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

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Data Applications

There are all sorts of pretenders to the throne for data management including Hadoop, XML ... them to deliver easier development for mobile applications, content management, profile management, and ...

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 out and increasingly handle those aspects of ...

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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 potentially big new opportunity to provide unlimited processing ...

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 integrating

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them seamlessly into existing CCTV ...

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

Gutting Decades Of Architecture To Build A New Kind Of Processor

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Data Applications My primary interest is finding early stage innovations which will create ... and application clouds, their data silo problems persist. Big data architectures like Hadoop attempted to solve the ...

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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Data Applications 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, distributed edge architectures and other technologies ...

VMware's Phil Kippen, Dell's Chris Thomas: 5G Architectures Could Help Agencies Improve Service Agility

New research looks at the challenges keeping

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Decision-makers from their desired transformation when deploying ML to create AI applications.

Over 40% of IT Decision Makers Believe Their Current Data Architectures Won't Meet Future Model Inferencing Challenges

Despite the hype, especially around self-driving cars, AI is writing code, designing Google chip floor plans, and telling us how much to trust it.

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Data Applications of AI

The ML models for these use-cases need features that are computed through batch jobs on the data warehouse or via event 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 traction management ...

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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 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 invited none other than

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

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Instabase Joins Microsoft for Startups to Streamline Delivery of Enterprise Applications

STMicro's new MCUs enable advanced vehicle 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

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

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

Get expert guidance on 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, based on your

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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 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, including MapReduce,

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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 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

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Data Applications

While many companies ponder implementation details such as 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 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

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web-scale applications. Each chapter addresses a piece of the software 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 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

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Data Applications to ensure data integrity from source to final storage Evaluate the attributes of various engines for processing the data you collect

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

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received increasing interest due 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 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

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adequately advanced to support and simulate the abilities of 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 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

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large volumes of data? Discussing multidisciplinary 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 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

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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 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 landscape of tools available in the Hadoop and big data

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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 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 enterprise security and

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This book unravels the mystery of Big Data computing and its power to transform business operations. The approach it uses will be helpful to any professional who must present a case for realizing Big Data computing solutions or to those who could be involved in a Big Data computing project. It provides a framework that enables business and technical managers to make optimal decisions necessary for the successful migration to Big Data computing environments and applications within their organizations.

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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 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

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Lakhe walks 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 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

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architecture as 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. 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

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Data Applications
your relational applications to 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 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

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managers and advanced students of database and management information systems.

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 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

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to attain real-time profits. Big Data Application 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 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

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retail, telecommunication, banking, and insurance. The patterns in this 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 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

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The 15th International Symposium on Distributed Computing and Artificial Intelligence 2018 (DCAI 2018) is a forum to present applications of innovative techniques for studying and solving complex problems. The exchange of ideas between scientists and technicians from both the academic and industrial sector is essential to facilitate the development of systems that can meet the ever-increasing demands of today's society. The present edition brings together past experience, current work and promising future

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Data Applications trends associated with distributed computing, artificial intelligence and their application in order to provide efficient solutions to real problems. This symposium is organized by the University of Castilla-La Mancha, the Osaka Institute of Technology and the University of Salamanca. The present edition was held in Toledo, Spain, from 20th - 22nd June, 2018.

The increase in connected devices in the internet of things (IoT) is leading to an exponential increase in the data that an organization is required to manage. To

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successfully utilize IoT in businesses, big data analytics are necessary in order to efficiently sort through the increased data. The combination of big data and IoT can thus enable new monitoring services and powerful processing of sensory data streams. The Handbook of Research on Big Data and the IoT is a pivotal reference source that provides vital research on emerging trends and recent innovative applications of big data and IoT, challenges facing organizations and the implications of these technologies on society, and best practices for their implementation. While highlighting topics

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Data Applications such as bootstrapping, data fusion, and graph mining, this publication is ideally designed for IT specialists, managers, policymakers, analysts, software engineers, academicians, and researchers.

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