of the main components Create
and make use of widgets and
use duplicate components to
have data-driven sections on
the dashboard Customize and
create interaction between all
components, including charts,
using the Community Charts
Components Create and embed
dashboards in a better and new
way Create plugins and make
use of parameters inside
Pentaho without writing code
In Detail Pentaho and CTools
are two of the fastest and most
rapidly growing tools for
practical solutions not found in
any other tool available on the
market. Using Pentaho allows
you to build a complete
analytics solution, and CTools
brings an advanced flexibility
to customizing them in a
remarkable way. CTools
provides its users with the
ability to utilize Web
technologies and data
visualization concepts, and
make the most of best
practices to create a huge

visual impact. The book starts
with the basics of the
framework and how to get data
to your dashboards. We'll take
you all the way through to
create your custom and
advanced dashboards that will
create an effective visual
impact and provide the best
user experience. You will be
given deep insights into the
lifecycle of dashboards and the
working of various
components. Further, you will
create a custom dashboard
using the Community
Dashboards Editor and use
datasources to load data on the
components. You will also
create custom content using
Query, the Freeform Addins
Popup, and text components.
Next, you will make use of
widgets to create similar
sections and duplicate
components to reproduce other
components on a dashboard.
You will then learn to build a
plugin without writing Java
code, use Sparkl as a CPK
plugin manager, and
understand the application of
deployment and version control
to dashboard development.

Finally, you will learn tips and tricks that can be very useful while embedding dashboards into other applications. This guide is an invaluable tutorial if you are planning to use custom and advanced dashboards among the solutions that you are building with Pentaho. Style and approach This book is a pragmatic, easy-to-follow guide that provides theoretical concepts, ideas, and tricks to better understand the necessary theoretical concepts. It also provides you with a set of highly intriguing samples of dashboards with customized code within them that can be utilized for future projects.

Learning Pentaho Data Integration 8 CE - Maria Carina Roldan 2017-12-05 Get up and running with the Pentaho Data Integration tool using this hands-on, easy-to-read guide About This Book Manipulate your data by exploring, transforming, validating, and integrating it using Pentaho Data Integration 8 CE A comprehensive guide exploring the features of

Pentaho Data Integration 8 CE Connect to any database engine, explore the databases, and perform all kind of operations on relational databases Who This Book Is For This book is a must-have for software developers, business intelligence analysts, IT students, or anyone involved or interested in developing ETL solutions. If you plan on using Pentaho Data Integration for doing any data manipulation task, this book will help you as well. This book is also a good starting point for data warehouse designers, architects, or anyone who is responsible for data warehouse projects and needs to load data into them. What You Will Learn Explore the features and capabilities of Pentaho Data Integration 8 Community Edition Install and get started with PDI Learn the ins and outs of Spoon, the graphical designer tool Learn to get data from all kind of data sources, such as plain files, Excel spreadsheets, databases, and XML files Use Pentaho Data Integration to perform CRUD

(create, read, update, and delete) operations on relational databases. Populate a data mart with Pentaho Data Integration. Use Pentaho Data Integration to organize files and folders, run daily processes, deal with errors, and more. In Detail Pentaho Data Integration (PDI) is an intuitive and graphical environment packed with drag-and-drop design and powerful Extract-Transform-Load (ETL) capabilities. This book shows and explains the new interactive features of Spoon, the revamped look and feel, and the newest features of the tool including transformations and jobs Executors and the invaluable Metadata Injection capability. We begin with the installation of PDI software and then move on to cover all the key PDI concepts. Each of the chapter introduces new features, enabling you to gradually get practicing with the tool. First, you will learn to do all kind of data manipulation and work with simple plain files. Then, the book teaches you how you can work with

relational databases inside PDI. Moreover, you will be given a primer on data warehouse concepts and you will learn how to load data in a data warehouse. During the course of this book, you will be familiarized with its intuitive, graphical and drag-and-drop design environment. By the end of this book, you will learn everything you need to know in order to meet your data manipulation requirements. Besides, you will be given best practices and advises for designing and deploying your projects. Style and approach Step by step guide filled with practical, real world scenarios and examples.

Internet of Things, Smart Spaces, and Next

Generation Networks and Systems - Olga Galinina

2017-10-03

This book constitutes the joint refereed proceedings of the 17th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems, NEW2AN 2017, the 10th Conference on Internet of

Things and Smart Spaces, ruSMART 2017. The 71 revised full papers presented were carefully reviewed and selected from 202 submissions. The papers of NEW2AN focus on advanced wireless networking and applications; lower-layer communication enablers; novel and innovative approaches to performance and efficiency analysis of ad-hoc and machine-type systems; employed game-theoretical formulations, Markov chain models, and advanced queuing theory; grapheme and other emerging material, photonics and optics; generation and processing of signals; and business aspects. The ruSMART papers deal with fully-customized applications and services. The NsCC Workshop papers capture the current state-of-the-art in the field of molecular and nanoscale communications such as information, communication and network theoretical analysis of molecular and nanonetwork, mobility in molecular and nanonetworks; novel and

practical communication protocols; routing schemes and architectures; design/engineering/evaluation of molecular and nonoscale communication systems; potential applications and interconnections to the Internet (e.g. the Internet of Nano Things).

Pentaho 3.2 Data Integration -
María Carina Roldán
2010-04-09

"Pentaho Data Integration (a.k.a. Kettle) is a full-featured open source ETL (Extract, Transform, and Load) solution. Although PDI is a feature-rich tool, effectively capturing, manipulating, cleansing, transferring, and loading data can get complicated. This book is full of practical examples that will help you to take advantage of Pentaho Data Integration's graphical, drag-and-drop design environment. You will quickly get started with Pentaho Data Integration by following the step-by-step guidance in this book. The useful tips in this book will encourage you to exploit powerful features of Pentaho

Data Integration and perform ETL operations with ease."-- Resource description p.

Advanced Techniques for IoT Applications - Jyotsna

Kumar Mandal 2021-08-02

This book includes original, unpublished contributions presented at the Sixth International Conference on Emerging Applications of Information Technology (EAIT 2020), held at the University of Kalyani, Kalyani, West Bengal, India, on November 2020. The book covers the topics such as image processing, computer vision, pattern recognition, machine learning, data mining, big data and analytics, information security and privacy, wireless and sensor networks, and IoT. It will also include IoT application-related papers in pattern recognition, artificial intelligence, expert systems, natural language understanding, image processing, computer vision, applications in biomedical engineering, artificial neural networks, fuzzy logic, evolutionary optimization, data mining, Web intelligence,

intelligent agent technology, virtual reality, and visualization.

Web Engineering - Jordi Cabot 2017-05-30

This book constitutes the refereed proceedings of the 17th International Conference on Web Engineering, ICWE 2017, held in Rome, Italy, in June 2017. The 20 full research papers and 12 short papers presented together with 6 application papers, 6 demonstration papers, and 6 contributions to the PhD Symposium, were carefully reviewed and selected from 139 submissions. The papers cover research areas such as Web application modeling and engineering, human computation and crowdsourcing applications, Web applications composition and mashup, Social Web applications, Semantic Web applications, Web of Things applications, and big data.

Pentaho Data Integration 4 Cookbook - Adrián Sergio

Pulvirenti 2011-06-23

Over 70 recipes to solve ETL problems using Pentaho Kettle.

Semantic Keyword-Based Search on Structured Data Sources

Julian Szymański
2018-02-07

This book constitutes the thoroughly refereed post-conference proceedings of the Third COST Action IC1302 International KEYSTONE Conference on Semantic Keyword-Based Search on Structured Data Sources, IKC 2017, held in Gdańsk, Poland, in September 2017. The 13 revised full papers and 5 short papers included in the first part of the book were carefully reviewed and selected from numerous submissions. The second part contains reports that summarize the major activities and achievements that have taken place in the context of the action: the short term scientific missions, the outcome of the summer schools, and the results achieved within the following four work packages: representation of structured data sources; keyword search; user interaction and keyword query interpretation; and research integration,

showcases, benchmarks and evaluations. Also included is a short report generated by the chairs of the action. The papers cover a broad range of topics in the area of keyword search combining expertise from many different related fields such as information retrieval, natural language processing, ontology management, indexing, semantic web and linked data.

Business Intelligence and Big Data

Esteban Zimányi
2018-07-14

This book constitutes revised tutorial lectures of the 7th European Business Intelligence and Big Data Summer School, eBISS 2017, held in Bruxelles, Belgium, in July 2017. The tutorials were given by renowned experts and covered advanced aspects of business intelligence and big data. This summer school, presented by leading researchers in the field, represented an opportunity for postgraduate students to equip themselves with the theoretical, practical, and collaboration skills necessary for developing challenging business

intelligence applications.

Data Science and Computational Intelligence - K. R. Venugopal 2021

This book constitutes revised and selected papers from the Sixteenth International Conference on Information Processing, ICInPro 2021, held in Bangaluru, India in October 2021. The 33 full and 9 short papers presented in this volume were carefully reviewed and selected from a total of 177 submissions. The papers are organized in the following thematic blocks:

Computing & Network Security; Data Science; Intelligence & IoT.

Mondrian in Action - Julian Hyde 2013-09-02

Summary Mondrian in Action teaches business users and developers how to use Mondrian and related tools for strategic business analysis. You'll learn how to design and populate a data warehouse and present the data via a multidimensional model. You'll follow examples showing how to create a Mondrian schema and then expand it to add basic

security based on the users' roles. About the Technology Mondrian is an open source, lightning-fast data analysis engine designed to help you explore your business data and perform speed-of-thought analysis. Mondrian can be integrated into a wide variety of business analysis applications and learning it requires no specialized technical knowledge. About this Book Mondrian in Action teaches you to use Mondrian for strategic business analysis. In it, you'll learn how to organize and present data in a multidimensional manner. You'll follow apt and thoroughly explained examples showing how to create a Mondrian schema and then expand it to add basic security based on users' roles. Developers will discover how to integrate Mondrian using its olap4j Java API and web service calls via XML for Analysis. Written for developers building data analysis solutions. Appropriate for tech-savvy business users and DBAs needing to query and

report on data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. What's Inside Mondrian from the ground up—no experience required A primer on business analytics Using Mondrian with a variety of leading applications Optimizing and restricting business data for fast, secure analysis About the Authors William D. Back is an Enterprise Architect and Director of Pentaho Services. Nicholas Goodman is a Business Intelligence pro who has authored training courses on OLAP and Mondrian. Julian Hyde founded Mondrian and is the project's lead developer. Table of Contents Beyond reporting: business analytics Mondrian: a first look Creating the data mart Multidimensional modeling: making analytics data accessible How schemas grow Securing data Maximizing Mondrian performance Dynamic security Working with Mondrian and Pentaho Developing with Mondrian Advanced analytics

Transactions on Large-Scale Data- and Knowledge-Centered Systems XLVIII - Abdelkader

Hameurlain 2021-05-17

The LNCS journal Transactions on Large-Scale Data- and Knowledge-Centered Systems focuses on data management, knowledge discovery, and knowledge processing, which are core and hot topics in computer science. Since the 1990s, the Internet has become the main driving force behind application development in all domains. An increase in the demand for resource sharing (e.g., computing resources, services, metadata, data sources) across different sites connected through networks has led to an evolution of data- and knowledge management systems from centralized systems to decentralized systems enabling large-scale distributed applications providing high scalability. This, the 48th issue of Transactions on Large-Scale Data- and Knowledge-Centered Systems, contains 8 invited papers dedicated to the memory of Prof. Dr. Roland Wagner. The

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topics covered include distributed database systems, NewSQL, scalable transaction management, strong consistency, caches, data warehouse, ETL, reinforcement learning, stochastic approximation, multi-agent systems, ontology, model-driven development, organisational modelling, digital government, new institutional economics and data governance.

Pandas for Everyone - Daniel Y. Chen 2017-12-15

The Hands-On, Example-Rich Introduction to Pandas Data Analysis in Python Today, analysts must manage data characterized by extraordinary variety, velocity, and volume. Using the open source Pandas library, you can use Python to rapidly automate and perform virtually any data analysis task, no matter how large or complex. Pandas can help you ensure the veracity of your data, visualize it for effective decision-making, and reliably reproduce analyses across multiple datasets. Pandas for Everyone brings together

practical knowledge and insight for solving real problems with Pandas, even if you're new to Python data analysis. Daniel Y. Chen introduces key concepts through simple but practical examples, incrementally building on them to solve more difficult, real-world problems. Chen gives you a jumpstart on using Pandas with a realistic dataset and covers combining datasets, handling missing data, and structuring datasets for easier analysis and visualization. He demonstrates powerful data cleaning techniques, from basic string manipulation to applying functions simultaneously across dataframes. Once your data is ready, Chen guides you through fitting models for prediction, clustering, inference, and exploration. He provides tips on performance and scalability, and introduces you to the wider Python data analysis ecosystem. Work with DataFrames and Series, and import or export data Create plots with matplotlib, seaborn, and pandas Combine datasets

and handle missing data
Reshape, tidy, and clean datasets so they're easier to work with
Convert data types and manipulate text strings
Apply functions to scale data manipulations
Aggregate, transform, and filter large datasets with groupby
Leverage Pandas' advanced date and time capabilities
Fit linear models using statsmodels and scikit-learn libraries
Use generalized linear modeling to fit models with different response variables
Compare multiple models to select the "best"
Regularize to overcome overfitting and improve performance
Use clustering in unsupervised machine learning

Pentaho Kettle Solutions - Matt Casters 2010-09-02

A complete guide to Pentaho Kettle, the Pentaho Data Integration toolset for ETL
This practical book is a complete guide to installing, configuring, and managing Pentaho Kettle.
If you're a database administrator or developer, you'll first get up to speed on Kettle basics and how to apply

Kettle to create ETL solutions—before progressing to specialized concepts such as clustering, extensibility, and data vault models.
Learn how to design and build every phase of an ETL solution.
Shows developers and database administrators how to use the open-source Pentaho Kettle for enterprise-level ETL processes (Extracting, Transforming, and Loading data)
Assumes no prior knowledge of Kettle or ETL, and brings beginners thoroughly up to speed at their own pace
Explains how to get Kettle solutions up and running, then follows the 34 ETL subsystems model, as created by the Kimball Group, to explore the entire ETL lifecycle, including all aspects of data warehousing with Kettle
Goes beyond routine tasks to explore how to extend Kettle and scale Kettle solutions using a distributed "cloud"
Get the most out of Pentaho Kettle and your data warehousing with this detailed guide—from simple single table data migration to complex multisystem clustered data

integration tasks.

Pentaho 3.2 Data Integration -

Maria Carina Roldan 2010

As part of Packt's Beginner's Guide, this book focuses on teaching by example. The book walks you through every aspect of PDI, giving step-by-step instructions in a friendly style, allowing you to learn in front of your computer, playing with the tool. The extensive use of drawings and screenshots make the process of learning PDI easy. Throughout the book numerous tips and helpful hints are provided that you will not find anywhere else. The book provides short, practical examples and also builds from scratch a small datamart intended to reinforce the learned concepts and to teach you the basics of data warehousing. This book is for software developers, database administrators, IT students, and everyone involved or interested in developing ETL solutions, or, more generally, doing any kind of data manipulation. If you have never used PDI before, this will be a perfect book to start with. You

will find this book is a good starting point if you are a database administrator, data warehouse designer, architect, or any person who is responsible for data warehouse projects and need to load data into them. You don't need to have any prior data warehouse or database experience to read this book. Fundamental database and data warehouse technical terms and concepts are explained in easy-to-understand language.

Pentaho 5.0 Reporting By Example Beginner's Guide -

Mariano García Mattío

2013-09-04

This is a Cookbook with easy-to-follow recipes, containing practical and detailed examples which are all fully backed up with code, illustrations, and tips to dig deep into Backbone.js. This book is great for JavaScript developers who want to learn how to build advanced frontend applications with the Backbone.js framework. This book can be used in educational institutions to teach students how to build frontend applications in an

MVC manner. It's assumed that you have some experience in jQuery, and are familiar with HTML.

Computational Intelligence, Communications, and Business Analytics

Jyotsna Kumar Mandal 2019-06-25

The two volume set CCIS 1030 and 1031 constitutes the refereed proceedings of the Second International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2018, held in Kalyani, India, in July 2018. The 76 revised full papers presented in the two volumes were carefully reviewed and selected from 240 submissions. The papers are organized in topical sections on computational intelligence; signal processing and communications; microelectronics, sensors, and intelligent networks; data science & advanced data analytics; intelligent data mining & data warehousing; and computational forensics (privacy and security).

Next-Generation Big Data

Butch Quinto 2018-06-12

Utilize this practical and easy-to-follow guide to modernize traditional enterprise data warehouse and business intelligence environments with next-generation big data technologies. Next-Generation Big Data takes a holistic approach, covering the most important aspects of modern enterprise big data. The book covers not only the main technology stack but also the next-generation tools and applications used for big data warehousing, data warehouse optimization, real-time and batch data ingestion and processing, real-time data visualization, big data governance, data wrangling, big data cloud deployments, and distributed in-memory big data computing. Finally, the book has an extensive and detailed coverage of big data case studies from Navistar, Cerner, British Telecom, Shopzilla, Thomson Reuters, and Mastercard. What You'll Learn Install Apache Kudu, Impala, and Spark to modernize enterprise data warehouse and business

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intelligence environments, complete with real-world, easy-to-follow examples, and practical advice Integrate HBase, Solr, Oracle, SQL Server, MySQL, Flume, Kafka, HDFS, and Amazon S3 with Apache Kudu, Impala, and Spark Use StreamSets, Talend, Pentaho, and CDAP for real-time and batch data ingestion and processing Utilize Trifacta, Alteryx, and Datameer for data wrangling and interactive data processing Turbocharge Spark with Alluxio, a distributed in-memory storage platform Deploy big data in the cloud using Cloudera Director Perform real-time data visualization and time series analysis using Zoomdata, Apache Kudu, Impala, and Spark Understand enterprise big data topics such as big data governance, metadata management, data lineage, impact analysis, and policy enforcement, and how to use Cloudera Navigator to perform common data governance tasks Implement big data use cases such as big data warehousing, data warehouse optimization,

Internet of Things, real-time data ingestion and analytics, complex event processing, and scalable predictive modeling Study real-world big data case studies from innovative companies, including Navistar, Cerner, British Telecom, Shopzilla, Thomson Reuters, and Mastercard Who This Book Is For BI and big data warehouse professionals interested in gaining practical and real-world insight into next-generation big data processing and analytics using Apache Kudu, Impala, and Spark; and those who want to learn more about other advanced enterprise topics *Pentaho Data Integration Cookbook* - Alex Meadows 2013-12-02 Pentaho Data Integration Cookbook Second Edition is written in a cookbook format, presenting examples in the style of recipes. This allows you to go directly to your topic of interest, or follow topics throughout a chapter to gain a thorough in-depth knowledge. Pentaho Data Integration Cookbook Second

Edition is designed for developers who are familiar with the basics of Kettle but who wish to move up to the next level. It is also aimed at advanced users that want to learn how to use the new features of PDI as well as and best practices for working with Kettle.

Advances in Artificial Intelligence - José M. Puerta
2015-11-13

This book constitutes the refereed proceedings of the 16th Conference of the Spanish Association for Artificial Intelligence, CAEPIA 2015, held in Albacete, Spain, in November 2015. The 31 revised full papers presented were carefully selected from 175 submissions. The papers are organized in topical sections on Bayesian networks and uncertainty modeling; fuzzy logic and soft computing; knowledge representation, reasoning, and logic; intelligent systems and environment; intelligent Web and recommender systems; machine learning and data mining; metaheuristics and

evolutionary computation; and social robotics.

Internet of Things and Big Data Analytics Toward Next-Generation Intelligence -

Nilanjan Dey 2017-08-14

This book highlights state-of-the-art research on big data and the Internet of Things (IoT), along with related areas to ensure efficient and Internet-compatible IoT systems. It not only discusses big data security and privacy challenges, but also energy-efficient approaches to improving virtual machine placement in cloud computing environments. Big data and the Internet of Things (IoT) are ultimately two sides of the same coin, yet extracting, analyzing and managing IoT data poses a serious challenge. Accordingly, proper analytics infrastructures/platforms should be used to analyze IoT data. Information technology (IT) allows people to upload, retrieve, store and collect information, which ultimately forms big data. The use of big data analytics has grown tremendously in just the past

few years. At the same time, the IoT has entered the public consciousness, sparking people's imaginations as to what a fully connected world can offer. Further, the book discusses the analysis of real-time big data to derive actionable intelligence in enterprise applications in several domains, such as in industry and agriculture. It explores possible automated solutions in daily life, including structures for smart cities and automated home systems based on IoT technology, as well as health care systems that manage large amounts of data (big data) to improve clinical decisions. The book addresses the security and privacy of the IoT and big data technologies, while also revealing the impact of IoT technologies on several scenarios in smart cities design. Intended as a comprehensive introduction, it offers in-depth analysis and provides scientists, engineers and professionals the latest techniques, frameworks and strategies used in IoT and big

data technologies.

Data Management at Scale -

Piethein Strengholt 2020-07-29

As data management and integration continue to evolve rapidly, storing all your data in one place, such as a data warehouse, is no longer scalable. In the very near future, data will need to be distributed and available for several technological solutions. With this practical book, you'll learn how to migrate your enterprise from a complex and tightly coupled data landscape to a more flexible architecture ready for the modern world of data consumption. Executives, data architects, analytics teams, and compliance and governance staff will learn how to build a modern scalable data landscape using the Scaled Architecture, which you can introduce incrementally without a large upfront investment. Author 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

Blockchain and Applications

- Javier Prieto 2020-07-14

This book constitutes the refereed proceedings of the 1st International Congress on Blockchain and Applications 2020, BLOCKCHAIN'20, held in L'Aquila, Italy, in October 2020. Among the scientific community, blockchain and artificial intelligence are a promising combination that will transform the production and manufacturing industry, media, finance, insurance, e-government, etc. Nevertheless, there is no consensus with schemes or best practices that would specify how blockchain and artificial intelligence should be used together. The 21 full papers presented were carefully reviewed and selected from over 40 submissions. They contain the latest advances on

blockchain and artificial intelligence and on their application domains, exploring innovative ideas, guidelines, theories, models, technologies, and tools, and identifying critical issues and challenges that researchers and practitioners must deal with in future research.

Deep Learning Techniques for Biomedical and Health Informatics - Basant Agarwal 2020-01-14

Deep Learning Techniques for Biomedical and Health Informatics provides readers with the state-of-the-art in deep learning-based methods for biomedical and health informatics. The book covers not only the best-performing methods, it also presents implementation methods. The book includes all the prerequisite methodologies in each chapter so that new researchers and practitioners will find it very useful. Chapters go from basic methodology to advanced methods, including detailed descriptions of proposed approaches and comprehensive

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critical discussions on experimental results and how they are applied to Biomedical Engineering, Electronic Health Records, and medical image processing. Examines a wide range of Deep Learning applications for Biomedical Engineering and Health Informatics, including Deep Learning for drug discovery, clinical decision support systems, disease diagnosis, prediction and monitoring. Discusses Deep Learning applied to Electronic Health Records (EHR), including health data structures and management, deep patient similarity learning, natural language processing, and how to improve clinical decision-making. Provides detailed coverage of Deep Learning for medical image processing, including optimizing medical big data, brain image analysis, brain tumor segmentation in MRI imaging, and the future of biomedical image analysis.

Pentaho Solutions - Roland Bouman 2010-09-23

Your all-in-one resource for using Pentaho with MySQL

for Business Intelligence and Data Warehousing. Open-source Pentaho provides business intelligence (BI) and data warehousing solutions at a fraction of the cost of proprietary solutions. Now you can take advantage of Pentaho for your business needs with this practical guide written by two major participants in the Pentaho community. The book covers all components of the Pentaho BI Suite. You'll learn to install, use, and maintain Pentaho and find plenty of background discussion that will bring you thoroughly up to speed on BI and Pentaho concepts. Of all available open source BI products, Pentaho offers the most comprehensive toolset and is the fastest growing open source product suite. Explains how to build and load a data warehouse with Pentaho Kettle for data integration/ETL, manually create JFree (Pentaho reporting services) reports using direct SQL queries, and create Mondrian (Pentaho analysis services) cubes and attach them to a JPivot cube.

browser Review deploying reports, cubes and metadata to the Pentahoplatform in order to distribute BI solutions to end-users Shows how to set up scheduling, subscription and automaticdistribution The companion Web site provides complete source code examples,sample data, and links to related resources.

Beginning Apache Pig -

Balaswamy Vaddeman

2016-12-10

Learn to use Apache Pig to develop lightweight big data applications easily and quickly.

This book shows you many optimization techniques and covers every context where Pig is used in big data analytics.

Beginning Apache Pig shows you how Pig is easy to learn and requires relatively little

time to develop big data applications.The book is divided into four parts: the complete features of Apache

Pig; integration with other tools; how to solve complex business problems; and optimization of tools.You'll

discover topics such as MapReduce and why it cannot

meet every business need; the features of Pig Latin such as data types for each load, store, joins, groups, and ordering; how Pig workflows can be created; submitting Pig jobs using Hue; and working with Oozie. You'll also see how to extend the framework by writing UDFs and custom load, store, and filter functions. Finally you'll cover different optimization techniques such as gathering statistics about a Pig script, joining strategies, parallelism, and the role of data formats in good performance. What You Will Learn• Use all the features of Apache Pig• Integrate Apache Pig with other tools• Extend Apache Pig• Optimize Pig Latin code• Solve different use cases for Pig LatinWho This Book Is ForAll levels of IT professionals: architects, big data enthusiasts, engineers, developers, and big data administrators

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performance. What You Will Learn• Use all the features of Apache Pig• Integrate Apache

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ForAll levels of IT professionals: architects, big data enthusiasts, engineers, developers, and big data administrators

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Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems:

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Volume 2 - Suresh Chandra Satapathy 2016-05-03

This volume contains 60 papers presented at ICTIS 2015:

International Conference on Information and

Communication Technology for Intelligent Systems. The

conference was held during 28th and 29th November,

2015, Ahmedabad, India and organized communally by

Venus International College of Technology, Association of

Computer Machinery,

Ahmedabad Chapter and

Supported by Computer

Society of India Division IV -

Communication and Division V

- Education and Research. This

volume contains papers mainly focused on ICT and its

application for Intelligent

Computing, Cloud Storage,

Data Mining, Image Processing

and Software Analysis etc.

Intelligent Systems and

Applications - Kohei Arai

2021-08-02

This book presents Proceedings of the 2021 Intelligent Systems

Conference which is a

remarkable collection of

chapters covering a wider

range of topics in areas of intelligent systems and

artificial intelligence and their applications to the real world.

The conference attracted a total of 496 submissions from

many academic pioneering researchers, scientists,

industrial engineers, and students from all around the

world. These submissions underwent a double-blind peer-

review process. Of the total submissions, 180 submissions

have been selected to be included in these proceedings.

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. The chapters include theory

and application on all aspects of artificial intelligence, from

classical to intelligent scope. We hope that readers find the

book interesting and valuable; it provides the state-of-the-art

intelligent methods and techniques for solving real-world problems along with a

vision of the future research.

Smart Intelligent Computing and Applications

- Suresh Chandra Satapathy

2018-11-04

The proceedings covers advanced and multi-disciplinary research on design of smart computing and informatics. The theme of the book broadly focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solution to varied problems in society, environment and industries.

The volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and healthcare.

Pentaho Data Integration Quick Start Guide

- María Carina Roldán

2018-08-30

Get productive quickly with Pentaho Data Integration Key Features Take away the pain of

starting with a complex and powerful system Simplify your data transformation and integration work Explore, transform, and validate your data with Pentaho Data Integration Book Description Pentaho Data Integration(PDI) is an intuitive and graphical environment packed with drag and drop design and powerful Extract-Transform-Load (ETL) capabilities. Given its power and flexibility, initial attempts to use the Pentaho Data Integration tool can be difficult or confusing. This book is the ideal solution. This book reduces your learning curve with PDI. It provides the guidance needed to make you productive, covering the main features of Pentaho Data Integration. It demonstrates the interactive features of the graphical designer, and takes you through the main ETL capabilities that the tool offers. By the end of the book, you will be able to use PDI for extracting, transforming, and loading the types of data you encounter on a daily basis. What you will learn Design,

preview and run transformations in Spoon Run transformations using the Pan utility Understand how to obtain data from different types of files Connect to a database and explore it using the database explorer Understand how to transform data in a variety of ways Understand how to insert data into database tables Design and run jobs for sequencing tasks and sending emails Combine the execution of jobs and transformations Who this book is for This book is for software developers, business intelligence analysts, and others involved or interested in developing ETL solutions, or more generally, doing any kind of data manipulation.

Kafka: The Definitive Guide

- Neha Narkhede 2017-08-31 Every enterprise application creates data, whether it's log messages, metrics, user activity, outgoing messages, or something else. And how to move all of this data becomes nearly as important as the data itself. If you're an application architect, developer, or

production engineer new to Apache Kafka, this practical guide shows you how to use this open source streaming platform to handle real-time data feeds. Engineers from Confluent and LinkedIn who are responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven microservices, and build scalable stream-processing applications with this platform. Through detailed examples, you'll learn Kafka's design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the storage layer. Understand publish-subscribe messaging and how it fits in the big data ecosystem. Explore Kafka producers and consumers for writing and reading messages Understand Kafka patterns and use-case requirements to ensure reliable data delivery Get best practices for building data pipelines and applications with Kafka Manage Kafka in production, and learn to

perform monitoring, tuning, and maintenance tasks Learn the most critical metrics among Kafka's operational measurements Explore how Kafka's stream delivery capabilities make it a perfect source for stream processing systems

Getting Started with

Amazon Redshift - Stefan

Bauer 2013-06-14

Getting Started With Amazon Redshift is a step-by-step, practical guide to the world of Redshift. Learn to load, manage, and query data on Redshift. This book is for CIOs, enterprise architects, developers, and anyone else who needs to get familiar with RedShift. The CIO will gain an understanding of what their technical staff is working on; the technical implementation personnel will get an in-depth view of the technology, and what it will take to implement their own solutions.

Encyclopedia of Data Science and Machine

Learning - Wang, John

2022-10-14

Big data and machine learning

are driving the Fourth Industrial Revolution. With the age of big data upon us, we risk drowning in a flood of digital data. Big data has now become a critical part of both the business world and daily life, as the synthesis and synergy of machine learning and big data has enormous potential. Big data and machine learning are projected to not only maximize citizen wealth, but also promote societal health. As big data continues to evolve and the demand for professionals in the field increases, access to the most current information about the concepts, issues, trends, and technologies in this interdisciplinary area is needed. The Encyclopedia of Data Science and Machine Learning examines current, state-of-the-art research in the areas of data science, machine learning, data mining, and more. It provides an international forum for experts within these fields to advance the knowledge and practice in all facets of big data and machine learning, emphasizing

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emerging theories, principals, models, processes, and applications to inspire and circulate innovative findings into research, business, and communities. Covering topics such as benefit management, recommendation system analysis, and global software development, this expansive reference provides a dynamic resource for data scientists, data analysts, computer scientists, technical managers, corporate executives, students and educators of higher education, government officials, researchers, and academicians.

Instant Pentaho Data Integration Kitchen - Sergio

Ramazzina 2013-01-01
Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. A practical guide with easy-to-follow recipes helping developers to quickly and effectively collect data from disparate sources such as databases, files, and applications, and turn the data into a unified format that is accessible and relevant to end users. Any IT professional working on PDI and is a valid support for either learning how to use the command line tools efficiently or for going deeper on some aspects of the command line tools to help you work better.