

Big Data

Principles and best practices of
scalable real-time data systems

Nathan Marz
James Warren



MANNING

Big Data Principles Practices Scalable

**Bhadoria, Robin Singh, Chaudhari,
Narendra, Tomar, Geetam Singh, Singh,
Shailendra**

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 funktionstchtigen Implementierung Ziel des Buches ist es Sie auf den Effekt und den Mehrwert der neuen M glichkeiten aufmerksam zu machen sodass Sie diese konstruktiv in Ihr Unternehmen tragen k nnen und f r sich und Ihre Kollegen somit ein Bewusstsein f r den Wert Ihrer Daten schaffen Die zweite Auflage erg nzt 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 erm glichen Ebenso werden die f r Firmen so wichtigen Themen Data Governance und Sicherheit behandelt Im Internet 18 fertige Beispiel Projekte auf Basis von Hadoop HBase Hive und D3.js plus Videotutorials EXTRA E Book inside

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

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 **Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm** Bhadoria, Robin Singh, Chaudhari, 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* Marion Steven, Timo Klünder, 2020-02-19 Big Data beschreibt das Ph nomen rasant wachsender Datenmengen 90 Prozent aller heute zur Verfügung stehenden Daten wurden in den vergangenen beiden Jahren gesammelt und gespeichert Die vielfach unstrukturierten Daten fließen in Data Lakes Pools oder Warehouses und werden durch intelligente Verknüpfung zu Informationen veredelt Schon heute wird Big Data zur Steuerung von Produktionsprozessen und Entwicklung neuer Geschäftsmodelle im produktionswirtschaftlichen Bereich angewandt Big Data hat durch die sich abzeichnende vierte Industrielle Revolution eine gesteigerte Wahrnehmung erfahren sodass es sich zu einem diffusen Containerbegriff entwickelt hat Vor diesem Hintergrund ordnet der Sammelband aus der Perspektive von Fachleuten das Ph nomen Big Data ein und stellt neben den technischen Voraussetzungen auch die betrieblichen Nutzungspotentiale vor *Handbook of Research on Big Data and the IoT* Kaur, Gurjit, Tomar, Pradeep, 2019-03-29 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 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 such as bootstrapping data fusion and graph mining this publication is ideally designed for IT specialists managers policymakers analysts software engineers academicians and researchers **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

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

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

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 Funktionen und Durchföhrungstätigkeiten 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.

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 Ängste 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 erföhrt 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 Geföhrlichkeit 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.

Semantic Applications

Thomas Hoppe, Bernhard Humm, Anatol Reibold, 2018-04-13 This book describes methodologies for developing semantic applications Semantic applications are software applications which explicitly or implicitly use the semantics i.e. the meaning of a domain terminology in order to improve usability correctness and completeness An example is semantic search where synonyms and related terms are used for enriching the results of a simple text based search Ontologies thesauri or controlled vocabularies are the centerpiece of semantic applications The book includes technological and architectural best practices for corporate use The authors are experts from industry and academia with experience in developing semantic applications

Thinking Big Data in Geography Jim Thatcher, 2018 Thinking Big Data in Geography offers a practical state of the field overview of big data as both a means and an object of research with essays from prominent and emerging scholars such as Rob Kitchin Renee Sieber and Mark Graham Part 1 explores how the advent of geoweb technologies and big data sets has influenced some of geography's major subdisciplines urban politics and political economy human environment interactions and geographic information sciences Part 2 addresses how the geographic study of big data has implications for other disciplinary fields notably the digital humanities and the study of social justice The volume concludes with theoretical applications of the geoweb and big data as they pertain to society as a whole examining the ways in which user generated data come into the world and are complicit in its unfolding The contributors raise caution regarding the use of spatial big data citing issues of accuracy surveillance and privacy

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

Innovations in Smart Cities Applications Edition 3 Mohamed Ben Ahmed, Anouar Abdelhakim Boudhir, Domingos Santos, Mohamed El Aroussi, İsmail Rakıp Karas, 2020-02-04 This book highlights original research and recent advances in various fields related to smart cities and their applications It gathers papers presented at the Fourth International Conference on Smart City Applications SCA19 held on October 2-4 2019 in Casablanca Morocco Bringing together contributions by prominent researchers from around the globe the book offers an invaluable instructional and research tool for courses on computer science electrical engineering and urban sciences It is also an excellent reference guide for professionals researchers and academics in the field of smart cities This book covers topics including Smart Citizenship Smart Education Digital Business and Smart Governance Smart Health Care New Generation of Networks and Systems for Smart Cities Smart Grids and Electrical Engineering Smart Mobility Smart Security Sustainable Building Sustainable Environment

The Digital Transformation of the Automotive Industry Uwe Winkelhake, 2021-10-20 Building on his decades of experience as a consultant and project

manager in the automotive industry the author develops comprehensive and pragmatic recommendations for action regarding the digital transformation of the automotive and supplier industries At the heart is the transition from a vehicle focused to a mobility oriented business model Based on the catalysts of the digital change four digitization fields are structured and a roadmap for their transformation is presented The topics of comprehensive change in corporate culture and an agile and efficient information technology are covered in detail as vital success factors Selected practical examples of innovative digitization projects provide additional ideas and impulses An outlook on the automotive industry in the year 2040 completes the discourse *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 **Challenges and Opportunities in the Digital Era** Salah A. Al-Sharhan,Antonis C.

Simintiras,Yogesh K. Dwivedi,Marijn Janssen,Matti Mäntymäki,Luay Tahat,Issam Moughrabi,Taher M. Ali,Nripendra P. Rana,2018-10-23 This book constitutes the refereed conference proceedings of the 17th IFIP WG 6.11 Conference on e Business e Services and e Society I3E 201 held in Kuwait City Kuwait in October November 2018 The 65 revised full papers presented were carefully reviewed and selected from 99 submissions Topics of interest include amongst others the following social media information systems marketing and communications management and operations public administration economics sociology and psychology e finance e banking and e accounting computer science and computer engineering and teaching and learning **Software Engineering for Variability Intensive Systems** Ivan Mistrik,Matthias Galster,Bruce

R. Maxim,2019-01-15 This book addresses the challenges in the software engineering of variability intensive systems Variability intensive systems can support different usage scenarios by accommodating different and unforeseen features and qualities The book features academic and industrial contributions that discuss the challenges in developing maintaining and evolving systems cloud and mobile services for variability intensive software systems and the scalability requirements they imply The book explores software engineering approaches that can efficiently deal with variability intensive systems as well as applications and use cases benefiting from variability intensive systems

Adopting the Track of Expression: An Emotional Symphony within **Big Data Principles Practices Scalable**

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