

# BIG DATA

## Opportunities and challenges

### Opportunities



### Challenges



Legal framework  
conditions

Responsible handling  
of data

# Big Data Opportunities And Challenges

**Yicheng Fang**



## **Big Data Opportunities And Challenges:**

*Applications of Big Data in Large- and Small-Scale Systems* Goundar, Sam,Rayani, Praveen Kumar,2021-01-15 With new technologies such as computer vision internet of things mobile computing e governance and e commerce and wide applications of social media organizations generate a huge volume of data and at a much faster rate than several years ago Big data in large small scale systems characterized by high volume diversity and velocity increasingly drives decision making and is changing the landscape of business intelligence From governments to private organizations from communities to individuals all areas are being affected by this shift There is a high demand for big data analytics that offer insights for computing efficiency knowledge discovery problem solving and event prediction To handle this demand and this increase in big data there needs to be research on innovative and optimized machine learning algorithms in both large and small scale systems Applications of Big Data in Large and Small Scale Systems includes state of the art research findings on the latest development up to date issues and challenges in the field of big data and presents the latest innovative and intelligent applications related to big data This book encompasses big data in various multidisciplinary fields from the medical field to agriculture business research and smart cities While highlighting topics including machine learning cloud computing data visualization and more this book is a valuable reference tool for computer scientists data scientists and analysts engineers practitioners stakeholders researchers academicians and students interested in the versatile and innovative use of big data in both large scale and small scale systems      *Big Data* Keith Gordon,2014      **Handbook of Big Data and Analytics in Accounting and Auditing** Tarek Rana,Jan Svanberg,Peter Öhman,Alan Lowe,2023-02-03 This handbook collects the most up to date scholarship knowledge and new developments of big data and data analytics by bringing together many strands of contextual and disciplinary research In recent times while there has been considerable research in exploring the role of big data data analytics and textual analytics in accounting and auditing we still lack evidence on what kinds of best practices academics practitioners and organizations can implement and use To achieve this aim the handbook focuses on both conventional and contemporary issues facing by academics practitioners and organizations particularly when technology and business environments are changing faster than ever All the chapters in this handbook provide both retrospective and contemporary views and commentaries by leading and knowledgeable scholars in the field who offer unique insights on the changing role of accounting and auditing in today s data and analytics driven environment Aimed at academics practitioners students and consultants in the areas of accounting auditing and other business disciplines the handbook provides high level insight into the design implementation and working of big data and data analytics practices for all types of organizations worldwide The leading scholars in the field provide critical evaluations and guidance on big data and data analytics by illustrating issues related to various sectors such as public private not for profit and social enterprises The handbook s content will be highly desirable and accessible to accounting and non accounting audiences across the globe      **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 **Progress in Advanced Information and Communication Technology and Systems** Mykhailo Ilchenko, Leonid Uryvsky, Larysa Globa, 2022-11-17 This book highlights the most important research areas in information and communication technologies namely the research in fields of modern information technologies that deal with various aspects of the analysis and solution of practically important issues of information systems in general and contains discussion about the progression from big data to smart data development of cloud based architecture practical implementation of Internet of Things IoT the fundamentals of information and analytical activities studying of modern communication technologies contains original works dealing with many aspects of construction using research and forecasting of technological and services characteristics of communication systems as well as research of modern radio electronics technologies that contains actual papers which show some effective technological solutions that can be used for the implementation of novel radio electronics systems These results can be used in the implementation of novel systems and to promote information exchange in e societies This book offers a valuable resource for scientists lecturers specialists working at enterprises and graduate and undergraduate students who engage with problems in information and communication technologies *Applied Data Analysis for Urban Planning and Management* Alasdair Rae, Cecilia Wong, 2021-09-08 This book showcases the different ways in which contemporary forms of data analysis are being used in urban planning and management It highlights the emerging possibilities that city regional governance technology and data have for better planning and urban management and discusses how you can apply them to your research Including perspectives from across the globe it s packed with examples of good practice and helps to demystify the process of using big and open data Learn about different kinds of emergent data sources and how they are processed visualised and presented Understand how spatial analysis and GIS are used in city planning See examples of how contemporary data analytics methods are being applied in a variety of contexts such as smart city management and megacities Aimed at upper undergraduate and postgraduate students studying spatial analysis and planning this timely text is the perfect companion to enable you to apply data analytics approaches in your research Proceedings of 4th International Conference on ICT for Digital, Smart, and Sustainable Development Md Afshar Alam, Farheen Siddiqui, Sherin Zafar, Imran Hussain, 2024-12-26 This book contains original peer reviewed research articles from 4th International Conference on ICT for Digital Smart and Sustainable Development ICIDSSD 2024 organized by Jamia Hamdard Delhi India during 23 24 April 2024 It includes most recent research trends and advancements in sustainable computing sustainable energy consumption governance sustainability and security human built systems for sustainable development sustainable IoT and cyber physical systems big data analytics data science and IoT cloud computing and artificial intelligence Human-

Centric Integration of Next-Generation Data Science and Blockchain Technology Amit Kumar Tyagi, Shrikant Tiwari, 2025-03-17 Human Centric Integration of Next Generation Data Science and Blockchain Technology Advancing Society 5.0 Paradigms focuses on the current technological landscape addressing the evolving integration of data science and blockchain within the context of Society 5.0 This comprehensive resource explains the convergences between data science blockchain and the human centric vision of Society 5.0 while also filling the gap in understanding and navigating this transformative intersection with recent shifts towards more decentralized and data driven paradigms The book introduces the concept of Society 5.0 examining the historical context and outlines the evolving technological landscape shaping our interconnected future It discusses the fundamental principles of data science from data collection and preprocessing to exploratory data analysis and explains the transformative impact of data science and blockchain across industries such as healthcare finance education and transportation This book is essential to understanding and shaping the future of technology and society from decentralized solutions to predictive analytics emerging technologies Addresses the evolving integration of data science and blockchain within the context of Society 5.0 Introduces the basic architecture and taxonomy of blockchain technology Explores the future urban lives under the concept of Society 5.0 characterized by the key phrases of data driven society and knowledge intensive society Offers a firm foundation and understanding of recent advancements in various domains such as data analytics neural networks computer vision and robotics along with practical solutions to existing problems in fields such as healthcare manufacturing industries security and infrastructure management

**The Symphony of Computing: From the Drum to the Quantum** Pasquale De Marco, 2025-08-08 From the abacus to the quantum computer the history of computing is a fascinating journey of innovation and progress In this book we will explore the key people and events that have shaped the development of computers from the earliest mechanical devices to the latest advances in artificial intelligence and quantum computing We will learn about the visionaries who dreamed of creating machines that could think and calculate and the engineers who turned those dreams into reality We will also discuss the impact that computers have had on society from the way we work and communicate to the way we learn and play This book is a comprehensive and accessible guide to the history of computing perfect for anyone who wants to learn more about this fascinating topic Whether you're a student a professional or simply someone who is curious about the world around you this book has something for everyone In this book you will learn about The pioneers of computing such as Charles Babbage Ada Lovelace and Alan Turing The major milestones in the development of computers from the first mechanical calculators to the latest quantum computers The different types of computers from mainframes to personal computers to supercomputers The different applications of computers from business and finance to healthcare and education The impact that computers have had on society both positive and negative This book is a valuable resource for anyone who wants to understand the history of computing and its impact on the world It is also a fascinating read for anyone who is interested in technology and innovation

If you like this book write a review      Artificial Intelligence and IoT Kalaiselvi Geetha Manoharan, Jawaharlal Arun Nehru, Sivaraman Balasubramanian, 2021-02-12 This book projects a futuristic scenario that is more existent than they have been at any time earlier To be conscious of the bursting prospective of IoT it has to be amalgamated with AI technologies Predictive and advanced analysis can be made based on the data collected discovered and analyzed To achieve all these compatibility complexity legal and ethical issues arise due to automation of connected components and gadgets of widespread companies across the globe While these are a few examples of issues the authors intention in editing this book is to offer concepts of integrating AI with IoT in a precise and clear manner to the research community In editing this book the authors attempt is to provide novel advances and applications to address the challenge of continually discovering patterns for IoT by covering various aspects of implementing AI techniques to make IoT solutions smarter The only way to remain pace with this data generated by the IoT and acquire the concealed acquaintance it encloses is to employ AI as the eventual catalyst for IoT IoT together with AI is more than an inclination or existence it will develop into a paradigm It helps those researchers who have an interest in this field to keep insight into different concepts and their importance for applications in real life This has been done to make the edited book more flexible and to stimulate further interest in topics All these motivated the authors toward integrating AI in achieving smarter IoT The authors believe that their effort can make this collection interesting and highly attract the student pursuing pre research research and even master in multidisciplinary domain      Human-Computer Interaction. Interaction in Context Masaaki Kurosu, 2018-07-10 The 3 volume set LNCS 10901 10902 10903 constitutes the refereed proceedings of the 20th International Conference on Human Computer Interaction HCI 2018 which took place in Las Vegas Nevada in July 2018 The total of 1171 papers and 160 posters included in the 30 HCII 2018 proceedings volumes was carefully reviewed and selected from 4346 submissions HCI 2018 includes a total of 145 papers they were organized in topical sections named Part I HCI theories methods and tools perception and psychological issues in HCI emotion and attention recognition security privacy and ethics in HCI Part II HCI in medicine HCI for health and wellbeing HCI in cultural heritage HCI in complex environments mobile and wearable HCI Part III input techniques and devices speech based interfaces and chatbots gesture motion and eye tracking based interaction games and gamification      *Information and Communication Technology and Applications* Sanjay Misra, Bilquis Muhammad-Bello, 2021-02-13 This book constitutes revised selected papers from the Third International Conference on Information and Communication Technology and Applications ICTA 2020 held in Minna Nigeria in November 2020 Due to the COVID 19 pandemic the conference was held online The 67 full papers were carefully reviewed and selected from 234 submissions The papers are organized in the topical sections on Artificial Intelligence Big Data and Machine Learning Information Security Privacy and Trust Information Science and Technology      **Smart Infrastructure and Applications** Rashid Mehmood, Simon See, Iyad Katib, Imrich Chlamtac, 2019-06-20 This book provides a multidisciplinary view of smart infrastructure through a range of

diverse introductory and advanced topics The book features an array of subjects that include smart cities and infrastructure e healthcare emergency and disaster management Internet of Vehicles supply chain management eGovernance and high performance computing The book is divided into five parts Smart Transportation Smart Healthcare Miscellaneous Applications Big Data and High Performance Computing and Internet of Things IoT Contributions are from academics researchers and industry professionals around the world Features a broad mix of topics related to smart infrastructure and smart applications particularly high performance computing big data and artificial intelligence Includes a strong emphasis on methodological aspects of infrastructure technology and application development Presents a substantial overview of research and development on key economic sectors including healthcare and transportation

**Perspective of DNA Computing in Computer Science** ,2023-02-21 DNA or Deoxyribonucleic Acid computing is an emerging branch of computing that uses DNA sequence biochemistry and hardware for encoding genetic information in computers Here information is represented by using the four genetic alphabets or DNA bases namely A Adenine G Guanine C Cytosine and T Thymine instead of the binary representation 1 and 0 used by traditional computers This is achieved because short DNA molecules of any arbitrary sequence of A G C and T can be synthesized to order DNA computing is mainly popular for three reasons i speed ii minimal storage requirements and iii minimal power requirements There are many applications of DNA computing in the field of computer science Nowadays DNA computing is widely used in cryptography for achieving a strong security technique so that unauthorized users are unable to retrieve the original data content In DNA based encryption data are encrypted by using DNA bases A T G and C instead of 0 and 1 As four DNA bases are used in the encryption process DNA computing supports more randomness and makes it more complex for attackers or malicious users to hack the data DNA computing is also used for data storage because a large number of data items can be stored inside the condensed volume One gram of DNA holds approx DNA bases or approx 700 TB However it takes approx 233 hard disks to store the same data on 3 TB hard disks and the weight of all these hard disks can be approx 151 kilos In a cloud environment the Data Owner DO stores their confidential encrypted data outside of their own domain which attracts many attackers and hackers DNA computing can be one of the best solutions to protect the data of a cloud server Here the DO can use DNA bases to encrypt the data by generating a long DNA sequence Another application of DNA computing is in Wireless Sensor Network WSN Many researchers are trying to improve the security of WSN by using DNA computing Here DNA cryptography is used along with Secure Socket Layer SSL that supports a secure medium to exchange information However recent research shows some limitations of DNA computing One of the critical issues is that DNA cryptography does not have a strong mathematical background like other cryptographic systems This edited book is being planned to bring forth all the information of DNA computing Along with the research gaps in the currently available books literature this edited book presents many applications of DNA computing in the fields of computer science Moreover research challenges and future work directions in

DNA computing are also provided in this edited book This edited book gives an overall detail of DNA computing and the fundamentals of cryptography Many applications of DNA computing in computer science fields such as cryptography cloud computing big data storage Wireless Sensor Network WSN security and many more are presented in different chapters of this edited book Research challenges along with many future work directions in DNA computing are presented in this edited book

Artificial Intelligence for Capital Markets Syed Hasan Jafar,Hemachandran K,Hani El-Chaarani,Sairam Moturi,Neha Gupta,2023-05-15 Artificial Intelligence for Capital Market throws light on the application of AI ML techniques in the financial capital markets This book discusses the challenges posed by the AI ML techniques as these are prone to black box syndrome The complexity of understanding the underlying dynamics for results generated by these methods is one of the major concerns which is highlighted in this book Features Showcases artificial intelligence in finance service industry Explains credit and risk analysis Elaborates on cryptocurrencies and blockchain technology Focuses on the optimal choice of asset pricing model Introduces testing of market efficiency and forecasting in the Indian stock market This book serves as a reference book for academicians industry professionals traders finance managers and stock brokers It may also be used as textbook for graduate level courses in financial services and financial analytics

Fuzzy Systems and Data Mining IX Antonio J. Tallón-Ballesteros,Raquel Beltrán-Barba,2023-12-15 Fuzzy systems and data mining are indispensable aspects of the digital technology on which we now all depend Fuzzy logic is intrinsic to applications in the electrical chemical and engineering industries and also in the fields of management and environmental issues Data mining is indispensable in dealing with big data massive data and scalable parallel and distributed algorithms This book presents the proceedings of FSDM 2023 the 9th International Conference on Fuzzy Systems and Data Mining held from 10 13 November 2023 as a hybrid event with some participants attending in Chongqing China and others online The conference focuses on four main areas fuzzy theory algorithms and systems fuzzy application data mining and the interdisciplinary field of fuzzy logic and data mining and provides a forum for experts researchers academics and representatives from industry to share the latest advances in the field of fuzzy sets and data mining This year topics from two special sessions on granular ball computing and the application of generative AI as well as machine learning and neural networks were also covered A total of 363 submissions were received and after careful review by the members of the international program committee 110 papers were accepted for presentation at the conference and publication here representing an acceptance rate of just over 30% Covering a comprehensive range of current research and developments in fuzzy logic and data mining the book will be of interest to all those working in the field of data science

*Big Data Analytics for Intelligent Healthcare Management* Nilanjan Dey,Himansu Das,Bighnaraj Naik,H S Behera,2019-04-15 Big Data Analytics for Intelligent Healthcare Management covers both the theory and application of hardware platforms and architectures the development of software methods techniques and tools applications and governance and adoption strategies for the use of big data in healthcare and clinical research The book provides the latest



research findings on the use of big data analytics with statistical and machine learning techniques that analyze huge amounts of real time healthcare data Examines the methodology and requirements for development of big data architecture big data modeling big data as a service big data analytics and more Discusses big data applications for intelligent healthcare management such as revenue management and pricing predictive analytics forecasting big data integration for medical data algorithms and techniques etc Covers the development of big data tools such as data web and text mining data mining optimization machine learning cloud in big data with Hadoop big data in IoT and more First International Conference on Artificial Intelligence and Cognitive Computing Raju Surampudi Bapi,Koppula Srinivas Rao,Munaga V. N. K.

Prasad,2018-11-04 This book presents original research works by researchers engineers and practitioners in the field of artificial intelligence and cognitive computing The book is divided into two parts the first of which focuses on artificial intelligence AI knowledge representation planning learning scheduling perception reactive AI systems evolutionary computing and other topics related to intelligent systems and computational intelligence In turn the second part focuses on cognitive computing cognitive science and cognitive informatics It also discusses applications of cognitive computing in medical informatics structural health monitoring computational intelligence intelligent control systems bio informatics smart manufacturing smart grids image video processing video analytics medical image and signal processing and knowledge engineering as well as related applications *Inclusive Smart Cities and e-Health* Antoine Geissbühler,Jacques

Demongeot,Mounir Mokhtari,Bessam Abdulrazak,Hamdi Aloulou,2015-05-29 This book constitutes the proceedings of the 13th International Conference on Smart Homes and Health Telematics ICOST 2015 held in Geneva Switzerland in June 2015 The 20 full papers and 16 short contributions included in this volume were carefully reviewed and selected from 45 submissions They were organized in topical sections named design and usability assistive and sentient environments human behavior and activities monitoring and health IT and supportive technology The book also contains 3 invited talks **Smart**

**Cities Performability, Cognition, & Security** Fadi Al-Turjman,2019-05-21 This book provides knowledge into the intelligence and security areas of smart city paradigms It focuses on connected computing devices mechanical and digital machines objects and or people that are provided with unique identifiers The authors discuss the ability to transmit data over a wireless network without requiring human to human or human to computer interaction via secure intelligent methods The authors also provide a strong foundation for researchers to advance further in the assessment domain of these topics in the IoT era The aim of this book is hence to focus on both the design and implementation aspects of the intelligence and security approaches in smart city applications that are enabled and supported by the IoT paradigms Presents research related to cognitive computing and secured telecommunication paradigms Discusses development of intelligent outdoor monitoring systems via wireless sensing technologies With contributions from researchers scientists engineers and practitioners in telecommunication and smart cities

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