Big Data Analytics

From Strategic Planning to Enterprise Integration with Tools, Techniques, NoSQL, and Graph



David Loshin

Nicos Komninos

Big Data Analytics David Loshin, 2013-08-23 Big Data Analytics will assist managers in providing an overview of the drivers for introducing big data technology into the organization and for understanding the types of business problems best suited to big data analytics solutions understanding the value drivers and benefits strategic planning developing a pilot and eventually planning to integrate back into production within the enterprise Guides the reader in assessing the opportunities and value proposition Overview of big data hardware and software architectures Presents a variety of technologies and how they fit into the big data ecosystem Intersection of AI and Business Intelligence in Data-Driven Decision-Making Natarajan, Arul Kumar, Galety, Mohammad Gouse, Iwendi, Celestine, Das, Deepthi, Shankar, Achyut, 2024-08-28 In today s rapidly evolving business landscape organizations are inundated with vast amounts of data making it increasingly challenging to extract meaningful insights and make informed decisions. The traditional business intelligence BI approach must often address the complexity and speed required for effective decision making in this data rich environment As a result many businesses need help to leverage their data to drive sustainable growth and remain competitive Intersection of AI and Business Intelligence in Data Driven Decision Making presents a transformative solution to this pressing challenge By exploring the convergence of artificial intelligence AI and BI our book provides a comprehensive framework for leveraging AI powered BI to revolutionize data analysis predictive modeling and decision making processes Readers will gain valuable insights into practical applications emerging trends and ethical considerations inspiring and exciting them about the potential of AI in driving business success 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 Implementing Data-Driven Strategies in Smart Cities Didier Grimaldi, Carlos Carrasco-Farré, 2021-09-18 Implementing Data Driven Strategies in Smart Cities is a guidebook and roadmap for practitioners seeking to operationalize data driven urban interventions. The book opens by exploring the revolution that big data data science and the Internet of Things are making feasible for the city It explores alternate topologies typologies and approaches to operationalize data science in cities drawn from global examples including top down bottom up greenfield brownfield issue based and data driven It channels and expands on the classic data science model for data driven urban

interventions data capture data quality cleansing and curation data analysis visualization and modeling and data governance privacy and confidentiality Throughout illustrative case studies demonstrate successes realized in such diverse cities as Barcelona Cologne Manila Miami New York Nancy Nice S o Paulo Seoul Singapore Stockholm and Zurich Given the heavy emphasis on global case studies this work is particularly suitable for any urban manager policymaker or practitioner responsible for delivering technological services for the public sector from sectors as diverse as energy transportation pollution and waste management Explores numerous specific urban interventions drawn from global case studies helping readers understand real urban challenges and create data driven solutions Provides a step by step and applied holistic guide and methodology for immediate application in the reader s own business agenda Presents cutting edge technology presentation with coverage of innovations such as the Internet of Things robotics 5G edge fog computing blockchain intelligent transport systems and connected automated mobility Big Data, Databases and "Ownership" Rights in the Cloud Marcelo Corrales Compagnucci, 2019-11-02 Two of the most important developments of this new century are the emergence of cloud computing and big data However the uncertainties surrounding the failure of cloud service providers to clearly assert ownership rights over data and databases during cloud computing transactions and big data services have been perceived as imposing legal risks and transaction costs This lack of clear ownership rights is also seen as slowing down the capacity of the Internet market to thrive Click through agreements drafted on a take it or leave it basis govern the current state of the art and they do not allow much room for negotiation The novel contribution of this book proffers a new contractual model advocating the extension of the negotiation capabilities of cloud customers thus enabling an automated and machine readable framework orchestrated by a cloud broker Cloud computing and big data are constantly evolving and transforming into new paradigms where cloud brokers are predicted to play a vital role as innovation intermediaries adding extra value to the entire life cycle This evolution will alleviate the legal uncertainties in society by means of embedding legal requirements in the user interface and related computer systems or its code This book situates the theories of law and economics and behavioral law and economics in the context of cloud computing and takes database rights and ownership rights of data as prime examples to represent the problem of collecting outsourcing and sharing data and databases on a global scale It does this by highlighting the legal constraints concerning ownership rights of data and databases and proposes finding a solution outside the boundaries and limitations of the law By allowing cloud brokers to establish themselves in the market as entities coordinating and actively engaging in the negotiation of service level agreements SLAs individual customers as well as small and medium sized enterprises could efficiently and effortlessly choose a cloud provider that best suits their needs This approach which the author calls plan like architectures endeavors to create a more trustworthy cloud computing environment and to yield radical new results for the development of the cloud computing and big data markets Meta-Heuristic Algorithms for Advanced Distributed Systems Rohit Anand, Abhinav

Juneja, Digvijay Pandey, Sapna Juneja, Nidhi Sindhwani, 2024-04-02 META HEURISTIC ALGORITHMS FOR ADVANCED DISTRIBUTED SYSTEMS Discover a collection of meta heuristic algorithms for distributed systems in different application domains Meta heuristic techniques are increasingly gaining favor as tools for optimizing distributed systems generally to enhance the utility and precision of database searches Carefully applied they can increase system effectiveness streamline operations and reduce cost Since many of these techniques are derived from nature they offer considerable scope for research and development with the result that this field is growing rapidly Meta Heuristic Algorithms for Advanced Distributed Systems offers an overview of these techniques and their applications in various distributed systems With strategies based on both global and local searching it covers a wide range of key topics related to meta heuristic algorithms Those interested in the latest developments in distributed systems will find this book indispensable Meta Heuristic Algorithms for Advanced Distributed Systems readers will also find Analysis of security issues distributed system design stochastic optimization techniques and more Detailed discussion of meta heuristic techniques such as the genetic algorithm particle swam optimization and many others Applications of optimized distribution systems in healthcare and other key industries Meta Heuristic Algorithms for Advanced Distributed Systems is ideal for academics and researchers studying distributed systems their design and their applications ICT Education Janet Liebenberg, Stefan Gruner, 2017-11-17 This book constitutes the refereed proceedings of the 46th Annual Conference of the Southern African Computer Lecturers Association on ICT Education SACLA 2017 held in Magaliesburg South Africa in July 2017 The 22 revised full papers presented together with an extended abstract of a keynote paper were carefully reviewed and selected from 63 submissions The papers are organized in topical sections on ICT students of a new generation technology and gaming in nowadays education educational cooperation with the ICT industry computer programming education ICT courses and curricula

Advances in Conceptual Modeling Marta Indulska, Sandeep Purao, 2014-10-10 This book constitutes the refereed proceedings of workshops held at the 33rd International Conference on Conceptual Modeling ER 2014 in Atlanta GA USA in October 2014 The 24 revised full and 6 short papers were carefully reviewed and selected out of 59 submissions and are presented together with 4 demonstrations The papers are organized in sections related to the individual workshops the First International Workshop on Enterprise Modeling ENMO 2014 the Second International Workshop on Modeling and Management of Big Data MoBiD 2014 the First International Workshop on Conceptual Modeling in Requirements and Business Analysis MReBA 2014 the First International Workshop on Quality of Models and Models of Quality QMMQ 2014 the 8th International Workshop on Semantic and Conceptual Issues in GIS SeCoGIS 2014 and the 11th International Workshop on Web Information Systems Modeling WISM 2014 The contributions cover a variety of topics in conceptual modeling including requirements and enterprise modeling modeling of big data spatial conceptual modeling exploring the quality of models and issues specific to the design of web information systems

Implementing Effective IT Governance and

IT Management Gad Selig, 2015-02-01 This book is a revised edition of the best selling title Implementing IT Governance ISBN 978 90 8753 119 5 For trainers free additional material of this book is available This can be found under the Training Material tab Log in with your trainer account to access the material In all enterprises around the world the issues opportunities and challenges of aligning IT more closely with the organization and effectively governing an organization s IT investments resources major initiatives and superior uninterrupted service is becoming a major concern of the Board and executive management An integrated and comprehensive approach to the alignment planning execution and governance of IT and its resources has become critical to more effectively align integrate invest measure deploy service and sustain the strategic and tactical direction and value proposition of IT in support of organizations Much has been written and documented about the individual components of IT Governance such as strategic planning demand management program and project management IT service management strategic sourcing and outsourcing performance management metrics compliance and others Much less has been written about a comprehensive and integrated approach for IT Business Alignment Planning Execution and Governance This title fills that need in the marketplace and offers readers structured and practical solutions using the best of the best practices available today The book is divided into two parts which cover the three critical pillars necessary to develop execute and sustain a robust and effective IT governance environment Leadership people organization and strategy IT governance its major component processes and enabling technologies Each of the chapters also covers one or more of the following action oriented topics the why and what of IT strategic planning portfolio investment management decision authority etc the how of IT Program Project Management IT Service Management including ITIL Strategic Sourcing and outsourcing performance risk and contingency management including COBIT the Balanced Scorecard etc and leadership team management and professional competences Recent Trends in Data Science and Soft Computing Faisal Saeed, Nadhmi Gazem, Fathey Mohammed, Abdelsalam Busalim, 2018-09-08 This book presents the proceedings of the 3rd International Conference of Reliable Information and Communication Technology 2018 IRICT 2018 which was held in Kuala Lumpur Malaysia on July 23 24 2018 The main theme of the conference was Data Science AI and IoT Trends for the Fourth Industrial Revolution A total of 158 papers were submitted to the conference of which 103 were accepted and considered for publication in this book Several hot research topics are covered including Advances in Data Science and Big Data Analytics Artificial Intelligence and Soft Computing Business Intelligence Internet of Things IoT Technologies and Applications Intelligent Communication Systems Advances in Computer Vision Health Informatics Reliable Cloud Computing Environments Recent Trends in Knowledge Management Security Issues in the Cyber World and Advances in Information Systems Research Theories and Methods **Guide to Cybersecurity in Digital Transformation** Dietmar P.F. Möller, 2023-04-18 In today s digital transformation environments a rigorous cybersecurity approach to effective risk management including contingency planning outlining immediate actions preparing post breach responses is central to

defending organizations interconnected computer systems networks and infrastructure resources from malicious cyber attacks Specifically cybersecurity technologies processes and practices need to be generalized and applied to intrusion detection and prevention measures This entails analyzing profiles of cyber attackers and building cyber attack models for behavior simulation that can effectively counter such attacks This comprehensive volume aims to cover all essential aspects of cybersecurity in digital transformation and to provide a framework for considering the many objectives and requirements involved In addition to introducing theoretical foundations the work also offers practical techniques for defending against malicious cybercriminals Topics and features Explores cybersecurity s impact on the dynamics of interconnected complex cyber and physical systems infrastructure resources and networks Provides numerous examples of applications and best practices Considers methods that organizations can use to assess their cybersecurity awareness and or strategy Describes anomaly intrusion detection a key tool in thwarting both malware and theft whether by insiders or external parties of corporate data Addresses cyber attacker profiles cyber attack models and simulation cybersecurity ontology access control mechanisms and policies for handling ransomware attacks Discusses the NIST Cybersecurity Framework MITRE Adversarial Tactics Techniques and Common Knowledge CIS Critical Security Controls and the ISA IEC 62442 Cybersecurity Standard Gathering all the relevant information this practical guide is eminently suitable as a self study resource for engineers scientists computer scientists and chief information officers Further with its many examples of best practices it can serve as an excellent text for graduate level courses and research into cybersecurity Dietmar P F M ller a retired full professor is affiliated with the Institute for Mathematics at Clausthal University of Technology Germany He was an author of several other Springer titles including Guide to Automotive Connectivity and Cybersecurity Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in

systems engineering and risk management courses with focus on security and defense operations Handbook of Research on Driving Socioeconomic Development With Big Data Sun, Zhaohao, 2023-02-24 Socioeconomic development has drawn increasing attention in academia industries and governments The relationship between big data and its technologies and socioeconomic development has drawn certain attention in academia Socioeconomic development depends not only on big data but also on big data technologies However the relationship between big data and socioeconomic development is not adequately covered in current research The Handbook of Research on Driving Socioeconomic Development With Big Data provides an original and innovative understanding of and insight into how the proposed theories technologies and methodologies of big data can improve socioeconomic development and sustainable development in terms of business and services healthcare the internet of everything sharing economy and more Covering topics such as corporate social responsibility management applications and process mining this major reference work is an excellent resource for data scientists business leaders and executives IT professionals government officials economists sociologists librarians students researchers and academicians Reinventing the Social Scientist and Humanist in the Era of Big Data Susan Brokensha, Eduan Kotzé, Burgert A. Senekal, 2019-12-01 This book explores the big data evolution by interrogating the notion that big data is a disruptive innovation that appears to be challenging existing epistemologies in the humanities and social sciences Exploring various controversial facets of big data such as ethics data power and data justice the book attempts to clarify the trajectory of the epistemology of big data driven science in the humanities and social sciences Service Orientation in Holonic and Multi-agent Manufacturing Theodor Borangiu, André Thomas, Damien Trentesaux, 2015-02-17 This volume gathers the peer reviewed papers presented at the 4th edition of the International Workshop Service Orientation in Holonic and Multi agent Manufacturing SOHOMA 14 organized and hosted on November 5 6 2014 by the University of Lorraine France in collaboration with the CIMR Research Centre of the University Politehnica of Bucharest and the TEMPO Laboratory of the University of Valenciennes and Hainaut Cambr sis The book is structured in six parts each one covering a specific research line which represents a trend in future manufacturing 1 Holonic and Agent based Industrial Automation Systems 2 Service oriented Management and Control of Manufacturing Systems 3 Distributed Modelling for Safety and Security in Industrial Systems 4 Complexity Big Data and Virtualization in Computing oriented Manufacturing 5 Adaptive Bio inspired and Self organizing Multi Agent Systems for Manufacturing and 6 Physical Internet Simulation Modelling and Control There is a clear orientation of the SOHOMA 14 workshop towards complexity which is a common view of all six parts There is need for a framework allowing the development of manufacturing cyber physical systems including capabilities for complex event processing and data analytics which are expected to move the manufacturing domain closer towards cloud manufacturing within contextual enterprises Recent advances in sensor communication and intelligent computing technologies made possible the Internet connectivity of the physical world the

Physical Internet where not only documents and images are created shared or modified in the cyberspace but also the physical resources and products interact over Internet and make decisions based on shared communication

Data-Enabled Analytics Joe Zhu, Vincent Charles, 2021-12-16 This book explores the novel uses and potentials of Data Envelopment Analysis DEA under big data These areas are of widespread interest to researchers and practitioners alike Considering the vast literature on DEA one could say that DEA has been and continues to be a widely used technique both in performance and productivity measurement having covered a plethora of challenges and debates within the modelling Smart Cities and Connected Intelligence Nicos Komninos, 2019-12-05 Internet and World Wide Web platforms framework big data analytics software social media and civic technologies allow for the creation of smart ecosystems in which connected intelligence emerges and disruptive social and eco innovation flourishes This book focuses on three grand challenges that matter for any territory no matter where it is located i smart growth a path that more and more cities regions and countries are adopting having realised the unlimited potential of growth that is based on knowledge innovation and digital technologies ii safety and security which is a pre requisite for quality of life in a world of intense social natural and technological threats and iii sustainability use of renewable energy protection of living ecosystems addressing climate change and global warming in a period of rapid urbanisation that makes established sustainability models and planning patterns quickly obsolete The core argument of the book is that problem solving and novel solutions to these grand challenges emerge in smart ecosystems through connected intelligence It is the broadest form of intelligence that combines capabilities from heterogeneous actors humans organisations machines and propel problem solving through externalities and resource agglomeration user engagement and collaboration awareness and behaviour change This book will be of interest to students and researchers of urban and regional studies innovation studies economic geography and urban planning as well as urban policy makers

Mathematical Modeling and Simulation Kai Velten, Dominik M. Schmidt, Katrin Kahlen, 2024-10-07 Learn to use modeling and simulation methods to attack real world problems from physics to engineering from life sciences to process engineering Reviews of the first edition 2009 Perfectly fits introductory modeling courses and is an enjoyable reading in the first place Highly recommended Zentralblatt MATH European Mathematical Society 2009 This book differs from almost all other available modeling books in that the authors address both mechanistic and statistical models as well as hybrid models The modeling range is enormous SIAM Society of Industrial and Applied Mathematics USA 2011 This completely revised and substantially extended second edition answers the most important questions in the field of modeling What is a mathematical model What types of models do exist Which model is appropriate for a particular problem What are simulation parameter estimation and validation What kind of mathematical problems appear and how can these be efficiently solved using professional free of charge open source software The book addresses undergraduates and practitioners alike Although only basic knowledge of calculus and linear algebra is required the most important mathematical structures are discussed in

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and apprehend criminals to preserve the safety of society The Encyclopedia of Criminal Activities and the Deep Web is a three volume set that includes comprehensive articles covering multidisciplinary research and expert insights provided by hundreds of leading researchers from 30 countries including the United States the United Kingdom Australia New Zealand Germany Finland South Korea Malaysia and more This comprehensive encyclopedia provides the most diverse findings and new methodologies for monitoring and regulating the use of online tools as well as hidden areas of the internet including the deep and dark web Highlighting a wide range of topics such as cyberbullying online hate speech and hacktivism this book will offer strategies for the prediction and prevention of online criminal activity and examine methods for safeguarding internet users and their data from being tracked or stalked Due to the techniques and extensive knowledge discussed in this publication it is an invaluable addition for academic and corporate libraries as well as a critical resource for policy makers law enforcement officials forensic scientists criminologists sociologists victim advocates cybersecurity analysts lawmakers government officials industry professionals academicians researchers and students within this field of study

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