

Big Data

Principles and best practices of
scalable real-time data systems

Nathan Marz
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MANNING

Big Data Principles Practices Scalable

Mike Jess



Big Data Principles Practices Scalable:

Big Data James Warren, Nathan Marz, 2015-04-29 Summary Big Data teaches you to build big data systems using an architecture that takes advantage of clustered hardware along with new tools designed specifically to capture and analyze web scale data It describes a scalable easy to understand approach to big data systems that can be built and run by a small team Following a realistic example this book guides readers through the theory of big data systems how to implement them in practice and how to deploy and operate them once they re built Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book Web scale applications like social networks real time analytics or e commerce sites deal with a lot of data whose volume and velocity exceed the limits of traditional database systems These applications require architectures built around clusters of machines to store and process data of any size or speed Fortunately scale and simplicity are not mutually exclusive Big Data teaches you to build big data systems using an architecture designed specifically to capture and analyze web scale data This book presents the Lambda Architecture a scalable easy to understand approach that can be built and run by a small team You ll explore the theory of big data systems and how to implement them in practice In addition to discovering a general framework for processing big data you ll learn specific technologies like Hadoop Storm and NoSQL databases This book requires no previous exposure to large scale data analysis or NoSQL tools Familiarity with traditional databases is helpful What s Inside Introduction to big data systems Real time processing of web scale data Tools like Hadoop Cassandra and Storm Extensions to traditional database skills About the Authors Nathan Marz is the creator of Apache Storm and the originator of the Lambda Architecture for big data systems James Warren is an analytics architect with a background in machine learning and scientific computing Table of Contents A new paradigm for Big Data PART 1 BATCH LAYER Data model for Big Data Data model for Big Data Illustration Data storage on the batch layer Data storage on the batch layer Illustration Batch layer Batch layer Illustration An example batch layer Architecture and algorithms An example batch layer Implementation PART 2 SERVING LAYER Serving layer Serving layer Illustration PART 3 SPEED LAYER Realtime views Realtime views Illustration Queuing and stream processing Queuing and stream processing Illustration Micro batch stream processing Micro batch stream processing Illustration Lambda Architecture in depth

Big Data in der Praxis Jonas Freiknecht, Stefan Papp, 2018-06-11 Diese komplett bearbeitete Neuauflage bringt Ihnen das Thema Big Data auf sehr praktische Art und Weise nahe Sie lernen Technologien Tools und Methoden kennen entwickeln Beispiel L sungen und erfahren wie Sie bestehende Systeme vorausschauend auf die mit Big Data einhergehenden Herausforderungen vorbereiten Dazu werden Sie neben den bekannten Apache Projekten wie Hadoop Hive und HBase auch einige weniger bekannte Frameworks wie Apache UIMA oder Apache OpenNLP kennenlernen um gezielt die Verarbeitung unstrukturierter Daten zu lernen Alle hier verwendeten Software Komponenten stehen im vollen Umfang kostenlos im Internet zur Verf gung Gemeinsam mit den Autoren bauen Sie Schritt f r Schritt viele kleinere Projekte

auf bis hin zu einer fertigen und funktionstüchtigen Implementierung. Ziel des Buches ist es, Sie auf den Effekt und den Mehrwert der neuen Möglichkeiten aufmerksam zu machen, sodass Sie diese konstruktiv in Ihr Unternehmen tragen können und für sich und Ihre Kollegen somit ein Bewusstsein für den Wert Ihrer Daten schaffen. Die zweite Auflage ergänzt das Buch um zahlreiche neue Themen wie Apache Spark, Apache Kafka und weitere Technologien, die vor allem darauf abzielen, Antwortzeiten kurz zu halten und so ein interaktives Arbeiten zu ermöglichen. Ebenso werden die für Firmen so wichtigen Themen Data Governance und Sicherheit behandelt. Im Internet 18 fertige Beispielprojekte auf Basis von Hadoop, HBase, Hive und D3.js plus Videotutorials.

Proaktives ereignisgesteuertes Geschäftsprozessmanagement Julian Krumeich, 2018

Die Digitalisierung ermöglicht feingranulare Datenströme in betrieblichen Abläufen zu erfassen. Mittels moderner Analyseverfahren wie dem Complex Event Processing (CEP) können relevante Ereignismuster hieraus identifiziert und korrespondierende Maßnahmen unverzüglich initiiert werden. Vielversprechend erweist sich zukünftige Geschäftsereignisse zu prognostizieren und hierdurch eine proaktive Steuerung von Unternehmensabläufen zu realisieren. Hierzu muss eine Kombination aus CEP und prädiktiven Analysen in die operativen Entscheidungs- und Steuerungsprozesse verankert werden. Dies bedingt einen Veränderungsprozess in Unternehmen und somit die Integration in das Geschäftsprozessmanagement. Das von Julian Krumeich konstruierte Referenzmodell dient als Gestaltungsvorlage für die Realisierung eines proaktiven ereignisgesteuerten Geschäftsprozessmanagements. Das Modell umfasst Komponenten zur Modellierung von komplexen Ereignismustern sowie deren automatisierten Transformation in EPL-Spezifikationen. Zudem ermöglicht ein methodisches Vorgehen Prognosepotenziale in Geschäftsprozessen zu identifizieren, um auf dieser Grundlage reaktive Prozesse durch die Einbettung proaktiver Bestandteile in proaktive Prozesse zu transformieren. Die Praxistauglichkeit des Referenzmodells wird anhand eines Anwendungsbeispiels aus der Stahlproduktion validiert und die Umsetzbarkeit durch Prototypen unterstrichen. Dieses Buch erweist sich nicht nur für Wissenschaftler von Interesse, sondern dient auch Lesern aus der Unternehmenspraxis als Impulsgeber zur Bewältigung der notwendigen Transformation ihrer Geschäftsprozesse.

Big Data - BigData 2018

Francis Y. L. Chin, C. L. Philip Chen, Latifur Khan, Kisung Lee, Liang-Jie Zhang, 2018-06-20

This volume constitutes the proceedings of the 7th International Conference on BIGDATA 2018 held as Part of SCF 2018 in Seattle WA USA in June 2018. The 22 full papers together with 10 short papers published in this volume were carefully reviewed and selected from 97 submissions. They are organized in topical sections such as Data analysis, data as a service, services computing, data conversion, data storage, data centers, dataflow architectures, data compression, data exchange, data modeling, databases and data management.

Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm Bhadoria, Robin Singh, Chaudhary, Narendra, Tomar, Geetam Singh, Singh, Shailendra, 2017-02-14

Web browsing would not be what it is today without the use of Service Oriented Architecture (SOA). Although much has been written about SOA methodology, this emerging platform is continuously under development. Exploring Enterprise Service Bus in the Service Oriented Architecture

Paradigm is a detailed reference source that examines current aspects and research methodologies that enable enterprise service bus to unify and connect services efficiently on a common platform Featuring relevant topics such as SOA reference architecture grid computing applications complex event computing and java business integration this is an ideal resource for all practitioners academicians graduate students and researchers interested in the discoveries on the relationship that

Service Oriented architecture and enterprise service bus share **Big Data 2.0 Processing Systems** Sherif

Sakr,2020-07-09 This book provides readers the big picture and a comprehensive survey of the domain of big data processing systems For the past decade the Hadoop framework has dominated the world of big data processing yet recently academia and industry have started to recognize its limitations in several application domains and thus it is now gradually being replaced by a collection of engines that are dedicated to specific verticals e g structured data graph data and streaming data The book explores this new wave of systems which it refers to as Big Data 2 0 processing systems After Chapter 1 presents the general background of the big data phenomena Chapter 2 provides an overview of various general purpose big data processing systems that allow their users to develop various big data processing jobs for different application domains In turn Chapter 3 examines various systems that have been introduced to support the SQL flavor on top of the Hadoop infrastructure and provide competing and scalable performance in the processing of large scale structured data Chapter 4 discusses several systems that have been designed to tackle the problem of large scale graph processing while the main focus of Chapter 5 is on several systems that have been designed to provide scalable solutions for processing big data streams and on other sets of systems that have been introduced to support the development of data pipelines between various types of big data processing jobs and systems Next Chapter 6 focuses on covering the emerging frameworks and systems in the domain of scalable machine learning and deep learning processing Lastly Chapter 7 shares conclusions and an outlook on future research challenges This new and considerably enlarged second edition not only contains the completely new chapter 6 but also offers a refreshed content for the state of the art in all domains of big data processing over the last years Overall the book offers a valuable reference guide for professional students and researchers in the domain of big data processing systems Further its comprehensive content will hopefully encourage readers to pursue further research on the subject **Digitale Transformation und Unternehmensführung** Jochen Schellinger, Kim Oliver Tokarski, Ingrid

Kissling-Näf,2019-11-01 Dieses Open Access Fachbuch setzt sich empirisch und theoretisch mit Teilaspekten der digitalen Transformation und deren Konsequenzen f r die Unternehmensf hrung auseinander Die mit der Digitalisierung verbundenen neuen Technologien Gesch ftsmodelle sowie Denk und Handlungsweisen ver ndern die Welt grundlegend und mit einer hohen Geschwindigkeit Der Band greift aktuelle praxisrelevante Fragestellungen und Herausforderungen des Megatrends Digitalisierung auf die in den folgenden vier Themenbl cken behandelt werden 1 Grundlagen der Digitalen Transformation 2 Human Resource Management und Organisation 3 Finanzwirtschaft und 4 Marketing Das Buch enth lt unter anderem Beitr

ge zu den Themen Bedeutung von Open Access im digitalen Zeitalter Cybersicherheit in KMU Einsatz von Big Data Analysen in Unternehmen zukunftsorientierte Arbeitsmodelle und Ansätze der Personalarbeit Einsatzmöglichkeiten von Virtual Reality im Verkauf Kundengewinnung mittels Google AdWords Kampagnen Alle Beiträge wurden durch bewährte Autorentteams erarbeitet Diese setzen sich aus Lehrenden und Forschenden der Berner Fachhochschule und Vertreterinnen und Vertretern der Unternehmenspraxis mit akademischem Background zusammen Sämtliche Beiträge basieren auf empirischen Analysen die zumeist ihren Schwerpunkt auf Gestaltungsprobleme aus der Unternehmenspraxis legen und beinhalten somit ein breites Spektrum an konkreten Fallbeispielen **Handbook of Research on Big Data Storage and Visualization Techniques** Segall, Richard S., Cook, Jeffrey S., 2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programming systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject **Planung und Reporting im BI-gestützten Controlling** Dietmar Schön, Maik Drozdzyński, 2025-08-13 Planungs und Reportingleistungen leiden in vielen Unternehmen immer noch unter mangelnder Datenqualität sind unzureichend integriert und häufig zeit und kostenintensiv Dieses praxisorientierte Buch zeigt Schritt für Schritt wie es anders geht Es wird systematisch gezeigt wie moderne Planungs und Reportingsysteme im BI gestützten Controlling mit dem Einsatz von Data Warehouse und Big Data Technologie aufgebaut und sinnvoll um KI gestützte Features ergänzt werden können **Datenmanagement und Datenanalyse** Peter Gluchowski, 2024-09-22 Derzeit wird kaum noch ernsthaft bestritten dass die Daten eines Unternehmens ein wichtiges Wirtschaftsgut darstellen und in erheblicher Weise zum Erfolg beitragen können Allerdings gilt es nicht nur den Wert der Daten zu erkennen sondern diese auch in den zugehörigen Geschäftsprozessen gewinnbringend einzusetzen Als zwingende Voraussetzung erweist sich dabei eine organisatorische und technische Basis zu etablieren die nachhaltig darauf ausgerichtet ist die fachlichen Ausgabenstellungen bestmöglich zu unterstützen Unter dem Oberbegriff Datenmanagement werden dazu diejenigen Führungs und Durchführungstätigkeiten diskutiert die einen tragfähigen Rahmen für den Umgang mit Daten in der Organisation aufspannen Daneben erweisen sich vor allem die Verfahren zur Auswertung und Analyse der verfügbaren Datenbestände als leistungsfähige Instrumente um langfristige Wettbewerbsvorteile zu erlangen Vor diesem Hintergrund widmet sich das vorliegende Buch den stetig an Bedeutung gewinnenden Themenfeldern Datenmanagement und Datenanalyse denen insbesondere im Rahmen der digitalen

Transformation eine große Bedeutung zukommt **Handbuch Digitale Geographien** Tabea Bork-Hüffer, Henning Füller, Till Straube, 2021-08-09 Wie beeinflussen digitale Daten gesellschaftliche Räume Wie prägen Technologien das Wissen über Räume Wie ändert sich geographische Forschung In diesem Handbuch für Studierende und Lehrende werden Konzepte Forschungsfragen und Methoden digitaler Geographien erläutert Dabei werden Beispiele aus der aktuellen Forschung herangezogen und Ausblicke auf künftige Herausforderungen gegeben Der Band bietet einen umfassenden Einstieg in die Problemstellungen die aus der Allgegenwart digitaler Geo-Daten resultieren Beiträge thematisieren den Einfluss digitaler Geo-Daten von individuellen Körpern bis hin zu globaler Entwicklungspolitik Sektion Welt reflektieren erkenntnistheoretische Effekte und Konsequenzen für die geographische Bildung Sektion Wissen und nehmen Anwendungsmöglichkeiten für eigene Forschung kritisch in den Blick Sektion Werkzeuge Insgesamt stellt der Band *Digitale Geographien* als eine reflexive Forschungspraxis vor Jeder Beitrag schließt daher mit einem beispielhaften Research Puzzle einer Veranschaulichung entlang eines praktischen Forschungsproblems **Web Services: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2018-12-07 Web service technologies are redefining the way that large and small companies are doing business and exchanging information Due to the critical need for furthering automation engagement and efficiency systems and workflows are becoming increasingly more web based *Web Services Concepts Methodologies Tools and Applications* is an innovative reference source that examines relevant theoretical frameworks current practice guidelines industry standards and standardization and the latest empirical research findings in web services Highlighting a range of topics such as cloud computing quality of service and semantic web this multi volume book is designed for computer engineers IT specialists software designers professionals researchers and upper level students interested in web services architecture frameworks and security **Solving Large Scale Learning Tasks. Challenges and Algorithms** Stefan Michaelis, Nico Piatkowski, Marco Stolpe, 2016-07-02 In celebration of Prof Morik's 60th birthday this Festschrift covers research areas that Prof Morik worked in and presents various researchers with whom she collaborated The 23 refereed articles in this Festschrift volume provide challenges and solutions from theoreticians and practitioners on data preprocessing modeling learning and evaluation Topics include data mining and machine learning algorithms feature selection and feature generation optimization as well as efficiency of energy and communication **Die komplexe Perspektive** Jörn Dinkla, 2016-04-06 Die Menschheit ist in der Informations und Wissensgesellschaft angekommen und ständig tauchen weitere Neuigkeiten am Horizont auf Das Internet der Dinge Big Data Data Science intelligente Roboter und selbstfahrende Autos mit künstlicher Intelligenz Wie soll man diese Technologien bewerten Welche Folgen werden sie haben Viele Menschen sind hier sehr skeptisch und fürchten dass die Arbeitsplätze die Privatsphäre und die Freiheit von diesen neuen Technologien bedroht werden Politiker nutzen diese längst wiederum aus um ihre politischen und wirtschaftlichen Interessen durchzusetzen wie die Diskussionen zur Regulierung des Internets zum Datenschutz zur Buchpreisbindung und

zur Scheinselbstständigkeit zeigen Aber die Gefahren lauern ganz woanders als die meisten vermuten Das Ziel dieses Buches ist das Grundwissen für die digitale Wirtschaft und Gesellschaft möglichst einfach zu vermitteln Das Buch richtet sich an alle und es werden keine speziellen Vorkenntnisse benötigt In diesem Buch erfährt man u.a. die folgenden Dinge Warum komplexe Systeme so schwierig zu kontrollieren sind Wie man Daten verarbeitet und mit Data Science wichtiges Wissen darin findet Warum die Künstliche Intelligenz noch lange nicht so intelligent wie Menschen ist Warum die Marktwirtschaft ein Informationssystem ist und warum Sozialismus nicht funktioniert Warum Wissen heute wichtiger ist als Kapital und wir nicht im Kapitalismus leben Warum die Informationstechnologie die Digitalisierung und Innovationen so wichtig sind Warum der Fortschritt immer schneller wird Warum die Politik vorsichtig bei einer Regulierung der IT sein muss Das Thema ist so umfangreich weil die Technik sehr viele Bereiche des Lebens beeinflusst Um die Grenzen der künstlichen Intelligenz zu verstehen muss man auch die Grenzen der menschlichen Intelligenz kennen Um die Gefährlichkeit einer falschen Regulierung einschätzen zu können muss man über Grundwissen der Wirtschaft verfügen Dazu behandelt dieses Buch viele unterschiedliche Bereiche Datenverarbeitung Data Science Künstliche Intelligenz die Digitalisierung komplexe Systeme die begrenzte Rationalität der Menschen Wirtschaftswissenschaften Globalisierung Wettbewerb Innovation die agentenbasierte Modellierung und ein wenig Politik Nach dem Lesen dieses Buchs kann man die Welt aus der Perspektive der komplexen Systeme betrachten und die Gefahren neu bewerten

Big Data Hrushikesh Mohanty, Prachet Bhuyan, Deepak Chenthati, 2015-06-29 This book is a collection of chapters written by experts on various aspects of big data The book aims to explain what big data is and how it is stored and used The book starts from the fundamentals and builds up from there It is intended to serve as a review of the state of the practice in the field of big data handling The traditional framework of relational databases can no longer provide appropriate solutions for handling big data and making it available and useful to users scattered around the globe The study of big data covers a wide range of issues including management of heterogeneous data big data frameworks change management finding patterns in data usage and evolution data as a service service generated data service management privacy and security All of these aspects are touched upon in this book It also discusses big data applications in different domains The book will prove useful to students researchers and practicing database and networking engineers

Handbuch IT-System- und Plattformmanagement Ernst Tiemeyer, 2020-12-07 Lernen Sie die Methoden Tools und Instrumente für ein erfolgreiches IT System und Plattformmanagement kennen Aktuelles Wissen und Praxis Tipps die Sie in Ihren Tätigkeitsbereichen umsetzen können Profiwissen für IT System und Plattformverantwortliche IT Architekten Applikationsmanager IT Servicemanager IT Projektmanager und CyberSecurity Experten Von 13 Experten aus Unternehmen Consulting Firmen und Hochschulen Ihr exklusiver Vorteil E Book inside beim Kauf des gedruckten Buches Ein effizientes und ganzheitliches Management der installierten IT Systeme Applikationen Datenbanken IT Infrastrukturen und IT Plattformen Cloud Daten Integration ist heute unverzichtbar Nur so lassen sich Gesch

itsprozesse optimal unterstützen und neue Geschäftspotenziale generieren Dieses Handbuch bietet das relevante Wissen für einen erfolgreichen Einsatz von IT Systemen in systematischer Form Darlegung der Methoden Instrumente und Prozesse Fragen der Planung und Weiterentwicklung der IT Systemlandschaft werden genauso behandelt wie Aspekte der Koordination Auftragsmanagement Systemsupport und der sicheren Steuerung der installierten IT Systeme Qualitätsmanagement Risiko und Sicherheitsmanagement Notfallplanung etc Viele Praxistipps und Beispiele helfen Ihnen IT Systeme und die Plattformnutzung zu planen und zu verwalten sowie deren stabilen Betrieb zu gewährleisten Neu in der 2. Auflage DevOps Applikationsentwicklung und Applikationsbetrieb Datenplattformen Integrationsplattformen und API Management AUS DEM INHALT IT Systeme und IT Plattformen planen und betreiben IT Architekturen und IT Assets Planung Dokumentation und Management der IT Systemlandschaft IT Systeme betreuen und Systemsupport leisten IT Infrastrukturen und IT Netzwerke managen IT Applikationen planen und den Einsatz steuern Handlungsfeld DevOps Cloud Services managen Enterprise Mobility Management MDM EMM Datenmanagement und Datenplattformen administrieren IT Integrationslösungen professionell managen API Management Beschaffung von IT Systemen und IT Plattformen Risikomanagement für IT Systeme Security Management und Notfallmanagement Organisations und Personalfragen für das Managen von IT Systemen Wirtschaftlichen Betrieb von IT Systemen und IT Plattformen managen

Modern Big Data Architectures Dominik Ryzko, 2020-04-09 Provides an up to date analysis of big data and multi agent systems The term Big Data refers to the cases where data sets are too large or too complex for traditional data processing software With the spread of new concepts such as Edge Computing or the Internet of Things production processing and consumption of this data becomes more and more distributed As a result applications increasingly require multiple agents that can work together A multi agent system MAS is a self organized computer system that comprises multiple intelligent agents interacting to solve problems that are beyond the capacities of individual agents Modern Big Data Architectures examines modern concepts and architecture for Big Data processing and analytics This unique up to date volume provides joint analysis of big data and multi agent systems with emphasis on distributed intelligent processing of very large data sets Each chapter contains practical examples and detailed solutions suitable for a wide variety of applications The author an internationally recognized expert in Big Data and distributed Artificial Intelligence demonstrates how basic concepts such as agent actor and micro service have reached a point of convergence enabling next generation systems to be built by incorporating the best aspects of the field This book Illustrates how data sets are produced and how they can be utilized in various areas of industry and science Explains how to apply common computational models and state of the art architectures to process Big Data tasks Discusses current and emerging Big Data applications of Artificial Intelligence Modern Big Data Architectures A Multi Agent Systems Perspective is a timely and important resource for data science professionals and students involved in Big Data analytics and machine and artificial learning

Innovations in Smart Cities Applications Volume 8 Mohamed Ben Ahmed, Boudhir Anouar

Abdelhakim,İsmail Rakıp Karaş,Kaoutar Ben Ahmed,2025-05-06 This book discovers the latest technological advances that are transforming our cities into smart and connected spaces This book presents cutting edge research and inspiring case studies on urban management smart mobility and environmental sustainability With an innovative approach it explores concrete solutions and future perspectives to improve the quality of urban life Intended for researchers professionals and decision makers this book is an essential resource to understand and participate in the transformation of smart cities

Multiple-Aspect Analysis of Semantic Trajectories Konstantinos Tserpes,Chiara Renso,Stan Matwin,2020-01-03 This open access book constitutes the refereed post conference proceedings of the First International Workshop on Multiple Aspect Analysis of Semantic Trajectories MASTER 2019 held in conjunction with the 19th European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2019 in W rzburg Germany in September 2019 The 8 full papers presented were carefully reviewed and selected from 12 submissions They represent an interesting mix of techniques to solve recurrent as well as new problems in the semantic trajectory domain such as data representation models data management systems machine learning approaches for anomaly detection and common pathways identification

Product-Focused Software Process Improvement Maurizio Morisio,Marco Torchiano,Andreas Jedlitschka,2020-11-20 This book constitutes the refereed proceedings of the 21st International Conference on Product Focused Software Process Improvement PROFES 2020 held in Turin Italy in November 2020 Due to COVID 19 pandemic the conference was held virtually The 19 revised full papers and 3 short papers presented were carefully reviewed and selected from 68 submissions The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs They are organized in topical sections on Agile Software Development

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Big Data Principles Practices Scalable Introduction

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