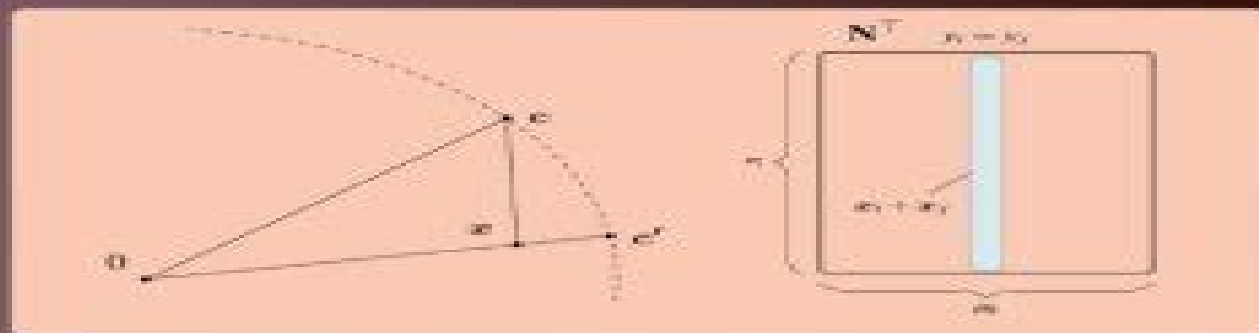# Dmitriy Lyubimov
Andrew Palumbo

Apache Mahout: Beyond MapReduce

Distributed Algorithm Design

Apache Mahout Beyond Mapreduce

Mrutyunjaya Panda,Ajith Abraham,Aboul Ella Hassanien

Apache Mahout Beyond Mapreduce :

   Apache Mahout Dmitriy Lyubimov,Andrew Palumbo,2016-02-18 Apache Mahout Beyond MapReduce Distributed algorithm design This book is about designing mathematical and Machine Learning algorithms using the Apache Mahout Samsara platform The material takes on best programming practices as well as conceptual approaches to attacking Machine Learning problems in big datasets Math is explained followed by code examples of distributed and in memory computations Written by Apache Mahout committers for people who want to learn how to design distributed math algorithms as well as how to use some of the new Mahout Samsara algorithms off the shelf The book covers Apache Mahout 0 10 and 0 11   *Big Data Analytics Beyond Hadoop* Vijay Srinivas Agneeswaran,2014-05-15 Master alternative Big Data technologies that can do what Hadoop can t real time analytics and iterative machine learning When most technical professionals think of Big Data analytics today they think of Hadoop But there are many cutting edge applications that Hadoop isn t well suited for especially real time analytics and contexts requiring the use of iterative machine learning algorithms Fortunately several powerful new technologies have been developed specifically for use cases such as these Big Data Analytics Beyond Hadoop is the first guide specifically designed to help you take the next steps beyond Hadoop Dr Vijay Srinivas Agneeswaran introduces the breakthrough Berkeley Data Analysis Stack BDAS in detail including its motivation design architecture Mesos cluster management performance and more He presents realistic use cases and up to date example code for Spark the next generation in memory computing technology from UC Berkeley Storm the parallel real time Big Data analytics technology from Twitter GraphLab the next generation graph processing paradigm from CMU and the University of Washington with comparisons to alternatives such as Pregel and Piccolo Halo also offers architectural and design guidance and code sketches for scaling machine learning algorithms to Big Data and then realizing them in real time He concludes by previewing emerging trends including real time video analytics SDNs and even Big Data governance security and privacy issues He identifies intriguing startups and new research possibilities including BDAS extensions and cutting edge model driven analytics Big Data Analytics Beyond Hadoop is an indispensable resource for everyone who wants to reach the cutting edge of Big Data analytics and stay there practitioners architects programmers data scientists researchers startup entrepreneurs and advanced students   Resilience in the Digital Age Fred S. Roberts,Igor A. Sheremet,2021-02-19 The growth of a global digital economy has enabled rapid communication instantaneous movement of funds and availability of vast amounts of information With this come challenges such as the vulnerability of digitalized sociotechnological systems STSs to destructive events earthquakes disease events terrorist attacks Similar issues arise for disruptions to complex linked natural and social systems from changing climates evolving urban environments etc This book explores new approaches to the resilience of sociotechnological and natural social systems in a digital world of big data extraordinary computing capacity and rapidly developing methods of Artificial Intelligence Most of the book s papers were presented at the Workshop on Big Data and

Systems Analysis held at the International Institute for Applied Systems Analysis in Laxenburg Austria in February 2020 Their authors are associated with the Task Group Advanced mathematical tools for data driven applied systems analysis created and sponsored by CODATA in November 2018 The world wide COVID 19 pandemic illustrates the vulnerability of our healthcare systems supply chains and social infrastructure and confronts our notions of what makes a system resilient We have found that use of AI tools can lead to problems when unexpected events occur On the other hand the vast amounts of data available from sensors satellite images social media etc can also be used to make modern systems more resilient Papers in the book explore disruptions of complex networks and algorithms that minimize departure from a previous state after a disruption introduce a multigrammatical framework for the technological and resource bases of today s large scale industrial systems and the transformations resulting from disruptive events and explain how robotics can enhance pre emptive measures or post disaster responses to increase resiliency Other papers explore current directions in data processing and handling and principles of FAIRness in data how the availability of large amounts of data can aid in the development of resilient STSs and challenges to overcome in doing so The book also addresses interactions between humans and built environments focusing on how AI can inform today s smart and connected buildings and make them resilient and how AI tools can increase resilience to misinformation and its dissemination   <u>Machine Learning</u> Hamed Farhadi,2018-09-19 The volume of data that is generated stored and communicated across different industrial sections business units and scientific research communities has been rapidly expanding The recent developments in cellular telecommunications and distributed parallel computation technology have enabled real time collection and processing of the generated data across different sections On the one hand the internet of things IoT enabled by cellular telecommunication industry connects various types of sensors that can collect heterogeneous data On the other hand the recent advances in computational capabilities such as parallel processing in graphical processing units GPUs and distributed processing over cloud computing clusters enabled the processing of a vast amount of data There has been a vital need to discover important patterns and infer trends from a large volume of data so called Big Data to empower data driven decision making processes Tools and techniques have been developed in machine learning to draw insightful conclusions from available data in a structured and automated fashion Machine learning algorithms are based on concepts and tools developed in several fields including statistics artificial intelligence information theory cognitive science and control theory The recent advances in machine learning have had a broad range of applications in different scientific disciplines This book covers recent advances of machine learning techniques in a broad range of applications in smart cities automated industry and emerging businesses   *Apache Mahout Essentials* Jayani Withanawasam,2015-06-19 Apache Mahout is a scalable machine learning library with algorithms for clustering classification and recommendations It empowers users to analyze patterns in large diverse and complex datasets faster and more scalably This book is an all inclusive guide to analyzing large and complex datasets using Apache Mahout It

explains complicated but very effective machine learning algorithms simply in relation to real world practical examples Starting from the fundamental concepts of machine learning and Apache Mahout this book guides you through Apache Mahout s implementations of machine learning techniques including classification clustering and recommendations During this exciting walkthrough real world applications a diverse range of popular algorithms and their implementations code examples evaluation strategies and best practices are given for each technique Finally you will learn vdata visualization techniques for Apache Mahout to bring your data to life **Learning from Imbalanced Data Sets** Alberto Fernández,Salvador García,Mikel Galar,Ronaldo C. Prati,Bartosz Krawczyk,Francisco Herrera,2018-10-22 This book provides a general and comprehensible overview of imbalanced learning It contains a formal description of a problem and focuses on its main features and the most relevant proposed solutions Additionally it considers the different scenarios in Data Science for which the imbalanced classification can create a real challenge This book stresses the gap with standard classification tasks by reviewing the case studies and ad hoc performance metrics that are applied in this area It also covers the different approaches that have been traditionally applied to address the binary skewed class distribution Specifically it reviews cost sensitive learning data level preprocessing methods and algorithm level solutions taking also into account those ensemble learning solutions that embed any of the former alternatives Furthermore it focuses on the extension of the problem for multi class problems where the former classical methods are no longer to be applied in a straightforward way This book also focuses on the data intrinsic characteristics that are the main causes which added to the uneven class distribution truly hinders the performance of classification algorithms in this scenario Then some notes on data reduction are provided in order to understand the advantages related to the use of this type of approaches Finally this book introduces some novel areas of study that are gathering a deeper attention on the imbalanced data issue Specifically it considers the classification of data streams non classical classification problems and the scalability related to Big Data Examples of software libraries and modules to address imbalanced classification are provided This book is highly suitable for technical professionals senior undergraduate and graduate students in the areas of data science computer science and engineering It will also be useful for scientists and researchers to gain insight on the current developments in this area of study as well as future research directions **Big Data Analytics** Mrutyunjaya Panda,Ajith Abraham,Aboul Ella Hassanien,2018-12-12 Social networking has increased drastically in recent years resulting in an increased amount of data being created daily Furthermore diversity of issues and complexity of the social networks pose a challenge in social network mining Traditional algorithm software cannot deal with such complex and vast amounts of data necessitating the development of novel analytic approaches and tools This reference work deals with social network aspects of big data analytics It covers theory practices and challenges in social networking The book spans numerous disciplines like neural networking deep learning artificial intelligence visualization e learning in higher education e healthcare security and intrusion detection *Handbook of e-Tourism* Zheng

Xiang,Matthias Fuchs,Ulrike Gretzel,Wolfram Höpken,2022-09-01 This handbook provides an authoritative and truly comprehensive overview both of the diverse applications of information and communication technologies ICTs within the travel and tourism industry and of e tourism as a field of scientific inquiry that has grown and matured beyond recognition Leading experts from around the world describe cutting edge ideas and developments present key concepts and theories and discuss the full range of research methods The coverage accordingly encompasses everything from big data and analytics to psychology user behavior online marketing supply chain and operations management smart business networks policy and regulatory issues and much much more The goal is to provide an outstanding reference that summarizes and synthesizes current knowledge and establishes the theoretical and methodological foundations for further study of the role of ICTs in travel and tourism The handbook will meet the needs of researchers and students in various disciplines as well as industry professionals As with all volumes in Springer s Major Reference Works program readers will benefit from access to a continually updated online version **Kubeflow for Machine Learning** Trevor Grant,Holden Karau,Boris Lublinsky,Richard Liu,Ilan Filonenko,2020-10-13 If you re training a machine learning model but aren t sure how to put it into production this book will get you there Kubeflow provides a collection of cloud native tools for different stages of a model s lifecycle from data exploration feature preparation and model training to model serving This guide helps data scientists build production grade machine learning implementations with Kubeflow and shows data engineers how to make models scalable and reliable Using examples throughout the book authors Holden Karau Trevor Grant Ilan Filonenko Richard Liu and Boris Lublinsky explain how to use Kubeflow to train and serve your machine learning models on top of Kubernetes in the cloud or in a development environment on premises Understand Kubeflow s design core components and the problems it solves Understand the differences between Kubeflow on different cluster types Train models using Kubeflow with popular tools including Scikit learn TensorFlow and Apache Spark Keep your model up to date with Kubeflow Pipelines Understand how to capture model training metadata Explore how to extend Kubeflow with additional open source tools Use hyperparameter tuning for training Learn how to serve your model in production **Big Data Analytics and Knowledge Discovery** Min Song,Il-Yeol Song,Gabriele Kotsis,A Min Tjoa,Ismail Khalil,2020-09-10 The volume LNCS 12393 constitutes the papers of the 22nd International Conference Big Data Analytics and Knowledge Discovery which will be held online in September 2020 The 15 full papers presented together with 14 short papers plus 1 position paper in this volume were carefully reviewed and selected from a total of 77 submissions This volume offers a wide range to following subjects on theoretical and practical aspects of big data analytics and knowledge discovery as a new generation of big data repository data pre processing data mining text mining sequences graph mining and parallel processing *Data Communication and Networks* Lakhmi C. Jain,George A. Tsihrintzis,Valentina E. Balas,Dilip Kumar Sharma,2019-10-25 This book gathers selected high quality papers presented at the International Conference on Computing Power and Communication Technologies 2019

GUCON 2019 organized by Galgotias University India in September 2019 The content is divided into three sections data mining and big data analysis communication technologies and cloud computing and computer networks In depth discussions of various issues within these broad areas provide an intriguing and insightful reference guide for researchers engineers and students alike **Handbook of Big Data Technologies** Albert Y. Zomaya,Sherif Sakr,2017-02-25 This handbook offers comprehensive coverage of recent advancements in Big Data technologies and related paradigms Chapters are authored by international leading experts in the field and have been reviewed and revised for maximum reader value The volume consists of twenty five chapters organized into four main parts Part one covers the fundamental concepts of Big Data technologies including data curation mechanisms data models storage models programming models and programming platforms It also dives into the details of implementing Big SQL query engines and big stream processing systems Part Two focuses on the semantic aspects of Big Data management including data integration and exploratory ad hoc analysis in addition to structured querying and pattern matching techniques Part Three presents a comprehensive overview of large scale graph processing It covers the most recent research in large scale graph processing platforms introducing several scalable graph querying and mining mechanisms in domains such as social networks Part Four details novel applications that have been made possible by the rapid emergence of Big Data technologies such as Internet of Things IOT Cognitive Computing and SCADA Systems All parts of the book discuss open research problems including potential opportunities that have arisen from the rapid progress of Big Data technologies and the associated increasing requirements of application domains Designed for researchers IT professionals and graduate students this book is a timely contribution to the growing Big Data field Big Data has been recognized as one of leading emerging technologies that will have a major contribution and impact on the various fields of science and varies aspect of the human society over the coming decades Therefore the content in this book will be an essential tool to help readers understand the development and future of the field *Machine Learning and the Internet of Medical Things in Healthcare* Krishna Kant Singh,Mohamed Elhoseny,Akansha Singh,Ahmed A. Elngar,2021-04-14 Machine Learning and the Internet of Medical Things in Healthcare discusses the applications and challenges of machine learning for healthcare applications The book provides a platform for presenting machine learning enabled healthcare techniques and offers a mathematical and conceptual background of the latest technology It describes machine learning techniques along with the emerging platform of the Internet of Medical Things used by practitioners and researchers worldwide The book includes deep feed forward networks regularization optimization algorithms convolutional networks sequence modeling and practical methodology It also presents the concepts of the Internet of Things the set of technologies that develops traditional devices into smart devices Finally the book offers research perspectives covering the convergence of machine learning and IoT It also presents the application of these technologies in the development of healthcare frameworks Provides an introduction to the Internet of Medical Things through the principles and applications of machine

learning Explains the functions and applications of machine learning in various applications such as ultrasound imaging biomedical signal processing robotics and biomechatronics Includes coverage of the evolution of healthcare applications with machine learning including Clinical Decision Support Systems artificial intelligence in biomedical engineering and AI enabled connected health informatics supported by real world case studies *Handbook of Research on Engineering Education in a Global Context* Smirnova, Elena V.,Clark, Robin P.,2018-08-31 Engineering education methods and standards are important features of engineering programs that should be carefully designed both to provide students and stakeholders with valuable active integrated learning experiences and to provide a vehicle for assessing program outcomes With the driving force of the globalization of the engineering profession standards should be developed for mutual recognition of engineering education across the world but it is proving difficult to achieve The Handbook of Research on Engineering Education in a Global Context provides innovative insights into the importance of quality training and preparation for engineering students It explores the common and current problems encountered in areas such as quality and standards management information systems innovation and enhanced learning technologies in education as well as the challenges of employability entrepreneurship and diversity This publication is vital reference source for science and engineering educators engineering professionals and educational administrators interested in topics centered on the education of students in the field of engineering   Big Data, Big Challenges: A Healthcare Perspective Mowafa Househ,Andre W. Kushniruk,Elizabeth M. Borycki,2019-02-26 This is the first book to offer a comprehensive yet concise overview of the challenges and opportunities presented by the use of big data in healthcare The respective chapters address a range of aspects from health management to patient safety from the human factor perspective to ethical and economic considerations and many more By providing a historical background on the use of big data and critically analyzing current approaches together with issues and challenges related to their applications the book not only sheds light on the problems entailed by big data but also paves the way for possible solutions and future research directions Accordingly it offers an insightful reference guide for health information technology professionals healthcare managers healthcare practitioners and patients alike aiding them in their decision making processes and for students and researchers whose work involves data science related research issues in healthcare

Managing and Processing Big Data in Cloud Computing Kannan, Rajkumar,2016-01-07 Big data has presented a number of opportunities across industries With these opportunities come a number of challenges associated with handling analyzing and storing large data sets One solution to this challenge is cloud computing which supports a massive storage and computation facility in order to accommodate big data processing Managing and Processing Big Data in Cloud Computing explores the challenges of supporting big data processing and cloud based platforms as a proposed solution Emphasizing a number of crucial topics such as data analytics wireless networks mobile clouds and machine learning this publication meets the research needs of data analysts IT professionals researchers graduate students and educators in the areas of data science

computer programming and IT development   **Professional Hadoop Solutions** Boris Lublinsky,Kevin T. Smith,Alexey Yakubovich,2013-09-12 The go to guidebook for deploying Big Data solutions with Hadoop Today s enterprise architects need to understand how the Hadoop frameworks and APIs fit together and how they can be integrated to deliver real world solutions This book is a practical detailed guide to building and implementing those solutions with code level instruction in the popular Wrox tradition It covers storing data with HDFS and Hbase processing data with MapReduce and automating data processing with Oozie Hadoop security running Hadoop with Amazon Web Services best practices and automating Hadoop processes in real time are also covered in depth With in depth code examples in Java and XML and the latest on recent additions to the Hadoop ecosystem this complete resource also covers the use of APIs exposing their inner workings and allowing architects and developers to better leverage and customize them The ultimate guide for developers designers and architects who need to build and deploy Hadoop applications Covers storing and processing data with various technologies automating data processing Hadoop security and delivering real time solutions Includes detailed real world examples and code level guidelines Explains when why and how to use these tools effectively Written by a team of Hadoop experts in the programmer to programmer Wrox style Professional Hadoop Solutions is the reference enterprise architects and developers need to maximize the power of Hadoop   **Intelligence in Big Data Technologies—Beyond the Hype** J. Dinesh Peter,Steven L. Fernandes,Amir H. Alavi,2020-07-25 This book is a compendium of the proceedings of the International Conference on Big Data and Cloud Computing The papers discuss the recent advances in the areas of big data analytics data analytics in cloud smart cities and grid etc This volume primarily focuses on the application of knowledge which promotes ideas for solving problems of the society through cutting edge big data technologies The essays featured in this proceeding provide novel ideas that contribute for the growth of world class research and development It will be useful to researchers in the area of advanced engineering sciences   **Software Reuse for Dynamic Systems in the Cloud and Beyond** Ina Schaefer,Ioannis Stamelos,2014-12-22 This book constitutes the refereed proceedings of the 14th International Conference on Software Reuse for Dynamic Systems in the Cloud and Beyond ICSR 2015 held in Miami FL USA in January 2015 The 21 revised full papers presented together with 3 revised short papers were carefully reviewed and selected from 60 submissions The papers cover several software engineering areas where software reuse is important such as software product lines domain analysis open source components cloud quality   Big Data and Hadoop VK Jain,2017-01-01 This book introduces you to the Big Data processing techniques addressing but not limited to various BI business intelligence requirements such as reporting batch analytics online analytical processing OLAP data mining and Warehousing and predictive analytics The book has been written on IBMs Platform of Hadoop framework IBM Infosphere BigInsight has the highest amount of tutorial matter available free of cost on Internet which makes it easy to acquire proficiency in this technique This therefore becomes highly vunerable coaching materials in easy to learn steps The book optimally provides the

courseware as per MCA and M Tech Level Syllabi of most of the Universities All components of big Data Platform like Jaql Hive Pig Sqoop Flume Hadoop Streaming Oozie HBase HDFS FlumeNG Whirr Cloudera Fuse Zookeeper and Mahout Machine learning for Hadoop has been discussed in sufficient Detail with hands on Exercises on each

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Apache Mahout Beyond Mapreduce Introduction

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