

Hadoop Application Architectures Designing Real World Big Data Applications

Big Data Analytics for Sensor-Network Collected Intelligence Application of Big Data, Blockchain, and Internet of Things for Education Informatization Advancing Big Data Benchmarks Insights in Regulatory Science: 2021 Performance Characterization and Benchmarking. Traditional to Big Data Handbook of Big Data Technologies Big Data Processing Using Spark in Cloud Modern Music-Inspired Optimization Algorithms for Electric Power Systems From Bits to Qubits: The Quantum Transformation of Computing The True Life Annual Record of the Ancient and Honorable Artillery Company of Massachussets The Wide World Magazine 101 Great Mail-order Businesses Swine World Brands and Their Companies The Sketch The Public The Country Gentleman Gilcrease Journal The Bookman Hui-Huang Hsu Mian Ahmad Jan Tilmann Rabl Bruno Sepodes Raghunath Nambiar Albert Y. Zomaya Mamta Mittal Mohammad Kiani-Moghaddam Shruti Sharma Ancient and Honorable Artillery Company of Massachusetts Tyler Gregory Hicks

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big data analytics for sensor network collected intelligence explores state of the art methods for using advanced ict technologies to perform intelligent analysis on sensor collected data the book shows how to develop systems that automatically detect natural and human made events how to examine people s behaviors and how to unobtrusively provide better services it begins by exploring big data architecture and platforms covering the cloud computing infrastructure and how data is stored and visualized the book then explores how big data is processed and managed the key security and privacy issues involved and the approaches used to ensure data quality in addition readers will find a thorough examination of big data analytics analyzing statistical methods for data analytics and data mining along with a detailed look at big data intelligence ubiquitous and mobile computing and designing intelligence system based on context and situation indexing the books of this series are submitted to ei compendex and scopus contains contributions from noted scholars in computer science and electrical engineering from around the globe provides a broad overview of recent developments in sensor collected intelligence edited by a team comprised of leading thinkers in big data analytics

the three volume set lnicst 465 466 and 467 constitutes the proceedings of the second eai international conference on application of big data blockchain and internet of things for education informatization bigiot edu 2022 held as virtual event in july 29 31 2022 the 204 papers presented in the proceedings were carefully reviewed and selected from

550 submissions bigiot edu aims to provide international cooperation and exchange platform for big data and information education experts scholars and enterprise developers to share research results discuss existing problems and challenges and explore cutting edge science and technology the conference focuses on research fields such as big data and information education the use of artificial intelligence ai blockchain and network security lies at the heart of this conference as we focused on these emerging technologies to excel the progress of big data and information education

this book constitutes the thoroughly refereed joint proceedings of the third and fourth workshop on big data benchmarking the third wbdb was held in xi an china in july 2013 and the fourth wbdb was held in san josé ca usa in october 2013 the 15 papers presented in this book were carefully reviewed and selected from 33 presentations they focus on big data benchmarks applications and scenarios tools systems and surveys

this book constitutes the refereed post conference proceedings of the 6th tpc technology conference tpctc 2014 held in hangzhou china in september 2014 it contains 12 selected peer reviewed papers a report from the tpc public relations committee many buyers use tpc benchmark results as points of comparison when purchasing new computing systems the information technology landscape is evolving at a rapid pace challenging industry experts and researchers to develop innovative techniques for evaluation measurement and characterization of complex systems the tpc remains committed to developing new benchmark standards to keep pace and one vehicle for achieving this objective is the sponsorship of the technology conference on performance evaluation and benchmarking tpctc over the last five years tpctc has been held successfully in conjunction with vldb

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

the book describes the emergence of big data technologies and the role of spark in the entire big data stack it compares spark and hadoop and identifies the shortcomings of hadoop that have been overcome by spark the book mainly focuses on the in depth architecture of spark and our understanding of spark rdds and how rdd complements

big data's immutable nature and solves it with lazy evaluation cacheable and type inference it also addresses advanced topics in spark starting with the basics of scala and the core spark framework and exploring spark data frames machine learning using mllib graph analytics using graph x and real time processing with apache kafka aws kinesis and azure event hub it then goes on to investigate spark using pyspark and r focusing on the current big data stack the book examines the interaction with current big data tools with spark being the core processing layer for all types of data the book is intended for data engineers and scientists working on massive datasets and big data technologies in the cloud in addition to industry professionals it is helpful for aspiring data processing professionals and students working in big data processing and cloud computing environments

in today's world with an increase in the breadth and scope of real world engineering optimization problems as well as with the advent of big data improving the performance and efficiency of algorithms for solving such problems has become an indispensable need for specialists and researchers in contrast to conventional books in the field that employ traditional single stage computational single dimensional and single homogeneous optimization algorithms this book addresses multiple newfound architectures for meta heuristic music inspired optimization algorithms these proposed algorithms with multi stage computational multi dimensional and multi inhomogeneous structures bring about a new direction in the architecture of meta heuristic algorithms for solving complicated real world large scale non convex non smooth engineering optimization problems having a non linear mixed integer nature with big data the architectures of these new algorithms may also be appropriate for finding an optimal solution or a pareto optimal solution set with higher accuracy and speed in comparison to other optimization algorithms when feasible regions of the solution space and or dimensions of the optimization problem increase this book unlike conventional books on power systems problems that only consider simple and impractical models deals with complicated techno economic real world large scale models of power systems operation and planning innovative applicable ideas in these models make this book a precious resource for specialists and researchers with a background in power systems operation and planning provides an understanding of the optimization problems and algorithms particularly meta heuristic optimization algorithms found in fields such as engineering economics management and operations research enhances existing architectures and develops innovative architectures for meta heuristic music inspired optimization algorithms in order to deal with complicated real world large scale non convex non smooth engineering optimization problems having a non linear mixed integer nature with big data addresses innovative multi level techno economic real world large scale computational logical frameworks for power systems operation and planning and illustrates practical training on implementation of the frameworks using the meta heuristic music inspired optimization algorithms

the rapidly developing field of quantum computing and its potential to upend science business and society are examined in bits to qubits the quantum transformation of computing this book provides a thorough and approachable overview of one of the most revolutionary technologies of the twenty first century by bridging the gap between the classical underpinnings of computation and new quantum concepts the book starts by demystifying the basic components of quantum computing qubits superposition entanglement and quantum gates for researchers graduate students engineers and inquisitive readers next it moves on to programming frameworks real world architectures and innovative quantum algorithms like grover's and shor's applications in cryptography optimization machine learning and materials science are covered along with practical concerns such as hardware problems quantum cloud platforms and quantum error correction this book offers a clear road map of where quantum computing is now and where it's going to go in the future regardless of whether you re

switching from classical computing or entering the field for the first time it functions as a guide for the future as well as an academic reference thanks to its case studies real world examples and straightforward mathematical explanations

each vol contains the sermon preached on the anniversary

bestselling author and experienced entrepreneur tyler hicks reveals how to make a living from home with marketing strategies resources and tips

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