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Designing Real

World Big Data

Applications

World Big

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Hadoop Application
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Developing a strategy for the post-Hadoop era – and freeing up time and resources to focus on emerging data challenges.

Is there life after Hadoop? The answer is a resounding yes. Steps to building a perfect LinkedIn profile that will get you noticed

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by big data recruiters
and help you discover
lucrative big data
Hadoop jobs.

Improve Your LinkedIn
Profile and find the right
Hadoop Job!

There are all sorts of
pretenders to the throne
for data management
including Hadoop, XML
... them to deliver easier

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development for mobile applications, content management, profile management, and ...

World Big Data Applications

Relational Still Matters
Software-defined architectures were a first step, helping to customize designs for specific applications ... design and validation such that it has to span

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out and increasingly
handle those aspects of

Designing Real World Big Data

Shifting Toward Data-
Driven Chip

Architectures

EDA is moving to the
cloud in fits and starts as
tool vendors sort out
complex financial
models and tradeoffs
while recognizing a

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potentially big new
opportunity to provide
unlimited processing ...

Designing Real World Big Data

Rocky Road To
Designing Chips In The
Cloud

Panasonic announces
the i-PRO multi-AI
system designed to
harness the power of its
latest AI cameras and
applications by

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integrating them
seamlessly into existing
CCTV ...

Designing Real World Big Data

Panasonic launches i-
PRO multi-AI system to
enhance the power of
their AI cameras and
applications

There are some features
in any architecture that
are essential,
foundational, and non-

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negotiable. Right up to the moment that some clever architect shows ...

Designing Real World Big Data

Gutting Decades Of Architecture To Build A New Kind Of Processor

My primary interest is finding early stage innovations which will create ... and application clouds, their data silo problems persist. Big

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data architectures like Hadoop attempted to solve the ...

Designing Real World Big Data

Snowflake: Benefiting From The Migration Of Data To The Cloud
Matterport, Inc., the leading spatial data company driving the digital transformation of the built world, which has entered into a ...

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Architectures

Matterport and PTC

Enable Customers to

Create Augmented

Reality Experiences for

Large Spaces

Phil Kippen of VMware

(NYSE: VMW) and

Chris Thomas of Dell

Technologies (NYSE:

DELL) said 5G enables

government agencies to

adopt cloud-native,

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distributed edge
architectures and other
technologies ...

Designing Real

World Big Data

VMware's Phil Kippen,
Dell's Chris Thomas:

5G Architectures Could
Help Agencies Improve
Service Agility

New research looks at
the challenges keeping
decision-makers from
their desired

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transformation when
deploying ML to create
AI applications.

Designing Real World Big Data

Over 40% of IT
Decision Makers
Believe Their Current
Data Architectures
Won't Meet Future
Model Inferencing
Challenges
Despite the hype,
especially around self-

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driving cars, AI is writing code, designing Google chip floor plans, and telling us how much to trust it.

Applications

The real successes of AI
The ML models for these use-cases need features that are computed through batch jobs on the data warehouse or via event

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streams. For instance, a
'cancel model' predicts
whether the user can
cancel a ...

All About Lyft's ML
Architecture

The new 2022 Jeep®
Compass is the most
connected and
technically advanced yet
Two Jeep 4x4 systems
and Selec-Terrain

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Application management ...

Architectures

The New 2022 Jeep®

Compass with an

Evolved Jeep Design

and Advanced

Technologies Debuts at

the 2021 Chicago Auto

Show

Researchers from Baidu

Research Robotics and

Auto-Driving Lab

(RAL) and the

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University of Maryland,
College Park, have
introduced an
autonomous excavator
system (AES) that can
perform material
loading ...

Autonomous excavators
ready for around the
clock real-world
deployment

At the time, Fukutake

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invited none other than architect Tadao Ando to design ... of architecture are an interesting alternative way to approach this issue. The materials used in social housing should ...

Architecture News

Instabase, a horizontal application platform that helps global companies

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solve unstructured data problems, announced it has joined Microsoft (News - Alert) for Startups, a global program designed to ...

Instabase Joins

Microsoft for Startups to Streamline Delivery of Enterprise Applications
STMicro's new MCUs enable advanced vehicle

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electronic architectures
running multiple
independent
applications on one
device. What are the
main automotive design
challenges addressed by
each of ...

Dual-Series MCUs
Address Automotive
Safety-Critical Apps Up
to ASIL D

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It's also going after performance applications beyond the low-end embedded processor market.

SiFive is one of the companies designing RISC-V architecture ... have a real choice for their next ...

Get expert guidance on
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architecting end-to-end data management solutions with Apache Hadoop. While many sources explain how to use various components in the Hadoop ecosystem, this practical book takes you through architectural considerations necessary to tie those components together into a complete tailored application,

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based on your particular use case. To reinforce those lessons, the book's second section provides detailed examples of architectures used in some of the most commonly found Hadoop applications.

Whether you're designing a new Hadoop application, or planning to integrate Hadoop into

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your existing data
infrastructure, Hadoop
Application

Architectures will
skillfully guide you
through the process.

This book covers:

Factors to consider
when using Hadoop to
store and model data

Best practices for
moving data in and out
of the system Data

processing frameworks,

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including MapReduce,
Spark, and Hive
Common Hadoop
processing patterns,
such as removing
duplicate records and
using windowing
analytics Giraph,
GraphX, and other tools
for large graph
processing on Hadoop
Using workflow
orchestration and
scheduling tools such as

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Apache Oozie Near-real-time stream processing with Apache Storm, Apache Spark Streaming, and Apache Flume Architecture examples for clickstream analysis, fraud detection, and data warehousing

Get expert guidance on
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Common Hadoop
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such as removing
duplicate records and
using windowing
analytics Giraph,
GraphX, and other tools
for large graph
processing on Hadoop
Using workflow
orchestration and
scheduling tools such as

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Apache Oozie Near-real-time stream processing with Apache Storm, Apache Spark Streaming, and Apache Flume Architecture examples for clickstream analysis, fraud detection, and data warehousing

While many companies ponder implementation details such as

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distributed processing engines and algorithms for data analysis, this practical book takes a much wider view of big data development, starting with initial planning and moving diligently toward execution. Authors Ted Malaska and Jonathan Seidman guide you through the major components necessary

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to start, architect, and develop successful big data projects. Everyone from CIOs and COOs to lead architects and developers will explore a variety of big data architectures and applications, from massive data pipelines to web-scale applications. Each chapter addresses a piece of the software

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development life cycle and identifies patterns to maximize long-term success throughout the life of your project. Start the planning process by considering the key data project types Use guidelines to evaluate and select data management solutions Reduce risk related to technology, your team, and vague requirements

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Explore system interface design using APIs, REST, and pub/sub systems Choose the right distributed storage system for your big data system Plan and implement metadata collections for your data architecture Use data pipelines to ensure data integrity from source to final storage Evaluate the attributes of various

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engines for processing
the data you collect

There's a lot of
information about big
data technologies, but
splicing these
technologies into an end-
to-end enterprise data
platform is a daunting
task not widely covered.
With this practical book,
you'll learn how to
build big data

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infrastructure both on-premises and in the cloud and successfully architect a modern data platform. Ideal for enterprise architects, IT managers, application architects, and data engineers, this book shows you how to overcome the many challenges that emerge during Hadoop projects. You'll explore the vast

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landscape of tools available in the Hadoop and big data realm in a thorough technical primer before diving into: Infrastructure: Look at all component layers in a modern data platform, from the server to the data center, to establish a solid foundation for data in your enterprise Platform: Understand

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aspects of deployment, operation, security, high availability, and disaster recovery, along with everything you need to know to integrate your platform with the rest of your enterprise IT

Taking Hadoop to the cloud: Learn the important architectural aspects of running a big data platform in the cloud while maintaining

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enterprise security and
high availability

Big Data Application

Architecture Pattern

Recipes provides an
insight into

heterogeneous
infrastructures,

databases, and

visualization and

analytics tools used for
realizing the

architectures of big data

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solutions. Its problem-solution approach helps in selecting the right architecture to solve the problem at hand. In the process of reading through these problems, you will learn harness the power of new big data opportunities which various enterprises use to attain real-time profits. Big Data Application

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Architecture Pattern

Recipes answers one of the most critical questions of this time 'how do you select the best end-to-end architecture to solve your big data problem?'. The book deals with various mission critical problems encountered by solution architects, consultants, and software architects

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while dealing with the myriad options available for implementing a typical solution, trying to extract insight from huge volumes of data in real-time and across multiple relational and non-relational data types for clients from industries like retail, telecommunication, banking, and insurance. The patterns in this

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book provide the strong architectural foundation required to launch your next big data application. The architectures for realizing these opportunities are based on relatively less expensive and heterogeneous infrastructures compared to the traditional monolithic

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and hugely expensive options that exist currently. This book describes and evaluates the benefits of heterogeneity which brings with it multiple options of solving the same problem, evaluation of trade-offs and validation of 'fitness-for-purpose' of the solution.

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Re-architect relational applications to NoSQL, integrate relational database management systems with the Hadoop ecosystem, and transform and migrate relational data to and from Hadoop components. This book covers the best-practice design approaches to re-architecting your relational applications

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and transforming your relational data to optimize concurrency, security, denormalization, and performance. Winner of IBM's 2012 Gerstner Award for his implementation of big data and data warehouse initiatives and author of Practical Hadoop Security, author Bhushan Lakhe walks

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you through the entire transition process. First, he lays out the criteria for deciding what blend of re-architecting, migration, and integration between RDBMS and HDFS best meets your transition objectives. Then he demonstrates how to design your transition model. Lakhe proceeds to cover the selection

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criteria for ETL tools, the implementation steps for migration with SQOOP- and Flume-based data transfers, and transition optimization techniques for tuning partitions, scheduling aggregations, and redesigning ETL. Finally, he assesses the pros and cons of data lakes and Lambda architecture as

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integrative solutions and illustrates their implementation with real-world case studies.

Hadoop/NoSQL solutions do not offer by default certain relational technology features such as role-based access control, locking for concurrent updates, and various tools for measuring and enhancing performance.

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Practical Hadoop

Migration shows how to use open-source tools to emulate such relational functionalities in

Hadoop ecosystem components. What

You'll Learn Decide

whether you should migrate your relational applications to big data technologies or integrate them Transition your relational applications to

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Hadoop/NoSQL
platforms in terms of
logical design and
physical implementation
Discover RDBMS-to-
HDFS integration, data
transformation, and
optimization techniques
Consider when to use
Lambda architecture
and data lake solutions
Select and implement
Hadoop-based
components and

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applications to speed transition, optimize integrated performance, and emulate relational functionalities Who This Book Is For Database developers, database administrators, enterprise architects, Hadoop/NoSQL developers, and IT leaders. Its secondary readership is project and program managers and

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advanced students of
database and
management
information systems.

Beschrijving van
vijfentwintig open
source applicaties.

This book addresses the
usefulness of knowledge
discovery through data
mining. With this aim,
contributors from

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different fields propose concrete problems and applications showing how data mining and discovering embedded knowledge from raw data can be beneficial to social organizations, domestic spheres, and ICT markets. Data mining or knowledge discovery in databases (KDD) has received increasing interest due

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to its focus on transforming large amounts of data into novel, valid, useful, and structured knowledge by detecting concealed patterns and relationships. The concept of knowledge is broad and speculative and has promoted epistemological debates in western philosophies. The intensified interest

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in knowledge management and data mining stems from the difficulty in identifying computational models able to approximate human behaviors and abilities in resolving organizational, social, and physical problems. Current ICT interfaces are not yet adequately advanced to support and simulate the abilities of

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physicians, teachers, assistants or housekeepers in domestic spheres. And unlike in industrial contexts where abilities are routinely applied, the domestic world is continuously changing and unpredictable.

There are challenging questions in this field: Can knowledge locked in conventions, rules of

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conduct, common sense, ethics, emotions, laws, cultures, and experiences be mined from data? Is it acceptable for automatic systems displaying emotional behaviors to govern complex interactions based solely on the mining of large volumes of data?

Discussing
multidisciplinary

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themes, the book proposes computational models able to approximate, to a certain degree, human behaviors and abilities in resolving organizational, social, and physical problems. The innovations presented are of primary importance for: a. The academic research community b. The ICT

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market c. Ph.D. students
and early stage
researchers d. Schools,
hospitals, rehabilitation
and assisted-living
centers e.
Representatives from
multimedia industries
and standardization
bodies

Data is at the center of
many challenges in
system design today.

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Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your

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application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the

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fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make

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informed decisions by identifying the strengths and weaknesses of different tools. Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity. Understand the distributed systems research upon which modern databases are built. Peek behind the scenes of major online services, and learn from

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their architectures

Architectures

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