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Big Data Fundamentals Computer Science

Jules J. Berman



Big Data Fundamentals Computer Science:

Managing Big Data in Cloud Computing Environments Ma, Zongmin, 2016-02-02 Cloud computing has proven to be a successful paradigm of service oriented computing and has revolutionized the way computing infrastructures are abstracted and used. By means of cloud computing technology massive data can be managed effectively and efficiently to support various aspects of problem solving and decision making. *Managing Big Data in Cloud Computing Environments* explores the latest advancements in the area of data management and analysis in the cloud. Providing timely research based information relating to data storage sharing extraction and indexing in cloud systems this publication is an ideal reference source for graduate students IT specialists researchers and professionals working in the areas of data and knowledge engineering. Distributed Computing in Big Data Analytics Sourav Mazumder, Robin Singh Bhadoria, Ganesh Chandra Deka, 2017-08-29 Big data technologies are used to achieve any type of analytics in a fast and predictable way thus enabling better human and machine level decision making. Principles of distributed computing are the keys to big data technologies and analytics. The mechanisms related to data storage data access data transfer visualization and predictive modeling using distributed processing in multiple low cost machines are the key considerations that make big data analytics possible within stipulated cost and time practical for consumption by human and machines. However the current literature available in big data analytics needs a holistic perspective to highlight the relation between big data analytics and distributed processing for ease of understanding and practitioner use. This book fills the literature gap by addressing key aspects of distributed processing in big data analytics. The chapters tackle the essential concepts and patterns of distributed computing widely used in big data analytics. This book discusses also covers the main technologies which support distributed processing. Finally this book provides insight into applications of big data analytics highlighting how principles of distributed computing are used in those situations. Practitioners and researchers alike will find this book a valuable tool for their work helping them to select the appropriate technologies while understanding the inherent strengths and drawbacks of those technologies. **Handbook of Research on Data Science and Cybersecurity Innovations in Industry 4.0 Technologies** Murugan, Thangavel, E., Nirmala, 2023-09-21 Disruptive innovations are now propelling Industry 4.0 and presenting new opportunities for value generation in all major industry segments. Industry 4.0 technologies innovations in cybersecurity and data science provide smart apps and services with accurate real time monitoring and control. Through enhanced access to real time information it also aims to increase overall effectiveness lower costs and increase the efficiency of people processes and technology. The Handbook of Research on Data Science and Cybersecurity Innovations in Industry 4.0 Technologies discusses the technological foundations of cybersecurity and data science within the scope of the Industry 4.0 landscape and details the existing cybersecurity and data science innovations with Industry 4.0 applications as well as state of the art solutions with regard to both academic research and practical implementations. Covering key topics such as data science blockchain and artificial intelligence this premier

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Big Data and Decision-Making Anna Visvizi, Orlando Troisi, Mara Grimaldi, 2023-01-30 Big Data and Decision Making Applications and Uses in the Public and Private Sector breaks down the concept of big data to reveal how it has become integrated into the fabric of both public and private domains as well as how its value can ultimately be exploited

Fundamentals Of AI And Deep Learning Dr. S. Rajakumaran, 2023-11-09 The brain has an inherent advantage over traditional computers in that it possesses the ability to acquire knowledge and skills via the process of learning Nevertheless the edge is being swiftly eradicated by a new cohort of artificial intelligence programs known as deep neural networks The primary objective of this book is to assist readers in comprehending fundamental principles before progressing towards refining their programming abilities ultimately enabling them to become proficient practitioners in the field of deep learning The book covers fundamental principles in deep learning exploring various deep learning designs such as recurrent neural networks Additionally it delves into contemporary advancements such as generative adversarial networks The book serves as a comprehensive manual for the implementation of deep neural networks including several architectures such as Multilayer Perceptrons MLPs Convolutional Neural Networks CNNs Long Short Term Memory networks LSTMs and others inside the frameworks of Keras and TensorFlow This book aims to serve as a concise resource for training and optimising deep neural networks The book encompasses the foundational principles of neural networks as well as the training methods used in deep neural networks The book is highly recommended for students seeking a comprehensive reference manual on deep learning as well as industry practitioners from many disciplines who want to embark on their data science endeavours

Data Science for Undergraduates National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Division on Engineering and Physical Sciences, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences and Analytics, Computer Science and Telecommunications Board, Committee on Envisioning the Data Science Discipline: The Undergraduate Perspective, 2018-10-11 Data science is emerging as a field that is revolutionizing science and industries alike Work across nearly all domains is becoming more data driven affecting both the jobs that are available and the skills that are required As more data and ways of analyzing them become available more

aspects of the economy society and daily life will become dependent on data It is imperative that educators administrators and students begin today to consider how to best prepare for and keep pace with this data driven era of tomorrow Undergraduate teaching in particular offers a critical link in offering more data science exposure to students and expanding the supply of data science talent Data Science for Undergraduates Opportunities and Options offers a vision for the emerging discipline of data science at the undergraduate level This report outlines some considerations and approaches for academic institutions and others in the broader data science communities to help guide the ongoing transformation of this field

Computer Science and Education Wenxing Hong,Yang Weng,2023-06-16 This three volume set constitutes selected papers presented during the 17th International Conference on Computer Science and Education ICCSE 2022 held in Ningbo China in August 2022 The 168 full papers and 43 short papers presented were thoroughly reviewed and selected from the 510 submissions They focus on a wide range of computer science topics especially AI data science and engineering and technology based education by addressing frontier technical and business issues essential to the applications of data science in both higher education and advancing e Society

Big Data Analytics Soraya Sedkaoui,Mounia Khelfaoui,Nadjat Kadi,2021-07-04 This volume explores the diverse applications of advanced tools and technologies of the emerging field of big data and their evidential value in business It examines the role of analytics tools and methods of using big data in strengthening businesses to meet today s information challenges and shows how businesses can adapt big data for effective businesses practices This volume shows how big data and the use of data analytics is being effectively adopted more frequently especially in companies that are looking for new methods to develop smarter capabilities and tackle challenges in dynamic processes Many illustrative case studies are presented that highlight how companies in every sector are now focusing on harnessing data to create a new way of doing business

Engineering Mathematics and Artificial Intelligence Herb Kunze,Davide La Torre,Adam Riccoboni,Manuel Ruiz Galán,2023-07-26 The fields of Artificial Intelligence AI and Machine Learning ML have grown dramatically in recent years with an increasingly impressive spectrum of successful applications This book represents a key reference for anybody interested in the intersection between mathematics and AI ML and provides an overview of the current research streams Engineering Mathematics and Artificial Intelligence Foundations Methods and Applications discusses the theory behind ML and shows how mathematics can be used in AI The book illustrates how to improve existing algorithms by using advanced mathematics and offers cutting edge AI technologies The book goes on to discuss how ML can support mathematical modeling and how to simulate data by using artificial neural networks Future integration between ML and complex mathematical techniques is also highlighted within the book This book is written for researchers practitioners engineers and AI consultants

Examining Cloud Computing Technologies Through the Internet of Things Tomar, Pradeep,Kaur, Gurjit,2017-11-30 The progressive combination of cloud computing and Internet of Things IoT will enable new monitoring services create powerful processing of sensory data streams and provide a new method for

intelligent perception and connection Examining Cloud Computing Technologies Through the Internet of Things is a pivotal reference source for scholarly research on the latest and innovative facets of cloud based Internet of Things systems including technical evaluations and comparisons of existing concepts Featuring coverage on a broad range of topics such as fog computing network programming and data security this book is geared towards advanced level students researchers and professionals interested in exploring and implementing the IoT and related technologies *My Revision Notes AQA A-Level Computer Science* Bob Reeves,2016-05-23 Exam Board AQA Level AS A level Subject Computer Science First Teaching September 2015 First Exam June 2016 With My Revision Notes you can Take control of your revision plan and focus on the areas where you need to improve your knowledge and understanding with advice summaries and notes from expert authors Achieve your potential by applying computing terms accurately with the help of definitions and key words on all topics Improve your exam skills by tackling exam style and self testing questions *Predictive Intelligence Using Big Data and the Internet of Things* Gupta, P.K.,Ören, Tuncer,Singh, Mayank,2018-12-28 With the recent growth of big data and the internet of things IoT individuals can now upload retrieve store and collect massive amounts of information to help drive decisions and optimize processes Due to this a new age of predictive computing is taking place and data can now be harnessed to predict unknown occurrences or probabilities based on data collected in real time Predictive Intelligence Using Big Data and the Internet of Things highlights state of the art research on predictive intelligence using big data the IoT and related areas to ensure quality assurance and compatible IoT systems Featuring coverage on predictive application scenarios to discuss these breakthroughs in real world settings and various methods frameworks algorithms and security concerns for predictive intelligence this book is ideally designed for academicians researchers advanced level students and technology developers

Principles of Big Data Jules J. Berman,2013-05-20 Principles of Big Data helps readers avoid the common mistakes that endanger all Big Data projects By stressing simple fundamental concepts this book teaches readers how to organize large volumes of complex data and how to achieve data permanence when the content of the data is constantly changing General methods for data verification and validation as specifically applied to Big Data resources are stressed throughout the book The book demonstrates how adept analysts can find relationships among data objects held in disparate Big Data resources when the data objects are endowed with semantic support i e organized in classes of uniquely identified data objects Readers will learn how their data can be integrated with data from other resources and how the data extracted from Big Data resources can be used for purposes beyond those imagined by the data creators Learn general methods for specifying Big Data in a way that is understandable to humans and to computers Avoid the pitfalls in Big Data design and analysis Understand how to create and use Big Data safely and responsibly with a set of laws regulations and ethical standards that apply to the acquisition distribution and integration of Big Data resources KEYCIT 2014 Brinda, Torsten,Reynolds, Nicholas,Romeike, Ralf,Schwill, Andreas,2015-10-20 In our rapidly changing world it is increasingly important not only to be

an expert in a chosen field of study but also to be able to respond to developments master new approaches to solving problems and fulfil changing requirements in the modern world and in the job market In response to these needs key competencies in understanding developing and using new digital technologies are being brought into focus in school and university programmes The IFIP TC3 conference KEYCIT Key Competences in Informatics and ICT KEYCIT 2014 was held at the University of Potsdam in Germany from July 1st to 4th 2014 and addressed the combination of key competencies Informatics and ICT in detail The conference was organized into strands focusing on secondary education university education and teacher education organized by IFIP WGs 3.1 and 3.3 and provided a forum to present and to discuss research case studies positions and national perspectives in this field

The SAGE Handbook of Online Research Methods Nigel G Fielding, Raymond M Lee, Grant Blank, 2016-09-30 Online research methods are popular dynamic and fast changing Following on from the great success of the first edition published in 2008 The SAGE Handbook of Online Research Methods Second Edition offers both updates of existing subject areas and new chapters covering more recent developments such as social media big data data visualization and CAQDAS Bringing together the leading names in both qualitative and quantitative online research this new edition is organised into nine sections 1 Online Research Methods 2 Designing Online Research 3 Online Data Capture and Data Collection 4 The Online Survey 5 Digital Quantitative Analysis 6 Digital Text Analysis 7 Virtual Ethnography 8 Online Secondary Analysis Resources and Methods 9 The Future of Online Social Research The SAGE Handbook of Online Research Methods Second Edition is an essential resource for anyone interested in the contemporary practice of computer mediated research and scholarship

The Routledge Companion to Digital Journalism Studies Bob Franklin, Scott Eldridge II, 2016-11-18 The Routledge Companion to Digital Journalism Studies offers an unprecedented collection of essays addressing the key issues and debates shaping the field of Digital Journalism Studies today Across the last decade journalism has undergone many changes which have driven scholars to reassess its most fundamental questions and in the face of digital change to ask again Who is a journalist and What is journalism This companion explores a developing scholarly agenda committed to understanding digital journalism and brings together the work of key scholars seeking to address key theoretical concerns and solve unique methodological riddles Compiled of 58 original essays from distinguished academics across the globe this Companion draws together the work of those making sense of this fundamental reconceptualization of journalism and assesses its impacts on journalism's products its practices resources and its relationship with audiences It also outlines the challenge presented by studying digital journalism and more importantly offers a first set of answers This collection is the very first of its kind to attempt to distinguish this emerging field as a unique area of academic inquiry Through identifying its core questions and presenting its fundamental debates this Companion sets the agenda for years to come in defining this new field of study as Digital Journalism Studies making it an essential point of reference for students and scholars of journalism

The Impact of Artificial Intelligence on Governance, Economics

and Finance, Volume I Sezer Bozkuş Kahyaoğlu,2021-04-26 The book discusses the effects of artificial intelligence in terms of economics and finance In particular the book focuses on the effects of the change in the structure of financial markets institutions and central banks along with digitalization analyzed based on fintech ecosystems In addition to finance sectors other sectors such as health logistics and industry 4 0 all of which are undergoing an artificial intelligence induced rapid transformation are addressed in this book Readers will receive an understanding of an integrated approach towards the use of artificial intelligence across various industries and disciplines with a vision to address the strategic issues and priorities in the dynamic business environment in order to facilitate decision making processes Economists board members of central banks bankers financial analysts regulatory authorities accounting and finance professionals chief executive officers chief audit officers and chief financial officers chief financial officers as well as business and management academic researchers will benefit from reading this book

Sublinear Algorithms for Big Data Applications Dan Wang,Zhu Han,2015-07-16 The brief focuses on applying sublinear algorithms to manage critical big data challenges The text offers an essential introduction to sublinear algorithms explaining why they are vital to large scale data systems It also demonstrates how to apply sublinear algorithms to three familiar big data applications wireless sensor networks big data processing in Map Reduce and smart grids These applications present common experiences bridging the theoretical advances of sublinear algorithms and the application domain Sublinear Algorithms for Big Data Applications is suitable for researchers engineers and graduate students in the computer science communications and signal processing communities

Innovations, Algorithms, and Applications in Cognitive Informatics and Natural Intelligence Chui, Kwok Tai,Lytras, Miltiadis D.,Liu, Ryan Wen,Zhao, Mingbo,2020-01-03 While cognitive informatics and natural intelligence are receiving greater attention by researchers multidisciplinary approaches still struggle with fundamental problems involving psychology and neurobiological processes of the brain Examining the difficulties of certain approaches using the tools already available is vital for propelling knowledge forward and making further strides Innovations Algorithms and Applications in Cognitive Informatics and Natural Intelligence is a collection of innovative research that examines the enhancement of human cognitive performance using emerging technologies Featuring research on topics such as parallel computing neuroscience and signal processing this book is ideally designed for engineers computer scientists programmers academicians researchers and students

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