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KEY=GOVERNANCE - MYLA ROGERS

DATA GOVERNANCE

THE DEFINITIVE GUIDE: PEOPLE, PROCESSES, AND TOOLS TO OPERATIONALIZE DATA TRUSTWORTHINESS

As your company moves data to the cloud, you need to consider a comprehensive approach to data governance, along with well-defined and agreed-upon policies to ensure you meet compliance. Data governance incorporates the ways that people, processes, and technology work together to support business efficiency. With this practical guide, chief information, data, and security officers will learn how to effectively implement and scale data governance throughout their organizations. You'll explore how to create a strategy and tooling to support the democratization of data and governance principles. Through good data governance, you can inspire customer trust, enable your organization to extract more value from data, and generate more-competitive offerings and improvements in customer experience. This book shows you how. Enable auditable legal and regulatory compliance with defined and agreed-upon data policies Employ better risk management Establish control and maintain visibility into your company's data assets, providing a competitive advantage Drive top-line revenue and cost savings when developing new products and services Implement your organization's people, processes, and tools to operationalize data trustworthiness

DATA GOVERNANCE: THE DEFINITIVE GUIDE

"O'Reilly Media, Inc." As you move data to the cloud, you need to consider a comprehensive approach to data governance, along with well-defined and agreed-upon policies to ensure your organization meets compliance requirements. Data governance incorporates the ways people, processes, and technology work together to ensure data is trustworthy and can be used effectively. This practical guide shows you how to effectively implement and scale data governance throughout your organization. Chief information, data, and security officers and their teams will learn strategy and tooling to support democratizing data and unlocking its value while enforcing security, privacy, and other governance standards. Through good data governance, you can inspire customer trust, enable your organization to identify business efficiencies, generate more competitive offerings, and improve customer experience. This book shows you how. You'll learn: Data governance strategies addressing people, processes, and tools Benefits and challenges of a cloud-based data governance approach How data governance is conducted from ingest to preparation and use How to handle the ongoing improvement of data quality Challenges and techniques in governing streaming data Data protection for authentication, security, backup, and monitoring How to build a data culture in your organization

KNOWLEDGE MANAGEMENT, INNOVATION AND BIG DATA

IMPLICATIONS FOR SUSTAINABILITY, POLICY MAKING AND COMPETITIVENESS

MDPI The evolution of knowledge management theory and the special emphasis on human and social capital sets new challenges for knowledge-driven and technology-enabled innovation. Emerging technologies including big data and analytics have significant implications for sustainability, policy making, and competitiveness. This edited volume promotes scientific research into the potential contributions knowledge management can make to the new era of innovation and social inclusive economic growth. We are grateful to all the contributors of this edition for their intellectual work. The organization of the relevant debate is aligned around three pillars: SECTION A. DATA, KNOWLEDGE, HUMAN AND SOCIAL CAPITAL FOR INNOVATION We elaborate on the new era of knowledge types and the emerging forms of social capital and their impact on technology-driven innovation. Topics include: · Social Networks · Smart Education · Social Capital · Corporate Innovation · Disruptive Innovation · Knowledge integration · Enhanced Decision-Making. SECTION B. KNOWLEDGE MANAGEMENT & BIG DATA ENABLED INNOVATION In this section, knowledge management and big data applications and systems are presented. Selective topic include: · Crowdsourcing Analysis · Natural Language Processing · Data Governance · Knowledge Extraction · Ontology Design Semantic Modeling SECTION C. SUSTAINABLE DEVELOPMENT In the section, the debate on the impact of knowledge management and big data research to sustainability is promoted with integrative discussion of complementary social and technological factors including: · Big Social Networks on Sustainable Economic Development · Business Intelligence

A POLICY-BASED MANAGEMENT FRAMEWORK FOR CLOUD COMPUTING SECURITY

Cloud Computing has changed how computing is done as applications and services are being consumed from the cloud. It has attracted a lot of attention in recent times due to the opportunities it offers. While Cloud Computing is economical, the security challenges it poses are quite significant and this has affected the adoption rate of the technology. With the potential vulnerabilities being introduced by moving data to the cloud, it has become imperative for cloud service providers to guarantee the security of information, leaving cloud service consumers (e.g., enterprises) with the task of negotiating the terms and conditions of services provided by the cloud service providers as well as trusting them with their data. Although various security solutions used for addressing the security of data within the enterprises are now being applied to the cloud, these security solutions are challenged due to the dynamic, distributed and complex nature of the cloud technology. This thesis proposes a novel Policy-Based Management (PBM) framework capable of achieving cross-tenant authorization, handling dynamic and anonymous users while reducing the security management task to address cloud security. The framework includes an access control model adapted to the cloud environment that adopts features from role-based, task-based and attribute-based access control frameworks for a fine-grained access control. We demonstrate how this framework can be applied to develop an access control system for an enterprise using cloud services. The framework verifies the correctness of access control policies for cloud security through reasoning technique.

BIG DATA GOVERNANCE AND PERSPECTIVES IN KNOWLEDGE MANAGEMENT

IGI Global The world is witnessing the growth of a global movement facilitated by technology and social media. Fueled by information, this movement contains enormous potential to create more accountable, efficient, responsive, and effective governments and businesses, as well as spurring economic growth. Big Data Governance and Perspectives in Knowledge Management is a collection of innovative research on the methods and applications of applying robust processes around data, and aligning organizations and skillsets around those processes. Highlighting a range of topics including data analytics, prediction analysis, and software development, this book is ideally designed for academicians, researchers, information science professionals, software developers, computer engineers, graduate-level computer science students, policymakers, and managers seeking current research on the convergence of big data and information governance as two major trends in information management.

CLOUD COMPUTING

PRINCIPLES, SYSTEMS AND APPLICATIONS

Springer This practically-focused reference presents a comprehensive overview of the state of the art in Cloud Computing, and examines the potential for future Cloud and Cloud-related technologies to address specific industrial and research challenges. This new edition explores both established and emergent principles, techniques, protocols and algorithms involved with the design, development, and management of Cloud-based systems. The text reviews a range of applications and methods for linking Clouds, undertaking data management and scientific data analysis, and addressing requirements both of data analysis and of management of large scale and complex systems. This new edition also extends into the emergent next generation of mobile telecommunications, relating network function virtualization and mobile edge Cloud Computing, as supports Smart Grids and Smart Cities. As with the first edition, emphasis is placed on the four quality-of-service cornerstones of efficiency, scalability, robustness, and security.

GUIDE TO CLOUD COMPUTING FOR BUSINESS AND TECHNOLOGY MANAGERS

FROM DISTRIBUTED COMPUTING TO CLOUDWARE APPLICATIONS

CRC Press Guide to Cloud Computing for Business and Technology Managers: From Distributed Computing to Cloudware Applications unravels the mystery of cloud computing and explains how it can transform the operating contexts of business enterprises. It provides a clear understanding of what cloud computing really means, what it can do, and when it is practical

FAST AND SCALABLE CLOUD DATA MANAGEMENT

Springer Nature The unprecedented scale at which data is both produced and consumed today has generated a large demand for scalable data management solutions facilitating fast access from all over the world. As one consequence, a plethora of non-relational, distributed NoSQL database systems have risen in recent years and today's data management system landscape has thus become somewhat hard to overlook. As another consequence, complex polyglot designs and elaborate schemes for data distribution and delivery have become the norm for building applications that connect users and organizations across the globe - but choosing the right combination of systems for a given use case has become increasingly difficult as well. To help practitioners stay on top of that challenge, this book presents a comprehensive overview and classification of the current system landscape in cloud data management as well as a survey of the state-of-the-art approaches for efficient data distribution and delivery to end-user devices. The topics covered thus range from NoSQL storage systems and polyglot architectures (backend) over distributed transactions and Web caching (network) to data access and rendering performance in the client (end-user). By distinguishing popular data management systems by data model, consistency guarantees, and other dimensions of interest, this book provides an abstract framework for reasoning about the overall design space and the individual positions claimed by each of the systems therein. Building on this classification, this book further presents an

application-driven decision guidance tool that breaks the process of choosing a set of viable system candidates for a given application scenario down into a straightforward decision tree.

TRADE GOVERNANCE IN THE DIGITAL AGE

WORLD TRADE FORUM

Cambridge University Press The development of new digital technologies has resulted in significant transformations in daily life, from the arrival of online shopping to more fundamental changes in the ways we work and communicate. Many of these changes raise questions that transcend market access and liberalisation, and demand cooperation and coherent regulatory design. International trade regulation has hitherto not reacted in a forward-looking manner to the digital revolution and, particularly at the multilateral level, legal engineering has yielded few tangible results. This book examines whether WTO laws possess the necessary flexibility and resilience to accommodate the changes brought about by burgeoning digital trade. By revealing both the potential and the limitations of the WTO framework, it provides a broad picture of the interaction between digital technologies and trade regulation, links the often disconnected discourses of international trade law, intellectual property and cyberlaw and explores discrete problems in different domains of global trade regulation.

DATA GOVERNANCE

CREATING VALUE FROM INFORMATION ASSETS

CRC Press As organizations deploy business intelligence and analytic systems to harness business value from their data assets, data governance programs are quickly gaining prominence. And, although data management issues have traditionally been addressed by IT departments, organizational issues critical to successful data management require the implementation of enterprise-wide accountabilities and responsibilities. *Data Governance: Creating Value from Information Assets* examines the processes of using data governance to manage data effectively. Addressing the complete life cycle of effective data governance—from metadata management to privacy and compliance—it provides business managers, IT professionals, and students with an integrated approach to designing, developing, and sustaining an effective data governance strategy. Explains how to align data governance with business goals Describes how to build successful data stewardship with a governance framework Outlines strategies for integrating IT and data governance frameworks Supplies business-driven and technical perspectives on data quality management, metadata management, data access and security, and data lifecycle The book summarizes the experiences of global experts in the field and addresses critical areas of interest to the information systems and management community. Case studies from healthcare and financial sectors, two industries that have successfully leveraged the potential of data-driven strategies, provide further insights into real-time practice. Facilitating a comprehensive understanding of data governance, the book addresses the burning issue of aligning data assets to both IT assets and organizational strategic goals. With a focus on the organizational, operational, and strategic aspects of data governance, the text provides you with the understanding required to leverage, derive, and sustain maximum value from the informational assets housed in your IT infrastructure.

MOBILE CLOUD COMPUTING

MODELS, IMPLEMENTATION, AND SECURITY

CRC Press *Mobile Cloud Computing: Models, Implementation, and Security* provides a comprehensive introduction to mobile cloud computing, including key concepts, models, and relevant applications. The book focuses on novel and advanced algorithms, as well as mobile app development. The book begins with an overview of mobile cloud computing concepts, models, and service deployments, as well as specific cloud service models. It continues with the basic mechanisms and principles of mobile computing, as well as virtualization techniques. The book also introduces mobile cloud computing architecture, design, key techniques, and challenges. The second part of the book covers optimizations of data processing and storage in mobile clouds, including performance and green clouds. The crucial optimization algorithm in mobile cloud computing is also explored, along with big data and service computing. Security issues in mobile cloud computing are covered in-depth, including a brief introduction to security and privacy issues and threats, as well as privacy protection techniques in mobile systems. The last part of the book features the integration of service-oriented architecture with mobile cloud computing. It discusses web service specifications related to implementations of mobile cloud computing. The book not only presents critical concepts in mobile cloud systems, but also drives readers to deeper research, through open discussion questions. Practical case studies are also included. Suitable for graduate students and professionals, this book provides a detailed and timely overview of mobile cloud computing for a broad range of readers.

CLOUD COMPUTING SERVICE AND DEPLOYMENT MODELS: LAYERS AND MANAGEMENT

LAYERS AND MANAGEMENT

IGI Global "This book presents a collection of diverse perspectives on cloud computing and its vital role in all components of organizations, improving the understanding of cloud computing and tackling related concerns such as change management, security, processing approaches, and much more"--Provided by publisher.

CLOUD SECURITY AND PRIVACY

AN ENTERPRISE PERSPECTIVE ON RISKS AND COMPLIANCE

"O'Reilly Media, Inc." You may regard cloud computing as an ideal way for your company to control IT costs, but do you know how private and secure this service really is? Not many people do. With *Cloud Security and Privacy*, you'll learn what's at stake when you trust your data to the cloud, and what you can do to keep your virtual infrastructure and web applications secure. Ideal for IT staffers, information security and privacy practitioners, business managers, service providers, and investors alike, this book offers you sound advice from three well-known authorities in the tech security world. You'll learn detailed information on cloud computing security that-until now-has been sorely lacking. Review the current state of data security and storage in the cloud, including confidentiality, integrity, and availability Learn about the identity and access management (IAM) practice for authentication, authorization, and auditing of the users accessing cloud services Discover which security management frameworks and standards are relevant for the cloud Understand the privacy aspects you need to consider in the cloud, including how they compare with traditional computing models Learn the importance of audit and compliance functions within the cloud, and the various standards and frameworks to consider Examine security delivered as a service-a different facet of cloud security

GUIDE TO CLOUD COMPUTING

PRINCIPLES AND PRACTICE

Springer Science & Business Media This book describes the landscape of cloud computing from first principles, leading the reader step-by-step through the process of building and configuring a cloud environment. The book not only considers the technologies for designing and creating cloud computing platforms, but also the business models and frameworks in real-world implementation of cloud platforms. Emphasis is placed on "learning by doing," and readers are encouraged to experiment with a range of different tools and approaches. Topics and features: includes review questions, hands-on exercises, study activities and discussion topics throughout the text; demonstrates the approaches used to build cloud computing infrastructures; reviews the social, economic, and political aspects of the on-going growth in cloud computing use; discusses legal and security concerns in cloud computing; examines techniques for the appraisal of financial investment into cloud computing; identifies areas for further research within this rapidly-moving field.

DATA GOVERNANCE: THE DEFINITIVE GUIDE

"O'Reilly Media, Inc." As you move data to the cloud, you need to consider a comprehensive approach to data governance, along with well-defined and agreed-upon policies to ensure your organization meets compliance requirements. Data governance incorporates the ways people, processes, and technology work together to ensure data is trustworthy and can be used effectively. This practical guide shows you how to effectively implement and scale data governance throughout your organization. Chief information, data, and security officers and their teams will learn strategy and tooling to support democratizing data and unlocking its value while enforcing security, privacy, and other governance standards. Through good data governance, you can inspire customer trust, enable your organization to identify business efficiencies, generate more competitive offerings, and improve customer experience. This book shows you how. You'll learn: Data governance strategies addressing people, processes, and tools Benefits and challenges of a cloud-based data governance approach How data governance is conducted from ingest to preparation and use How to handle the ongoing improvement of data quality Challenges and techniques in governing streaming data Data protection for authentication, security, backup, and monitoring How to build a data culture in your organization

GRID AND CLOUD DATABASE MANAGEMENT

Springer Science & Business Media Since the 1990s Grid Computing has emerged as a paradigm for accessing and managing distributed, heterogeneous and geographically spread resources, promising that we will be able to access computer power as easily as we can access the electric power grid. Later on, Cloud Computing brought the promise of providing easy and inexpensive access to remote hardware and storage resources. Exploiting pay-per-use models and virtualization for resource provisioning, cloud computing has been rapidly accepted and used by researchers, scientists and industries. In this volume, contributions from internationally recognized experts describe the latest findings on challenging topics related to grid and cloud database management. By exploring current and future developments, they provide a thorough understanding of the principles and techniques involved in these fields. The presented topics are well balanced and complementary, and they range from well-known research projects and real case studies to standards and specifications, and non-functional aspects such as security, performance and scalability. Following an initial introduction by the editors, the contributions are organized into four sections: Open Standards and Specifications, Research Efforts in Grid Database Management, Cloud Data Management, and Scientific Case Studies. With this presentation, the book serves mostly researchers and graduate students, both as an introduction to and as a technical reference for grid and cloud database management. The detailed descriptions of research prototypes dealing with spatiotemporal or genomic data will also be useful for application engineers in these fields.

CLOUD COMPUTING

METHODS AND PRACTICAL APPROACHES

Springer Science & Business Media This book presents both state-of-the-art research developments and practical guidance on approaches, technologies and frameworks for the emerging cloud paradigm. Topics and features: presents the state of the art in cloud technologies, infrastructures, and service delivery and deployment models; discusses relevant theoretical frameworks, practical approaches and suggested methodologies; offers guidance and best practices for the development of cloud-based services and infrastructures, and examines management aspects of cloud computing; reviews consumer perspectives on mobile cloud computing and cloud-based enterprise resource planning; explores software performance testing, open-source cloudware support, and assessment methodologies for modernization, migration and pre-migration; describes emerging new methodologies relevant to the cloud paradigm, and provides suggestions for future developments and research directions.

COMMUNICATION INFRASTRUCTURES FOR CLOUD COMPUTING

IGI Global Cloud computing has provided multiple advantages as well as challenges to software and infrastructure services. In order to be fully beneficial, these challenges facing cloud specific communication protocols must be addressed. Communication Infrastructures for Cloud Computing presents the issues and research directions for a broad range of cloud computing aspects of software, computing, and storage systems. This book will highlight a broad range of topics in communication infrastructures for cloud computing that will benefit researchers, academics, and practitioners in the active fields of engineering, computer science, and software.

ENCYCLOPEDIA OF CLOUD COMPUTING

John Wiley & Sons The Encyclopedia of Cloud Computing provides IT professionals, educators, researchers and students with a compendium of cloud computing knowledge. Authored by a spectrum of subject matter experts in industry and academia, this unique publication, in a single volume, covers a wide range of cloud computing topics, including technological trends and developments, research opportunities, best practices, standards, and cloud adoption. Providing multiple perspectives, it also addresses questions that stakeholders might have in the context of development, operation, management, and use of clouds. Furthermore, it examines cloud computing's impact now and in the future. The encyclopedia presents 56 chapters logically organized into 10 sections. Each chapter covers a major topic/area with cross-references to other chapters and contains tables, illustrations, side-bars as appropriate. Furthermore, each chapter presents its summary at the beginning and backend material, references and additional resources for further information.

SECURE AND TRUST COMPUTING, DATA MANAGEMENT, AND APPLICATIONS

STA 2011 WORKSHOPS: IWCS 2011 AND STAVE 2011, LOU TRAKI, GREECE, JUNE 28-30, 2011. PROCEEDINGS

Springer Science & Business Media This book constitutes the refereed proceedings of two workshops held in conjunction with the 8th FIRA International Conference on Secure and Trust Computing, Data Management, and Applications, STA 2011, in Crete, Greece, in June 2011. STA 2011 is the first conference after the merger of the successful SSDU, UbiSec, and TRUST symposium series previously held from 2006 until 2010 in various locations. The 14 full papers of the IWCS 2011 and 10 papers of the STAVE 2011 workshop were carefully reviewed and individually selected from the lectures given at each workshop. The International Workshop on Convergence Security in Pervasive Environments, IWCS 2011, addresses the various theories and practical applications of convergence security in pervasive environments. The International Workshop on Security & Trust for Applications in Virtualized Environments, STAVE 2011, shows how current virtualization increases the sharing of compute, network and I/O resources with multiple users and applications in order to drive higher utilization rates, what replaces the traditional physical isolation boundaries with virtual ones.

THE LAW OF GOVERNANCE, RISK MANAGEMENT AND COMPLIANCE

Aspen Publishing Geoffrey Miller's The Law of Governance, Risk Management and Compliance is widely credited for introducing a new field of legal studies. Compliance and its related subjects of governance and risk management are major sources of jobs and also important developments in legal practice. The billions of dollars of fines paid over the past decade and the burgeoning and seemingly never-ending parade of compliance and risk management breakdowns - recently including the Wells Fargo sales practices scandal, the Volkswagen emissions cheat, and the Boeing 737 MAX crisis - all attest to the importance of the issues treated in this readable and timely book. New to the Third Edition: Comprehensive updates on recent developments New treatment of compliance failures: Wells Fargo account opening scandal, Volkswagen emissions cheat, important developments in Catholic Church sex abuse scandal. New treatment of risk management failures: the Boeing 737 MAX scandal. Professors and students will benefit from: Clear, concise definitions Fun and interesting problems Real-world perspective from an author who has been involved both as a scholar and as a member of a corporate board of directors Highly readable and interesting writing Text boxes containing key concepts and definitions Realistic problems for class discussion and analysis

CYBER SECURITY AND PRIVACY

THIRD CYBER SECURITY AND PRIVACY EU FORUM, CSP FORUM 2014, ATHENS, GREECE, MAY 21-22, 2014,

REVISED SELECTED PAPERS

Springer This book constitutes the thoroughly refereed, selected papers on the Second Cyber Security and Privacy EU Forum, CSP 2014, held in Athens, Greece, in May 2014. The 14 revised full papers presented were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on security; accountability, data protection and privacy; research and innovation.

CYBER SECURITY AND PRIVACY

TRUST IN THE DIGITAL WORLD AND CYBER SECURITY AND PRIVACY EU FORUM 2013, BRUSSELS, BELGIUM, APRIL 2013, REVISED SELECTED PAPERS

Springer This book constitutes the thoroughly refereed, selected papers on Cyber Security and Privacy EU Forum 2013, held in Belgium, in April 2013. The 14 revised full papers presented were carefully reviewed and selected from various submissions. The papers are organized in topical sections on cloud computing, security and privacy management, security and privacy technology, security and privacy policy.

AUDITING CLOUD COMPUTING

A SECURITY AND PRIVACY GUIDE

John Wiley & Sons The auditor's guide to ensuring correct security and privacy practices in a cloud computing environment Many organizations are reporting or projecting a significant cost savings through the use of cloud computing—utilizing shared computing resources to provide ubiquitous access for organizations and end users. Just as many organizations, however, are expressing concern with security and privacy issues for their organization's data in the "cloud." Auditing Cloud Computing provides necessary guidance to build a proper audit to ensure operational integrity and customer data protection, among other aspects, are addressed for cloud based resources. Provides necessary guidance to ensure auditors address security and privacy aspects that through a proper audit can provide a specified level of assurance for an organization's resources Reveals effective methods for evaluating the security and privacy practices of cloud services A cloud computing reference for auditors and IT security professionals, as well as those preparing for certification credentials, such as Certified Information Systems Auditor (CISA) Timely and practical, Auditing Cloud Computing expertly provides information to assist in preparing for an audit addressing cloud computing security and privacy for both businesses and cloud based service providers.

CLOUD TECHNOLOGY: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global As the Web grows and expands into ever more remote parts of the world, the availability of resources over the Internet increases exponentially. Making use of this widely prevalent tool, organizations and individuals can share and store knowledge like never before. Cloud Technology: Concepts, Methodologies, Tools, and Applications investigates the latest research in the ubiquitous Web, exploring the use of applications and software that make use of the Internet's anytime, anywhere availability. By bringing together research and ideas from across the globe, this publication will be of use to computer engineers, software developers, and end users in business, education, medicine, and more.

ON THE MOVE TO MEANINGFUL INTERNET SYSTEMS: OTM 2013 CONFERENCES

CONFEDERATED INTERNATIONAL CONFERENCES: COOPIS, DOA-TRUSTED CLOUD AND ODBASE 2013, GRAZ, AUSTRIA, SEPTEMBER 9-13, 2013. PROCEEDINGS.

Springer This volume constitutes the refereed proceedings of the confederated international conferences: Cooperative Information Systems (CoopIS 2013), Distributed Objects and Applications (DOA-Trusted Cloud 2013), and Ontologies, Data Bases and Applications of SEmantics (ODBASE 2013) held as part of OTM 2013 in September 2013 in Graz, Austria. The 47 revised full papers presented together with 6 short papers and 5 keynotes were carefully reviewed and selected from a total of 137 submissions. The papers are organized in topical sections on business process management; process modelling; service management; social networking; models and schemas; technical advances in cloud computing; towards trusted cloud computing; privacy for the cloud; querying and mining semantic information; semantic matching and mapping; semantic information management; semantics in use.

CLOUD SECURITY: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern, and developing effective methods to protect sensitive information and data on the cloud is imperative. Cloud Security: Concepts, Methodologies, Tools, and Applications explores the difficulties and challenges of securing user data and information on cloud platforms. It also examines the current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting a range of topics such as cloud forensics, information

privacy, and standardization and security in the cloud, this multi-volume book is ideally designed for IT specialists, web designers, computer engineers, software developers, academicians, researchers, and graduate-level students interested in cloud computing concepts and security.

USES OF RISK MANAGEMENT AND DATA MANAGEMENT TO SUPPORT TARGET-SETTING FOR PERFORMANCE-BASED RESOURCE ALLOCATION BY TRANSPORTATION AGENCIES

Transportation Research Board

RESEARCH ANTHOLOGY ON PRIVATIZING AND SECURING DATA

IGI Global With the immense amount of data that is now available online, security concerns have been an issue from the start, and have grown as new technologies are increasingly integrated in data collection, storage, and transmission. Online cyber threats, cyber terrorism, hacking, and other cybercrimes have begun to take advantage of this information that can be easily accessed if not properly handled. New privacy and security measures have been developed to address this cause for concern and have become an essential area of research within the past few years and into the foreseeable future. The ways in which data is secured and privatized should be discussed in terms of the technologies being used, the methods and models for security that have been developed, and the ways in which risks can be detected, analyzed, and mitigated. The Research Anthology on Privatizing and Securing Data reveals the latest tools and technologies for privatizing and securing data across different technologies and industries. It takes a deeper dive into both risk detection and mitigation, including an analysis of cybercrimes and cyber threats, along with a sharper focus on the technologies and methods being actively implemented and utilized to secure data online. Highlighted topics include information governance and privacy, cybersecurity, data protection, challenges in big data, security threats, and more. This book is essential for data analysts, cybersecurity professionals, data scientists, security analysts, IT specialists, practitioners, researchers, academicians, and students interested in the latest trends and technologies for privatizing and securing data.

INFORMATION GOVERNANCE

CONCEPTS, STRATEGIES, AND BEST PRACTICES

John Wiley & Sons Proven and emerging strategies for addressing document and records management risk within the framework of information governance principles and best practices Information Governance (IG) is a rapidly emerging "super discipline" and is now being applied to electronic document and records management, email, social media, cloud computing, mobile computing, and, in fact, the management and output of information organization-wide. IG leverages information technologies to enforce policies, procedures and controls to manage information risk in compliance with legal and litigation demands, external regulatory requirements, and internal governance objectives. Information Governance: Concepts, Strategies, and Best Practices reveals how, and why, to utilize IG and leverage information technologies to control, monitor, and enforce information access and security policies. Written by one of the most recognized and published experts on information governance, including specialization in e-document security and electronic records management Provides big picture guidance on the imperative for information governance and best practice guidance on electronic document and records management Crucial advice and insights for compliance and risk managers, operations managers, corporate counsel, corporate records managers, legal administrators, information technology managers, archivists, knowledge managers, and information governance professionals IG sets the policies that control and manage the use of organizational information, including social media, mobile computing, cloud computing, email, instant messaging, and the use of e-documents and records. This extends to e-discovery planning and preparation. Information Governance: Concepts, Strategies, and Best Practices provides step-by-step guidance for developing information governance strategies and practices to manage risk in the use of electronic business documents and records.

CLOUD COMPUTING

IMPLEMENTATION, MANAGEMENT, AND SECURITY

CRC Press Cloud Computing: Implementation, Management, and Security provides an understanding of what cloud computing really means, explores how disruptive it may become in the future, and examines its advantages and disadvantages. It gives business executives the knowledge necessary to make informed, educated decisions regarding cloud initiatives. The authors first discuss the evolution of computing from a historical perspective, focusing primarily on advances that led to the development of cloud computing. They then survey some of the critical components that are necessary to make the cloud computing paradigm feasible. They also present various standards based on the use and implementation issues surrounding cloud computing and describe the infrastructure management that is maintained by cloud computing service providers. After addressing significant legal and philosophical issues, the book concludes with a hard look at successful cloud computing vendors. Helping to overcome the lack of understanding currently preventing even faster adoption of cloud computing, this book arms readers with guidance essential to make smart, strategic decisions on cloud initiatives.

SOFTWARE TESTING IN THE CLOUD: PERSPECTIVES ON AN EMERGING DISCIPLINE

PERSPECTIVES ON AN EMERGING DISCIPLINE

IGI Global In recent years, cloud computing has gained a significant amount of attention by providing more flexible ways to store applications remotely. With software testing continuing to be an important part of the software engineering life cycle, the emergence of software testing in the cloud has the potential to change the way software testing is performed. *Software Testing in the Cloud: Perspectives on an Emerging Discipline* is a comprehensive collection of research by leading experts in the field providing an overview of cloud computing and current issues in software testing and system migration. Deserving the attention of researchers, practitioners, and managers, this book aims to raise awareness about this new field of study.

BRIGGS

ENTERPRISE CLOUD EPUB _1

Microsoft Press How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

BIG-DATA ANALYTICS AND CLOUD COMPUTING

THEORY, ALGORITHMS AND APPLICATIONS

Springer This book reviews the theoretical concepts, leading-edge techniques and practical tools involved in the latest multi-disciplinary approaches addressing the challenges of big data. Illuminating perspectives from both academia and industry are presented by an international selection of experts in big data science. Topics and features: describes the innovative advances in theoretical aspects of big data, predictive analytics and cloud-based architectures; examines the applications and implementations that utilize big data in cloud architectures; surveys the state of the art in architectural approaches to the provision of cloud-based big data analytics functions; identifies potential research directions and technologies to facilitate the realization of emerging business models through big data approaches; provides relevant theoretical frameworks, empirical research findings, and numerous case studies; discusses real-world applications of algorithms and techniques to address the challenges of big datasets.

BUSINESS TECHNOLOGIES IN CONTEMPORARY ORGANIZATIONS: ADOPTION, ASSIMILATION, AND INSTITUTIONALIZATION

ADOPTION, ASSIMILATION, AND INSTITUTIONALIZATION

IGI Global As two areas of study that thrive on change and innovation, the combination of electronic resources and corporation management presents many challenges to researchers and professionals as information is discovered and applied to existing practices. *Business Technologies in Contemporary Organizations: Adoption, Assimilation, and Institutionalization* investigates the reciprocal relationship between information systems and corporations in order to understand and assess the benefits of this partnership as technology continues to progress. This publication is an essential reference source for researchers, practitioners, and students interested in the practical and theoretical implementation of information systems and electronic resources in corporations and firms.

COMBATING SECURITY BREACHES AND CRIMINAL ACTIVITY IN THE DIGITAL SPHERE

IGI Global With the rapid advancement in technology, a myriad of new threats have emerged in online environments. The broad spectrum of these digital risks requires new and innovative methods for protection against cybercrimes. *Combating Security Breaches and Criminal Activity in the Digital Sphere* is a pivotal reference source for the latest scholarly research on current trends in cyber forensic investigations, focusing on advanced techniques for protecting information security and preventing potential exploitation for online users. Featuring law enforcement perspectives, theoretical foundations, and forensic methods, this book is ideally designed for policy makers, analysts, researchers, technology developers, and upper-level students.

ARCHITECTING CLOUD COMPUTING SOLUTIONS

BUILD CLOUD STRATEGIES THAT ALIGN TECHNOLOGY AND ECONOMICS WHILE EFFECTIVELY MANAGING RISK

Packt Publishing Ltd Accelerating Business and Mission Success with Cloud Computing. Key Features A step-by-step guide that will practically guide you through implementing Cloud computing services effectively and efficiently. Learn to choose the most ideal Cloud service model, and adopt appropriate Cloud design considerations for your organization. Leverage Cloud computing methodologies to successfully develop a cost-effective Cloud environment successfully. Book Description Cloud adoption is a core component of digital transformation. Scaling the IT environment, making it resilient, and reducing costs are what organizations want. *Architecting Cloud Computing Solutions* presents and explains critical Cloud solution design considerations and technology decisions required to choose and deploy the right Cloud service and deployment models, based on your business and technology service

requirements. This book starts with the fundamentals of cloud computing and its architectural concepts. It then walks you through Cloud service models (IaaS, PaaS, and SaaS), deployment models (public, private, community, and hybrid) and implementation options (Enterprise, MSP, and CSP) to explain and describe the key considerations and challenges organizations face during cloud migration. Later, this book delves into how to leverage DevOps, Cloud-Native, and Serverless architectures in your Cloud environment and presents industry best practices for scaling your Cloud environment. Finally, this book addresses (in depth) managing essential cloud technology service components such as data storage, security controls, and disaster recovery. By the end of this book, you will have mastered all the design considerations and operational trades required to adopt Cloud services, no matter which cloud service provider you choose. What you will learn Manage changes in the digital transformation and cloud transition process Design and build architectures that support specific business cases Design, modify, and aggregate baseline cloud architectures Familiarize yourself with cloud application security and cloud computing security threats Design and architect small, medium, and large cloud computing solutions Who this book is for If you are an IT Administrator, Cloud Architect, or a Solution Architect keen to benefit from cloud adoption for your organization, then this book is for you. Small business owners, managers, or consultants will also find this book useful. No prior knowledge of Cloud computing is needed.

IT LAWS IN THE ERA OF CLOUD-COMPUTING

A COMPARATIVE ANALYSIS BETWEEN EU AND US LAW ON THE CASE STUDY OF DATA PROTECTION AND PRIVACY

Nomos Verlag Der Band dokumentiert die Ergebnisse und Empfehlungen einer Analyse zur Frage, wie sich IT-Gesetze entwickeln sollten, unter der Prämisse, dass die heutige und zukünftige Informations- und Kommunikationstechnologie durch Cloud Computing geprägt ist. Insbesondere entwickelt sich diese Untersuchung auf einer vergleichenden und einer interdisziplinären Achse, d.h. als Rechtsvergleich zwischen EU und US-Recht und interdisziplinär zwischen Recht und IT. Die Arbeit konzentriert sich auf den Schwerpunkt vom Datenschutz und Datensicherheit in Cloud-Umgebungen und analysiert drei Hauptherausforderungen auf dem Weg zu einer effizienteren Cloud-Computing-Regulierung: Verständnis der Gründe für die Entwicklung divergierender Rechtsordnungen und Denkschulen zum IT-Recht Gewährleistung der Privatsphäre und Datenschutz in der Cloud konvergierende Regulierungsansätze für die Cloud in der Hoffnung auf eine harmonisierte Landschaft von IT-Gesetzen in der Zukunft.

SERVICE-ORIENTED COMPUTING

14TH INTERNATIONAL CONFERENCE, ICSOC 2016, BANFF, AB, CANADA, OCTOBER 10-13, 2016, PROCEEDINGS

Springer This book constitutes the proceedings of the 14th International Conference on Service-Oriented Computing, ICSOC 2016, held in Banff, AB, Canada, in October 2016. The 30 full papers presented together with 18 short papers and 8 industrial papers in this volume were carefully reviewed and selected from 137 submissions. The selected papers covered important topics in the area of service-oriented computing, including foundational issues on service discovery and service-systems design, business process modelling and management, economics of service-systems engineering, as well as services on the cloud, social networks, the Internet of Things (IoT), and data analytics.

DATA ANALYTICS IN MEDICINE: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Advancements in data science have created opportunities to sort, manage, and analyze large amounts of data more effectively and efficiently. Applying these new technologies to the healthcare industry, which has vast quantities of patient and medical data and is increasingly becoming more data-reliant, is crucial for refining medical practices and patient care. Data Analytics in Medicine: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines practical applications of healthcare analytics for improved patient care, resource allocation, and medical performance, as well as for diagnosing, predicting, and identifying at-risk populations. Highlighting a range of topics such as data security and privacy, health informatics, and predictive analytics, this multi-volume book is ideally designed for doctors, hospital administrators, nurses, medical professionals, IT specialists, computer engineers, information technologists, biomedical engineers, data-processing specialists, healthcare practitioners, academicians, and researchers interested in current research on the connections between data analytics in the field of medicine.